



**REGULAR BOARD MEETING
AGENDA PACKET**

AUGUST 18, 2025

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Regular Board Meeting - Monday, August 18, 2025, 6:00 p.m.

Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608

Join from computer, tablet or smartphone. Click on this URL to join:

<https://us02web.zoom.us/j/83596878004?pwd=b0Fvj6ch85NMSco2p52u9ox3O33J6v.1>

Join by phone: Dial US [+1 669 900 6833](tel:+16699006833)
Meeting ID: [835 9687 8004](https://us02web.zoom.us/j/83596878004?pwd=b0Fvj6ch85NMSco2p52u9ox3O33J6v.1) **Passcode:** [564283](#)

AGENDA

The Board will discuss all items on its agenda, and may take action on any of those items, including information items and continued items. The Board will not take action on or discuss any item not appearing on the posted agenda, except: (a) upon a determination by a majority vote of the Board that an emergency situation exists; or (b) upon a determination by a two-thirds vote of the Board members present at the meeting, or, if less than two-thirds of the members of the Board are present, a unanimous vote of those members present, that the need to take immediate action became apparent after the agenda was posted. Agenda packets can be found at our website at carmichaelwd.org.

The Board of Directors welcomes and encourages participation in meetings. Public comment may be given on any agenda item as it is called and limited to three minutes per speaker. Matters not on the posted agenda may be addressed under Public Comment. Please follow Public Comment Guidelines found on the District's website at carmichaelwd.org/public-comment-guidelines/.

In compliance with the Americans with Disabilities Act, if you have a disability and need a disability-related modification or accommodation to participate in this meeting, please contact the General Manager at 483-2452. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

CALL TO ORDER AND STATEMENT REGARDING PUBLIC PARTICIPATION: President Greenwood

ROLL CALL

PRESIDENTS COMMENTS

PUBLIC COMMENT:

1. Public Comment

Any member of the public may address the Board on any item of interest to the public that is within the subject matter jurisdiction of the Board.

PRESENTATION:

2. La Vista Tank and PS – Toppel Consulting **3. Water Rate Study – Hildebrand Consulting**

CONSENT CALENDAR:

Consent Calendar items are expected to be routine and non-controversial, to be acted on by the Board in one motion. Should any Board member, staff member, or interested person request discussion on an item, the Board will consider the item separate from the Consent Calendar.

4. Minutes for the Special Board Meeting – July 21, 2025 **5. Minutes for the Regular Board Meeting – July 21, 2025** **6. Minutes for the Special Board Meeting – July 25, 2025** **7. Minutes for the Finance Committee Meeting – July 30, 2025** **8. Minutes for the Special Board Meeting – August 7, 2025** **9. Minutes for the Special Board Meeting – August 7, 2025** **10. Monthly Expenditure Report – June 2025**

ACTION CALENDAR:

11. Proposed Water Rates and Assembly Bill 2257 Objections Process

Staff recommends that the Board of Directors consider proceeding with the proposed rate adjustment without the AB 2257 provisions and direct staff to move forward accordingly

12. Cross Connection Control Program and Regulation Adoption

Staff recommends that the Board of Directors approve Resolution 08182025-01 - A Resolution of the Carmichael Water District Adopting and Implementing the Carmichael Water District Cross-Connection Control Regulation.

13. Proposed Rule Change for Turf Replacement Program

Staff recommends that the Board of Directors approve the proposed changes outlined in Attachment 1, which allows removing the one (1) project per property limitation and increase the maximum payment up to \$4,000 per property. These proposed changes do not conflict with requirements from the USBR grant.

14. Development Agreement for 8105 Fair Oaks Blvd for Water Service

Staff recommends that the Board of Directors authorize the General Manager to execute the attached Developers Agreement for Water Service to be used at 8105 Fair Oaks Blvd.

15. Amendment 1 for the Professional Services Agreement with Water Systems Consulting for Progressive Design-Build Professional Assistance for the Ladera and Winding Way Well Site Improvement Project

Staff recommends that the Board of Directors: 1) approve Amendment 1 to the Professional Services Agreement with Water Systems Consulting, Inc. for \$537,719, 2) approve a contingency amount of \$100,000 to fund District staff approved optional tasks offered by WSC or any unforeseen costs, resulting in a contract not-to-exceed amount of \$668,866, and 3) authorize the General manager to approve future amendments up to the approved contingency amount.

16. FY 25-26 Salary Adjustment and Salary Schedule

Staff recommends that the Board of Directors approve 1) 3% COLA to all employees, 2) 5% pay parity increase to Finance Manager and Production Superintendent positions, 3) FY 25-26 salary schedule, 4) Resolution 08182025-02, A Resolution Adopting the Carmichael Water District Fiscal Year 2025-2026 Salary Schedule, and 5) Resolution 08182025-03 - A Resolution Amending the Districts' Policy 5030 Vacation and Policy 6000 – Health and Welfare Benefits.

17. ACWA Committee Appointment Consideration

Staff recommends that the Board of Directors provide 1) direction on the committees in which they would like to join and direct staff to submit the Committee Consideration Form to ACWA by September 19, 2025 and 2) direction to Director Greenwood for the Board Officers' Election for President & Vice President and Region Boards for 2026-'27.

18. Sponsorship for the 2025 Great American River Clean-Up

Staff recommends that the Board of Directors approve the Parkway Protector sponsorship of \$1,000 for the 2025 Great American River Clean-Up event or provide direction to staff as necessary.

INFORMATIONAL ITEMS:**19. August Informational Update for the La Vista Tank and Booster Pump Station Project****20. Meter Replacement And Meter Accuracy Program****21. La Sierra Landscaping Plan and Perimeter Wall Update****22. Information for Electric Building Sign****23. Auction sale of surplus vehicles and equipment**

COMMITTEE REPORTS:**24. Regional Water Authority**

Director Greenwood Reports Out.

25. Sacramento Ground Water Authority

Director Selsky Reports Out.

26. Other Committee Reports

Directors Report Out.

STAFF REPORTS:**27. General Manager and District Activity Report – July 2025****28. Director's Expense Reimbursement Summary – July 2025**

GENERAL CORRESPONDENCE/INFORMATION:**29. Director's Written and/or Oral Reports**

The next meeting of the Board of Directors will be a Regular Board Meeting held on:

Monday, September 15, 2025 at 6:00 p.m.



Special Board Meeting
Monday, July 21, 2025, 4:00 p.m.

Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608

MINUTES

The Carmichael Water District Board of Directors met in Special Session this 21st day of July at 4:00 p.m.

ATTENDANCE:

Directors: Ronald Davis, Mark Emmerson, Paul Selsky, Jeff Nelson, and Ron Greenwood

Staff: Gaby Padilla

Public: Zero (0) Members of the Public

CALL TO ORDER: President Greenwood called the meeting to order at: 4:03 p.m.

PUBLIC COMMENT:

1. **Public Comment**

No comments.

ANNOUNCED CLOSED SESSION AND ADJOURN OPEN SESSION TO CLOSED SESSION: 4:03 a.m.

CLOSED SESSION

2. **PUBLIC EMPLOYEE PERFORMANCE EVALUATION – INVOLVING THE GENERAL MANAGER (Government Code sections 54957 and 54957.6)**

ADJOURNED CLOSED SESSION AND OPENED REGULAR SESSION: 5:30 p.m.

REPORT OUT OF CLOSED SESSION: The Board discussed the General Managers evaluation and determined another meeting that includes General Counsel is needed.

ADJOURNMENT: President Greenwood adjourned the meeting at: 5:31 p.m.

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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Regular Board Meeting
Monday, July 21, 2025, 6:00 p.m.

Carmichael Water District
7837 Fair Oaks Boulevard
Carmichael, CA 95608

MINUTES

The Carmichael Water District Board of Directors met in Regular Session this 21st day of July at 6:00 p.m. in person and via teleconference.

ATTENDANCE:

Directors: Ron Davis, Mark Emmerson, Ron Greenwood, Jeff Nelson, Paul Selsky
Staff: Cathy Lee, Gaby Padilla, Debbie Martin, Aaron Ferguson
Guest: Shelly Anderson with Bryce Consulting Inc.
Public: Eighteen (18) Members of the Public

CALL TO ORDER: President Greenwood called the meeting to order at: **6:00 p.m.**

PRESIDENTS COMMENTS: President Greenwood led the Pledge of Allegiance.

PUBLIC COMMENT

1. Public Comment

No comments.

ANNOUNCED CLOSED SESSION AND ADJOURNED OPEN SESSION TO CLOSED SESSION: 6:01 p.m.

CLOSED SESSION

2. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION; Government Code sections 54954.5(c) and 54956.9(a) and (d)(1);
Carmichael Water District v. Nugent, et al., Sacramento Superior Court Case No. 34-2021-00299134

3. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION; Government Code sections 54954.5(c) and 54956.9(a) and (d)(1);
Christy Arsenth, et al. v. Carmichael Water District, Alameda County Superior Court Case No. 24CV089313

ADJOURNED CLOSED SESSION AND OPENED REGULAR SESSION 7:16 p.m.

REPORTED OUT OF CLOSED SESSION: The Board of Directors gave direction to legal counsel.

CONSENT CALENDAR

4. Minutes for the Regular Board Meeting – June 16, 2025

Director Nelson informed staff that he would like to have his name in the minutes moving forward every time he speaks on an item.

5. Monthly Expenditure Report – May 2025

6. Budget to Actual Report – May 2025

M/S Nelson / Emmerson to approve the consent calendar.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

ACTION ITEMS**7. Award of Progressive Design-Build Contract for the Construction of the Ladera and Winding Way ASR Wells Project**

Staff recommends that the Board authorize the General Manager to 1) execute a Construction Contract with Garney Construction for the amount of \$997,548.00 and 2) authorize an additional \$100,000.00 contingency to be used only upon Staff approval for unforeseen work. With contingency, the total not to exceed contract amount for the proposed work is potentially \$1,097,548.00. Contract execution will not take place before legal review and approval are received.

Directors commented that the other contractor had a much lower bid.

The General Manager informed the Board of Directors that Garney-Dewberry's bid is higher but they have the potential of completing the project quicker.

Directors commented that Garney-Dewberry can only "potentially" order items earlier and complete the project faster. They then inquired if staff spoke to Auburn Constructors to see if they could potentially order items earlier and complete the project faster.

The General Manager informed the Board of Directors that staff did speak to Auburn Constructors and they were more reluctant of ordering the items ahead. Auburn Constructors are taking the more traditional approach and want to design the wells first and then order the items needed. She mentioned that the District would take on risk if the items are ordered ahead. If Garney-Dewberry recommend a guaranteed maximum that the District could not accept then the ordered items would be the District's responsibility. Then, whomever is chosen to complete the project, the contract will just state that the project will have owner-supplied items. Staff feels comfortable having owner supplied items should the contract with Garney-Dewberry not work out.

Directors inquired why staff is comfortable with potentially getting stuck with supplies that could potentially not be used.

The General Manager informed the Board of Directors that staff and Water Systems Consulting (WSC), feels comfortable with recommending Garney-Dewberry because they are a nationwide firm that has experience in constructing wells. Items that ordered would be needed.

Directors commented that they do not doubt that Garney-Dewberry understand wells, they just have not been convinced that Auburn Constructors does not have the same skills and abilities.

The General Manager informed the Board of Directors that Auburn Constructors do have the same skills and abilities; they are just less risk adverse and are not willing to order equipment ahead.

Directors inquired if staff is willing to pay \$150,000 more just to be able to order ahead.

The General Manager informed the Board of Directors that there is a possibility of losing over \$6 million in grant with the state. It expires at the end of this year and it is unknown if there will be a grant extension. That is the reason why staff wants to be able to order the equipment early to not lose the funding. The funding is on a reimbursable basis and requires the District to submit a paid invoice first. As of now, all invoices must be submitted to the State by March 2026 to receive the funding.

Director Nelson commented that Garney-Dewberry is a national firm then he inquired if staff feels comfortable with them being more aggressive in getting the equipment and if staff is mitigating the risk associated with getting them early.

The General Manager informed the Board of Directors that this was correct.

Directors inquired if the \$100,000 contingency is typical for this type of contract.

The General Manager informed the Board of Directors that the contingency is always about 10 to 15 percent and in this case, the \$100,000 is about 10 percent.

Mr. Wallace inquired if this contract had two phases.

The General Manager informed Mr. Wallace that he was correct.

Mr. Wallace commented that he was reading this contract and the off-ramp section in the contract on page 21 section 2.4.1 states "The parties acknowledge that Owner's ability to successfully complete the Project may be significantly impacted if Owner elects to terminate Contractor's services at the end of Phase 1." He then inquired how often does that happen and what would that impact be.

The General Manager informed Mr. Wallace that she does not know how often that happens but in the projects that have happened in the Sacramento area there has not been a case where this has happened.

Mr. Wallace commented that he has not seen this terminology in a contract before.

Director Nelson informed Mr. Wallace that in progressive design build contract typically has this type of off-ramp clause.

Directors commented that they were looking at the cost break down and hourly rates and then inquired who ASR System was.

The General Manager informed the Board of Directors that ASR Systems is a company in Florida that is owned by David Pyne. David Pyne used to work for Jacobs and he was one of the first fellows to work on the operations of the ASR Wells, specifically the injection, extraction, and the timing. She then mentioned that this is an item that she is willing to take out because there is already an ASR consultant with GEI for the District.

Director Nelson commented that they just want to get Mr. Ferguson's opinion of this contract since he is the District's General Counsel.

Mr. Ferguson commented that he has not looked at the contract.

Director Nelson directed him to look at the contact and respond within a month.

M/S Emmerson / Selsky to approve staff's recommendation.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye		Nay		Absent		Abstain	✓
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	4	Nays:	0	Absent:	0	Abstain:	1
Motion Passed:								

8. Memorandum of Understandings (MOUs) between Carmichael Water District, Pappas Investments, and D.R. Horton for Water Service

Staff recommends that the Board of Directors authorize the General Manager to execute the Memorandum of Understandings with Pappas Investments and D.R. Horton to thereby authorize and facilitate the District's interests related to the development of the proposed Winding Ranch project.

Director Nelson inquired if Mr. Ferguson is ok with these MOU's.

Mr. Ferguson commented that he did notice one item when he was reviewing it today. It was his understanding that there was to be 6 new 2-inch lines which is mentioned in the staff report but on the schedule in the contract on page 141 of the Board packet it is not real clear. He mentioned that the way he reads it is that by each due date you need to purchase what is listed in the second column but when he totals it up there is only 5 2-inch connections at the end of this process rather than 6.

The General Manager informed Mr. Ferguson that in the contract it shows 5 because they only are planning for 5 but there is a possibility where there is a 6th connection by other developers. The main point for the schedule is to have everything paid out in 36 months. She then mentioned that in the MOU with D.R. Horton it is only 24 months because they have 79 connections and could develop faster compared to a commercial development.

Director Nelson commented that he thinks Mr. Ferguson is referring to the staff report where it states that there will be 6 new 2-inch service connections but it should be 5.

The General Manager informed the Board of Directors that this was correct.

Director Nelson directed staff to change the memo to reflect 5 new 2-inch lines.

Directors inquired about the pressure zone of the new development.

The General Manager informed the Board of Directors that the new development will be in pressure zone 2 but staff is working on a water system modeling and they are figuring out if they want to bring the pressure zone 1 down to Lincoln Ave in the future.

Directors inquired if there is cost associated to that change.

The General Manager informed the Board of Directors that there is cost associated.

Directors inquired if the developers were going to pay for that.

The General Manager informed the Board of Directors that they will not be paying because they will still be in zone 2. The changing of zone 1 will be based on the modeling and the work still yet to be completed.

Directors inquired if there will be a significant drop in water pressure due to the construction of the 75 1-inch units. The General Manager informed the Board of Directors that there will not be a pressure drop and staff knows this because they have already done a fire flow analysis and there is a report on what the impact will be. The 75 houses being built are relatively small and compact.

Directors inquired if the D.R. Horton representative that signed the MOU had the correct job title of City Manager.

Mr. Ferguson commented that the job title also caught his attention and he did look him up and it is his title within the D.R. Horton organization.

Directors inquired if the houses with the 1-inch connections were small then why did they not go with a smaller connection.

The General Manager informed the Board of Directors that this is something they are discussing. Staff has noticed that there are households that use very little water and they are considering talking to those ratepayers about getting a smaller meter.

Directors commented that they agree because a 1-inch meter will under read low flows and the District will lose revenue and the water that is not being billed looks like unaccounted for water and then makes the District's water loss look bigger.

The General Manager informed the Board of Directors that staff is starting to look more into that.

M/S Nelson / Davis to approve staff recommendation with the change in the staff report to reflect that there are 5 new 2-inch water service connections.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

9. FY 25-26 Salary Schedule and Memorandum of Understanding (MOU) with AFSCME Represented Employees

Staff recommends that the Board of Directors approve the Memorandum of Understanding with AFSCME, Local 146 for Represented Employees, and Resolution 07212025-01, A Resolution Adopting the Carmichael Water District Fiscal Year 2025-2026 Salary Schedule.

Ms. Anderson presented the 2025 compensation study for the District employees.

Director Nelson commented that he was a little confused as to what was being asked to approve. He then inquired if the MOU with AFSCME on page 231 shows a COLA increase of 5 percent. Director Nelson then inquired if the non-represented staff was only getting 3 percent.

The General Manager informed Director Nelson that after the 3 percent COLA, there were a few classifications that were lower and all those positions were listed out in the memo. She then mentioned that because the treatment and distribution positions are lower and they knew that with the 3 percent COLA they were still under the 62.5 percentile and that was why they negotiated to 5 percent. Similarly, the Finance Manager and the Production Superintendent were still lower after the COLA. She is recommending an 8 percent adjustment for the Finance Manager and the Production Superintendent to bring them up to the 62.5 percentile benchmark.

Director Nelson then inquired as to what this meant for increases for all staff.

The General Manager informed Director Nelson that everyone is at least at the 62.5 percentile.

Directors commented that his question was not where everyone landed on the percentile benchmark, but rather what was the salary increase for everyone.

The General Manager inquired if they were talking about the increase for the budget.

Director Nelson commented that he wanted to know the percentage that each position was getting. He then commented that it sounds like the represented employees were receiving a 3 percent COLA with an additional increase of 2 percent and he is wondering what additional amount the non-represented employees are receiving.

The General Manager informed Director Nelson that the non-union staff received a 3 percent COLA and after that she is just trying to bring everyone up to the 62.5 percentile benchmark.

Director Nelson inquired if the non-represented employees were receiving an increase in addition to the COLA.

The General Manager informed Director Nelson that the Finance Manager and the Production Superintendent are the only positions getting an additional increase because the rest are already at the 62.5 percentile benchmark. She then mentioned that the Distribution Superintendent was 8.1 percent higher than the 62.5 percentile benchmark after the 3 percent COLA was applied and the Billing Supervisor was 7.4 percent higher as well.

Director Nelson commented that he was looking at the 62.5 percentile as a minimum goal but it seems like there are positions that are still receiving an additional increase after the COLA.

The General Manager informed Director Nelson that the recommendation is for some positions to receive an increase higher than the COLA to reach the 62.5 percentile.

Director Nelson commented that it's great that they are at the 62.5 percentile but he is looking at more than just the COLA and wants to see the merit increases.

The General Manager commented that the data that the compensation study used was based on the top step for every position and using that as the benchmark. They use the top step because staff could be at different steps within their salary schedule.

Directors inquired if all the AFSCME employees were getting a 3 percent or 5 percent increase.

The General Manager informed the Board of Directors that all the AFSCME employees were getting a 5 percent increase.

Directors commented that in the financial impact in the memo it talks about the 3 percent COLA only adjustment and inquired if that was a separate issue.

The General Manager asked the Board of Directors for a clarification in the question.

Directors then inquired if they were missing where it is stated that everyone else will also receive a 5 percent COLA. The General Manager informed the Board of Directors that not everyone was receiving a 5 percent COLA. She then commented that the financial impact is just a comparative analysis and it's based on the number of classification that the District currently has. She mentioned that if the Board approves the staff's recommendation then the financial impact will be \$243,714 but if the Board only approves a 3 percent COLA then the financial impact will be \$206,277.

Director Nelson commented that it looks like the General Manager is giving some people 5 percent and everyone else 3 percent.

The General Manager informed Director Nelson that she did not because the Finance Manager and the Production Superintendent are receiving 8 percent.

Director Nelson commented that only 2 people are receiving more.

The General Manager informed Director Nelson that there was a compensation study done in 2022 that adjusted everyone's compensation to be at the 62.5 percentile and since then they have received yearly COLAs and now are on par with the 62.5 percentile. She then mentioned that if they receive an additional increase then all positions are going to be way over the 62.5 percentile.

Director Nelson commented that it seems like this is just going to incentive the non-represented employees to join a union.

The General Manager informed Director Nelson that she is trying not to. She then asked Ms. Anderson to pull up the chart that was in the presentation. Once the chart was on the screen, the General Manager commented that if you see the Distribution Operator 2 position shows that they are still under the 62.5 percentile for total cash by 7.05 percent but for the total compensation chart they are still under the 62.5 percentile by 2.03 percent. She also mentioned that because of the other Distribution and Treatment Operators are lower than the 62.5 percentile, they negotiated an additional 2 percent increase.

Director Nelson commented that the 62.5 percentile is just a benchmark or a guideline. He then mentioned that he heard Ms. Anderson saying that it is hard to get apples to apples with the different positions in other agencies but then the General Manager is implying that the salary data is where it should be.

The General Manager informed Director Nelson that in some positions, it has been hard to compare the job descriptions but the data is just to get everyone to the 62.5 percentile.

Director Nelson commented that he is seeing some inconsistencies in what is being compared and how the union staff is getting 5 percent meanwhile the rest of staff is only getting 3 percent does not seem right.

The General Manager informed Director Nelson that this is what the data is showing and that maybe Ms. Anderson could help clarify.

Ms. Anderson commented that she thinks the issue is with the 3 percent COLA for some classifications is not bringing them up to the 62.5 percentile so there needs to be an increase for certain classifications such as the Production Superintendent who is almost 9 percent below.

Director Nelson commented that it just does not seem fair to him.

Directors commented that the only thing being approved is the union contract.

Director Nelson commented that Staff is asking to approve the union contract and the salary schedule that includes a 3 percent for non-represented employees.

The General Manager informed the Board of Directors that the Board does not have to approve either one of them or they can approve both of them and it is within the Board's discretion.

Directors commented that they see the vacation policy is included as an attachment and then inquired what is being done with this policy.

The General Manager informed the Board of Directors that long term employees within the District hit the 300 hour cap relatively fast. The update in the policy is to include a vacation pay out of 80 hours once a year in December

provided that they have a minimum of 100 hours after the pay out. It is subject to the General Managers approval and she will be looking at their sick leave bank as well to make sure that they will be covered in case something happens.

Directors commented that they are still confused. They have the AFSCME contract to approve today but will they be presented a similar contract for the non-represented employees.

The General Manager informed the Board of Directors that there will not be a contract for the non-represented employees, their salaries is just in the salary schedule in attachment 2.

Directors inquired as why they are not having a better discussion for the non-represented employee's salaries and their increases.

The General Manager informed the Board of Directors that they can have further discussion but their data is presented in the data sheets.

Directors commented that they are tired of looking at small printed data and they would like to find out if the represented and non-represented employees are being treated equally and consistently.

The General Manager informed the Board of Directors that she believes they are being treated equally and consistently.

Directors commented that then it would have been helpful to have a similar discussion for the non-represented employees because just looking at multiple sheets of data is not helpful.

Mr. Ferguson commented that he is concerned about the clarity of what is being adopted because he sees on the resolution it states that the salary schedule is being adopted but it is not showing exactly what it is.

The General Manager informed Mr. Ferguson that it is referring to the Salary Schedule in attachment 2 on page 207. She then mentioned that the resolution includes the salary schedule for the represented employees that is why, procedurally, the AFSCME contract needs to be adopted first.

Mr. Ferguson commented that as long as it is clear what is being adopted.

Directors inquired the Finance Manager as to what the 3% COLA, which was approved in February, and the additional salary adjustments for the positions that have been listed out in the memo would do to the budget.

The Finance Manager informed the Board of Directors that as the General Manager calculated in the financial impact, she also ran some rough numbers as well and what is stated in the financial impact is spot on with the budget impact comparing last year's wages and benefits to this year. She then mentioned that she already developed the budget with a 3 percent COLA adjustment but the salary schedule was not approved with the budget because there were still some additional discussions with it.

Directors commented that in the budget that was just approved in June, there was a presentation that had the 3 percent included in all the classifications in the May presentation of the budget. They then mentioned that in the budget that was approved in June the salary schedule did not have the 3 percent COLA included.

The Finance Manager informed the Board that they are correct and the approved budget did not have the new salary schedule in it with the 3 percent but in order for her to calculate the overall budget it included the 3 percent COLA. She then mentioned that throughout all the presentations of the budget to the Board the 3 percent COLA adjusted salary schedule was included.

Directors inquired what the difference would be in the adopted budget and with this new amount presented in this memo.

The Finance Manager informed the Board that it is about \$245,000 for this year.

Director Nelson inquired Ms. Anderson about the tables on appendix A on page 184 on the 5th and 6th column you have employees portion of retirement paid by the employer and there are a lot of "0's there.

Ms. Anderson informed Director Nelson that with the pension reform the employer could still pay for the employee's portion of retirement for their Classic Members but many organizations have gone away from doing this. Roseville is still paying a portion of the employees share but then there is a wash because the employees have to pay the same portion of the employers share shown in 4th and 5th to last columns.

Ms. Velasquez commented that she is a non-represented employee and she feels that it is unfair that the non-represented employees are only getting a 3 percent and the represented employees are getting 5 percent. She then explained that she understands the data with the salary survey but she does not think the COLA should be different for the employees because that will just have the non-represented employees to push to join a union. Then she mentioned that none of the employees receives deferred compensation from the District but the General Manager does receive this benefit and it was not listed on her table. She feels like by not including the General Manager's deferred compensation in her total compensation then it is not reflecting her true salary.

M/S Nelson / Emmerson to approve the Memorandum of Understanding with AFSCME.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

Director Nelson commented that although the FY25-26 Salary Schedule will not be approved tonight, it would be retroactive to July 1, 2025.

The General Manager inquired from the Board what additional information they would like to see.

Directors commented that they would like to see the financial impact for the non-represented employees if the Board decides to extend their COLA from a 3 percent to a 5 percent and where it would place them at the 62.5 percentile.

Directors commented to show what the salary survey showed for each of the non-represented employees and where they would be at the 50th and 62.5th percentile and what the proposed changes are. They also asked to show the base salary separated from the benefits. They mentioned that they worry about giving certain positions a 5 percent increase and have it potentially put them in the 75 percentile.

The General Manager informed the Board of Directors that with the proposed schedule presented, everybody will be at the 62.5 percentile.

Directors commented that they are concerned to just apply a fixed percent across the board for all employees and risk having positions that are way over the 62.5 percentile or even be less than the 62.5 percentile.

Director Nelson commented that the problem that he is having in the union contract it is for the Distribution Operators and Treatment Operators and every water Districts has those positions. He then mentioned that the way he is understanding it, the other positions do not really have fully comparable jobs at other Districts but the consultant did the best they could to kind of match them up with other job descriptions.

Ms. Anderson informed Director Nelson that she believes that was really just for the Business Operations Specialist but she feels comfortable with the other matches.

The General Manager commented that she took the data and made sure everyone was within a 5 percent of the 62.5 percentile based on Ms. Anderson's recommendation. She then mentioned that all the positions after the 3 percent COLA are all within a few percentages of the 62.5 percentile and no position is below that. She also mentioned that if she did not give the represented employees a 5 percent increase, they would be below the 62.5 percentile and similarly the Production Superintendent and Finance Manager had an increase for the same reason.

Director Nelson commented that he does not have a problem with the 5 percent increase but rather with the 3 percent increase.

Directors commented that they have a problem with any percent if it throws any position substantially over the 62.5 percentile. They inquired if the Board was trying to adopt a policy stating that every position gets an increase regardless of how they fit in the salary survey.

Director Nelson commented that there already is a COLA policy that already does that.

Ms. Anderson commented that she thinks it gets a little tricky when you are doing the COLA and equity adjustments at the same time. She mentioned that the 3 percent is given to all employees, regardless of whether you do the survey and then any additional increase is an equity adjustment because the COLA does not bring them to market. The two increase are separate things, organizations can do COLA's without equity adjustments or vice versa. She then mentioned that the COLA is to keep the positions at market and the equity adjustment brings you to market. So if the COLA is not enough to put the position at market, the equity adjustment will be the increase to put them at market. Once the equity adjustments are put into place, hopefully the next year the COLA will keep them at the market level for a few years.

M/S Davis / Emmerson to table the FY 25-26 Salary Schedule and requested staff to bring it back next month with additional clarification with the non-represented employees' salaries

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	

Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

10. Professional Services Contract to develop the 2025 Urban Water Management Plan (UWMP)

Staff recommends that the Board of Directors approve a Professional Services Agreement with Zanjero in the amount of \$49,5000 with a \$10,000 contingency and authorize the General Manager to execute the agreement for a not-to-exceed amount of \$59,500.

No comments.

M/S Selsky / Emmerson to approve staff's recommendation.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

11. Award of Professional Services Agreement to ECorp Consulting, Inc. for Initial Environmental Review Related to Future Ranney Collector Well Improvements Project

Staff recommends that the Board authorize the General Manager to 1) execute a Professional Services Agreement with a not-to-exceed cost of \$23,982.00 with a contingency of \$65,405.00 to be authorized by Staff for optional tasks should Federal funding be secured and 2) if the use of contingency funds are approved, authorize the General Manager to execute a contract amendment to increase the contract not-to-exceed amount as needed but by no more than \$65,405.00.

Directors commented that staff's recommendation does not state that this is a proposed contract for E-Corp so they think the motion should state this.

Directors commented that they think E-Corp should include their hourly rate schedule in the contract so staff knows that they are charging the correct hourly rate.

M/S Nelson / Davis to authorize the General Manager to execute a Professional Service Agreement with E-Corp Consulting, Inc. and have a contract amount not to exceed \$89,387.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	
Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

12. FY 2025-26 Water Forum Annual Funding Agreement – Interagency Cost Sharing

Staff recommends that the Board of Directors approve the attached Water Forum Annual Funding Agreement for FY 2025-26 in the amount of \$53,445 and authorize the General Manager to execute the agreement.

No comments

M/S Nelson / Emmerson to approve staff's recommendation.

Mark Emmerson	Aye	✓	Nay		Absent		Abstain	
Jeff Nelson	Aye	✓	Nay		Absent		Abstain	

Ronald Davis	Aye	✓	Nay		Absent		Abstain	
Ron Greenwood	Aye	✓	Nay		Absent		Abstain	
Paul Selsky	Aye	✓	Nay		Absent		Abstain	
Board Totals:	Ayes:	5	Nays:	0	Absent:	0	Abstain:	0
Passed Unanimously:								

INFORMATIONAL ITEMS**18. Monthly Informational Update for the La Vista Tank and Booster Pump Station**

Director Nelson inquired as to when the project was going to be completed.

The General Manager informed Director Nelson that the contract stated that it would be completed in May of 2026.

Director Nelson commented that he did not see the schedule in the report and they had asked for staff to include the schedule in this report.

The General Manager informed Director Nelson that there has been no changes to the schedule in the past couple of months and that is why it was not included but she will make sure it is in the report next month.

Director Nelson directed the General Manager to include the schedule even if there is no changes.

19. Carmichael Water District Standard Specifications and Details Revisions

Director Nelson inquired as to what the changes are based on.

The General Manager informed Director Nelson that a lot of it is based on the Districts operations parameters, some of it is based on new standards from AWWA, and some is based on new types of pipes that we are using.

COMMITTEE REPORTS**20. Regional Water Authority**

Director Greenwood Reports Out.

Director Greenwood reported that there was a Board meeting on July 10th hosted by CWD. He mentioned that at the meeting they had a panel discussion with the RWA's foothill water agency members about the needs of these water agencies and how it could be addressed in the Strategic Plan. He mentioned that they also discussed and reviewed the classification and compensation study for RWA employees.

21. Carmichael Chamber of Commerce

Director Nelson Reports Out.

No report.

22. Other Committee Report

Directors Report Out.

Director Greenwood reported attending the Carmichael 4th of July parade. He mentioned that he rode in a convertible and it took about 20 minutes to drive through the entire parade. He encourages all the Board to participate in the parade in the future.

STAFF REPORTS:**23. General Manager and District Activity Report – June 2025**

Discussed with the Board.

In addition to the reports, the General Manager also informed the Board of Directors that Toppel Construction gave a presentation to staff with recommendations for construction management.

24. Director's Expense Reimbursement Summary – June 2025

No comments.

GENERAL CORRESPONDENCE/INFORMATION:**25. Director's Written and/or Oral Reports**

ADJOURNMENT: President Greenwood adjourned the meeting at: **9:07 p.m.**

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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Special Board Meeting
Friday, July 25, 2025, 9:00 a.m.

Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608

MINUTES

The Carmichael Water District Board of Directors met in Special Session this 25th day of July at 9:00 a.m.

ATTENDANCE:

Directors: Ronald Davis, Mark Emmerson, Paul Selsky, Jeff Nelson, and Ron Greenwood

Staff: Gaby Padilla, Aaron Ferguson

Public: Zero (0) Members of the Public

CALL TO ORDER: President Greenwood called the meeting to order at: **9:02 a.m.**

PUBLIC COMMENT:

1. **Public Comment**

No comments.

ANNOUNCED CLOSED SESSION AND ADJOURN OPEN SESSION TO CLOSED SESSION: 9:02 a.m.

CLOSED SESSION

2. **PUBLIC EMPLOYEE PERFORMANCE EVALUATION – INVOLVING THE GENERAL MANAGER (Government Code sections 54957 and 54957.6)**

ADJOURNED CLOSED SESSION AND OPENED REGULAR SESSION: 11:16 a.m.

REPORT OUT OF CLOSED SESSION: The Board gave direction to legal counsel.

ADJOURNMENT: President Greenwood adjourned the meeting at: **11:16 a.m.**

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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Finance Committee Meeting
Wednesday, July 30, 2025, 1:00 p.m.

Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608

MINUTES

The Carmichael Water District Finance Committee met this 30th day of July at 1:00 p.m.

ATTENDANCE:

Directors: Ronald Davis, Mark Emmerson
Staff: Cathy Lee, Debbie Martin
Guest: Mark Hildebrand, Hildebrand Consulting
Public: Zero (0) Members of the Public

CALL TO ORDER: Director Davis called the meeting to order at: **1:00 p.m.**

PUBLIC COMMENT

1. **Public Comment**
No comments.

PRESENTATION/INFORMATIONAL:

2. **Business Plan and Water Rate Study**
The Committee discussed the business plan and water rate study and provided direction to staff.

ADJOURNMENT: Director Davis adjourned the meeting at: **2:57 p.m.**

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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**Special Board Meeting
Thursday, August 7, 2025, 9:00 a.m.**

**Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608**

MINUTES

The Carmichael Water District Board of Directors met in Special Session this 7th day of August at 9:00 a.m.

ATTENDANCE:

Directors: Ronald Davis, Mark Emmerson, Paul Selsky, Jeff Nelson, and Ron Greenwood

Staff: Gaby Padilla, Aaron Ferguson

Public: Zero (0) Members of the Public

CALL TO ORDER: President Greenwood called the meeting to order at: **9:00 a.m.**

PUBLIC COMMENT:

1. Public Comment

No comments.

ANNOUNCED CLOSED SESSION AND ADJOURN OPEN SESSION TO CLOSED SESSION: 9:02 a.m.

CLOSED SESSION

2. PUBLIC EMPLOYEE PERFORMANCE EVALUATION – INVOLVING THE GENERAL MANAGER (Government Code sections 54957 and 54957.6)

ADJOURNED CLOSED SESSION AND OPENED REGULAR SESSION: 12:11 p.m.

REPORT OUT OF CLOSED SESSION: The Board gave direction to legal counsel.

ADJOURNMENT: President Greenwood adjourned the meeting at: **12:11 p.m.**

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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Special Board Meeting
Thursday, August 7, 2025, 4:00 p.m.

Carmichael Water District Board Room
7837 Fair Oaks Boulevard
Carmichael, CA 95608

MINUTES

The Carmichael Water District Board of Directors met in Special Session this 7th day of August at 4:00 p.m.

ATTENDANCE:

Directors: Ronald Davis, Mark Emmerson, Paul Selsky, Jeff Nelson, and Ron Greenwood

Staff: Cathy Lee, Aaron Ferguson

Guest: Trevor Joseph, Ali Taghavi

Public: One (1) Members of the Public

CALL TO ORDER: President Greenwood called the meeting to order at: **4:00 p.m.**

PUBLIC COMMENT:

1. **Public Comment**

No comments.

ACTION CALENDAR:

2. **Sacramento Regional Water Bank Update and Starting Balance**

Staff recommends that the Board of Directors discuss the item and provide direction or consider an action as appropriate.

Directors received a presentation from Mr. Trevor Joseph of Regional Water Authority, discussed the item with Mr. Joseph and Mr. Taghavi, and thanked them for his work.

ADJOURNMENT: President Greenwood adjourned the meeting at: **5:49 p.m.**

Ron Greenwood, Board President

Cathy Lee, Board Secretary

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CARMICHAEL WATER DISTRICT
MONTHLY EXPENDITURES REPORT
For the period June 1 to June 30, 2025

Check #	Check date	Payee	Description: "Division: Department - Object - detail data"	Amount
77199	6/13/2025	ACWA JPIA (Dental, vision, EAP)	All Depts: Benefits - Dental, vision, EAP - May, June	5,926.66
77200	6/13/2025	Amazon Capital Services Inc	Production: Administration - Office supplies	39.28
77201	6/13/2025	BSK Associates	Production: WTP Operations - Water quality	2,243.00
77202	6/13/2025	Cathy Lee	Admin svcs: HR - Training, certifications, travel, meetings	185.26
77203	6/13/2025	CHRISTY SATFIELD	Customer refund	149.56
77204	6/13/2025	Cisco Air Systems Inc	Production: WTP Ops - Systems maintenance	3,355.47
77205	6/13/2025	Comcast	Admin svcs: IT - Telecommunication	987.55
77206	6/13/2025	Core & Main LP	Inventory	1,686.29
77207	6/13/2025	Domenichelli and Associates Inc	Engineering: Professional services - Fire Flow	546.32
77208	6/13/2025	Dugan Management and Engineering Inc	CIP - Claremont MLRP	30,097.53
77209	6/13/2025	Employee Relations Inc	Admin svcs: HR - Exams and dcreening	206.20
77210	6/13/2025	GEI Consultants Inc	CIP - Ladera Well, Winding Way, Barret Rd Well, Dewey Well demolition	38,102.54
77211	6/13/2025	Grainger	Production: WTP Ops - Systems maintenance	131.45
77212	6/13/2025	Greg Norris	Admin svcs: HR - Training, certifications, travel, meetings	343.80
77213	6/13/2025	Home Depot	Admin svcs: General Admin - Office supplies	78.58
77214	6/13/2025	Hunt & Sons Inc	Distribution: Admin - Fuel	3,420.42
77215	6/13/2025	Jeff Nelson	Admin svcs: Board- Directors' travel and meetings	567.97
77216	6/13/2025	Keystone Structural Engineers	Admin svcs: General Admin - Facility Maint	1,395.00
77217	6/13/2025	Liebert Cassidy Whitmore	Admin svcs: HR - Personnel legal services	810.00
77218	6/13/2025	McCay Morgan	Admin svcs: General admin - Safety	157.10
77219	6/13/2025	Murphy Austin Adams Schoenfeld LLP	CIP - Ladera Well, Winding Way	95.00
77220	6/13/2025	O'Reilly Auto Parts	Production: Admin - Vehicle repairs and maintenance	38.77
77221	6/13/2025	Olin corp	Production: WTP Ops - Chemicals	14,919.05
77222	6/13/2025	Pace Supply Corp	Inventory	4,334.01
77223	6/13/2025	PG&E	Production: WTP Ops - Power	21.47
77224	6/13/2025	Quill.com	Admin svcs: Gen admin, Production: Admin - Office supplies	546.82
77225	6/13/2025	R&S Overhead Doors and Gates of Sacramento	Production: WTP Ops - Facility Maint, Admin svcs: General Admin - Facility Maint	4,573.02
77226	6/13/2025	Ron Greenwood	Admin svcs: Board- Directors' travel and meetings	121.83
77227	6/13/2025	Royal Electric Company	CIP - Garfield generator and electrical improvements	15,675.00
77228	6/13/2025	Sacramento County Utilities	Production: WTP Operations - Utilities	89.83
77229	6/13/2025	SMUD	Production: Well Ops and WTP Ops, Admin svcs: General admin - Facility expenses - Power	88,570.19
77230	6/13/2025	Somach Simmons & Dunn	Admin svcs: Office of the GM - Water management/rights	12,134.17
77231	6/13/2025	Theresa Magee	Admin: Public outreach and Water efficiency - Water efficiency program expenses - Turf replacement	2,000.00
77232	6/13/2025	Toppel Consulting Inc	CIP - La Vista tank and pump station	30,258.00
77233	6/13/2025	US Bank	See "Credit card expenses" below	
77234	6/13/2025	Water Systems Consulting Inc	CIP - Ladera Well, Winding Way	7,001.00
77235	6/20/2025	ACI formerly Official Payments Corp	Admin svcs: Finance: Customer Service - Payment processing fees - February	60.80
77236	6/20/2025	All Seasons North Roofing & Weatherproofing	Production: WTP Operations - Facility maintenance	3,571.00
77237	6/20/2025	Amazon Capital Services Inc	Admin svcs: General admin - Office supplies, Distribution: Admin: - Safety	109.38
77238	6/20/2025	Bay Alarm Company	Admin svcs: General admin - Facility expense	781.78
77239	6/20/2025	BHI Management Consulting	Admin svcs: GM - Studies/Contracts - Professional services for employee survey and strategic plan	1,863.00
77240	6/20/2025	Bryce Consulting	Admin svcs: GM - Studies/Contracts - Professional services for Salary survey	1,425.00
77241	6/20/2025	BSK Associates	Production: WTP Operations, Well Operations - Water quality	460.00
77242	6/20/2025	Buckmaster Office Solutions	Admin svcs: IT - Equipment repairs and maintenance	515.65

CARMICHAEL WATER DISTRICT
MONTHLY EXPENDITURES REPORT
For the period June 1 to June 30, 2025

Check #	Check date	Payee	Description: "Division: Department - Object - detail data"	Amount
77243	6/20/2025	CivicPlus LLC	Admin svcs: IT - Website Maintenance (FY 2025-26)	8,491.65
77244	6/20/2025	Clark Pest Control	Admin svcs: General admin, Production: WTP Ops - Facility expenses	309.00
77245	6/20/2025	Comcast	Production: WTP Operations - Telecommunication	684.31
77246	6/20/2025	Core & Main LP	Inventory	285.54
77247	6/20/2025	County of Sacramento - Encroachment	CIP - La Vista Tank and Pump Station, CIP - Fair Oaks MLRP, Distribution: Admin - Inspections	1,831.50
77248	6/20/2025	DataProse LLC	Admin svcs: Finance: Customer service - Billing expenses - May, Water Efficiency: Outreach	6,723.55
77249	6/20/2025	Domenichelli and Associates Inc	Engineering: Professional services - Fire Flow	1,775.54
77250	6/20/2025	Ferguson Waterworks	Inventory	15,984.71
77251	6/20/2025	Frisch Engineering Inc	CIP - Garfield generator and electrical improvements	4,860.70
77252	6/20/2025	GEI Consultants Inc	CIP - La Sierra Well	7,070.95
77253	6/20/2025	Grainger	Production: Admin - Supplies	379.46
77254	6/20/2025	Hunt Oil of California	Production: WTP Operations - Systems maintenance	1,454.30
77255	6/20/2025	Internal Revenue Service	Bond Arbitrage - Interest refund	290,594.19
77256	6/20/2025	Invoice Cloud Inc	Admin svcs: Finance: Customer service - Payment processing fees - May	2,606.60
77257	6/20/2025	Kennedy Jenks Consultants	CIP - La Vista Tank and pump station	5,171.40
77258	6/20/2025	Mark R Emmerson	Admin svcs: Board- Directors' travel and meetings	303.06
77259	6/20/2025	Network Design Associates Inc	Admin svcs: IT - Contract Services, Network monitoring	3,040.00
77260	6/20/2025	New Answnernet Inc	Admin svcs: IT - Telecommunications - Answering services	200.00
77261	6/20/2025	Pace Supply Corp	Inventory	11,095.90
77262	6/20/2025	Patron Trucking Inc	Distribution: Transmission and distribution - Road restoration expense	4,027.69
77263	6/20/2025	PG&E	Admin svcs: General admin - Facility expense	17.09
77264	6/20/2025	Placer Electric Inc	Production: Well Ops - Repairs and maintenance - Barret Rd Well	483.00
77265	6/20/2025	Quillcom	Admin svcs: General admin- Office supplies	189.74
77266	6/20/2025	Rawles Engineering Inc	CIP - Winding way well, Infrastructure replacement, Distribution: Transmission and distribution - Road res	61,430.98
77267	6/20/2025	Red Wing Business Advantage Account	Admin svcs: Admin - Safety	255.00
77268	6/20/2025	Security Contractor Services Inc	CIP - Winding Way Well	182.50
77269	6/20/2025	SMUD	Production: Well Ops - Power	24,353.36
77270	6/20/2025	Somach Simmons & Dunn	Admin svcs: GM - Water rights/management	5,196.62
77271	6/20/2025	State Water Resources Control Board	CIP - La Vista tank and pump station	673.00
77272	6/20/2025	SYLVIA BROWN LIVING TRUST	Customer refund	28.30
77273	6/20/2025	Ultra Truck Works Inc	CIP - Vehicle replacement	2,418.40
77274	6/20/2025	Valley Battery	Production: WTP Ops - Systems maintenance, Well Ops - Repairs and maintenance	1,273.19
77275	6/20/2025	Verizon Wireless	Admin svcs: Information technology - Telecommunications, Production: WTP Operations - Telecommunic:	685.38
77276	6/20/2025	Waste Management of Sacramento	Admin svcs: General admin, Production: WTP Ops - Facility expenses: Utilities	682.98
77277	6/20/2025	West Coast Energy Systems LLC	CIP - La Vista tank and pump station	1,198.00
77278	6/25/2025	Carmichael Elks Lodge	Admin svcs: Outreach - Outreach events- 4th of July Parade	250.00

EFT

35394	6/11/2025	CalPERS 457 Plan	457 Payment for the pay period 5/26/25 - 6/8/25	5,336.93
35395	6/16/2025	CalPERS (Pension contribution)	Pension Contribution (ER and EE) Pay period 5/12/25 - 5/25/25	19,647.42
35396	6/1/2025	CalPERS (Medical)	All Depts: Benefits - June Medical insurance premiums (Active and retiree)	72,426.63
35397	6/1/2025	Mutual of Omaha	All Depts: Benefits -June LTD and life insurance premiums	1,426.70
EFT	6/26/2025	CalPERS 457 Plan	457 Payment for the pay period 6/9/25 - 6/22/25	5,542.69
Wire transfer	6/6/2025	CalPERS CERBT OPEB Trust	OPEB Additional discretionary funding	200,000.00

CARMICHAEL WATER DISTRICT
MONTHLY EXPENDITURES REPORT
For the period June 1 to June 30, 2025

Check #	Check date	Payee	Description: "Division: Department - Object - detail data"	Amount
<u>Credit Card Expenses</u>				
77233	6/13/2025	US Bank		7640.44
		U.S. Saws, Inc.	Distribution: Admin - Tools	300.54
		Fluid Tech Hydraulics, Inc	Distribution: Admin - Equipment repair and maintenance	376.35
		Mouser Electronics	Production: WTP Ops - Systems maintenance	88.31
		Office of Water Programs	Production: Admin - Training and certification	211.25
		GovernmentJobs.com	Admin svcs: HR - Advertising - employment ads	199.00
		BC Water Jobs	Admin svcs: HR - Advertising - employment ads	200.00
		1-800 Flowers.com	Admin svcs: HR - Employee recognition	75.18
		United Airlines	Admin svcs: Board- Directors' travel and meetings	1,016.67
		ACWA	Admin svcs: Board- Directors' travel and meetings	(874.00)
		TMG Industrial	Capital assets - Field equipment	6,463.93
		21st Amendment Restaurant - Holiday Inn	Admin svcs: Board- Directors' travel and meetings	83.00
		Messenger Publishing Group	Admin svcs: Board - Advertising: Meeting/legal notices	162.00
		Booking.Com	Admin svcs: Board- Directors' travel and meetings (ACWA Spring Conf refund)	(682.78)
		Super Clean Car Wash	Production admin - Vehicle repairs and maintenance	20.99
Check register total				1,057,823.15
Payroll			Employee and Director pay, payroll taxes, payroll processing fees (Pay dates: 6/11/25, 6/25/25)	236,919.94
Total cash expenditures				1,294,743.09
*****INFORMATIONAL*****				
Bond expenditures to be reimbursed to the General Fund from the Bond Proceeds account				
77232	6/13/2025	Toppel Consulting Inc	CIP - La Vista Tank and Pump Station	30,258.00
77247	6/20/2025	County of Sacramento - Encroachment Perm	CIP - La Vista Tank and Pump Station	790.75
77257	6/20/2025	Kennedy Jenks Consultants	CIP - La Vista Tank and pump station	5,171.40
77271	6/20/2025	State Water Resources Control Board	CIP - La Vista Tank and Pump Station	673.00
77277	6/20/2025	West Coast Energy Systems LLC	CIP - La Vista Tank and Pump Station	1,198.00
Total Bond expenditures				38,091.15

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Topic: Proposed Water Rates and Assembly Bill 2257 Objections Process

Date: August 5, 2025

Item For: Action

Submitted By: Debbie Martin, CPA (Inactive), Finance Manager

Cathy Lee, General Manager

BACKGROUND

Carmichael Water District is proceeding with a rate study analysis and financial planning effort to determine revenue needs for the next ten years and set corresponding water rates for the next five years. An integral part of rate adoption is the California Constitution law, Proposition 218 Omnibus Implementation Act (Prop 218), that prescribes specific procedures and parameters governmental agencies must comply with to adopt new water rates. The law specifies the required process for public notice, public hearing, and public protest procedures for proposed rate increases.

Recently, in September 2024, California enacted Assembly Bill 2257 (AB 2257) that establishes “an exhaustion of administrative remedies” procedure intended to foster transparency, reduce litigation risks, and enhance trust between local agencies and their ratepayers. In practice, legal objections to water rates are often not known during the public process and typically occur only after a water rate is approved and only after customers have already been charged. This occurrence does not afford a water agency an opportunity to respond to objections and fix any errors prior to rate adoption. When invoked by local agencies, AB 2257 requires would-be litigants to raise their specific objections to the proposed rates or forfeit their right to challenge the rates at a later time.

SUMMARY/DISCUSSION

Proposed Water Rate Adjustments

The District’s water rate study consultant, Mark Hildebrand, of Hildebrand Consulting, LLC, conducted a very thorough and in-depth analysis of the District’s financials to provide insight and expertise in assisting the District with the ten-year financial plan and five-year rate plan. The analysis of the District’s financials included a review of operations and maintenance expenses, historical and 10-Year projected capital spending, historical rate history, reserve allocations and accumulations, and bond debt service.

Mr Hildebrand had conducted this same study five years ago with the same level of in-depth analysis and was able to apply that body of knowledge to this year’s rate study. In that last study, the District adopted the recommended 9.5% rate increases and is now sitting on a very solid financial foundation because of the adopted recommendations. With the adopted financial plan of 9.5% rate increases, reserves accumulated to target levels, capital infrastructure replacement spending progressed and increased as intended, additional discretionary funding to pay down long-term liabilities continued and reserves for large-scale infrastructure asset replacements accumulated. At a time when many governmental entities are struggling with their financial results or even planning for their future, Carmichael Water District can be considered to be “at the top of its game” financially. As an added bonus, the District is aggressively pursuing grant opportunities, with current awards approximating \$18 million, a substantial boon to the District’s rate payers who will not be assuming those expenditures in future rates. The District is also strategically considering other income opportunities to keep rate

increases as low as possible. With the District on such a solid footing, Hildebrand Consulting is suggesting minor 4% rate increases for each of the next five years to continue the successful financial pathway.

Mr Hildebrand, General Manager Cathy Lee, Finance Manager Debbie Martin, and the Finance Committee, Directors Mark Emmerson and Ron Davis met on July 30, 2025, to review the details of the financial analysis and rate plan. The Finance Committee agreed with the analysis and recommended presenting the preliminary rate and financial plan to the Full Board for further consideration and direction to Staff. Details for the development of the rate plan are included in the attached Power Point Presentation slides developed by Hildebrand Consulting.

Staff supports the rate recommendation, reserve policy and financial plan. This rate recommendation will allow the District to keep up with inflation, keep up with capital replacements and keep up with building reserves for debt avoidance in planning for the very costly and sorely needed Ranney Collectors Replacement (estimated to be \$30 million.) An analysis of the District's Capital Facility Fees is underway with presentation of the results to be presented in an upcoming Board meeting before final publication of the full business plan and rate study. The next step in the rate study process will be the decision to invoke AB 2257.

AB 2257 Objection Procedures

In order to invoke AB 2257, water agencies must create official procedures requiring objections to be submitted prior to adoption of rates. If an agency follows those procedures, only those individuals who timely filed an objection under those procedures can file a legal challenge. Any individual who does not comply with those procedures in filing an objection are prohibited under AB2257 from filing a legal challenge.

The official adopted required procedures to invoke AB 2257 include the following summarized items:

- Enhanced public notice and engagement
 - Agency must post on website and make available to the public a written basis for proposed fees at least 45 days before the deadline for objections
 - Notices must include clear instructions for submitting objections and clear notice that failure to object timely prohibits future legal challenges.
- Exhaustion of remedies notification
 - Ratepayers must submit written objections to proposed fees with a specific timeline (minimum of 45 days from notice)
 - Objections must detail the grounds for alleging noncompliance with Prop 218.
- Written response by the agency
 - Agency must respond in writing to objections before concluding public hearings and explain why proposed fees comply or whether adjustments are needed.
- Judicial review limitations
 - Legal challenges are restricted to the administrative record that includes rate studies, engineer's reports, agency staff reports and related documents, governing body transcripts, responses, public comments and objections, et al.

While Prop 218 is mandatory for a rate setting effort, AB 2257 is optional. The protections afforded under AB2257 only apply if AB2257's requirements and procedures are incorporated in the approval

process. The Association of California Water Agencies (ACWA) endorsed this legislation as a win for ACWA members. In the experience of our rate study consultant, Hildebrand Consulting, LLC, the law has been limited in use due to its very recent passage and only used primarily by larger cities/agencies who tend to experience frequent litigation with water rates. In contrast, Carmichael Water District is very well connected with its ratepayers and has not experienced large-scale litigation or objections for its rate adjustments, indicating a possible low risk of litigation.

Given the District's history of low rate objections and legal challenges during previous rate adjustment considerations, and given the relatively untested arena of the new law, Staff recommends the Board consider NOT adopting the optional AB2257 provisions for the upcoming rate adjustment process.

FISCAL IMPACT

Adoption of the additional provisions for AB2257 in concert with the upcoming Proposition 218 process will incur additional legal fees of an undetermined amount at this time to develop the official procedures. If warranted, additional legal fees of an undetermined amount could occur should legal assistance be required to provide responses to written objections during the public rate adoption process.

RECOMMENDATION

Staff recommends that the Board of Directors consider proceeding with the proposed rate adjustment without the AB 2257 provisions and direct staff to move forward accordingly.

ATTACHMENTS

1. 2025 Water Rate Study Presentation



2025 Water Rate Study

Findings

August 18, 2025



Agenda

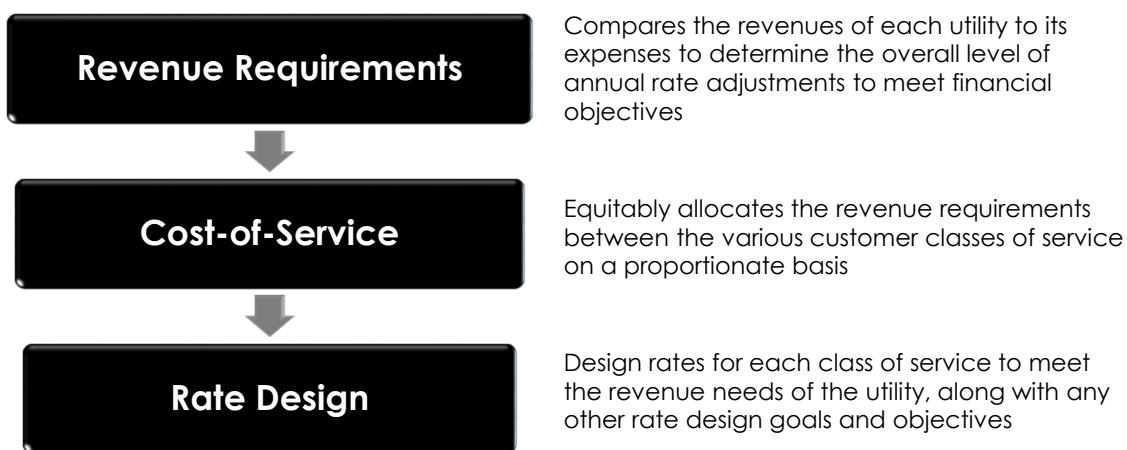
- 1. General utility rate setting**
- 2. Financial Plan**
- 3. Cost of Service & Rate Design**
- 4. Proposed Rates and Survey**
- 5. AB 2257**
- 6. Project Schedule**

Legal Requirements for Setting Water Rates In California

- Proposition 218 (Article XIIIID, Section 6 of California Constitution)
 - Revenues shall not exceed funds required to provide service; nor used for another purpose
 - Amount shall not exceed the proportional cost of the service attributable to the parcel
 - Service must be actually used or immediately available
 - Approval process includes 45-day notice, public hearing, and written majority protest. Does not require a voting process (unlike taxes).
- Many court decisions have clarified requirements

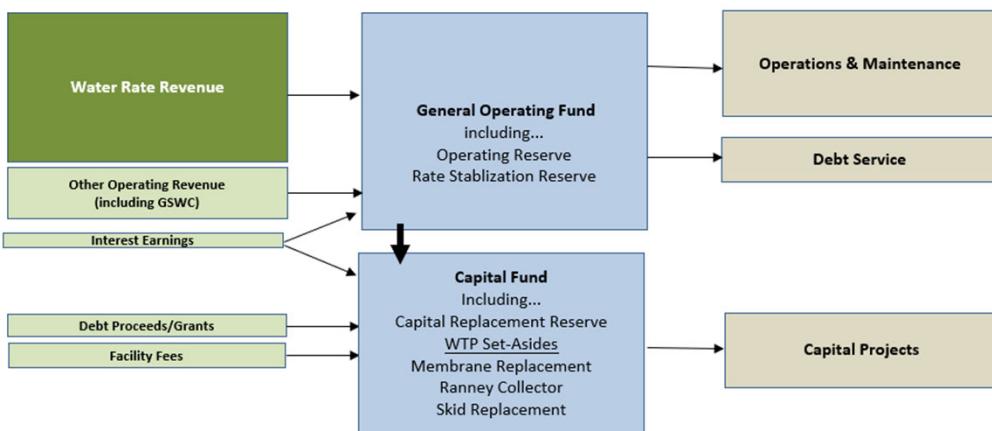
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The Rate Setting Process



4

Carmichael Cash Flow Diagram



5

Carmichael Water District Water Rate History

✓ Water metering

- 1998 – WRSC recommended aggressive metering
- 2013 – Metering completed. All customers on metered water rates in 2015

✓ Water rates

- 1999 – Initial metered rate structure
- 2015 – Tiered consumption rates implemented
- 2017 – Uniform consumption rates implemented

✓ 21-year rate increase history (5.9% average):

FY04/05	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	8%	5%	2%	2%	0%	4.3%	4%	3%	18%	0%	0%	12%	8.5%	5%	5%	5%	9.5%	9.5%	9.5%	9.5%

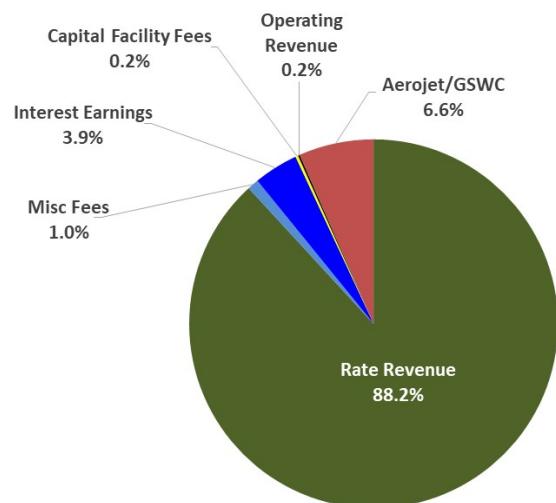
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Financial Plan

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Revenue FY2025/26 Budget

Rate Revenue	\$19,480,000*
Non-Rate Revenue**	
Misc Fees	\$219,000
Interest Earnings	\$862,000
Capital Facility Fees	\$51,000
Operating Revenue	\$34,000
Aerojet/GSWC	\$1,452,000
Total: \$22,098,000	



* Does not include proposed Jan 1, 2026 rate increases

** See next slide

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Historical Miscellaneous Revenue

Water Transfer Sales

2020: 845.9 ac-ft @ \$350..... \$292K (net, after admin process/consultant costs)

2022, 1522 ac-ft @ \$800..... \$1.2M (net, after admin process/consultant costs)

Total Water Transfer Sales Revenue... ~\$1.5M

Recent Grants

La Sierra – USBR..... \$2M

La Sierra – DWR..... \$4M

Winding Way – State..... \$2.5M

Ladera Way – EPA..... \$2.5M

Artesian..... \$6.8M

Garfield Pipeline – EPA.... \$972k (selected but not awarded/obligated yet)

Total Recent Grants: ~\$18.8M

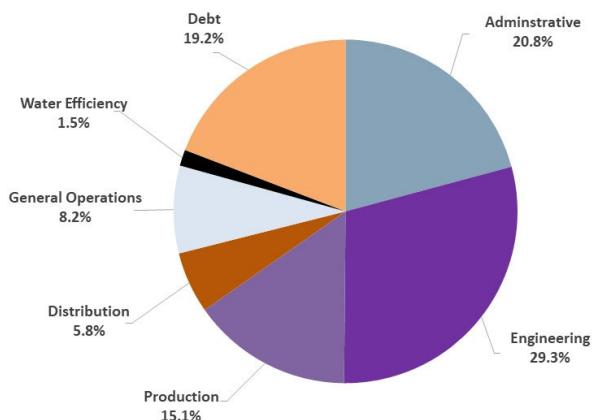
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Operating & Debt Service Expenses

FY2025/26 Budget

Administrative	\$2,704,000
Engineering	\$3,810,000
Production	\$1,967,000
Distribution	\$752,000
General Operations	\$1,071,000
Water Efficiency	\$197,000
Debt	\$2,492,000

Total Budget: \$12,993,000

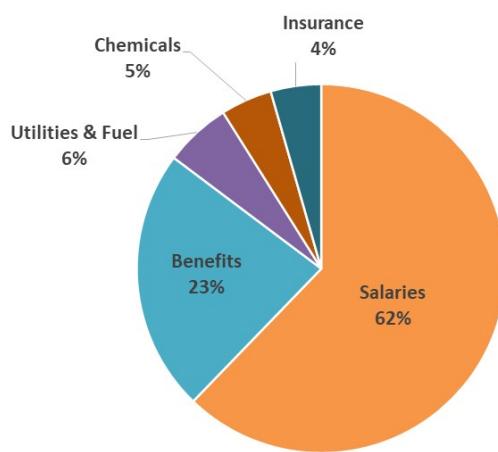


* Includes consideration of OPEB liabilities and PERS unfunded liabilities

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Inflation Assumptions

- Salaries and Benefits..... 5%, 3%, 3% on a three-year cycle
- Insurance..... 5%, 5% and then 4% thereafter
- Utilities and chemicals..... 4%
- All other costs..... 3%



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Existing Debt Obligations

- New Water Revenue Bond issued in 2019
 - Refunded pre-existing debt (original and current balance)
 - Provided \$16.5 million in new money for La Vista Tank project
- Annual debt service = approximately \$2.5 million through 2035
- Debt service coverage requirement = 1.20

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Other Key Assumptions

- Per capita water usage will remain steady
- Growth rate will be minimal (0.03%)
- Effective interest earning on reserves will be 2.3%

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Reserves

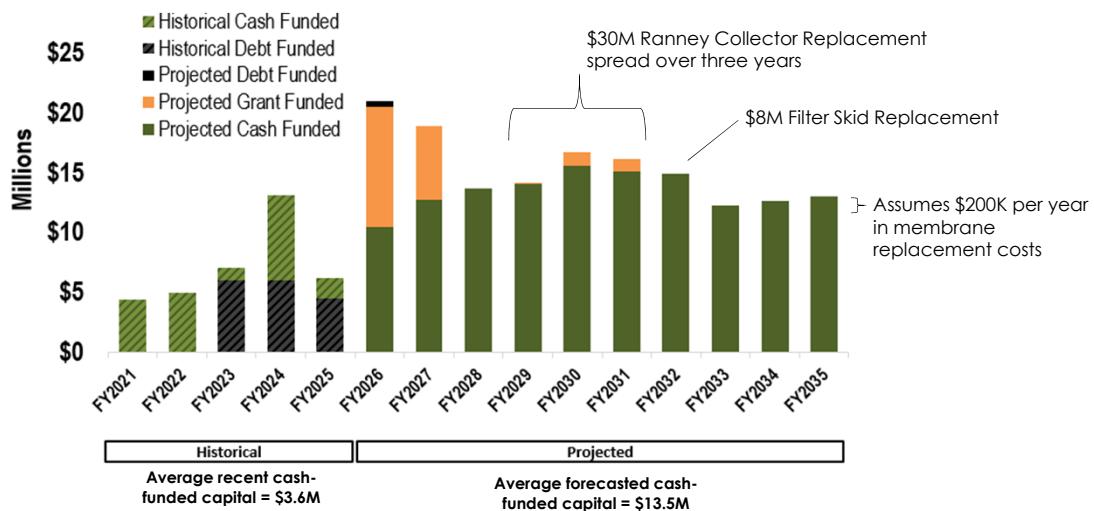
The following are established & proposed District reserve policies. In addition to protecting the District against unforeseen circumstances, these policies also contribute towards the District's credit rating.

Reserve*	Purpose and Policies	Target Level	FY2024 Level
MINIMUM RESERVES			
Operating Reserve	Purpose: Provides sufficient funds for working capital, cash flow, and funds for continued operation in the event of unplanned operating and maintenance expenditures. Minimum Reserve: 50% of budgeted O&M costs and debt service	\$5.1M	\$5.9M
TARGET RESERVES AND SET-ASIDES			
Rate Stabilization	Purpose: Provides a safeguard to ensure that District meets the debt service coverage requirements Policy: Target \$500K, surplus net revenues may be deposited into the Rate Stabilization Reserve Fund	\$500K	\$500K
Capital Replacement	Purpose: Supports District's ability to support "Pay As You Go" (cash) funding of capital program Proposed Target: 10-year average annual capital budget spending	\$9.7M	\$9.8M
Membrane Replacement	Purpose: Smooths the intermittent cost of replacing membranes Proposed Policy: Set aside \$200K annually	NA	\$83K
Ranney Collector	Purpose: Smooths the intermittent cost of replacing the Ranney Collector Proposed Policy: Set aside \$500K annually	NA	\$0K
Filter Skid Replacement	Purpose: Smooths the intermittent cost of replacing the Filter Skid Proposed Policy: Set aside \$650K annually, estimated cost will be \$8M (in current dollars)	NA	\$2.0M
OTHER RESERVES (includes general unrestricted funds, bond proceeds, grant proceeds, facility fee funds, etc.)			
General Fund	Purpose: Cash in excess of target reserves	NA	\$16.0M*
		Total:	\$15.3M
			\$34.3M

* Includes \$5.8M in bond proceeds and \$2.5M in advanced grant funding for specific capital projects.

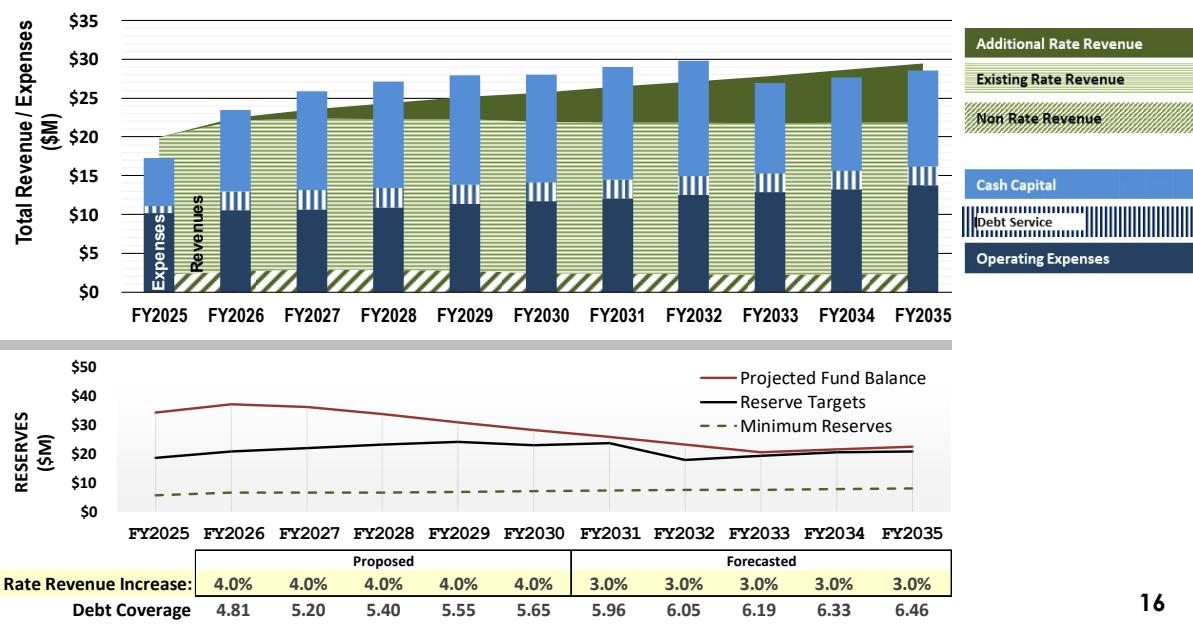
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Recent and Projected Capital Spending



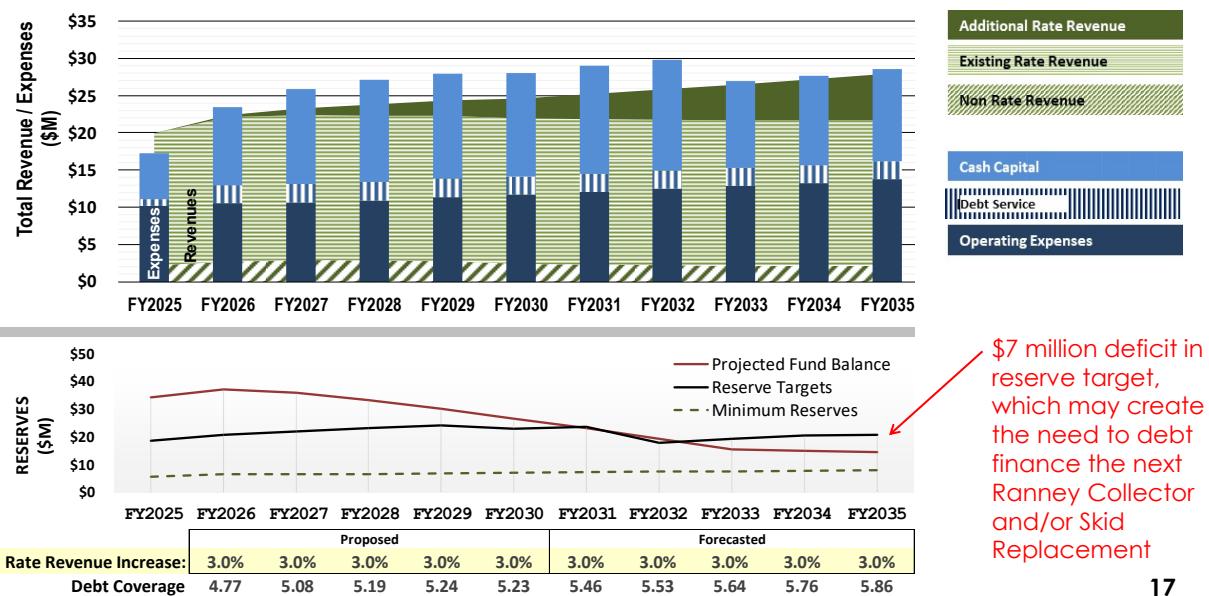
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Financial Forecast



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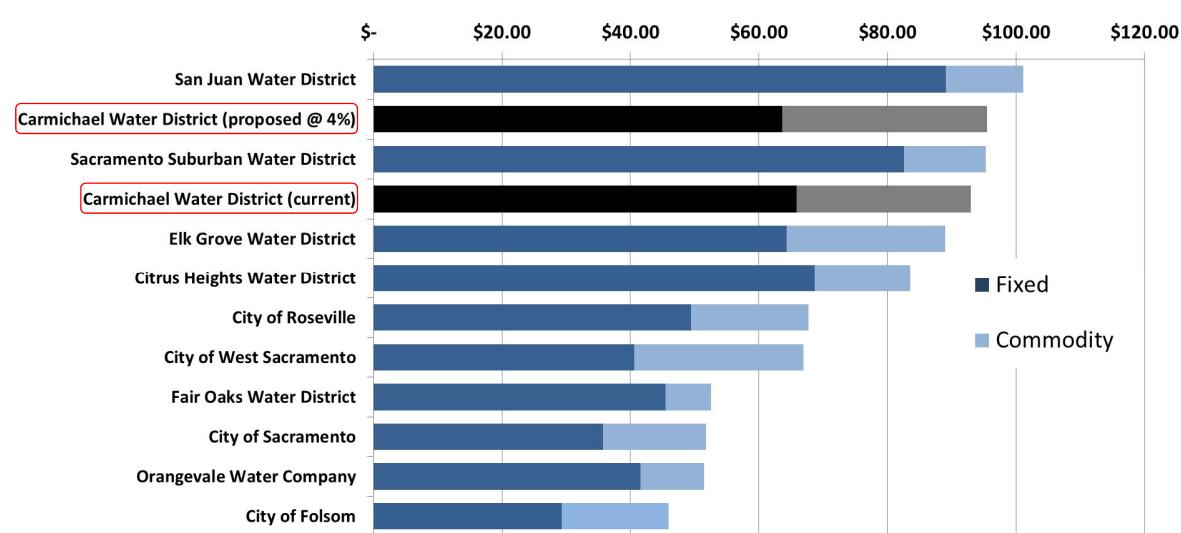
Financial Forecast Limit rate increases to 3%



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Survey of Rate at Regional Public Utilities

For single family homes with 1" meter and 11 HCF per month water usage



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Current Water Rates

Water Usage Rate: \$2.47 per HCF (748 gallons)

Monthly Service Charge:

3/4" meter	\$42.03
1" meter	\$65.83
1.5" meter	\$125.33
2" meter	\$196.73
3" meter	\$363.33
4" meter	\$601.33
6" meter	\$1,196.32
8" meter	\$1,910.32

43.7% of rate revenue

56.3% of rate revenue

Water Shortage Surcharge Rate applied in the event of a drought

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Cost of Service Analysis

		Customer Costs	Capacity Costs	Commodity Costs	Customer Costs	Capacity Costs	Commodity Costs
Administrative Services	\$2,055,500		50%	50%	\$0	\$1,027,750	\$1,027,750
Board Expenses	\$111,300	100%			\$111,300	\$0	\$0
Billing/Customer Service	\$537,700	100%			\$537,700	\$0	\$0
Water Efficiency	\$197,300			100%	\$0	\$0	\$197,300
Production	\$2,193,300		100%		\$0	\$2,193,300	\$0
Power/Chemicals	\$1,616,900			100%	\$0	\$0	\$1,616,900
Distribution	\$1,966,800		100%		\$0	\$1,966,800	\$0
General Operations	\$1,070,700		100%		\$0	\$1,070,700	\$0
Engineering	\$751,900		50%	50%	\$0	\$375,950	\$375,950
Debt Service	\$2,492,000		100%		\$0	\$2,492,000	\$0
Average PayGo Capital	\$12,350,300		50%	50%	\$0	\$6,175,150	\$6,175,150
Change in Fund Balance	-\$2,458,700		100%		\$0	-\$2,458,700	\$0
GSWC Revenue	-\$1,452,000		100%		\$0	-\$1,452,000	\$0
Other Revenue	-\$1,166,000		100%		\$0	-\$1,166,000	\$0
Total Revenue Requirement:	\$20,267,000				\$649,000	\$10,224,950	\$9,393,050
					Proposed:	Fixed	Variable
						53.7%	46.3%
					Current:	56.3%	43.7%

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Proposed Water Rates

	Current	Proposed @ 4% increases Proposed		Change
Water Usage Rates				
All Customer Types (per CCF)	\$2.47	\$2.90	per CCF	17.4%
Monthly Service Charge				
3/4" meter	\$42.03	\$39.03	per meter	-7.1%
1" meter	\$65.83	\$63.59	per meter	-3.4%
1 1/2" meter	\$125.33	\$125.00	per meter	-0.3%
2" meter	\$196.73	\$198.68	per meter	1.0%
3" meter	\$363.33	\$370.62	per meter	2.0%
4" meter	\$601.33	\$616.24	per meter	2.5%
6" meter	\$1,196.32	\$1,230.30	per meter	2.8%
8" meter *	\$1,910.32	\$1,967.17	per meter	3.0%
Condominium Living Units	\$42.03	\$39.03	per living unit	-7.1%
Multi-Family Living Units w/ Separate Meter	\$42.03	\$39.03	per living unit	-7.1%
Monthly Private Fire Service Charges	\$32.91	\$34.22	per inch of diam	4.0%

* Applies to Ancil Hoffman Golf Course

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Bill Impacts for monthly bills

% of accounts	Meter Size	Water Use (CCF)	Current Bill	Proposed Bill*	Change \$	Change %	% of accounts that use less
84%	Single Family						
	Low Use	1"	8	\$85.59	\$86.79	\$1.20	1.4%
	Median Use	1"	11	\$93.00	\$95.49	\$2.49	2.7%
	High Use	1"	42	\$169.57	\$185.39	\$15.82	9.3%
	Very High Use	1"	75	\$251.08	\$281.09	\$30.01	12.0%
11.4%	Condominium Unit	1"	8	\$61.79	\$62.23	\$0.45	0.7%
	Duplex	1"	17	\$126.04	\$127.36	\$1.32	1.0%
	Fourplex	1"	30	\$242.20	\$243.12	\$0.92	0.4%
	Apartment	1 1/2"	100	\$372.33	\$415.00	\$42.67	11.5%
	Apartment	2"	150	\$495.83	\$560.00	\$64.17	12.9%
	Apartment	4"	400	\$1,113.33	\$1,285.00	\$171.67	15.4%
4.5%	Retail Business	1"	17	\$107.82	\$112.89	\$5.07	4.7%
	Retail Business	2"	100	\$443.73	\$488.68	\$44.95	10.1%
	School	4"	250	\$1,218.83	\$1,341.24	\$122.42	10.0%
	Institutional (multiple)**	250		\$1,076.79	\$1,185.95	\$109.16	10.1%
	Irrigation	2"	200	\$690.73	\$778.68	\$87.95	12.7%

* For Year 1 @ 4% rate revenue increases

** Assumes two 2" meters and one 1" meter

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Water Shortage Contingency Plan (circa 2021)

	Normal Supply (1)	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
Use Reduction Goals -->	None	0% to 10%	10% to 20%	20% to 30%	30% to 40%	40% to 50%	> 50%
Assumed Actual Water Use Reduction -->	5%	15%	25%	35%	45%	55%	
Water Shortage Charge (2) -->	0%	5%	15%	20%	25%	30%	
Est. Financial Impact from Water Shortage							
Reduced Water Sales Revenue	\$ (262,000)	\$ (785,000)	\$ (1,308,000)	\$ (1,831,000)	\$ (2,354,000)	\$ (2,878,000)	
Reduced Power and Chemical Costs	\$ 10,000	\$ 30,000	\$ 50,000	\$ 71,000	\$ 91,000	\$ 111,000	
Increased Conservation Program Costs	\$ (9,000)	\$ (28,000)	\$ (47,000)	\$ (66,000)	\$ (85,000)	\$ (104,000)	
Increased Water Purchase Costs	\$ -	\$ -	\$ (2,450,000)	\$ (2,425,500)	\$ (2,940,000)	\$ (3,185,000)	
Est. Total Financial Deficit	\$ -	\$ (261,000)	\$ (783,000)	\$ (3,755,000)	\$ (4,251,500)	\$ (5,288,000)	\$ (6,056,000)
Multi-Pronged Corrective Strategy							
Reduction in Capital Spending	\$ -	\$ 339,000	\$ 2,938,000	\$ 3,333,500	\$ 4,294,000	\$ 5,085,000	
Increase in Revenue from Surcharges (2)	\$ -	\$ 222,000	\$ 589,000	\$ 680,000	\$ 720,000	\$ 706,000	
Total Corrective Actions	\$ -	\$ -	\$ 561,000	\$ 3,527,000	\$ 4,013,500	\$ 5,014,000	\$ 5,791,000
Surplus/(Deficit) Due to Shortage (3)	\$ -	\$ (261,000)	\$ (222,000)	\$ (228,000)	\$ (238,000)	\$ (274,000)	\$ (265,000)

Notes:

(1) The FY 20-21 budget and related revenue and expense estimates were assumed to be a normal water supply year.

(2) Water shortage charges would apply only to the water usage rate

(3) To be absorbed by District reserves

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AB 2257

- Enacted in September 2024
- Establishes formal objection procedure for ratepayers to raise concerns about potential increases
- Designed to address disputes during public participation period
- Creates an exhaustion of administrative remedies procedure
- Requires ratepayers to bring objection prior to the deadline established as part of the rate setting process
- Enhances ratepayer engagement and permits agency to resolve factual issues

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Implementing AB 2257

- Adopt procedure for establishing "Exhaustion of Administrative Remedies"
- Procedures would be noticed on District's website and in Prop 218 Notice (minimum 45 days)
- Receive "Written Objections"
 - Objections are eligible until the close of the specified deadline (prior to Public Hearing)
- District would prepare written responses to Objections
- Hold Public Hearing
- Vote to adopt rates (if majority protest does not exist)

Project Schedule

	<u>Without AB 2257</u>	<u>With AB 2257</u>
✓ Subcommittee Meeting	July 30 th	July 30 th
✓ Preliminary Recommendation	August 18 th	August 18 th
AB 2257 Objection Procedure	NA	September 15 th
Final Recommendation	August 18 th	September 15 th
Mail Prop 218 and 2257 Notices	Early September	Late September
Objection Deadline	NA	Mid-November
Public Hearing	November 17 th	December 15 th
Rate Increase	January 1 st , 2026	January 1 st , 2026

Topic: Cross Connection Control Program and Regulation Adoption

Date: August 6, 2025

Item For: Action

Submitted By: David Biagi, Production Superintendent

BACKGROUND

At the June regular board meeting, Staff presented the newly drafted Cross-Connection Control Program (CCCP) and Resolution 06162025-01 - A Resolution of the Carmichael Water District Adopting and Implementing the Carmichael Water District Cross-Connection Control Program.

On June 18, 2025, CWD transmitted the CCCP to the State Water Resources Control Board, Division of Drinking Water (DDW) for review. The CCCP was submitted in accordance with Section 3.1.4, Article 1, Chapter 3 of the Cross-Connection Control Policy Handbook.

SUMMARY/DISCUSSION

The CCCP was submitted to DDW and reviewed by Jonathan Sorunke, P.E., at DDW. Mr. Sorunke's comments are attached for reference in, Attachment 1. DDW requires the District to submit an updated CCCP by August 29, 2025.

Production staff have addressed the DDW comments and updated the CCCP for review, Attachment 2.

The update to the CCCP necessitates a change to the District's regulations, as outlined in Attachment X. The new resolution includes the following provisions to accommodate operational needs in implementing the CCCP as listed below:

- Incorporation of the CCCPH and District's Cross Connection Control Plan.
- Requirements for Backflow Prevention Assemblies
- Right to Enter Customer's Property
- Enforcement

FISCAL IMPACT

None.

RECOMMENDATION

Staff recommends that the Board of Directors approve Resolution 08182025-01 - A Resolution of the Carmichael Water District Adopting and Implementing the Carmichael Water District Cross-Connection Control Regulation.

ATTACHMENT(S)

Attachment 1 – DDW- CA3410004-CCCP Review Letter & Memo

Attachment 2 – Revised CCCP

Attachment 3 – Resolution and regulation



State Water Resources Control Board Division of Drinking Water

July 7, 2025

PWS No. 3410004

Cathy Lee
General Manager
Carmichael Water District
7837 Fair Oaks Blvd.
Carmichael, CA 95609

CARMICHAEL WATER DISTRICT PUBLIC WATER SYSTEM (PWS NO. 3410004) CROSS-CONNECTION CONTROL PLAN REVIEW

On June 18, 2025, the State Water Resources Control Board, Division of Drinking Water (Division), received an email from the Carmichael Water District regarding the Cross-Connection Control Plan (CCCP) for the Carmichael Water District public water system (PWS No. 3410004).

The CCCP was submitted in accordance with Section 3.1.4, Article 1, Chapter 3 of the Cross-Connection Control Policy Handbook.

The CCCP has been reviewed by Jonathan Sorunke, P.E., at this office. Jonathan Sorunke's comments are attached for your review and action. Please resubmit the CCCP by **August 29, 2025**, for Division review and comments.

A public water system (PWS) must ensure its CCCP is, at all times, representative of the current operation of its Cross-Connection Control program. The PWS must make its CCCP available to the Division for review upon request. If a PWS makes a substantive revision to its CCCP, the PWS must submit the revised CCCP to the Division for review.

If you have any questions, or if we can be of any assistance, please do not hesitate to contact Jonathan Sorunke at: jonathan.sorunke@waterboards.ca.gov or by telephone at (916) 341-5137.

Sincerely,

A handwritten signature in blue ink, appearing to read "Austin Peterson".

Austin Peterson, P.E.
Sacramento District Engineer
Division of Drinking Water
STATE WATER RESOURCES CONTROL BOARD

Enclosure: CCCP Review Memorandum

cc. Jonathan Sorunke, P.E. – Water Resource Control Engineer, DDW, SWRCB

E. JOAQUIN ESQUIVEL, CHAIR | ERIC OPPENHEIMER, EXECUTIVE DIRECTOR



GAVIN NEWSOM
GOVERNOR



YANA GARCIA
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board Division of Drinking Water

TO: Austin Peterson, P.E.
Sacramento District Engineer
SACRAMENTO DISTRICT OFFICE
DIVISION OF DRINKING WATER

FROM: Jonathan Sorunke, P.E.
Water Resource Control Engineer
SACRAMENTO DISTRICT OFFICE
DIVISION OF DRINKING WATER

DATE: June 30, 2025

SUBJECT: **CARMICHAEL WATER DISTRICT PUBLIC WATER SYSTEM (PWS NO. 3410004) – CROSS-CONNECTION CONTROL PLAN**

On June 18, 2025, the State Water Resources Control Board, Division of Drinking Water (Division) received an email from the Carmichael Water District (Water System, PWS No. 3410004) with a copy of its Cross-Connection Control Plan (CCCP). The Division has reviewed the plan and has provided comments on the plan below.

Sections 116407 & 116555.5, Article 3, Chapter 4 Division 104 of the California Health and Safety Code (CH&SC) states that:

“§116407. (c) (1) Upon the effective date of a policy handbook adopted by the state board pursuant to subdivision (b), the regulations set forth in Article 1 (commencing with Section 7583) and Article 2 (commencing with Section 7601) of Group 4 of Subchapter 1 of Chapter 5 of Division 1 of Title 17 of the California Code of Regulations shall become inoperative, and, 90 days thereafter, are repealed, unless the state board makes a determination not to repeal a specific regulation.

§116555.5. A public water system shall implement a cross-connection control program that complies with applicable regulations and with standards adopted by the board pursuant to Section 116407.”

Section 3.1.4 (b) of the Cross-Connection Control Policy Handbook (CCCPH) states:

E. JOAQUIN ESQUIVEL, CHAIR | ERIC OPPENHEIMER, EXECUTIVE DIRECTOR

P.O. Box 997377, MS 7400, Sacramento, CA 95899-7377 | www.waterboards.ca.gov

“(b) The Cross-Connection Control Plan for a community water system must include, at a minimum, the following cross-connection control program procedures and documentation:...”

Upon review of the Water System's CCCP, the Division has the following comments:

1. In the CCCP, there is no mention of how the Water System has legal authority to execute their CCC program and implement corrective actions. The Water System should make mention of this in the CCCP as well as include a copy of the relevant documentation per Sections 3.1.3(a)(1) and 3.1.4(b)(3) of the CCCPH.
2. Per Section 3.1.4(b)(8) of the CCCPH, the CCCP does not designate at least one individual that is either a permanent or contracted employee of the Water System that will act as the cross-connection control coordinator. Given the Water System has over 3,000 service connections, this individual is required to be a cross-connection control specialist. Please include the persons' name and contact information in the CCCP.
3. The CCCP does not mention how the Water System plans to conduct initial or follow-up hazard assessments. Please document the Water System's initial and follow-up hazard assessment plans in accordance to Sections 3.1.4(b)(2)(4)(5) of the CCCPH.
4. Please include the air gap backflow protection standards stated in Section 3.3.1 of the CCCPH.
5. Please revise the sentence “All installations of backflow prevention assemblies shall be done in accordance with CWD Construction improvement standards amended January 2010 (Resolution 01212003-2)” to include CCCPH Section 3.3.2.
6. Please revise the testing section of the CCCP to include the requirements mentioned in Section 3.3.3 of the CCCPH.
7. Please replace references to the ‘California Code of Regulations’ with the ‘CCCPH’.
8. Please revise the ‘Maintenance of Records’ Section of the CCCP to include the items mentioned in Sections 3.4.1(b)(9) and 3.5.1 of the CCCPH.
9. Per Section 3.1.4(b)(13) of the CCCPH, the CCCP does not make mention of how the Water System will coordinate with local entities to implement their CCCP. The Water System should include this in their CCCP.

Carmichael Water District
Cross-Connection Control Plan
(Draft – Updated 8/18/2025)

1. Authority and Purpose

The purpose of this document is to describe the Cross-Connection Control Plan (**CCCP**) implemented by Carmichael Water District (**CWD**) to protect the public water supply against actual or potential contamination through Cross-Connections and Backflow. In compliance with the Cross-Connection Control Policy Handbook (CCCPH) established by the California State Water Resources Control Board (SWRCB) and the Environmental Protection Agency (EPA), the Safe Drinking Water Act, and Uniform Plumbing Code (UPC) – relating to Cross-Connection; it is the intent of CWD to adopt standards that encompass the surveying of existing Premises for potential or actual Cross-Connection hazards to determine the requirement for hazard protection and level of protection required for a Service Connection. This would include review and approval of proposed plans for new construction installation, and maintenance or repair of Backflow Prevention Assemblies.

The CWD was formed and is operating under the Irrigation District Law (Water Code sections 20500 et seq.). Pursuant to the Irrigation District Law, CWD has the authority and obligation to implement and enforce the CCCPH through this CCCP and its Cross-Connection Control Regulation.

2. Definitions

The following definitions describe those terms and phrases that are relevant to the range of elements of the CCCP.

2.01 Air Gap Separation (AG): A physical vertical separation between the free-flowing discharge end of a potable water supply pipeline and an open or non-pressurized receiving vessel. An approved AG is defined as the vertical height of the open discharge end of a pipe above the overflow rim of a non-pressurized receiving vessel, being two times the diameter of the end of the discharge pipe, no less than one inch.

2.02 Approved Backflow Prevention Assembly: Any assembly approved through laboratory and field evaluation tests performed by the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California, or an entity with equivalent testing requirements approved by the Department of Public Health (DPH).

2.03 Approved Water Supply: A water supply whose potability is regulated by a State or local Health Agency.

2.04 Auxiliary Water Supply: Any supply on or available to the Premises other than that supplied by CWD. These Auxiliary Water Supplies may include, but are not limited to, water from another utility's potable water system or from any source such as a well, spring, river, pond, lake, reservoir stream or any other body of water.

2.05 AWWA Standard: An official standard developed and approved by the American Water Works Association (AWWA)

2.06 Backflow: A flow condition caused by a differential in pressure that causes the flow of water or other liquid, gases, mixtures or substances to flow in a direction reverse of intended, allowing non-potable water to flow into a potable water source and thus into the distributing pipes of CWD. Back pressure and back siphonage are causes of Backflow.

2.07 Backflow Prevention Assembly (BPA): A mechanical assembly designed and constructed to prevent Backflow, such that while in-line it can be maintained and its ability to prevent Backflow, as designed, can be field tested, inspected and evaluated.

2.08 Backflow Prevention Assembly Tester: A person who is currently certified by an authority recognized by DPH and is approved and recognized by CWD to test, repair, and maintain BPAs.

2.09 Cross-Connection: Any actual or potential unprotected connection or structural arrangement between a public water system, including a piping system connected to the Public Water System and located on the Premises of a water user or available to the water user, and any source or distribution system containing liquid, gas, or other substances not from an Approved Water Supply.

2.10 Customer: The person/entity accepting financial responsibility for water service from CWD. This would be inclusive of permanent Service Connections as well as temporary connections via portable meter/BPAs that are either provided by or approved for use by CWD.

2.11 Double Check Valve (DC): An assembly of at least two independently acting check valves, including tightly closing shut-off valves on each side of the check valve assembly, and test cocks available for testing the water tightness of each valve.

2.12 Health Agency: The California Department of Public Health or the local health officer with respect to small water systems.

2.13 Premises: The property under the ownership or control of the water user and served, or capable of being served, with water via a Service Connection with the Public Water System.

2.14 Public water system (PWS): A system for the provision of water for human consumption through pipes or other constructed conveyances that has 15 or more Service Connections or regularly serves at least 25 individuals daily at least 60 days out of the year, as further defined in the California Health and Safety Code section 116275(h).

2.15 Reduced Pressure Principle Backflow Prevention Device (RP): A backflow preventer incorporating not less than two check valves, an automatically operated relief valve located between the two check valves, a tightly closing shut-off valve on each side

of the check valve assembly, and equipped with necessary test cocks for testing.

2.16 Service Connection: The terminal end of a connection from the PWS where CWD loses jurisdiction and sanitary control over the water at its point of delivery to the Customer's water system. If a meter is installed at the end of the Service Connection, then the Service Connection shall mean the down-stream end of the meter.

2.17 Thermal Expansion: Change in dimension of a material resulting from a change in temperature.

2.18 Water Supplier or Purveyor: Carmichael Water District

3. Responsibility

Under the CCCPH, the Water Supplier shall have the primary responsibility to prevent water from unapproved sources or any other substances, from entering the PWS. CWD will ensure adequate Backflow prevention protection is maintained at the Customer's Service Connection to the District's drinking water distribution system.

The Customer will have the primary responsibility of preventing contaminants and pollutants from their Premises from entering the District's water system as required by this plan, and the California Department of Public Health, in compliance with the CCCPH.

CWD will not be responsible for any loss or damage directly or indirectly resulting from or caused by any improper or negligent: installation, operation, use, repair or maintenance of (or interfering with the function or operation of) any approved BPA required by this CCCP, by any Customer or any other person.

The Customer must be aware that the installation of a BPA may result in a potential closed plumbing system within the Premises. As such, provisions may have to be made by the Customer to provide for Thermal Expansion within their system, i.e., the installation of Thermal Expansion devices and/or pressure relief valves.

BPAs shall be installed and maintained by the Customer, at the Customer's expense and in compliance with the **standards** ([link to construction standards](#)) and specifications adopted by CWD ([and Section 3.3.2. of the CCCPH](#)). The Customer is responsible for notifying CWD prior to any installation, repair, relocation or replacement to ensure installation of or changes to a BPA meet the requirements of this policy. The Customer will be responsible for ensuring adequate flow rate and line pressure, after the Service Connection at the water meter, for proper function of any fire systems installed on or existing on their Premises. CWD does not install, test, flush or maintain fire protection systems. Any upgrades (including booster pumps) due to decreases in line pressure attributed to the upgrading of existing BPAs or the installation of approved BPAs to meet the requirements of this policy will be at the Customer's expense.

The Customer shall bear all cost for the installation of any approved AGs or approved BPA required in accordance with this CCCP. Any AG and approved BPAs shall be kept in good working order, accessible for testing (being clear of vegetation overgrowth and debris) and in

safe condition. Upon notification by CWD, the Customer shall repair or replace existing assemblies determined to be unapproved, defective or not providing the level of protection specified by the District. The Customer shall ensure the necessary plumbing permits are obtained.

4. Level of Protection and Site Surveys

The type of protection that will be provided to prevent Backflow into the District's water system shall be equal to the degree of hazard that exists on the Customer's Premises. The degree of hazard and thus the Backflow prevention method shall be determined by CWD. At the discretion of CWD, a site survey may be performed. A request will be made in writing for a date and time to be agreed upon for a site survey. Should the request for a site survey be denied or inadequate access prevent the inspection of the plumbing system, letters shall be sent directing the installation of the appropriate BPA based on the knowledge of the specific property.

All factors found and recorded during a site survey shall be considered in the determination of Backflow prevention requirements.

All existing BPAs will be surveyed by certified District staff within 24 months of the adoption of the CCCP. Surveys will be conducted during the annual test cycle.

A comprehensive inventory of all Service Connections and associated risk categories will be developed.

Risk Level	Examples
High	Medical facilities, chemical plants, and large irrigation systems
Moderate	Commercial buildings, apartment complexes
Low	Residential homes

The survey schedule will be based on risk level:

Risk Category	Survey Frequency
High Risk	Every 2-3 years
Moderate Risk	Every 5 years
Low Risk	Every 10 years

GIS and Customer data are used to develop a rotating survey schedule by pressure zone.

Year	Zone	Risk Focus
2025-26	Zone 1, 2, & 3	High
2027	Zone 1 & 3	Moderate
2028	Zone 2	Moderate
2029	Zone 1 & 3	Low
2030	Zone 2	Low

Each Customer requiring a BPA shall be notified by letter. The Customer shall be notified of their responsibility to provide Backflow protection and the type of assembly required. As a

minimum, a Customer requiring service protection shall install a RP **or an approved AG**. At the discretion of CWD, an alternative to the district standard BPA requirement may be allowable, dependent upon the degree of hazard determined during a site survey and in accordance with the CCCPH.

Site surveys may be triggered when a user's Premises changes account holder (excluding single family residences), a new user's Premises is connected, evidence exists of changes in activities or materials on a user's Premises, or Backflow from a user's Premises occurs, or periodically, as identified in CCCPH section 3.2.1(e).

Should it be determined that the Customer does not require a BPA, they shall be notified by letter. CWD will reserve the right to re-inspect the property at any time to ensure that the plumbing or water use has not changed.

5. New Construction

On new installation, the District will provide on-site evaluation and/or inspection of plans during plan check and review in order to determine the level of protection that will be required. As a minimum, all new construction will install an approved RP. At the discretion of CWD, an alternative to the district standard BPA requirement may be allowable, dependent upon the degree of hazard determined during a site survey and in accordance with the CCCPH. The Customer or developer shall remain responsible for design, construction, testing and approval of any site-specific fire suppression system or approach as required by the local fire jurisdiction.

6. Installation

A BPA shall be installed on each Service Connection to a Customer's water system at or near the property line or on private property immediately following the meter; but in all cases, before the first branch line leading off the Service Connection. Each AG used shall meet the requirements in Table 1, Minimum Air Gaps for Generally used Plumbing Fixtures, page 4 of the American Society of Mechanical Engineers (ASME) A112.1.2- 2012(R2017) in accordance with CCCPH section 3.3.1. All installations of BPAs shall be done in accordance with CWD Construction Improvement Standards amended January 2010 (Resolution 01212003-2) and CCCPH section 3.3.2. All BPA installations shall be inspected by a qualified employee from CWD. No person shall modify, bypass or remove a BPA without the approval of CWD. If a Customer fails to install a BPA to meet the requirements of this plan, CWD may deny or discontinue water service or the installation, inspection, field testing, and/or maintenance of a BPA. CWD may also impose fees for these corrective measures consistent with CWD's Fee Schedule, including any amendments thereto.

7. Existing Backflow Prevention Assemblies

Existing BPAs shall be allowed by the District to continue in service unless the degree of hazard is such as to supersede the effectiveness of the present assembly, the assembly continues to fail annual testing, or the device is found to be unapproved. As a minimum, all replacement assemblies will be an approved RP. At the discretion of CWD, an alternative to the District standard BPA requirement may be allowable, dependent upon the degree of hazard determined during a site survey and in accordance with the CCCPH.

8. Fire Sprinkler Systems

8.01 Commercial Fire Protection: Commercial fire sprinkler systems currently protected with a minimum of a single DC will be required to have a BPA, commensurate with the degree of hazard, installed to meet the requirements of this plan within 10 years of the effective date of the CCCPH (July 1, 2025). Any new commercial fire sprinkler system or unprotected system shall install a BPA that ensures a level of protection commensurate with the degree of hazard. In the case of fire protection or sprinkler systems, the degree of hazard is based upon the class rating a fire protection or sprinkler system is categorized under.

8.02 Residential Fire Protection: Residential fire sprinkler systems currently protected with a minimum of a DC will be allowed to continue in service until such system is modified, updated or the valve is found to be defective. Any new residential fire sprinkler system or unprotected system shall as a minimum be protected by an RP. At the discretion of CWD, an alternative to the standard BPA requirement may be allowable, dependent upon the degree of hazard determined during a site survey and in accordance with the CCCPH. The Customer or developer shall remain responsible for design, construction, testing and approval of any site-specific fire suppression system or approach as required by the local fire jurisdiction.

9. Testing

CWD shall set test compliance dates. All approved BPAs must be tested immediately after installation and must pass field tests before delivering continuous service to a Customer. These assemblies shall also be tested after repairs, depressurization for winterizing, or permanent relocation, and **annually** thereafter to ensure proper operation. In instances where a high hazard exists, testing may be required at more frequent intervals. AGs must be visually inspected at least annually. Test procedures shall be those currently recommended by the University of Southern California Foundation for Cross-Connection Control or the AWWA.

Annual testing shall be performed by CWD staff who are AWWA certified Backflow Prevention Assembly Testers and/or Cross-Connection Control Specialists, or other certified testers, only as approved by the District. The testing will be done at the Customer's expense.

Testing shall be conducted during the District's regular business hours. Exceptions will be considered on a case-by-case basis.

Any BPA that fails the annual test will be required to be repaired or replaced at the Customer's expense within 30 days. CWD does not repair or replace BPAs. The Customer will be responsible for selecting a contractor for repair or replacement. Once repaired or replaced the District will provide one re-test at no additional charge to the Customer. If the device fails the retest, the Customer will be charged for any additional testing.

High-hazard situations will not be allowed to continue unprotected if the BPA fails the test and cannot be repaired immediately. Service will be terminated until repairs are made and a re-test has been performed by CWD. The Customer will be responsible for scheduling a retest with the District.

Backflow Prevention Assembly Testers must notify the District as soon as possible, within 24 hours, if a Backflow incident or an unprotected Cross-Connection is observed at the BPA or prior to the Customer's Premises during field testing. The District will immediately conduct an investigation and discontinue service to the user's Premises if a Backflow incident is confirmed, and water service must not be restored to that user's Premises until the District receives a confirmation of a passing BPA field test from a Backflow Prevention Assembly Tester.

10. Compliance and Termination

When it is determined that a Customer is required to install an approved BPA, the owner shall be given 60 calendar days to comply.

When it is determined that a BPA has failed the annual test, the Customer will be given 30 days to repair or replace the assembly. The Customer is responsible for all necessary repairs, including replacement of the assembly, which will return the assembly to proper operating condition. The District may require the immediate repair or replacement of an assembly dependent upon the degree of hazard. No extensions will be given.

If the compliance date has passed, the District will deliver a 48-hour notice of termination of service to the property. The service will remain terminated until corrective action has been taken. Once a proper BPA has been installed, the Customer must contact CWD to schedule a re-test.

In addition to any other remedy provided by the CPPPH or by law, if a Customer fails to comply with any provision of this Section within the timeframe specified by the District at the time of notification, then the District may discontinue water service, in accordance with CWD Regulation 4060.60, to Customer's Premises until the Customer fully complies with this Section to the satisfaction of the District.

11. Maintenance of Records

The District will use Tokay software for the administration of the CCCP. Standardized forms for surveys, testing, and Customer notification are located within this software. The District's GIS program will be utilized for location and assembly information.

CWD will maintain the records of the two most recent hazard assessments and the most current Cross-Connection tests. For each BPA, records for the associated hazard or application, location, owner, type, manufacturer and model, size, installation date, and serial number will be kept. For each AG installation, records of the associated hazard or application and the location, owner, and as-built plans of the AG will be kept. These records will be kept both electronically and in hard copy form. Assembly records shall be kept for the life of the assembly.

The District shall keep and maintain written records of locations of Auxiliary Water Supplies and BPAs, BPA installation and repair records, AG and swivel-ell locations, survey, testing, and inspection reports. This includes the name, test date, repair date, certification number of the

Backflow Prevention Assembly Tester for each BPA field test and AG and swivel-ell. Test results shall be kept for the mandatory 3 years as per CCCPH section 3.5.1.

The District will also maintain written records of all Backflow incidents, including descriptions and follow-up actions related thereto, and public outreach or education materials issued as required in CCCPH section 3.1.3.(a)(9) for the previous three calendar years.

12. Backflow Incident Response and Notification

To maintain compliance with CCCPH, the District will maintain on staff, no less than one employee holding an active AWWA Cross Connection Control Specialist certification. Site surveys and hazard assessments shall be performed by or reviewed by a certified Cross-Connection Control Program Coordinator. When a Backflow incident has been observed and reported to the District, a representative of the District shall be available to respond and investigate, record and document the incident so a determination of corrective action can be made and proper state reporting measures can be carried out. This investigation will include documenting complaints or reports of water quality changes, water quality sampling, pressure recording and ensuring any threat to the public water supply has been eliminated either by removal of the cross connection or discontinuance of service to the Premises until the appropriate degree of Backflow prevention has been installed on the service.

Current certified Cross-Connection Control coordinators on staff:

Bryce Watkins
AWWA Cross-Connection Control Specialist cert. # 03227
Phone: (916) 805-3408

Marc Matthews
AWWA Cross-Connection Control Specialist cert. #03010
Phone: (916) 206-5567

13. Public Outreach and Coordination

The District will provide outreach to consumers to raise awareness about cross connection hazards, the need for Backflow prevention, and how to prevent contamination of the public drinking water supply. Information will be available through the website, direct mailings or other literature.

In accordance with CCCPH, Section 3.1.3 (a)(10) and Section 3.1.4 (b)(13), the District must coordinate with local entities involved in matters related to Cross-Connection control or public health protection to ensure hazard assessments can be performed. Local entities may include, but are not limited to, plumbing, permitting, health officials, law enforcement, fire departments, maintenance, and public and private entities.

For the District, the local entities which may be involved in Cross-Connection control include, but are not limited to:

Sacramento Metropolitan Fire District

10545 Armstrong Ave, #200, Mather, CA 95655

916-859-4300

Community Risk Reduction Division

Questions regarding plan review

916-859-4330

planintake@metrofire.ca.gov

Questions regarding construction, code enforcement, inspections, or evacuation planning

916-859-4330

crrdstaff@metrofire.ca.gov

Coordination includes: Fire service laterals

Sacramento County Construction Management and Inspection

9700 Goethe Rd, Suite D

Sacramento, CA 95827

916-875-2700

Juan Chavez, Chief Construction Mgmt. & Inspection Div.

916-875-2727, Email: chavezj@saccounty.gov

Coordination includes: cross connections, internal plumbing

Sacramento Suburban Water District

3701 Marconi Avenue, Sacramento, CA 95821

916.972.7171

Benjamin Henderson

Environmental Compliance Supervisor

Coordination includes: Neighboring agency coordination

Fair Oaks Water District

10326 Fair Oaks Blvd.

Fair Oaks, CA 95628

(916) 967-5723

Coordination includes: Neighboring agency coordination

Citrus Heights Water District

6230 Sylvan Rd, Citrus Heights, CA 95610

(916) 725-6873

waterquality@chwd.org

Coordination includes: Neighboring agency coordination

The District intends to coordinate with other local PWS through events which may include, but not limited to, semi-annual gatherings with other PWS' Cross Connection Control Coordinators, public outreach events, and vendor workshops.

Resources & Reference Links: (to be added as links on website)

SWRCB: Cross-Connection Control Policy Handbook

Safe Drinking Water Act (SDWA):

Uniform Plumbing Code (UPC):

CWD Construction Improvement Standards:

CARMICHAEL WATER DISTRICT
RESOLUTION 08182025-01

**A RESOLUTION OF THE CARMICHAEL WATER DISTRICT ADOPTING AND
IMPLEMENTING THE CARMICHAEL WATER DISTRICT CROSS-CONNECTION
CONTROL REGULATION**

WHEREAS, it is the responsibility of the water purveyor, hereinafter known as the “Carmichael Water District” or “CWD,” to provide water to the customer at the service connection and/or meter that meets California state water quality standards; and

WHEREAS, the State Water Resources Control Board (hereinafter referred to as the “State Water Board”) adopted the Cross-Connection Control Policy Handbook that became effective on July 1, 2024, and prescribes that the water supplier shall protect the public water system from contamination through implementation and enforcement of a cross-connection control plan; and

WHEREAS, under the Safe Drinking Water Act (Health and Saf. Code, § 116270 et seq.), CWD must establish a cross-connection control plan satisfactory to the State Water Board; and

WHEREAS, cross-connections within a customer’s premises pose a potential source of contamination to the public water system; and

WHEREAS, CWD developed a new cross-connection control plan, entitled the “Carmichael Water District Cross-Connection Control Policy,” and submitted it to the State Water Board for approval on June 18, 2025; and

WHEREAS, the Carmichael Water District Cross-Connection Control Policy was reviewed by the State Water Board and returned with comments on July 7, 2025; and

WHEREAS, CWD developed a new cross-connection control plan, entitled the “Carmichael Water District Cross-Connection Control Plan” (CCCP) (attached hereto as Exhibit A) amending the “Carmichael Water District Cross-Connection Control Policy” for resubmission to the State Water Board by August 29, 2025; and

WHEREAS, the Irrigation District Law (Wat. Code §§ 22075, 22076, 22225) authorizes CWD to implement corrective action in the event that a water user fails to comply in a timely manner with any provision in the CCCP. Such corrective action includes denial or discontinuance of water service to a water user; installation, inspection, field testing and/or maintenance of a backflow prevention assembly at a water user’s premises and imposition of a charge to recuperate the cost, as outlined in the CCCP; or otherwise address in a timely manner a failure to comply with the CCCP.

**NOW, THEREFORE, THE CARMICHAEL WATER DISTRICT BOARD OF DIRECTORS
HEREBY DETERMINES AND ORDAINS AS FOLLOWS:**

Section 1. Recitals. The above recitals are true and correct and incorporated herein.

Section 2. Adoption of Cross-Connection Control Plan. CWD adopts the Cross-Connection Control Plan (CCCP), which amends the “Carmichael Water District Cross-Connection Control Policy” attached here as Exhibit A.

Section 3. Adoption Regulation 4060, Cross-Connection Control Regulation.

CWD rescinds Regulation 4060 Cross-Connection Control Program, adopted on June 16, 2025 and hereby adopts Regulation 4060 Cross-Connection Control Regulation, authorizing the implementation of the Cross-Connection Control Plan, and attached here as Exhibit B.

Section 4. Adoption of Corrective Measures. CWD may take the following corrective measures to enforce the provisions of the CCCP:

- a. Denial or discontinuance of water service; or
- b. Installation, inspection, field testing, and/or maintenance of a backflow prevention assembly.
- c. Imposition of fees for these corrective measures consistent with CWD's Fee Schedule, including any amendments thereto.

Section 4. Resolution Effective Date. This Resolution shall supersede all previous cross-connection control approvals and take effect upon its adoption.

PASSED AND ADOPTED by the Board of Directors by the following vote:

Jeff Nelson	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Ronald Davis	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Mark Emmerson	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Ron Greenwood	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Paul Selsky	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>

Board Totals: **Ayes:** **Nays:** **Absent:** **Abstain:**

Passed Unanimously:
Motion Carried:
Motion Not Carried:

Signed after its passage this 18th day of August 2025:

Ron Greenwood, President
Board of Directors

ATTEST: _____
Cathy Lee, Secretary

REGULATION TITLE: Cross-Connection Control Regulation

REGULATION NUMBER: 4060

4060.10 The District protects its public water system at the service connection against any actual or potential backflow of liquids, gases, or other substances that is not or cannot be approved as safe, wholesome, and potable for human consumption. Such protection is enforced through State Water Resources Control Board's Cross-Connection Control Policy Handbook (CCCPH) that became effective on July 1, 2024, which requires the District to comply with all applicable state and federal laws, including the United States Safe Drinking Water Act (SDWA) of 1974, as amended (42 U.S.C. section 300f et seq.), as well as the California SDWA (Health & Saf. Code, div. 104, pt. 12, ch. 4, section 116270 et seq.), as they are now constituted, or as they may hereafter be amended or recodified, and implemented through the District's "Cross-Connection Control Plan." A copy of the current "Cross-Connection Control Plan" is available upon request from the General Manager.

4060.20 Definitions.

The words used in this Regulation shall be as defined below.

4060.21 Backflow means the reverse flow of water or any other fluid or substance or any combination or any mixture thereof from the Customer's water system into District's Water Distribution System.

4060.22 Backflow Prevention Assembly (BPA) means an assembly which will prevent Backflow into District's Water Distribution System.

4060.23 Cross-Connection means any connection, link or channel between District's Water Distribution System and an auxiliary water supply, a pipe or piping system, plumbing fixtures, appliance, container, receptacle, vessel or other devices of whatsoever nature, whereby it may be possible for contaminated or used water or other fluid, which in District's opinion is of questionable or unsafe quality, or any other substance of whatsoever nature other than the water supplied by District, to enter any part of District's Water Distribution System.

4060.24 Cross-Connection Control Policy Handbook is a set of regulations established by the California State Water Resources Control Board to protect public health by ensuring that drinking water is not contaminated by Backflow from undesirable substances. The CCCPH includes the required standards to prevent contaminated water from entering the public water supply.
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/2025/cross-connection-control-policy-handbook.pdf

4060.25 Customer means any person or organization who receives water from the Carmichael Water District.

4060.26 District means Carmichael Water District.

4060.27 District's Water Distribution System means the water distribution system owned and operated by the District including the service connections to water mains.

Incorporation of the CCCPH and District's Cross Connection Control Plan.

4060.30 The regulations of the CCCPH are hereby incorporated by this reference and made a part hereof, insofar as the same are applicable to the protection of the District's Water Distribution System. In addition, the District's Cross Connection Control Plan, as approved by the State Water Resources Control Board, and as may be amended and updated in the future, is incorporated into this Regulation.

Requirements for Backflow Prevention Assemblies

4060.40 BPAs shall be required at the service connection, or at another location approved by a Cross-Connection Control Program Coordinator, for premises in compliance under the CCCPH or the District's Cross Connection Control Plan. BPAs shall be installed, tested and inspected, maintained and repaired, replaced, and approved all in accordance with the CCCPH or District's Cross Connection Control Plan.

Right to Enter Customer's Property

4060.50 As a condition of water service for new Customers and as a condition of continued water service for existing Customers, Customers may be required to have a BPA installed on their private property. Customers shall permit District to enter upon Customer's property within the normal working hours of District, or in case of emergency, at any time, to test, inspect, service, maintain, repair or replace the BPA, as set forth in the CCCPH or District's Cross Connection Control Plan.

Enforcement

4060.60 The Irrigation District Law authorizes the District to implement corrective actions if a Customer fails to timely comply with any provision in the District's "Cross-Connection Control Plan." (Wat. Code §§ 22075, 22076, 22225) These actions include the denial or discontinuance of water service or the installation, inspection, field testing, and/or maintenance of a BPA. The District's Fee Schedule, including any amendments thereto sets forth the fees that the District may charge to recover the costs associated with imposing these corrective actions. The Fee Schedule is available for inspection at the District office and on the District's website.

Topic: Proposed Rule Change for Turf Replacement Program

Date: August 8, 2025

Item For: Action

Submitted By: Greg Norris, Engineering Manager

BACKGROUND

The Carmichael Water District (District) has offered to its customers a program to replace turf with a low water use landscape alternative since 2023. The District's program has been funded in part by grants from RWA's Urban Community Grant and the USBR's WaterSmart grant. The amount of funds available from RWA is \$75,000 and amount of funds available from USBR is \$100,000.

Prior to initiating the program, the District developed a set of program rules in the form of Terms and Conditions. One of the rules specified by the District is that only one (1) project is eligible for each property. The intent for this rule was to ensure that as many people as possible would have a chance to receive funding. This rule did not exist in the requirements from either Grant.

SUMMARY/DISCUSSION

To date, the District has completed 23 turf replacement projects on 23 separate properties. The District has paid out a total of \$35,852 and has been reimbursed \$15,693 from the USBR grant leaving \$84,307 as unused.

The USBR grant concludes on December 31, 2025 and the District would like to use as much of this funding as possible to replace turf. To expand the opportunity to install turf, staff contacted the 23 participants to date to survey if they would be interested and willing to complete another project this fall. The District received 5 responses to date saying that they would replace turf in another portion of their property if eligible. Since these participants are familiar with the program and have demonstrated successful installation, Staff believe that they could perform more turf in an expeditious manner prior to grant expiration if the rules in the Terms and Conditions which limit only one turf replacement project per parcel and limit \$2,000 per participant were changed. If these rules were changed by the District, participants who have already completed a project could complete additional turf replacement promoting less water use within the District for landscaping.

FISCAL IMPACTS

The District has already invested time into setting up the Turf Replacement program, and the cost of completing more projects would be negligible.

RECOMMENDATION(s)

Staff recommends that the Board of Directors approve the proposed changes outlined in Attachment 1, which removes the one (1) project per property limitation and increases the maximum payment up to \$4,000 per property. These proposed changes do not conflict with requirements from the USBR grant.

ATTACHMENT(S)

1. Terms and Conditions for the Turf Replacement Program with proposed changes tracked.



7837 FAIR OAKS BOULEVARD
CARMICHAEL, CALIFORNIA 95608
TELEPHONE: (916) 483-2452
FAX: (916) 483-5509

Carmichael Water District Turf Replacement Incentive Program Terms and Conditions

The Turf Replacement Rebate Program provides rebates to Carmichael Water District (CWD) customers to convert water-thirsty lawns to water-efficient landscapes. Funding is limited and applications will be accepted on a first-come, first served basis. **Submission of an application does not guarantee funding.** ~~Participants are eligible for one lawn replacement rebate per property.~~ CWD reserves the right to modify or terminate this program at any time, for any reason. Participation in the program requires that all the program terms and conditions be met. If these requirements are not met, the rebate will be denied.

Eligibility

1. Program is NOT retroactive. Projects underway or completed prior to the application approval are not eligible.
2. The Turf Replacement Rebate Program is available to residential and non-residential customers within CWD's service area and must have water supplied solely by CWD. Applicant must be the property owner of record, or his or her authorized representative. The applicant's water account must be in good standing.
3. Lawn areas to be converted must be currently maintained and irrigated by an operating sprinkler system. Dead lawns, due to drought-related watering reductions, may be eligible and will be assessed on an individual basis. Evidence of previous lawn such as existing turf, borders, remnants of turf, or existing operational turf irrigation systems must be present; dirt or weed-filled areas are not eligible.
4. Conversion of lawn/turf must be in accordance with the terms and conditions of the rebate program.

Terms and Conditions

1. Program participation will be awarded on a first-come, first served basis.
2. The rebate amount per residential property is \$2.00 per square foot of converted turf up to a maximum rebate of ~~\$24,000~~. For this program residential includes single-family, condominium, or five units and under dwellings. The rebate amount per commercial, institutional, and multi-family is \$2.00 per square foot of converted turf up to a maximum rebate of \$15,000. For this program, multi-family includes six units and above.
3. Total project funding will be split, with half of the available funds allocated to residential and half of the available funds allocated to commercial, institutional, and multi-family.

In the case that funding is depleted for one category of participants, CWD may consider reallocating program funds depending on availability and program demand.

4. A minimum of 300 square feet of turf must be converted. Smaller projects may be considered if 100% of the lawn at the property is being removed.
5. Conversions that are initiated prior to CWD's approval are ineligible. No exceptions will be made.
6. Applicant must submit five (5) pre-conversion site photographs, prior to the removal of any lawn. Photographs must be of existing lawn and taken for the purpose of meeting the requirements of the program.
7. Submission of altered, edited, filtered, enhanced, or embellished photographs will result in application being denied. Photograph specifications and requirements are outlined below and in the program application.
8. Application submission does not guarantee funding.
9. Applicant can begin lawn conversion once eligibility and funding availability is verified by CWD and applicant receives approval to proceed.
10. CWD makes no representation or warranty relating to turf replacement, including any hazardous substances that may be contained in the conversion materials.
11. Applicant waives and releases CWD from any and all claims and causes of action arising out of the turf removal and landscape conversion.
12. Turf replacement and landscape conversion must be started within one (1) month, (30 days) of approval and completed within three (3) months, (90 days), of receiving notice of approval.
13. This incentive program is NOT retroactive. Projects underway or completed prior to receiving application approval are not eligible for a rebate.
14. Labor is not included in the rebate.

Landscaping Terms and Conditions for Converted Areas

1. The converted area must include a sufficient number of plants to ensure at least 50% of the area is covered when the plants are fully grown. Potted plants cannot be counted towards the 50% plant coverage.
2. The rebated portion of the converted turf area may only include low water use, drought-tolerant, or California native plants adaptable to our local climate. A CWD provided local plant lists will be provided to make plant selection. Plants not included on the provided list will be reviewed on a case-by- case basis. Invasive plants cannot be planted in converted area.
3. At least one tree, existing or new, must be incorporated into the converted landscape.
4. A portion of an existing tree's canopy (up to 25%) can count toward the 50% coverage requirement if the tree is planted in the lawn area about to be converted.
5. Impermeable surfaces, such as concrete, that do not allow water to penetrate into the ground, are not allowed as part of the conversion area. Permeable hardscape is allowed; however, the 50% plant coverage rule still applies to the entire area.
6. All planting areas must have a minimum of a 3-inch layer of mulch. If a weed barrier is used below the mulch, it must be permeable to air and water. Approved mulch types include organic material such as bark chips, shredded bark or wood chips and non-organic materials such as rock, or decomposed granite.

7. Artificial grass is not allowed in the rebated portion of the converted landscape.
8. The existing lawn sprinklers in the converted area must be removed, capped, or converted to a drip system. Any lawn areas remaining outside the converted area must be irrigated separately from the new landscape.
 - a. No overhead spray irrigation is allowed.
 - b. Converted area can be hand watered, however, this is not encouraged.
 - c. CWD recommends participants install a new or retrofitted drip irrigation system equipped with a proper pressure regulator, filter and pressure compensating emitters.
 - d. If a drip irrigation system is installed, it must be rated at 2.0 gallon per hour per emitter or less. Micro-sprays and bubblers are not eligible.
 - e. If only part of a lawn is converted, the converted area must be irrigated on a separate valve from the remaining lawn. The sprinkler system for the remaining lawn must be modified to provide adequate coverage and may not overspray onto the converted area.

Application Process

1. Submit online application at <https://www.carmichaelwd.org/>. Customers without access to computers can call or stop by the CWD office for the application documents and program information.
2. Carefully read, acknowledge, and agree to posted Terms and Conditions.
3. The square footage of the turf area to be converted must be included on the application.
4. Applicant to provide a sketch or diagram of the project conversion area along with measurements.
5. After the application is received, a virtual or in person pre-site inspection will be performed if all photographs (5) are submitted by applicant. CWD will review photographs of lawn intended to be converted and verify square footage. Applicant will receive an email with further instructions, if application meets all eligibility requirements.
6. Applicant to complete all required documents, worksheets, and or checklists.
7. Once the application and associated forms are approved, and funding availability is confirmed, the applicant may remove the turf and install the project according to the Program Terms and Conditions.

Post Conversion Process

1. Applicant to submit post conversion documents via provided email or in person at the CWD office.
 - a. The property address shall be included in the subject line of email correspondence.
 - b. Documentation includes post conversion site photographs (5), completed worksheets and or checklists and a completed federal form W-9. The W-9 must use the same name as the applicant's name.

- c. Post-conversion site photographs to be taken in same manner as pre site conversion photographs.
2. A post-site inspection will be performed which may include a CWD employee onsite verification check to ensure all program requirements have been met.

Photographs Submission Requirements

1. Five (5) photographs for each, pre-conversion, and post-conversion, must be taken in the requirements below:
 - a. All photographs must be in color.
 - b. No up-close photographs of grass.
 - c. Stand far back enough to include home, street, driveway, or fence as a reference point.
 - d. Street number or address must be visible in at least one photograph.
 - e. Photographs cannot be online images such as Google street view.
 - f. Photographs must be current representation of the conversion areas current state.
 - g. Altered photographs will result in application being denied.
 - h. Conversions area must include at least one picture of irrigation system operating.

Additional Responsibilities of the Applicant

1. CWD enforces only the terms and conditions of this agreement. The applicant is solely responsible for complying with any and all laws, regulations, policies, CC&Rs (Covenants, Conditions, & Restrictions) that may apply, and for any and all liabilities arising out of a conversion project. Applicants must comply with all local permitting requirements, and with all state and local laws relating to landscape installation and maintenance.
2. Applicant should consider consulting a tax adviser for information regarding the tax liabilities of receiving any rebates.

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Topic: Development Agreement for 8105 Fair Oaks Blvd for Water Service

Date: August 5, 2025

Item For: Action

Submitted By: Greg Norris, Engineering Manager
Cathy Lee, General Manager

BACKGROUND

One single-family residence development is proposed on a vacant lot at 8105 Fair Oaks Boulevard (Project). Currently the lot has an abandoned and out-of-service unmetered 1-inch galvanized water service line that is shut off from use. The owner of the project has notified the District that they would like to obtain water service from the District's system. Records show that there has never been a meter on the lot and that the abandoned service line probably serviced an old house that was demolished over 20-years ago prior to the time when services were metered.

SUMMARY/DISCUSSION

District Regulation 4040.10 requires that "... prior to the Board of Directors considering a private development project for approval, a development agreement... shall be executed [by the parties]". District staff have written a Development Agreement (D.A.) as outlined in District Regulation 4040 (see Attachment 1) to ensure the mutual understanding of owner's and District's responsibilities, including the payment of related capital facility, construction and inspection fees, as well as conveyance of ownership and easements. This D.A. has been prepared by the General Manager and Legal Counsel.

FISCAL IMPACTS

The DA ensures that the onus of developmental costs associated with the project are on the developer. No fiscal impacts to the District are anticipated.

RECOMMENDATION

Staff recommends that the Board of Directors authorize the General Manager to execute the attached *Developers Agreement for Water Service* to be used at 8105 Fair Oaks Blvd.

ATTACHMENT(S)

1. Developers Agreement to be used for Water Service at 8105 Fair Oaks Blvd.

**DEVELOPMENT AGREEMENT WITH THE
CARMICHAEL WATER DISTRICT FOR WATER SERVICE**

This Development Agreement (“Agreement”) is made and entered into by and between Carmichael Water District (District), a political subdivision of the State of California, and:

____ (“Builder”),
owner of the Residential / Commercial / Institutional / _____ development at:
____ (“Address”),

with current assessor parcel number(s) (APNs) of:

____ (“Property”),
as described and filed with the Sacramento County Records, in document number(s):
____ (“Project Site”),

included as attachment to this Agreement (Exhibit A). The District and Builder are sometimes hereinafter referred to collectively as the “Parties” and each individually as a “Party.”

RECITALS

This Agreement is made with reference to the following facts and conditions which the parties hereto agree form the basis upon which this Agreement is made:

- A. WHEREAS, the District is a special district operating under and by virtue of Division 11 of the California Water Code; and,
- B. WHEREAS, formed in 1915 as Carmichael Irrigation District, and later renamed Carmichael Water District, the District currently delivers water diverted from the American River and pumped groundwater to its service area in Sacramento County; and,
- C. WHEREAS, the District may do any act necessary to furnish sufficient water in the District for any beneficial use, including the collection of charges for the use of water and connection to District’s water system (Wat. Code, §§ 22075, 22280(a)(1), 22281.1); and,
- D. WHEREAS, the Builder has the appropriate entitlements to develop on the Property and Project Site in the unincorporated community of Carmichael; and,
- E. WHEREAS, the Builder intends to construct a development on the Project Site and to that end has filed all the necessary documentation to obtain the approval of the County of Sacramento; and,
- F. WHEREAS, to facilitate the provision of water service to the Project Site, Builder intends for the construction of a water system pursuant to accepted plans or any approved modifications for the purposes of delivery of water to the meter at the Project Site (Project Water System).

NOW, THEREFORE, the parties agree as follows:

1. The RECITALS contained herein are an integral part of this Agreement and shall be incorporated herein.
2. FEES: Builder agrees to pay all Plan Check Fees, Capital Facility Fees, Construction Fees, Inspection Fees, and any other fee authorized by the District's Fee Schedule as applicable, for Project water service. All Fees will be priced in accordance with the District's most current Fee Schedule at the time of payment. The typical payment schedule for all fees shall follow the outline provided below:
 - 2.1 Plan Check Fee. The Plan Check Fee includes the time for District staff to review, amend, and approval of any improvement plans submitted by the Builder. Builder must pay Plan Check Fees prior to the District performing any review of any submitted improvement plans.
 - 2.2 Capital Facilities Fee. The Capital Facilities Fee (CFF) is a capacity charge related to capacity in the District's water system, including supply, treatment, storage, and distribution, and is charged for connecting a new service to the District's water system. CFF for all new or up-sized water service connections are payable prior to construction of the Project Water System or prior to the approval of improvement plans by the District, whichever comes first. District will price the CFF per connection in accordance with the District's Fee Schedule in effect at the time of payment.
 - 2.3 Construction Fee. The Construction Fee includes the time and materials to install water meters, perform pressure and bacteria testing, and any other installation or testing activities to be performed by District staff associated with the Project Water System. Pressure testing, bacteria testing, and any other fees related to testing of the water pipelines are payable prior to construction of the Project Water System or prior to the approval of improvement plans by the District, whichever comes first. Fees related to the installation of water meters or testing of backflow devices are payable prior to the work to be performed and will be priced in accordance with the District's Fee Schedule at the time of work.
 - 2.4 Inspection Fee. The Inspection Fee includes the time for District staff to inspect new or altered water assets, and to be present during installation of water pipelines and services. The Inspection Fee is payable prior to construction of the Project Water System or prior to the acceptance of improvement plans by the District, whichever comes first.
 - 2.5 The District reserves the right to charge for time and materials for any District effort that is needed, including emergency work, with regards to District-owned assets that are altered or disturbed during Project Water System work.
3. HOLD HARMLESS: District is not, by inspection of the construction or installation of the Project Water System, representing Builder or providing a substitute for inspection and control of the Project Water System by Builder. Any inspections and observations of the Project Water

System by District are for the sole purpose of providing notice of stage and character of the Project Water System. Any failure of District to note variances in the Project Water System from accepted plans does not excuse or exempt Builder from complying with all terms of accepted plans. The fact that District inspects the construction of the Project Water System and notifies Builder of deviations or failures to construct them pursuant to accepted plans shall not be deemed to constitute a guarantee by District that the Project Water System has been built in accordance with accepted plans. During construction of the Project Water System and prior to conveyance thereof to and acceptance thereof by District, Builder shall hold District harmless against any and all claims, demands and charges by third parties arising out of alleged deviations or failures to construct the Project Water System pursuant to accepted plans.

4. **INDEMNIFICATION:** Builder agrees to indemnify, defend, and hold District and its agents, successors, and assigns, harmless from and against any and all claims, expenses, damages, losses, costs (including, without limitation, reasonable attorney fees and costs, and expert fees and costs), and/or liabilities (whether asserted by any third-party or otherwise) arising from or related to (either directly or indirectly) the construction and existence of the Project Water System provided under this Agreement, provided, however, that Builder' indemnification obligations hereunder do not extend to claims, expenses, damages, liabilities, or costs to the extent caused by the active negligence or willful misconduct of District or its agents.
5. **CONSTRUCTION:** Builder shall, without expense to the District, construct the Project Water System pursuant to accepted plans or any approved modifications thereof. Builder shall provide in any contract for construction of the Project Water System that any contractor's materials supplier's guarantees thereunder, including a one (1) year warranty on the completed improvements, shall inure to the benefit of District after the works constructed thereunder have been conveyed to District. Builder shall also provide in any contract for construction of the Project Water System that the contractor's public liability and property damage insurance shall be extended to cover the Builder and District and their agents, officers and employees as insured with liability and bodily injury limits of not less than \$300,000, and property damage coverage of not less than \$100,000. Builder agrees to obtain an encroachment permit from the Department of Public Works of the County of Sacramento and comply with all requirements thereof, including trench restoration and street resurfacing requirements for any portion of the Project Water System situated within an existing or proposed County of Sacramento right of way.
6. **INSPECTION:** The District Engineer or his/her agent shall inspect the construction of the Project Water System to ensure that the works are installed in accordance with accepted plans and District's Construction Improvement Standards. The District Engineer shall notify Builder as to any deviation or failure to construct pursuant to any accepted plans as soon as such deviation or failure is brought to his/her attention, and Builder shall correct such deviation or failure. Any changes to approved plans shall require written approval of the Builder and District Engineer.

7. EASEMENTS: Builder will provide to District, at no cost to District and as approved and acceptable to the District Engineer on the small lot final map for the Project Site, appropriate easements and rights of way for the maintenance, repair, and replacement of all Project Water System facilities not within existing public rights of way, public utility easements, and/or water service easements.
8. PREVAILING WAGES: Builder has been advised that the State of California (State) Attorney General has opined that, in certain circumstances, construction of facilities for provision of public utility service, with the understanding and agreement that said facilities will be turned over to District for ownership, operation and maintenance at the conclusion of construction, may be subject to the prevailing wage laws of the State. Builder has determined that, at this time, said opinion of the Attorney General does not affect the wages paid by Builder to laborers employed on said facilities constructed pursuant to this Agreement. Builder agrees, however, that should it be determined that the prevailing wage laws of the State (Labor Code §1770, et seq.) apply to the work performed in accordance with this Agreement, then Builder shall defend and hold District harmless from any liability, claims, damages, or costs in any way associated with said determination by the State and Builder shall, as further consideration of District entering into this Agreement, take all necessary and appropriate action, including payment of back wages, and any associated penalties which may be required, due to enforcement of the prevailing wage laws in connection with construction of the Project Water System. Builder agrees that District has not represented or in any way advised Builder in connection with this matter except to advise Builder of his potential liability and Builder does not in any way rely upon any opinion or information of District in making its determination in connection with the payment or nonpayment of such wages for the work performed under this Agreement. The obligation of Builder to, if required, pay prevailing wages for the work performed in accordance with this Agreement shall be a continuing obligation and shall bind the heirs, successors and assigns of Builder and District's obligation to provide operation and maintenance on the facilities to be turned over to District, and to provide water therein, shall be dependent upon Builder's continuing compliance with this provision.
9. CONVEYANCE: At the time of acceptance of the Project Water System assets:
 - 9.1 Ownership of the completed Project Water System assets shall be conveyed to the District without cost and free and clear of all liens and encumbrances. The District shall include the completed Project Water System assets as part of the District's water system, and shall thereafter operate and maintain the Project Water System as part of said District water system;
 - 9.2 Within 90 days of the completion of construction of the Project Water System:
 - 9.2.1 For any work performed by the Builder, the Builder shall provide the District an estimated cost of the Project Water System; and,
 - 9.2.2 Builder shall provide any easements as specified above.

10. **BUILDER RESPONSIBILITIES AFTER CONVEYANCE:** After District's acceptance of the Project Water System, Builder shall have no obligation for the operation, maintenance, repair or replacement thereof, except that to the extent Builder retains ownership of any parcel to which service from such works is available, it shall pay any applicable rates and charges levied by District for such service.
11. **SYSTEM OPERATION:** The Project Water System shall not be operated, other than for testing purposes, until the said system is conveyed to District and formally accepted by District as specified above, and proper applications for service having been filed with District accepted.
12. **OBLIGATION FOR PIPELINE AND/OR FACILITIES:** District shall be under no obligation to provide additional facilities in order to serve the Property. Upon acceptance of the Project Water System by District, it shall become the sole property of District and shall be used and operated at District's sole discretion.
13. **RATES AND CHARGES FOR SERVICE:** All service made available by District to users within the Property shall be at the established rates and charges as fixed by District's Board of Directors from time to time.
14. **SUCCESSORS AND ASSIGNS:** This Agreement shall be binding upon and inure to the benefit of the successors and assigns of all parties. Builder shall not assign any of its rights, duties or obligations under this Agreement without the prior written consent of District, which consent shall not be unreasonably withheld.
15. **DISTRICT POWERS:** Nothing herein shall be deemed to limit, restrict, or modify any right, duty, or obligation given, granted, or imposed upon District by the laws of the State of California now in effect, or hereafter adopted, including the enactment of any rules, regulations, policies, resolutions or ordinances, and in the event that any part of provisions herein contained in this Agreement or incorporated herein, be found to be illegal or unconstitutional by a court of competent jurisdiction, such findings shall not affect the remaining parts, portions, or provisions hereof.
16. **ATTORNEY FEES:** Should any party institute legal action to either compel performance of this Agreement or recover damages for nonperformance, the prevailing party(s) shall be entitled to reasonable attorney's fees, cost of suit, and all other expenses of litigation incurred in connection therewith.
17. **AMENDMENT:** Additions or other changes to this Agreement may be amended only by a written instrument duly executed by the Parties.
18. **NO WATER RIGHTS CONFERRED:** Nothing in this Agreement results in Builder possessing or gaining: (i) any right or interest, either in law or equity, to demand any portion of or share in the water rights held by District; (ii) any right in any waters purchased by

District from any other source; or (iii) any right to any amounts of water that the District diverts from the American River, extracts from the groundwater basin, or obtains from any other source. This Agreement shall be the sole source of Builder' right to water service from District.

19. RELATIONSHIP OF PARTIES: Nothing set forth in this Agreement shall be deemed or construed by Builder, the District, or third parties to create any relationship of principal and agent, partnership, joint venture, or any other association between the Parties.
20. SEVERABILITY: If any term, provision, covenant, or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated.
21. ENTIRE AGREEMENT. This Agreement is the full and entire understanding of the Parties with respect to installation and inspection of the Project Water System and may not be altered except by a writing executed by both Parties. The Parties agree that there are no warranties, either express or implied, no covenants or promises or expectations other than those contained and set forth in writing in this Agreement.
22. WAIVER. The waiver or failure to declare a breach of this Agreement as a result of a violation of any term or provision set forth in this Agreement shall not constitute a waiver of that term or condition and shall not provide the basis for a claim of estoppel.
23. TERM: This Agreement shall become effective on the date it is last signed by either Party. By mutual agreement of the Parties, this Agreement expires one (1) year following acceptance of the Project Water System by the District's Board of Directors. At the District's discretion, this Agreement shall terminate and be of no further force and effect if District determines that construction of the Project Water System has not commenced within twelve (12) months from the date of this Agreement.
24. NOTICES: Notices or Requests from any party to this Agreement to the remaining parties thereof shall be in writing and delivered or mailed, postage prepaid, to the following addresses:

Carmichael Water District
7837 Fair Oaks Blvd, Carmichael, CA 95608
Attention: General Manager

(Builder Name or their Representative)
(Builder Mailing Address, Line 1)
(Builder Mailing Address, Line 2)

IN WITNESS WHEREOF, the Parties to this Memorandum of Understanding have duly executed this Agreement on the date set forth opposite their signatures.

CARMICHAEL WATER DISTRICT

By: _____ Date: _____
[General Manager, Carmichael Water District]

BUILDER OR BUILDER REPRESENTATIVE

By: _____ Date: _____

Topic: Amendment 1 for the Professional Services Agreement with Water Systems Consulting for Progressive Design-Build Professional Assistance for the Ladera and Winding Way Well Site Improvement Project

Date: August 5, 2025

Item For: Action

Submitted By: Greg Norris, Engineering Manager

BACKGROUND

Carmichael Water District (District) has completed construction of two aquifer storage and recovery (ASR) wells and is preparing for the next phase of the project to equip the wells. With assistance from Water Systems Consulting (WSC), the District has selected the Garney Construction – Dewberry Engineering team to design and construct the topside improvements of the Ladera and Winding Way (WW) Wells following a proposal and ranking process. Staff expect that the Garney contract will be finalized very soon allowing design work for the wells' topside improvements to begin.

SUMMARY/DISCUSSION

When WSC proposed to assist the District with the Progressive Design-Build (PDB) procurement phase, they also offered to extend their services to provide technical design assistance and construction management. District Staff were pleased with WSC's assistance during procurement and requested a proposal from WSC to provide this additional assistance.

WSC proposed to offer additional services divided into three general task areas:

- Project Management;
- Design, Permitting, and Procurement Support Services; and
- Engineering and Technical Assistance (during construction).

WSC also proposed to offer optional services also divided into three general task areas:

- Independent Cost Estimating to verify Garney's Guaranteed Maximum Price (GMP);
- Request for Information and Submittal Oversight; and
- Prevailing Wage Compliance.

Staff is recommending that a contract be offered to WSC for the first three tasks. Specific activities to be performed under these areas include:

- Prepare and conduct workshops including a Kickoff meeting, up to 14 biweekly Project Progress meetings, attendance and support for 8 Project Design Workshops;
- Quality management including initial review of the PDB Quality Control Plan and recommendations related to implementation;
- Change order management and risk management including review, evaluation, and negotiation of proposed changes;
- Planning, design, and procurement support including PDB schedule review, technical design support, PDB contract management, and submittal list maintenance;

- Engineering and technical assistance (through design and preconstruction, aka PDB Phase 1) including field investigation support, environmental coordination and mitigation monitoring support, stormwater pollution prevention plan review, 30% and 60% design deliverables review, PDB Phase 1 procurement support (early procurement packages for long-lead time equipment), and GMP support, review, and negotiations.
- Construction engineering and technical assistance including design submittal review, contract administration, prepare daily construction reports when onsite, material delivery and stored material verification, payment application review, serve as a third-party inspector for grant funding agencies, construction permit monitoring and support, commissioning and start-up coordination and support, and project closeout support.

For the optional services, District Staff propose to set aside authorized contingency funds and amend the WSC contract to add optional service(s) when and if they become necessary.

FISCAL IMPACT

The proposal from WSC has a cost of \$537,719 for the non-optional tasks. Funds for the Winding Way and Ladera General Ledger accounts (GL # 10-011105-19 and 10-10115-28) will be used to fund this amendment to the professional services agreement with WSC. These funds were budgeted for the 25-26 FY from VA, US EPA, and DWR grant funding. If optional tasks become necessary, Staff proposes to use contingency funds set aside from the same funding sources to pay for additional amendment(s) and add that work to WSC's scope. Presently, WSC has proposed to perform these optional tasks for a cost of \$54,942.

RECOMMENDATION(s)

Staff recommends that the Board of Directors: 1) approve Amendment 1 to the Professional Services Agreement with Water Systems Consulting, Inc. for \$537,719, 2) approve a contingency amount of \$100,000 to fund District staff approved optional tasks offered by WSC or any unforeseen costs, resulting in a contract not-to-exceed amount of \$668,866, and 3) authorize the General manager to approve future amendments up to the approved contingency amount.

ATTACHMENT(S)

1. Amendment 1 to Professional Services Agreement between CWD and Water Systems Consulting, Inc. with WSC Scope of Work and Fee.

**AMENDMENT NO. 1
TO AGREEMENT FOR PROGRESSIVE DESIGN BUILD OWNER ASSISTANCE
SERVICES BETWEEN CARMICHAEL WATER DISTRICT
AND WATER SYSTEMS CONSULTING (WSC)**

This Amendment No. 1 to the March 19, 2025 agreement between Carmichael Water District (“District”) and Water Systems Consulting (“Contractor”) concerning Progressive Design Build Owner Assistance services is made effective upon execution by the District’s General Manager.

RECITALS:

- A. On March 19, 2025, District and Contractor entered into an agreement for services in connection with Progressive Design Build Owner Assistance (“Agreement”);
- B. District desires to extend the services provided by Contractor;
- C. Contractor is willing to perform the extended services; and
- D. The parties desire to amend the Agreement on the terms and conditions set forth below to provide for the extension of services by Contractor to include services described in Exhibit A.

AGREEMENT:

1. **Description of Extended Services.**

Services including all non-optional tasks as detailed in Exhibit A including:

- Project Management;
- Design, Permitting, and Procurement Support Services; and
- Engineering and Technical Assistance (during construction)

2. **Compensation.**

- (a) The total compensation for the additional Progressive Design Build Owner Assistance services described in this Amendment No. 1 shall not exceed five hundred thirty-seven thousand seven hundred nineteen dollars (\$537,719.00). Compensation shall be based on Contractor’s scope of work which is attached hereto and incorporated herein as Exhibit A to this Amendment No. [1].

(b) The not-to-exceed amounts of compensation described in subdivision (a) of this Section 2 are in addition to the not-to-exceed amount set forth in Section 2 and Exhibit A of the Agreement. With this Amendment No. 1, Contractor's total not-to-exceed compensation is five hundred sixty-nine thousand eight hundred sixty-six dollars (\$568,866.00).

3. Term of Agreement.

This Amendment shall become effective on the date stated above. The Agreement, together with this Amendment No. [1], shall expire on date of original agreement expiration, unless terminated earlier pursuant to Section 3 of the Agreement.

4. Effect on Agreement.

Except as specifically provided herein, the Agreement, and each of its terms and conditions, shall remain in full force and effect, are incorporated herein by this reference, and apply to the work described in section 1 hereof.

CARMICHAEL WATER DISTRICT

Dated: _____

By: _____

Cathy Lee
General Manager

WATER SYSTEMS CONSULTING, INC.

Dated: 8/5/2025

By: DW

Dylan Wade
Vice President

Task 0 Project Management

0.1 Project Administration

- Perform project management activities, including project setup, internal coordination, subconsultant coordination as required, reviews of monthly schedule updates, reviews and modifications to project schedule and logs.
- Prepare monthly progress reports to be submitted with each invoice.

0.2 Meetings and Workshops

- Prepare and conduct the following meetings and workshops:
 - Kickoff and Alignment Meeting (1), to be attended in-person by two (2) WSC staff, two hours each, with additional time for preparation.
 - Biweekly Project Progress Meetings (14), to be attended by WSC's Project Engineer, one hour each, with additional time for preparation. Half of these meetings will be attended in person and the other half will be attended remotely.
 - Project Workshops (8), hybrid meetings to be attended by two (2) WSC staff, two hours each, with additional time for preparation. Anticipated meetings include: Risk Register, Cost Model, Permitting, BODR, 30% design, 60% design, GMP, and 100% Design.
 - Lessons Learned Meeting (1), to be attended by three (3) WSC staff, two hours each, with additional time for preparation.
- Meeting agendas, summary notes, and presentation materials will be submitted electronically for WSC led meetings. For PBD led meetings WSC will review minutes electronically.

0.3 Quality Management

- Review PDB project-specific Quality Control Plan (QCP).
- Provide quality assurance and quality control recommendations in accordance with PDB's QCP.

0.4 Change Order and Risk Management

- Assist and advise the District and PDB on development of the Project Risk Register.
- Participate in periodic review and allocation of project risks.
- Assist and advise the District on issues related to Potential Change Orders (PCO) initiated by the District or by the PDBE.
 - Coordinate review, evaluation, and negotiation of each change order request with the District and PDB as appropriate. Evaluate the technical merit of change order requests with respect to schedule, claims management, project cost, design plans, system operations, conflicts, constructability, delays, and project requirements.
 - Assist the District to determine approval or rejection of change order requests in full or part of initial request. Provide written response(s) to PDB and/or written recommendation to the District as appropriate.

- Monthly progress reports and invoices.
- Monthly schedule update review comments.
- Meeting agendas, summary notes, and presentation materials or review comments.
- Quality Control Plan Review comments

Assumptions:

- Project duration is 16 months including both Phase 1 and Phase 2 tasks.
- WSC will have no authority to issue changes or modifications to the contract documents. All proposed change orders will be submitted to District for review and final approval.
- Assume up to 10 PCOs and up to 4 PDBE contract amendments. Consultant effort assumes an average of 1 hour of review for each PCO and 4 hours of review for each PDBE amendment.
- Risk register development and updates are assumed to occur during the meetings outline in Task 0.2 above.

Task 1 Design, Permitting, and Procurement Support Services - Phase 1

1.1 Phase 1 – Planning, Design, and Procurement Support

- Base Services:
 - Provide technical expertise and support in areas of project management, procurement management, technical design support, contract management, project controls and administrative support.
 - Assist District staff with schedule review, cost control, change control, quality control, quality assurance, and with day-to-day as needed assistance.
 - Review baseline schedule, submittal lists, and other PDB submittals for general conformance with the contract documents.

Deliverables:

- Meeting agendas, summary notes, and presentation materials.
- Review comments in electronic format.

Assumptions:

- Base services to be provided as needed or on an on-call basis as directed by the District.
- Level of effort is an assumed number of hours per the attached Fee Table.

1.2 Phase 1 – Engineering & Technical Assistance (Through Design and Preconstruction)

- Teaming Sessions
 - Participate in teaming sessions with the District and PDBE.
- Field Investigation Support

EXHIBIT A



- Reviewing and providing comments to PDBE-provided plans for survey, geotechnical, utility inspection, and potholing work.
 - Review data results and PDBE-provided reports for survey, geotechnical, and potholing work.
- Environmental Coordination and MMRP Support
 - It is understood that the District has completed CEQA documentation to obtain environmental coverage for the Project.
 - Consultant will be responsible for reviewing the mitigation measures identified in the CEQA documentation and tracking these measures through the design process to confirm they are addressed by the PDB's contract documents.
 - Review SWPPP related submittals, proposed erosion control measures and site maintenance submittals.
- Permitting Support – Phase 1
 - Support PDB's development of permitting matrix.
 - Monitoring of permit requirements and progress.
- Technical Reviews and Support – Phase 1
 - Technical review of Performance Guarantees proposed by PDBE and assisting the District in revising scope, design and performance criteria as necessary.
 - Design Submittal Review. Consultant to support District by reviewing Basis of Design Report (BODR) and 30% Drawings and 60% Design deliverables. Assume no more than two construction packages, inclusive of early work packages, will be prepared for the Project.
 - BODR review.
 - 30% Design (level of effort assumes 60 drawings, table of contents for technical specifications, and supporting documents).
 - 60% Design (level of effort assumes 120 drawings, 60 technical specifications, and supporting documents)
 - Supporting documents are anticipated to include calculations, construction schedules, and cost estimates.
 - Review comments to be captured using Bluebeam software.
 - Separate electrical review by subconsultant.
 - Level of effort assumes a design review workshop will be conducted for the BODR and 30% Drawings and 60% Design deliverables, to follow the District's review and to clarify for the PDBE comments made during the review process. Workshop attendance is scoped in Task 0.2 above.
- Monitoring and Procurement Support – Phase 1
 - Design review and monitoring design development for compliance with the PDB contract.
 - Monitoring of PDBE's procurement process, including participation in best-value evaluation of solicitation responses for early work packages.
- Guaranteed Maximum Price (GMP) Review and Negotiations

- Review draft GMP or lump sum proposal.
- Support and guide District through the GMP proposal phase of the Project, as well as negotiation and finalization of the GMP.
- GMP development approach will require open book cost monitoring by the OA throughout the Project.
- Review of GMP electrical costs by subconsultant.

Deliverables:

- Review comments in electronic format.

Assumptions:

- Assume up to two teaming sessions, lasting 6 hours in total. These will be attended virtually by 2 WSC staff.
- Assume permit monitoring efforts will be 2 hours per month, for a duration of 8 months.
- Assume no more than two construction packages, exclusive of early work packages, will be prepared for the Projects.
- Assume open book cost monitoring by the OA will be required of the PDBE.
- Assume 6 total early work packages between the two projects.

Task 2 Phase 2 – Engineering and Technical Assistance (Construction)

- Technical Reviews and Support – Phase 2
 - **Design Submittal Review.** Consultant to support the District by reviewing the 100% Design deliverables.
 - 100% Design (level of effort assumes 180 drawings, 75 technical specifications, and supporting documents)
 - Supporting documents are anticipated to include calculations, construction schedules, and cost estimates.
 - Electrical design review by subconsultant.
 - Review comments to be captured using Bluebeam software.
 - Level of effort assumes a design review workshop will be conducted for the 100% Design deliverable, to follow the District's review and to clarify for the PDBE comments made during the review process. Workshop attendance is scoped in Task 0.2 above.
 - Coordinate District's involvement in PDB's released for construction process.
- Contract Administration

EXHIBIT A



- Develop notices to proceed for early procurement and construction activities for execution by the District.
 - Participate in bi-weekly construction progress meetings with PDB team to review the contractor's three-week look ahead schedule, review submittal/RFI/PCO status and address issues affecting performance of the work
 - Submittal review and RFI management are proposed as an alternate task assuming the District staff will want to review relevant submittals.
- Field Services
 - Verify and document preconstruction site conditions of the sites and neighboring properties.
 - Provide periodic extended site observations focused on concealed works and key project components such as buried pipelines; well drop pipe; Baaski valve and pump installations; equipment installation; backwash tank coating preparation, generator installation, wire testing, SMUD utility installations, and other key tasks.
 - Provide the District daily site inspections, summarized in a weekly written report of construction observation efforts (when onsite) including photographs and descriptions of the observations.
 - Verify PDB's good neighbor and outreach efforts.
 - Verify material deliveries and stored materials.
 - Upon witnessing materials, installation processes, or levels of quality that do not meet the requirements of the construction documents, issue a Non-Conformance Report notifying the PDB of such deviation and inquire about the PDB's proposed corrective action.
- Payment Application and Grant Support
 - Review status of the work and PDB payment request for completeness and reasonableness.
 - Verify materials stored onsite.
 - Serve as a third-party payment inspector for grant or lending agencies if required.
 - Provide support to the District for preparing and processing monthly payment and grant reimbursements.
 - Verify PDB's furnishing of lien and partial lien releases.
- Quality Assurance
 - Review PDB's QA/QC testing and inspection results for conformance with the contract documents and the PDB's QA/QC plan.
 - Periodic concrete placement observation and compressive strength test split sampling during concrete placement. Assume 1-2 QA concrete testing events per site.
 - Periodic compaction testing observation. Collect and furnish materials to a testing subconsultant for development of compaction curves and conduct 1-2 subgrade compaction tests per site.
 - Pipeline flushing, disinfection and pressure testing observation.
- Monitoring Support – Phase 2
 - Continued monitoring of design progress and contract compliance.
 - Monitoring and compliance review of warranty-related requirements.

- Permitting Support – Phase 2
 - Monitoring of permit requirements and mitigation compliance.
 - Assist District and PDB with permit close out and reporting post construction.
- Commissioning and Start-Up
 - Participate in development of start-up and commissioning plans.
 - Review SCADA submittals and control system documentation.
 - Coordinate PDB training of District's operations staff.
 - Provide observation and participate in the startup and commissioning of each system.
 - Receive, review, and distribute start up documentation and plan from PDB and equipment vendors for confirmation of equipment testing and functionality before start-up of the facility.
 - Observe the ASR system in operation under each mode of operation and in each control configuration (hand, auto, off, etc.)
- Project Closeout Support
 - Compliance review of warranty-related items.
 - Validation of contract compliance.
 - Assist District in the Substantial and Final Completion processes by participating in the site walks, documenting site conditions and developing project completion punch lists.
- As-Needed Services
 - Provide additional services as need and as requested by the District.

Deliverables:

- Weekly field observation reports.
- Substantial and Final Completion punch lists in electronic format.

Assumptions:

- Project construction duration is assumed to be 12 months. Full time site observation is not being provided. Level of effort assumes 200 Site Visits each by Project Engineer and Staff Engineer (2 hour each visit plus 1 hour reporting.)
- WSC is not responsible for any permitting fees, notice filing, or other direct project costs.
- Project meeting minutes, submittal and RFI logs, and other administrative efforts are being provided by the PDB team.
- WSC will participate in the PDB's safety program while onsite and is not responsible for overall site safety or security but will report any unsafe condition observed to the PDB and District while onsite.
- Scope of work and the level of effort for materials testing are estimated and final scope and costs are subject to change due to field conditions encountered during construction, and the number of tests required.

EXHIBIT A



- WSC's scope does not include survey verification, CAD work, or development of final project record drawings.

In addition to the above scope items, WSC is able to provide the following optional services if requested.

Optional Task 1 Independent Cost Estimate at the GMP

Provide, through a subcontracted consultant, an independent project cost estimate to verify the PDB's GMP.

Optional Task 2 RFI and Submittal Oversight

With this optional task, the Consultant would provide either or both of the following:

- Oversight of the RFI process during the construction phase to verify that the PDBe's responses are consistent with the approved Phase 2 scope and intervene where construction issues could compromise project quality or functionality. Estimate assumes there will be 10 RFIs reviewed at 3 hours each, with limited support by the Senior technical advisor.
- Independent spot-checking of submittals against the approved design documents, coordinate review or material substitutions, facilitate review of submittals with O&M representatives for select materials and equipment (to be identified prior to construction). Estimate assumes spot-checking of 15 submittals at 1 hour each, with limited support by the Senior technical advisor.

Optional Task 3 Prevailing Wage Compliance

As required by the California Department of Industrial Relations (DIR), The District will be responsible for filing an electronic PWC-100 form within five days of awarding the contract. Review the PDB's registration with DIR for compliance monitoring and confirm certified payroll is submitted monthly in conformance with the Labor Code. Assumes up to 20 months of payroll conformance review.

Task No. Task Description	WSC										Testing	Professional	ALL FIRMS
	OA Technical Advisor	PIC	Project Manager, Project Engineer	Grant Assistance	Staff Engineer	Admin/Clerical	WSC Labor Hours	WSC Labor Fee	Expenses	WSC Fee	Labor Fee	Labor Fee	Total Fee
	Dylan Wade	Rob Natoli	Peter Kvam	Justin Sutton	Michelle Heinrichs	Roxanne Collins							
<i>Billing rates, \$/hr</i>	\$366	\$322	\$230	\$230	\$230	\$179							
0 Project Management													
0.1 Project Administration	8		34			20	62	\$ 14,328	\$ -	\$ 14,328			\$ 14,328
0.2 Meetings and Workshops	40		59		3		102	\$ 28,900	\$ -	\$ 28,900			\$ 28,900
0.3 Quality Management	4		6				10	\$ 2,844	\$ -	\$ 2,844			\$ 2,844
0.4 Change Order and Risk Management	8		26				34	\$ 8,908	\$ -	\$ 8,908			\$ 8,908
SUBTOTAL	60	0	125	0	3	20	208	\$ 54,980	\$ -	\$ 54,980	\$ -	\$ -	\$ 54,980
1 Phase 1 - Design, Permitting, and Procurement Support													
1.1 Base Services	16		32				48	\$ 13,216	\$ -	\$ 13,216			\$ 13,216
1.2 Teaming Sessions	6		6				12	\$ 3,576	\$ -	\$ 3,576			\$ 3,576
1.3 Field Investigation Support	2		12				14	\$ 3,492	\$ -	\$ 3,492			\$ 3,492
1.4 Environmental Coordination and MMRP Support	2		12	3			17	\$ 4,182	\$ -	\$ 4,182			\$ 4,182
1.5 Permitting Support	4		12				16	\$ 4,224	\$ -	\$ 4,224			\$ 4,224
1.6 Technical Reviews and Support	18	18	96				132	\$ 34,464	\$ -	\$ 34,464		\$ 7,425	\$ 41,889
1.7 Monitoring and Procurement Support	6		24				30	\$ 7,716	\$ -	\$ 7,716			\$ 7,716
1.8 GMP Review and Negotiations	16		28				44	\$ 12,296	\$ 1,000	\$ 13,296		\$ 4,400	\$ 17,696
SUBTOTAL	70	18	222	3	0	0	313	\$ 83,166	\$ 1,000	\$ 84,166	\$ -	\$ 11,825	\$ 95,991
2 Phase 2 - Engineering and Technical Assistance													
2.1 Design Submittal Review	4		16				20	\$ 5,144	\$ -	\$ 5,144		\$ 3,960	\$ 9,104
2.2 Contract Administration	10		28				38	\$ 10,100	\$ -	\$ 10,100			\$ 10,100
2.3 Field Services	12		600		600		1212	\$ 280,392	\$ 5,000	\$ 285,392			\$ 285,392
2.4 Payment Application and Grant Support	2		80	18			100	\$ 23,272	\$ -	\$ 23,272			\$ 23,272
2.5 Quality Assurance			8		12		20	\$ 4,600	\$ -	\$ 4,600	\$ 8,800		\$ 13,400
2.6 Monitoring Support	4		4				8	\$ 2,384	\$ -	\$ 2,384			\$ 2,384
2.7 Permitting Support	4		12				16	\$ 4,224	\$ -	\$ 4,224			\$ 4,224
2.8 Commissioning and Start-Up	16		96				112	\$ 27,936	\$ -	\$ 27,936			\$ 27,936
2.9 Project Closeout Support	4		10		4		18	\$ 4,684	\$ -	\$ 4,684			\$ 4,684
2.10 As-Needed Services	2		12		12		26	\$ 6,252	\$ -	\$ 6,252			\$ 6,252
SUBTOTAL	58	0	866	18	628	0	1570	\$ 368,988	\$ 5,000	\$ 373,988	\$ 8,800	\$ 3,960	\$ 386,748
COLUMN TOTALS	188	18	1213	21	631	20	2091	\$ 507,134	\$ 6,000	\$ 513,134	\$ 8,800	\$ 15,785	\$ 537,719
OT 1 OT1 - Independent Cost Estimate													
OT 1.1 Independent Cost Estimate	2		36				38	\$ 9,012	\$ -	\$ 9,012		\$ 26,400	\$ 35,412
OT1 - Independent Cost Estimate TOTAL	2	0	36	0	0	0	38	\$ 9,012	\$ -	\$ 9,012	\$ -	\$ 26,400	\$ 35,412
OT 2 OT2 - RFI and Submittal Oversight													
OT 2.1 RFI and Submittal Oversight	8		45				53	\$ 13,278	\$ -	\$ 13,278			\$ 13,278
OT2 - RFI and Submittal Oversight TOTAL	8	0	45	0	0	0	53	\$ 13,278	\$ -	\$ 13,278	\$ -	\$ -	\$ 13,278
OT 3 OT3 - Prevailing Wage Compliance													
OT 3.1 Prevailing Wage Compliance	2		24				26	\$ 6,252	\$ -	\$ 6,252			\$ 6,252
OT3 - Prevailing Wage Compliance TOTAL	2	0	24	0	0	0	26	\$ 6,252	\$ -	\$ 6,252	\$ -	\$ -	\$ 6,252
OPTIONAL TASKS TOTAL	12	0	105	0	0	0	117	\$ 28,542	\$ -	\$ 28,542	\$ -	\$ 26,400	\$ 54,942

10% mark-up on direct expenses and subcontractors.

Standard mileage rate \$0.70 per mile (or current Federal Mileage Reimbursement Rate)

Rates are subject to revision as of January 1 each year.

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Topic: FY 25-26 Salary Adjustment and Salary Schedule

Date: August 9, 2025

Item For: Action

Submitted By: Cathy Lee, General Manager

BACKGROUND

District Policy 4040: Salary Range – Performance Step Program states:

“Every three (3) years, the Salary and Benefit survey will be reviewed and new averages calculated using the following agencies: Citrus Heights Water District, City of Folsom, City of Roseville, City of Sacramento, El Dorado Irrigation District, Elk Grove Water Service, Fair Oaks Water District, Placer County Water Agency, Sacramento County, Sacramento Suburban Water District, and San Juan Water District. Results of this exercise may result in adjustments in the salary ranges”.

The last salary survey was conducted in 2022 and the District is contracting with Bryce Consulting Inc. again to conduct a new salary survey. Additionally, the Board approved a 3% cost of living adjustment (COLA) to be implemented as part of the salary survey.

SUMMARY/DISCUSSION

The 2025 salary survey used the District's FY 24-25 salary schedule as the base data. Table 1 shows the survey classification and the FY 24-25 salary data in columns 1 and 2. There are comparable job classifications with the comparative agencies except of the Business Operations Specialist position. This position is unique to District and a professional/senior level classification with advanced data review and analytical abilities, budget development and management, and regulatory compliance review and reporting. With the advanced technical ability, this classification can be utilized in either Finance or Engineering department. As such, there are no comparable data for this classification.

Cost of Living Adjustment (COLA) – 3%

As stated above, the Board approved a 3% COLA in February 2025 to be implemented as part of the salary survey. The current (FY 24-25) base salary and the salary after 3% adjustment are listed in the table below. The Board approved a new contribution amount for health insurance for the represented employees last month and the same contribution is used for all classifications to calculate a new total compensation and a comparison with a 62.5 percentile labor market. With the COLA increases, almost all positions are within the 62.5 percentile with two positions being more than 5% higher as outlined below.

- Billing Supervisor: The Billing Supervisor position is 7.1% higher than the surrounding agencies with 5 comparable agencies. Staff recommends removing the lower three steps and keeping a five step salary schedule in line with all other positions and be in compliance with CalPERS guidance.
- Distribution Superintendent: The Distribution Superintendent position appears to be 8.3% higher than the 6 surrounding comparable agencies. The position received additional two steps, for a total of 7 steps, in an effort to retain and competitively recruit a new employee. The two highest

steps expired in June 30, 2025 and staff recommends to keep the higher 2 steps and remove the lower two steps consistent with all other positions.

 Summary and Comparison for 62.5th Percentile

Survey Classification	Current FY 24-25 Maximum Base Salary	62.5th Percentile					
		Base Salary			Total Compensation		
	Maximum Base Salary include 3% COLA	Labor Market 62.5th percentile	% Carmichael Water District Is Above or Below Labor Market 62.5th	Total Compensation with COLA & New Ins Contribution	Labor Market 62.5th percentile Total Compensation	% Carmichael Water District Is Above or Below Labor Market 62.5th	
Administrative Specialist II	\$9,434	\$9,717	\$9,884	-1.72%	\$13,481	\$13,368	0.84%
Billing Specialist II	\$6,440	\$6,633	\$6,416	3.28%	\$10,152	\$9,729	4.16%
Billing Supervisor	\$9,181	\$9,456	\$8,777	7.19%	\$13,201	\$12,264	7.09%
Business Operations Specialist	\$9,181	\$9,456	No good comp data	27.57%	\$13,201	No good comp data	24.58%
Distribution Operator II	\$7,441	\$7,664	\$7,806	-1.85%	\$11,267	\$10,951	2.81%
Distribution Operator III	\$8,426	\$8,679	\$9,019	-3.92%	\$12,363	\$12,376	-0.10%
Distribution Superintendent	\$13,357	\$13,758	\$12,858	6.54%	\$17,831	\$16,360	8.25%
Engineer-Associate Civil	\$11,787	\$12,141	\$12,153	-0.10%	\$16,090	\$15,924	1.03%
Engineering Manager	\$17,510	\$18,035	\$17,758	1.54%	\$22,227	\$22,050	0.80%
Finance Manager	\$15,430	\$15,893	\$16,449	-3.50%	\$20,054	\$20,673	-3.09%
General Manager	\$20,231	\$20,231	\$25,395	-25.53%	\$24,455	\$29,914	-22.32%
GIS Specialist	\$7,855	\$8,091	\$7,937	1.90%	\$11,729	\$11,358	3.16%
Production Superintendent	\$13,707	\$14,118	\$15,611	-10.58%	\$18,219	\$19,601	-7.59%
Senior Accountant	\$9,048	\$9,319	\$8,975	3.69%	\$13,053	\$12,487	4.33%
Treatment Operator II	\$7,359	\$7,580	\$8,013	-5.71%	\$11,176	\$11,266	-0.81%
Treatment Operator III	\$8,539	\$8,795	\$8,999	-2.32%	\$12,489	\$12,082	3.25%
Treatment Operator IV	\$9,956	\$10,255	\$10,046	2.03%	\$14,060	\$13,925	0.96%
Water Efficiency Specialist II	\$7,388	\$7,610	\$7,524	1.13%	\$11,208	\$10,904	2.72%
					Average	1.74%	

With the COLA, the District's total compensation is on average 1.74% higher than the 62.5th percentile with a few positions that are lower as highlighted in the table and they are discussed below. A copy of the District's organizational chart, Attachment 2. A summary comparison of 3% versus 5% COLA compared to 65.5th percentile market comparison is in Attachment 1.

Pay Parity / Equity Adjustment

The positions below the 62.5th percentile are Distribution Operators, Treatment Operators, Finance Manager, and Production Operators.

- Distribution and Treatment Operators: After 3% COLA, the operator classifications are still generally below the 62.5th percentile. The negotiations resulted in a 2% additional adjustment for all operators to be within 5% of 62.5th percentile. The Board approved the contract/Memorandum of Understanding (MOU) last month.

Survey Classification	Total Compensation with COLA & New Ins Contribution	Labor Market 62.5th percentile Total Compensation	% Carmichael Water District Is Above or Below Labor Market 62.5th	Additional Adjustment (2%)	New % Above or Below Labor Market 62.5th percentile
Distribution Operator II	\$11,267	\$10,951	2.81%	\$11,429	4.36%
Distribution Operator III	\$12,363	\$12,376	-0.10%	\$12,545	1.36%
Treatment Operator II	\$11,176	\$11,266	-0.81%	\$11,335	0.61%
Treatment Operator III	\$12,489	\$12,082	3.25%	\$12,673	4.88%
Treatment Operator IV	\$14,060	\$13,925	0.96%	\$14,274	2.51%

- Finance Manager and Production Superintendent: The compensations for these two positions are lower than the surrounding agencies even after COLA. Staff recommends an additional 5% salary adjustment for these two positions bringing the Finance Manager position to 0.8% above the 62.5 percentile while the Production Superintendent is 3.3% lower than the 62.5 percentile. The Production Superintendent position in comparative agencies have T5 licensure while CWD requires only T4.

Survey Classification	Total Compensation with COLA & New Ins Contribution	Labor Market 62.5th percentile Total Compensation	% Carmichael Water District Is Above or Below Labor Market 62.5th	Additional Adjustment	New % Above or Below Labor Market 62.5th percentile
Finance Manager	\$20,054	\$20,673	-3.09%	\$20,837	0.79%
Production Superintendent	\$18,219	\$19,601	-7.59%	\$18,949	-3.33%

These changes are reflected in the draft FY 25-26 Salary Schedule, in Attachment 3.

As discussed with the Board last month, part of the total compensation review includes a review of the medical insurance contribution by the employers. The proposed annual medical insurance coverage would be 95% of the average premium costs of five plans in CalPERS's Sacramento Area Region plans: Blue Shield Access+ HMO, Blue Shield Trio HMO, Kaiser Permanente, PERS Gold, and Western Health Advantage. The average of five plans would reduce large premium increases and employees would require employees to cost share part of their medical insurance benefits. Based on the proposed rates for 2026 CalPERS Sacramento Area Region, staff recommends that the maximum family contribution by CWD is \$2,830 with expected contribution of \$1,089 for single person and \$2,177 for 2-party coverage. Revised medical insurance contribution for Policy 6000: Health and Welfare Benefits is attached in Attachment 5.

Additionally, the negotiation with AFSCME resulted in a vacation "cash out" provision, which states that CWD will allow a represented employee to cash out up to 80 hours of accrued vacation leave in the first pay period in December, requiring an employee to maintain a minimum of 100 hours of accrued vacation following the cash out. Currently CWD's Policy 5030: Vacation allows for a vacation accrual up to 300 hours. This cash out provision would decrease CWD's financial liability when employees have a lower vacation balance as a whole. Another adjustment is the vacation leave accrual rate for years of continuous employment. The table is updated so the increase in vacation accrual is consistent at every 5-year interval, including the first year of employment (0 year) and a maximum accrual starting at 20th year. If approved by the Board, staff will bring back CWD Policy 5030: Vacation next month, as shown in Attachment 4.

FINANCIAL IMPACT

With the Board's approved 3% COLA applied to all positions, wages increased an estimated additional \$87,000 for the FY 25-26 Budget, of which \$59,000 is attributed to unrepresented employees and \$28,000 is attributed to represented employees. For each 1% wage increase, unrepresented employees' regular salary increase by \$19,700 annually while represented employees' regular salary increase is about \$9,350.

The FY 25-26 Budget included an overall \$263,000 increase compared to FY 24-25 based on estimated step increase and staffing changes. The additional 3% COLA increase (\$87,000) brings the total FY 25-26 Budget increase to \$350,000.

With the Board's approval of represented employees' 2% pay parity, regular wages for represented employees increased by additional \$18,700.

The medical premium increase for all employees based on the adopted MOU is approximately 9%, adding an estimated \$60,000 to the medical premium cost for active employees over the prior year. The FY 25-26 Budget included a 10% increase, based on current enrollments as of June 30, 2025.

RECOMMENDATION

Staff recommends that the Board of Directors approve 1) 3% COLA to all employees, 2) 5% pay parity increase to Finance Manager and Production Superintendent positions, 3) FY 25-26 salary schedule, 4) Resolution 08182025-02, A Resolution Adopting the Carmichael Water District Fiscal Year 2025-2026 Salary Schedule, and 5) Resolution 08182025-03 - A Resolution Amending the Districts' Policy 5030 Vacation and Policy 6000 – Health and Welfare Benefits.

ATTACHMENT(S)

1. 3% COLA vs 5% COLA Summary and Comparison Tables to 62.5th Percentile
2. Organizational Chart
3. Draft FY 25-26 salary schedule
4. Updated Policy 5030: Vacation
5. Updated Policy 6000 – Health and Welfare Benefits
6. Resolution 08182025-02 - A Resolution Adopting the Carmichael Water District Fiscal Year 2025-2026 Salary Schedule
7. Resolution 08182025-03 – A Resolution Amending the Districts' Policy 5030 Vacation and Policy 6000 – Health and Welfare Benefits

3% Cost of Living Adjustment

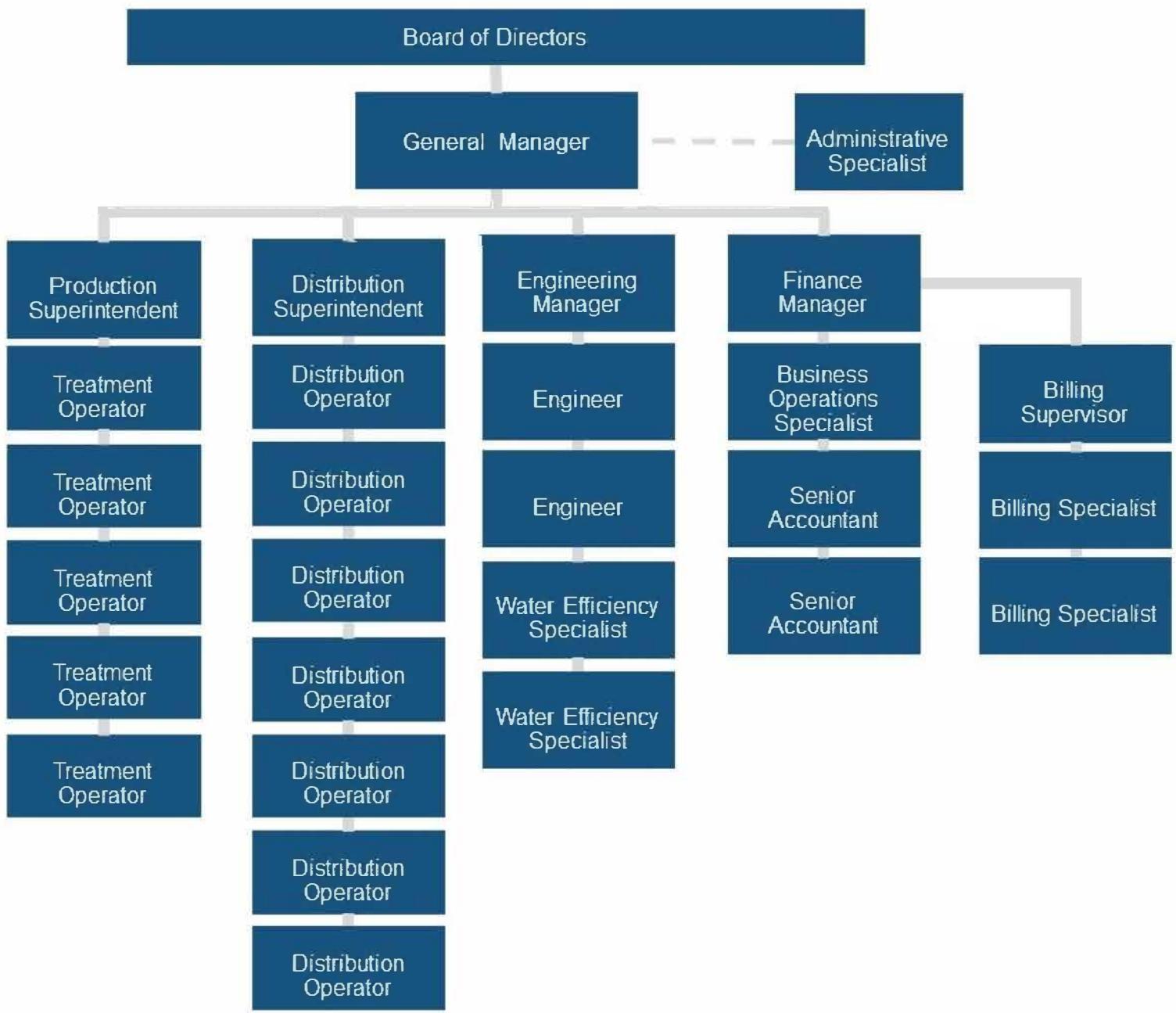
Survey Classification	Current FY 24-25 Maximum Base Salary	62.5th Percentile						
		Base Salary			Total Compensation			
		Maximum Base Salary include 3% COLA	Labor Market 62.5th percentile	Water District Is Above or Below Labor Market 62.5th	% Carmichael	Total Compensation with COLA & New Ins Contribution	Labor Market 62.5th percentile	Total Compensation
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Engineering Manager	\$17,510	\$18,035	\$17,758	1.54%	\$22,227	\$22,050	0.80%	
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Production Superintendent	\$13,707	\$14,118	\$15,611	-10.58%	\$18,219	\$19,601	-7.59%	
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Water Efficiency Specialist II	\$7,388	\$7,610	\$7,524	1.13%	\$11,208	\$10,904	2.72%	
					Average		1.74%	

5% Cost of Living Adjustment

Survey Classification	Current FY 24-25 Maximum Base Salary	62.5th Percentile						
		Base Salary			Total Compensation			
		Current FY 24-25 Maximum Base Salary	Current FY 24-25 Max Base Salary + 5%	Labor Market 62.5th percentile	Total Compensation with COLA & New Ins Contribution	Labor Market 62.5th percentile	Total Compensation	% Carmichael
Administrative Specialist II	\$9,434	\$9,906	\$9,884	\$13,684	\$13,368		2.36%	
Billing Specialist II	\$6,440	\$6,762	\$6,416	\$10,291	\$9,729		5.77%	
Billing Supervisor	\$9,181	\$9,640	\$8,777	\$13,398	\$12,264		9.25%	
Business Operations Specialist	\$9,181	\$9,640	No good comp data	\$13,398	No good comp data		24.58%	
Distribution Operator II	\$7,441	\$7,813	\$7,806	\$11,429	\$10,951		4.36%	
Distribution Operator III	\$8,426	\$8,847	\$9,019	\$12,545	\$12,376		1.36%	
Distribution Superintendent	\$13,357	\$14,025	\$12,858	\$18,118	\$16,360		10.75%	
Engineer-Associate Civil	\$11,787	\$12,376	\$12,153	\$16,344	\$15,924		2.64%	
Engineering Manager	\$17,510	\$18,386	\$17,758	\$22,583	\$22,050		2.42%	
Finance Manager	\$15,430	\$16,202	\$16,449	\$20,367	\$20,673		-1.48%	
General Manager	\$20,231	\$21,243	\$25,395	\$25,481	\$29,914		-14.82%	
GIS Specialist	\$7,855	\$8,248	\$7,937	\$11,899	\$11,358		4.76%	
Production Superintendent	\$13,707	\$14,392	\$15,611	\$18,514	\$19,601		-5.54%	
Senior Accountant	\$9,048	\$9,500	\$8,975	\$13,248	\$12,487		6.09%	
Treatment Operator II	\$7,359	\$7,727	\$8,013	\$11,335	\$11,266		0.61%	
Treatment Operator III	\$8,539	\$8,966	\$8,999	\$12,673	\$12,082		4.88%	
Treatment Operator IV	\$9,956	\$10,454	\$10,046	\$14,274	\$13,925		2.51%	
Water Efficiency Specialist II	\$7,388	\$7,757	\$7,524	\$11,368	\$10,904		4.26%	
					Average		3.44%	

Average percentage at the bottom of tables denotes average percentage above (or below) 62.5th percentile.

Attachment 2



Attachment 3

Carmichael Water District
Draft Salary Schedule
FY2025-26

NON-REPRESENTED EMPLOYEES						
Non-Exempt		Step 1	Step 2	Step 3	Step 4	Step 5
Accountant	Hourly	37,3482	39,2156	41,1764	43,2352	45,3970
	Monthly	6,473.69	6,797.37	7,137.24	7,494.10	7,868.81
	Yearly	77,684.26	81,568.45	85,646.91	89,929.22	94,425.76
Accountant, Senior	Hourly	44,2313	46,4429	48,7650	51,2033	53,7635
	Monthly	7,666.76	8,050.10	8,452.60	8,875.24	9,319.01
	Yearly	92,001.10	96,601.23	101,431.20	106,502.86	111,828.08
Billing Specialist 1	Hourly	24,8208	26,0618	27,3649	28,7331	30,1698
	Monthly	4,302.27	4,517.38	4,743.25	4,980.40	5,229.43
	Yearly	51,627.26	54,208.54	56,918.99	59,764.85	62,753.18
Billing Specialist 2	Hourly	31,4841	33,0583	34,7112	36,4468	38,2691
	Monthly	5,457.24	5,730.11	6,016.61	6,317.45	6,633.31
	Yearly	65,486.93	68,761.26	72,199.30	75,809.34	79,599.73
Engineer in Training	Hourly	34,5114	36,2370	38,0489	39,9513	41,9489
	Monthly	5,981.98	6,281.08	6,595.14	6,924.89	7,271.14
	Yearly	71,783.71	75,372.96	79,141.71	83,098.70	87,253.71
Engineer, Assistant	Hourly	48,6583	51,0912	53,6458	56,3281	59,1445
	Monthly	8,434.11	8,855.81	9,298.61	9,763.54	10,251.71
	Yearly	101,209.26	106,269.70	111,583.26	117,162.45	123,020.56
Engineer, Associate Civil	Hourly	57,6220	60,5031	63,5283	66,7047	70,0399
	Monthly	9,987.81	10,487.20	11,011.57	11,562.15	12,140.25
	Yearly	119,853.76	125,846.45	132,138.86	138,745.78	145,682.99
GIS Specialist	Hourly	38,4034	40,3236	42,3398	44,4568	46,6796
	Monthly	6,656.59	6,989.42	7,338.90	7,705.85	8,091.13
	Yearly	79,879.07	83,873.09	88,066.78	92,470.14	97,093.57
Water Efficiency Specialist 1	Hourly	28,5609	29,9889	31,4883	33,0627	34,7158
	Monthly	4,950.56	5,198.08	5,457.97	5,730.87	6,017.41
	Yearly	59,406.67	62,376.91	65,495.66	68,770.42	72,208.86
Water Efficiency Specialist 2	Hourly	36,1184	37,9243	39,8205	41,8115	43,9021
	Monthly	6,260.52	6,573.55	6,902.22	7,247.33	7,609.70
	Yearly	75,126.27	78,882.54	82,826.64	86,967.92	91,316.37

NON-REPRESENTED EMPLOYEES						
Exempt		Step 1	Step 2	Step 3	Step 4	Step 5
Administrative Specialist 1	Hourly	37,4863	39,3606	41,3286	43,3950	45,5648
	Monthly	6,497.63	6,822.50	7,163.62	7,521.80	7,897.90
	Yearly	77,971.50	81,870.05	85,963.49	90,261.60	94,774.78
Administrative Specialist 2	Hourly	46,1195	48,4255	50,8468	53,3891	56,0586
	Monthly	7,994.05	8,393.75	8,813.45	9,254.11	9,716.82
	Yearly	95,928.56	100,725.04	105,761.34	111,049.33	116,601.89
Billing Supervisor	Hourly	44,8849	47,1291	49,4856	51,9599	54,5579
	Monthly	7,780.05	8,169.04	8,577.50	9,006.38	9,456.70
	Yearly	93,360.59	98,028.53	102,930.05	108,076.59	113,480.43
Business Operations Specialist	Hourly	44,8849	47,1291	49,4856	51,9599	54,5579
	Monthly	7,780.05	8,169.04	8,577.50	9,006.38	9,456.70
	Yearly	93,360.59	98,028.53	102,930.05	108,076.59	113,480.43
Distribution Superintendent	Hourly	65,3008	68,5658	71,9941	75,5938	79,3735
	Monthly	11,318.81	11,884.74	12,478.98	13,102.93	13,758.07
	Yearly	135,825.66	142,616.86	149,747.73	157,235.10	165,096.88
Engineer, Manager	Hourly	85,6008	89,8808	94,3748	99,0935	104,0482
	Monthly	14,837.47	15,579.34	16,358.30	17,176.21	18,035.02
	Yearly	178,049.66	186,952.06	196,299.58	206,114.48	216,420.26
Engineer, Senior	Hourly	66,9410	70,2881	73,8025	77,4926	81,3672
	Monthly	11,603.11	12,183.27	12,792.43	13,432.05	14,103.65
	Yearly	139,237.28	146,199.25	153,509.20	161,184.61	169,243.78
Finance Manager	Hourly	79,0938	83,0485	87,2009	91,5609	96,1389
	Monthly	13,709.59	14,395.07	15,114.82	15,870.56	16,664.08
	Yearly	164,515.10	172,740.88	181,377.87	190,446.67	199,968.91
I.T. Coordinator	Hourly	50,5585	53,0864	55,7407	58,5277	61,4541
	Monthly	8,763.47	9,201.64	9,661.72	10,144.80	10,652.04
	Yearly	105,161.68	110,419.71	115,940.66	121,737.62	127,824.53
Production Superintendent	Hourly	70,2616	73,7747	77,4634	81,3366	85,4034
	Monthly	12,178.68	12,787.62	13,426.99	14,098.34	14,803.26
	Yearly	146,144.13	153,451.38	161,123.87	169,180.13	177,639.07
General Manager (Contract)	Hourly	116,7187	N/A	N/A	N/A	N/A
Effective: January 17, 2024	Monthly	20,231.24	N/A	N/A	N/A	N/A
	Yearly	242,774.90	N/A	N/A	N/A	N/A

REPRESENTED EMPLOYEES						
Distribution		Step 1	Step 2	Step 3	Step 4	Step 5
Distribution Operator 1	Hourly	25,5889	26,6552	27,7658	28,9227	
	Monthly	4,435.41	4,620.24	4,812.74	5,013.27	
	Yearly	53,224.91	55,442.82	57,752.86	60,159.22	
Distribution Operator 2	Hourly	39,8794	41,5412	43,2719	45,0749	
	Monthly	6,912.43	7,200.48	7,500.46	7,812.98	
	Yearly	82,949.15	86,405.70	90,005.55	93,755.79	
Distribution Operator 3	Hourly	45,1601	47,0418	49,0018	51,0435	
	Monthly	7,827.75	8,153.91	8,493.65	8,847.54	
	Yearly	93,933.01	97,846.94	101,923.74	106,170.48	
Production		Step 1	Step 2	Step 3	Step 4	Step 5
Treatment Operator 1	Hourly	N/A	N/A	N/A	N/A	
	Monthly	N/A	N/A	N/A	N/A	
	Yearly	N/A	N/A	N/A	N/A	
Treatment Operator 2	Hourly	39,4399	41,0831	42,7950	44,5781	
	Monthly	6,836.25	7,121.07	7,417.80	7,726.87	
	Yearly	82,034.99	85,452.85	89,013.60	92,722.45	
Treatment Operator 3	Hourly	45,7623	47,6691	49,6552	51,7242	
	Monthly	7,932.13	8,262.64	8,606.90	8,965.53	
	Yearly	95,185.58	99,151.73	103,282.82	107,586.34	
Treatment Operator 4	Hourly	53,3612	55,5846	57,9006	60,3132	
	Monthly	9,249.28	9,634.66	10,036.10	10,454.29	
	Yearly	110,991.30	115,615.97	120,433.25	125,451.46	

Note: Monthly and Yearly Salaries are the average based on 2080 hours.

Exempt/Management Hourly Range = Yearly Range / 2080 hours.

Represented Employees' COLA was applied to each step for FY 25-26.

NOTE: Minimum wage increased to \$18 1/1/2026

**CARMICHAEL WATER DISTRICT
POLICY MANUAL**

POLICY 5030: Vacation

5030.10 This policy shall apply to all full time regular employees.

5030.20 Vacation leave shall accrue per pay period, commencing with the initial date of employment, at the following rate:

	<u>Years of Continuous Employment</u>	<u>Annual Vacation</u>	<u>Hours Accrued Per Pay Period</u>
5030.20.1	0 through 4	12	3.70
5030.20.2	5 through 9	15	4.62
5030.20.3	10 through 14	18	5.54
5030.20.4	15 through 19	22	6.77
5030.20.5	20 +	25	7.70

5030.20.1 Probationary employees may accrue, but not utilize, vacation during the first six (6) months of employment unless otherwise required by federal, state, or local laws.

5030.30 A maximum of three hundred (300) hours of vacation will be allowed to accrue. Additional vacation will not accrue beyond this limit. However, in recognition of unforeseen events and circumstances, as approved by the General Manager, vacation may be allowed to accrue beyond the limit of three hundred (300) hours. The only exception to the foregoing will be when it has been determined in advance that taking a vacation at the time requested will be a hardship on Carmichael Water District (District). In such an event, and with the advance approval of the General Manager, the accrued vacation will be rescheduled at a mutually agreeable date. Then, with the General Manager's advance approval, vacation may be carried over until such time that it can be taken. The General Manager is to use administrative judgment in the handling of situations where employee's accumulation exceeds established limits.

5030.40 Vacation schedules will be arranged as early as possible each year. The District will endeavor to grant vacations as requested, subject, however, to the right of the District to schedule or assign vacations in accordance with operating needs.

5030.50 An employee who becomes ill while on vacation and desires to claim sick leave, rather than vacation leave as scheduled, shall make such a request as soon as possible after the hour on which they desire sick leave compensation to begin. The District may require, without prejudice, a health care provider's note for any period of sick leave requested while on vacation.

5030.60 At termination of employment for any reason, the District shall compensate the employee for their accumulated vacation time at their straight time rate of pay at the time of termination.

**CARMICHAEL WATER DISTRICT
POLICY MANUAL**

5030.70 The District will not require an employee to take vacation time in lieu of sick leave or leave of absence during periods of illness. However, the employee may elect to take vacation time in the case of extended illness (absence of five [5] or more working days) where sick leave has been fully used.

5030.80 Vacation benefits shall not accrue during layoff, a leave of absence without pay or any other unpaid absence (i.e., disability, workers compensation, etc.) but accrued vacation shall not be lost.

5030.90 If a holiday falls on a work day during an employee's vacation period, that day shall be considered as a paid holiday and not vacation time.

5030.100 Vacations are provided by the District to employees as a period of exemption from work with pay for the purpose of rest, relaxation and recreation. This respite is a benefit and is intended as an aid in maintaining the long-term and consistent productivity and contentment of the employee. Notwithstanding the above, the District, at the discretion of the General Manager, will allow an employee to cash out up to 80 hours of accrued vacation leave in the first pay period of December where the employee has a minimum level of 100 hours of accrued vacation leave remaining following the cashout.

5030.110 Payment of vacation hours:

Vacation leave occurring on scheduled work days is charged at a rate not to exceed eight (8) hours for regular full time employees. The only exception to this will be an approved group who works a four (4) ten (10) hour work week is at a rate not to exceed ten (10) hours on scheduled work days.

5030.110.1 Example: If an employee works 8:00 a.m. – 2:00 p.m. and took a half ($\frac{1}{2}$) hour lunch and has scheduled vacation leave at 2:00 p.m., that employee would record five and one half ($5\frac{1}{2}$) hours worked (regular hours) and two and one half ($2\frac{1}{2}$) hours vacation leave on their timesheet for a maximum eight (8) hours total for that day.

5030.110.2 Example: If an employee works 7:00 a.m. – 11:00 a.m. and has a scheduled vacation leave at 11:00 a.m., that employee would record four (4) hours worked (regular hours) and four (4) hours vacation leave on their timesheet for a maximum eight (8) hours total for that day.

**CARMICHAEL WATER DISTRICT
POLICY MANUAL**

POLICY 6000: Health and Welfare Benefits

6000.10 Medical Insurance Expense

Medical insurance to cover non-occupational injuries and sickness for all full time regular employees and their eligible dependents, as defined by the California Public Employees' Retirement System (CalPERS), shall be provided by Carmichael Water District (District). The District also provides dental, vision, life and long term disability insurance for full time regular employees. The waiting periods vary for each plan and will be discussed with new employees during their orientation. The scope of coverage and the payment of premiums are subject to periodic review and revision by the Board of Directors.

6000.10.1 Medical Insurance

Medical insurance is provided through CalPERS. The District pays the premium for the employee and eligible dependents up to the Blue Shield Access Plus – Region 1 rate for each employee's particular rate plan (i.e. single, two-party, family), inclusive of the minimum statutory PEMHCA contribution.

Beginning in December 2022 for premiums applied to January 2023 coverage, the District will contribute monthly the premium costs of an eligible employee's elected medical coverage (employee only, employee + one dependent, or employee and 2+ dependents (family coverage)), not to exceed the cost of Blue Shield Trio Sacramento Area Region for the employee's elected coverage level, inclusive of the minimum statutory PEMHCA contribution.

Beginning in December 2023 for premiums applied to January 2024 coverage, the District will contribute monthly the premium costs of an eligible employee's elected medical coverage (employee only, employee + one dependent, or employee and 2+ dependents (family coverage)) at a level based on an increase of six percent (6%) from the 2023 Blue Shield Trio Sacramento Area Region premiums, inclusive of the minimum statutory PEMHCA contribution.

Beginning in December 2024 for premiums applied to January 2025, the District will contribute monthly the premium costs of an eligible employee's elected medical coverage (employee only, employee + one dependent, or employee and 2+ dependents (family coverage)) at a level based on an increase of six percent (6%) from the District's premium contribution in the previous year.

Beginning in December 2025 for premiums applied to January 2026, and in each subsequent year, the District will contribute monthly ninety-five percent (95%) of the average premium costs of an eligible employee's elected medical coverage (employee only, employee + one dependent, or employee and 2+ dependents (family coverage)) from the following CalPERS Health Sacramento Area Region plans: Blue Shield Access + HMO, Blue Shield Trio HMO, Kaiser Permanente, PERS Gold, and Western Health Advantage, inclusive of the minimum statutory PEMHCA contribution.

CARMICHAEL WATER DISTRICT POLICY MANUAL

6000.10.1.1 If the premium for the plan selected by an employee exceeds the maximum premium provided for in this policy, the employee is responsible for paying any excess premium amount. The employee's share of the premium will be deducted from the employee's paycheck.

6000.10.1.2 If an employee can establish to the District that they have qualifying group medical insurance through a spouse, domestic partner, or another source, the employee can opt-out of the District's medical insurance coverage and will receive \$400 per month in lieu of medical insurance coverage. Qualifying group health coverage includes health coverage that provides minimum value as established by the federal Affordable Care Act (ACA), but does not include individual coverage such as TRICARE, Medicare, Medi-Cal and Covered California.

6000.10.2 Dental Insurance

Dental insurance is provided through the Association of California Water Agencies Joint Powers Insurance Authority (ACWA JPIA). The District pays the premium for each employee and eligible dependents.

6000.10.3 Vision Insurance

Vision insurance is provided through ACWA JPIA. The District pays the premium for each employee and eligible dependents.

6000.10.4 Employee Assistance Program (EAP)

EAP is provided through the ACWA JPIA. The District pays the premium for each employee and eligible dependents.

6000.10.5 Continuation of Coverage

In accordance with state and federal law, an employee has the right to continue certain health benefits for limited periods of time after termination of employment.

6000.20 Workers' Compensation Insurance

All District employees will be insured against injuries received while on the job as required by State law.

6000.30 Medicare Eligibility

The employee is individually responsible to enroll and/or defer with Medicare within the applicable timeframes as required by the United States Social Security Administration.

6000.40 Retiree Medical Benefits

The District will provide medical coverage for Retirees and eligible family members based on the CalPERS medical benefits vesting schedule.

6000.40.1 Coordination of Benefits

The retired employee is responsible to coordinate all retirement and retiree medical benefits with CalPERS within the applicable timeframes and contract requirements.

CARMICHAEL WATER DISTRICT POLICY MANUAL

6000.50 Life Insurance

Life insurance is provided through Mutual of Omaha.

6000.50.1 Basic Life/AD&D Insurance

The District pays the premium for each employee's Basic Life/AD&D. The amount of the Basic Life/AD&D benefit is equal to two (2) times the employee's annual base earnings up to a maximum benefit of two hundred thousand dollars (\$200,000).

6000.50.2 Dependent Life (Basic) Insurance

The District pays the premium for each employee's Basic Dependent Life insurance.

6000.50.2.1 Spouse: The amount of the Basic Life benefit for an employee's spouse is one thousand five hundred dollars (\$1,500).

6000.50.2.2 Child: The amount of the Basic Life benefit for an employee's child is one thousand dollars (\$1,000).

6000.50.3 Additional (Supplemental) Life/AD&D Insurance

Employees may obtain Additional Life/AD&D insurance provided that each employee applying for such coverage pays all premiums. The amount of the Additional Life/AD&D benefit is equal to two (2) times the employee's annual base earnings up to a maximum benefits of two hundred thousand dollars (\$200,000).

6000.50.3.1 Additional (Supplemental) Dependent Life Insurance

An employee must be enrolled in Additional Life insurance to apply for Additional Dependent Life insurance. Employees selecting this coverage pay all premiums for the Additional Dependent Life insurance.

6000.50.3.1.1 Spouse: The amount of the Additional Dependent Life benefit for the employee's spouse is fifty percent (50%) of the employee's Additional Life benefit.

6000.50.3.1.2 Child: The amount of the Additional Dependent Life benefit for the employee's child is five thousand dollars (\$5,000).

6000.60 Long Term Disability (LTD) Insurance

LTD is provided through Mutual of Omaha Insurance. The District pays the premium for each employee.

CARMICHAEL WATER DISTRICT

RESOLUTION 08182025-02

**A RESOLUTION ADOPTING THE CARMICHAEL WATER DISTRICT (DISTRICT)
FISCAL YEAR (FY) 2025-2026 SALARY SCHEDULE**

BE IT RESOLVED, that the Board of Directors hereby adopts the Carmichael Water District FY 2025-2026 Salary Schedule effective July 1, 2025.

PASSED AND ADOPTED by the Board of Directors by the following vote:

Jeff Nelson	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Ronald Davis	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Mark Emmerson	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Ron Greenwood	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>
Paul Selsky	Aye	<input type="checkbox"/>	Nay	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Abstain	<input type="checkbox"/>

Board Totals: **Ayes:** **Nays:** **Absent:** **Abstain:**

Passed Unanimously:
Motion Carried:
Motion Not Carried:

Signed after its passage this 18th day of August 2025:

Ron Greenwood, President
Board of Directors

ATTEST: _____

Cathy Lee, Secretary

CARMICHAEL WATER DISTRICT
RESOLUTION 08182025-03
A RESOLUTION AMENDING THE DISTRICTS'
POLICY 5030 – VACATION AND
POLICY 6000 – HEALTH AND WELFARE BENEFITS,

BE IT RESOLVED by the Board of Directors of the Carmichael Water District as follows:

Policies as listed below are hereby amended and added to the District's Policy Manual effective August 18, 2025.

Policy 5030 – Vacation
Policy 6000 – Health and Welfare Benefits

Existing resolutions in conflict with this resolution are hereby repealed.

PASSED AND ADOPTED by the Board of Directors by the following vote:

Jeff Nelson	Aye <input type="checkbox"/>	Nay <input type="checkbox"/>	Absent <input type="checkbox"/>	Abstain <input type="checkbox"/>
Mark Emmerson	Aye <input type="checkbox"/>	Nay <input type="checkbox"/>	Absent <input type="checkbox"/>	Abstain <input type="checkbox"/>
Paul Selsky	Aye <input type="checkbox"/>	Nay <input type="checkbox"/>	Absent <input type="checkbox"/>	Abstain <input type="checkbox"/>
Ronald Davis	Aye <input type="checkbox"/>	Nay <input type="checkbox"/>	Absent <input type="checkbox"/>	Abstain <input type="checkbox"/>
Ron Greenwood	Aye <input type="checkbox"/>	Nay <input type="checkbox"/>	Absent <input type="checkbox"/>	Abstain <input type="checkbox"/>
Board Totals:	Ayes: <input type="checkbox"/>	Nays: <input type="checkbox"/>	Absent: <input type="checkbox"/>	Abstain: <input type="checkbox"/>

Passed Unanimously:
Motion Carried:
Motion Not Carried:

Signed after its passage this 18th day of August, 2025:

Ron Greenwood, President
Board of Directors

ATTEST: _____
Cathy Lee, Secretary

Topic: ACWA Committee Consideration Form

Date: August 4, 2025

Item For: Action

Submitted By: Gaby Padilla, Administrative Specialist

BACKGROUND

ACWA is soliciting participation from all members to join its 13 standing committees for 2026 and 2027. Committee members are appointed for two-year terms that begins on January 1 of the even-numbered years.

Last year, the Board of Directors served on the following ACWA Committees:

Business Development Committee

Mark Emmerson

Energy Committee

Ron Greenwood

Groundwater Committee

Jeff Nelson

Local Government Committee

Ron Greenwood

State Legislative Committee

Ronald Davis

Water Management Committee

Paul Selsky

SUMMARY/DISCUSSION

ACWA is requesting completed and signed Committee Consideration Form, in Attachment 1 by September 19th in order to be consider for a committee appointment. The 13 ACWA standing committees and member limits are listed below:

1. Agriculture – Unlimited
2. Business Development – Unlimited
3. Communication – Limited to 40
4. Energy – Unlimited
5. Federal Affairs – Limited to 5 per Region
6. Finance – Limited to 2 per Region (1 Region Chair/Vice Chair and 1 with financial experience)
7. Groundwater – Unlimited
8. Legal Affairs – Limited to 45
9. Local Government – Limited to 3 per Region
10. Membership – Unlimited
11. State Legislative – Limited to 4 per Region
12. Water Management – Limited to 4 per Region
13. Water Quality – Unlimited

To participate in a committee, a Board member must choose three committee choices on the form ranking them from first to last choice. Once ACWA receives all the committee consideration forms,

there is a committee process to determine who will be appointed. The final committee results will be posted on the AWCA website by December 31, 2025.

It is important for Carmichael Water District to be involved in the ACWA standing committees because it is a great way to engage in state and local issues and potentially influence policy and legislation through ACWA.

ACWA has also recently sent the Board Officers' Election for President & Vice President and Region Boards for 2026-'27 ballot, Attachment 2, to all designated voters. The Board has appointed Director Greenwood to be the designated voter during the March regular Board meeting. The electronic ballot is due on September 19th and the results will be announced by September 26th.

FISCAL IMPACT

None.

RECOMMENDATION

Staff recommends that the Board of Directors provide 1) direction on the committees in which they would like to join and direct staff to submit the Committee Consideration Form to ACWA by September 19, 2025 and 2) direction to Director Greenwood for the Board Officers' Election for President & Vice President and Region Boards for 2026-'27.

ATTACHMENT(S)

1. ACWA Flier for Standing Committee Considerations and Committee Consideration Form
2. Board Officers' Election for President & Vice President and Region Boards for 2026-'27



JOIN A COMMITTEE AND GET INVOLVED

ACWA has 13 standing committees that members can join and get involved. This is a great way for members to engage in state and local issues and influence policy and legislation. Committees are structured to include representation from all 10 ACWA Regions, bringing together diverse voices on technical and policy matters. **Take action, join a committee!**

COMMITTEE APPOINTMENT PROCESS TIMELINE

2026 - 2027 TERM

Email committee consideration forms to General Managers and Board Presidents

30

JUNE

Committee process Chair and Vice Chair orientation

3

OCT

Committee process orientation with incoming President

20

NOV

Committee results live on ACWA website

31

DEC

Committee consideration forms deadline
Any consideration submitted after deadline will be put on a waiting list.

19

Committee recommendation deadline

Presidents final recommendations due to ACWA staff

12

COMMITTEE COMPOSITION

Committee members are appointed for two-year terms that begin on Jan. 1 of even-numbered years. You can learn more about ACWA's 13 standing committees below. For more information and bylaws, visit www.acwa.com. If you have any questions, please contact Region and Member Engagement Specialist Ana Javaid at anaj@acwa.com.

Committee	Description	Composition	Meetings Per Year	Liaison
Agriculture	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors, State Legislative Committee, Federal Affairs Committee or other committees, as appropriate, regarding agricultural issues affecting the interests of ACWA and its members. 	Unlimited	4	Stephen Pang State Relations Advocate stephenp@acwa.com
Business Development	<ul style="list-style-type: none"> Develops and recommends to the Board of Directors programs and activities to be provided or administered by the association that generate non-dues revenue and provide a service or benefit to association members. 	Unlimited	2	Joseph Ramos Business Development Representative josephr@acwa.com
Communications	<ul style="list-style-type: none"> Develops and recommends to the Board of Directors and ACWA staff regarding communications and public affairs programs. Promotes sound public information and education programs and practices among member agencies. Prepares and distributes materials for use by member agencies in their local outreach efforts. Provides input and guidance to ACWA's Communications Department. 	Limited to 40	4	Heather Engel Director of Communications heathere@acwa.com
Energy	<ul style="list-style-type: none"> Recommends policies and programs to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee as appropriate. 	Unlimited	4	Nick Blair Senior State Relations Advocate nickb@acwa.com
Federal Affairs	<ul style="list-style-type: none"> Coordinates with other ACWA committees regarding input on federal issues before both Congress and the federal administrative branches. 	Limited to 5 per Region	4	Ian Lyle Director of Federal Relations ianl@acwa.com
Finance	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors regarding annual budgets, investment strategies, annual audits and auditor selection, dues formula and schedule, and other financial matters. 	Limited to 2 per Region (1 Region Chair/Vice Chair and 1 with financial experience)	4 - 5	Dan Gumpert Controller dang@acwa.com
Groundwater	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors on groundwater policy issues. Monitors state and federal regulations and legislation affecting the quality and management of groundwater. Conducts studies and gathers data on groundwater issues. Develops policies regarding groundwater management. Coordinates with other committees on groundwater issues. 	Unlimited	4	Soren Nelson Senior State Relations Advocate sorenn@acwa.com

Committee	Description	Composition	Meetings Per Year	Liaison
Legal Affairs	<ul style="list-style-type: none"> Acts on requests for assistance on legal matters of significance to ACWA member agencies. Reviews proposed ACWA bylaw revisions and works with staff to produce publications to assist member agencies in complying with state and federal laws. Files amicus curiae filing on important cases, comments on proposed regulations and guidelines of state agencies such as the Fair Political Practices Commission and monitors and engages in water rights matters of interest to member agencies. 	Limited to 45	2 - 3	Caleb Raspler Federal Affairs Representative calebr@acwa.com
Local Government	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors and the State Legislative Committee on local government matters affecting water agencies, including planning issues, local government organization, and finance. Gathers and disseminates information on the value of special districts, and shares information promoting excellence in local government service delivery. 	Limited to 3 per Region	2	Kylie Wright State Relations Advocate kyliew@acwa.com
Membership	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors regarding membership policies, eligibility and applications for membership. Assists staff in developing membership recruitment and retention programs and reviews and makes recommendations to the Finance Committee regarding an equitable dues structure. 	Unlimited	2	Katie Dahl Member Services Manager katied@acwa.com
State Legislative	<ul style="list-style-type: none"> Reviews relevant introduced and amended legislation, and develops positions and provides recommendations to the Board of Directors on ballot measures and other major statewide policy issues. Works with staff amendments to bills and provides direction for staff on legislative matters. 	Limited to 4 per Region	10 - 12	Julia Hall Director of State Legislative Relations juliah@acwa.com
Water Management	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors on policy and programs related to water management. Reviews and recommends positions on legislation and regulations as requested by other committees. Assists in gathering and disseminating information regarding agricultural and urban water management, water conservation and water use efficiency, development and use of water resources, wastewater treatment and water recycling and reuse. 	Limited to 4 per Region	4	Chelsea Haines Director of State Regulatory Relations chelseah@acwa.com
Water Quality	<ul style="list-style-type: none"> Makes recommendations to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee on policy and programs regarding water quality issues. Promotes cost-effective state and federal water quality regulations and provides a forum for members to work together to develop and present unified comments on water quality regulations. Develops and recommends positions and testimony on water quality regulatory issues. 	Unlimited	4	Nick Blair Senior State Relations Advocate nickb@acwa.com



COMMITTEE CONSIDERATION FORM

PLEASE PRINT LEGIBLY

Agency Name (DO NOT use acronyms or abbreviations)		ACWA Region #
Agency Address	City, State & Zip	Phone

**BELOW PLEASE LIST ALL THOSE INTERESTED IN BEING ON ACWA COMMITTEES FOR YOUR AGENCY.
FOR ADDITIONAL RECOMMENDATIONS PLEASE FILL OUT ANOTHER FORM.**

**If an individual is not an agency employee or director, please indicate company affiliation.*

Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice

Signature (Agency/District General Manager or Board President signature required)

Title

Date

Committee member contact information will be shared on the committee roster and is to be used for committee business only.

QUESTIONS?

Contact acwacommittees@acwa.com
or (916) 441-4545

980 9th Street, Suite 1000
Sacramento, CA 95814
www.acwa.com

Board Officers' Election for President & Vice President and Region Boards for 2026-'27

Both questions below are optional.

Please vote for only **one** candidate for each seat.

To write-in your vote, select Write-in and then type out your choice. Write-in candidates must be an elected or appointed director of an ACWA member agency and must submit a nominating/support resolution from their member agency's board no later than September 19. Deadline to submit ballots is 5 p.m. on September 19.

ACWA President



Ernesto A. Avila (Election Committee's preferred candidate)

As the current Vice-President of the Association of California Water Agencies (ACWA), I am most proud of the thought, energy and collaboration that went into developing the 2025-'29 Strategic Plan. I want to be the next ACWA President to continue the momentum we have built focusing on four primary goals of Advocacy, Connections, Education and Organizational Effectiveness. This Strategic Plan is about finding new ways to benefit the members of ACWA as we navigate the shifts in water policy at the state and federal level. My commitment is to unify our collective efforts and better assert ACWA's leadership in shaping California's water policy.

I have 42 years of experience with California water as a Civil Engineer, General Manager, Executive Director of three water coalitions involving over 50 water agencies, and I currently serve as CCWD Board President. I have led or supported over \$10 Billion in California water infrastructure serving over 5 million citizens and many industries today. I have supported ACWA for over 20 years including serving as Vice President and on the Board of Directors, the Executive Committee, the Region 5 Board, the Federal Affairs Committee, the ACWA JPIA Executive Committee of the Board, the ACWA Foundation Steering Committee and Chair of the Local Government Committee.

I would be honored to represent our members as the next President of ACWA.

Learn more at: ccwater.com/AvilaForACWAPresident

Write-in: _____

ACWA Vice President



Carol Lee Gonzales-Brady (Election Committee's preferred candidate)

I am pleased to offer my Statement of Qualifications as a Candidate for ACWA Vice President. I'm passionate about delivering prudent fiscal and environmental stewardship and advocating for sound policy. My philosophy: Protect our water, today and tomorrow, with a diversified portfolio of both immediate and long-range strategies and solutions.

I was elected to the Rancho California Water District (RCWD)'s Board of Directors in 2017 and re-elected in 2022, serving two terms as Board President. I joined ACWA in 2017 and became a Region 9 Director in 2019, serving as Vice Chair for the 2024-25 term. I represent the Region on ACWA's Board of Directors, and in 2024 was honored to be elected by the Board to the Executive Committee.

Other committees and task forces include:

- Water Policy Task Force - Vice Chair
- Membership and Communications Committees
- Region 9 Membership Engagement Work Group - Chair
- Strategic Planning Task Force (past)
- Election Committee (past)
-

Committed to building alliances and cultivating partnerships, I also am a past Director of ACWA/JPIA and serve on other industry Boards including Urban Water Institute (UWI) and Southern California Water Coalition (SCWC) - Legislative Task Force co-Chair.

I earned my BS (magna cum laude) in Business Management from Pepperdine University. My professional career in procurement, contracts, and strategic management has spanned federally regulated industries including water and electric utilities. A native Californian and vineyard owner, I have given back to my community as an appointed Director on a Resource Conservation District Board and through charities, associations, and local advocacy groups such as the Southwest California Legislative Council. It has been my honor to serve alongside my dedicated colleagues on the ACWA Board. I look forward to continuing to build upon ACWA's work to promote and advance the priorities, initiatives, and interests of our members.

Please visit RanchoWater.com/ACWAVP Thank you for your support.

Write-in: _____

Region 4 Election Ballot for 2026-'27 Term

Submitted board candidate bios and headshots are available on <https://www.acwa.com/elections>

You may either vote for the slate recommended by the Region Nominating Committee or vote for individual region board members (please note rules & regulations for specific qualifications).

View full rules and regulations [HERE](#)

Region 4 Nominating Committee Recommended Slate

Chair:

- Cary Keaten, General Manager, Solano Irrigation District

Vice Chair:

- Kristin Sicke, General Manager, Yolo County Flood Control & Water Conservation District

Board Members:

- Jay Boatwright, Director, Sacramento Suburban Water District
- Tom Orvis, Director, Oakdale Irrigation District
- Andrew Watkins, Director, Stockton East Water District
- David Weisenberger, General Manager, Banta-Carbona Irrigation District

Nominating Committee's Recommended Slate

You may select **one** of the following.

I concur with the Region's Nominating Committee's recommended slate above.

I do not concur with the Region's Nominating Committee's recommended slate. I will vote for individual candidates below as indicated.

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Topic: Sponsorship for the 2025 Great American River Clean-Up

Date: August 13, 2025

Item For: Action

Submitted By: Gaby Padilla, Administrative Specialist.

BACKGROUND

The Great American River Clean-Up (GARCU) is American River Parkway Foundation's largest annual volunteer event. The Parkway Foundation coordinates annual cleanup efforts throughout the American River Parkway to keep the river and its environment free of debris. In 2024 thousands of volunteers worked together to clean up the Parkway from Discovery Park in downtown Sacramento to Negro Bar in Folsom.

SUMMARY/DISCUSSION

This year the American River Parkway Foundation (Foundation) wants to increase their impact, and remove more garbage and increase the health and safety of Sacramento's most valued natural resources. The Foundation announced the GARCU event on September 20th for the 20 plus locations from Discovery Park in downtown Sacramento to Negro Bar in Folsom.

The District is looking to participate and sponsor this event. Below is all the sponsorship levels that the Parkway Foundation has:

\$5,000 River Champion: Top placement of the District's logo on the signage for GARCU and marketing collateral and promotional materials, the ARPF website with link to CWD, the ARPF e-newsletters for August and September, and social media recognition. A 10x10 booth option at a clean-up site and the opportunity to participate in a clean-up special project.

\$2,500 Pathfinder: District's logo on the signage for GARCU, marketing collateral and promotional materials, the ARPF website with link to CWD, the ARPF e-newsletters for August and September, and social media recognition. A 10x10 booth option at a clean-up site and includes essential clean-up supplies.

\$1,000 Parkway Protector: District's logo on the signage for GARCU, marketing collateral and promotional materials, the ARPF website with link to CWD, the ARPF e-newsletters for August and September, and social media recognition.

\$500 Seedling: District's logo on the signage for GARCU, the ARPF website with link to CWD, and the ARPF e-newsletters for August and September,

FISCAL IMPACT

The District has enough in the outreach budget to cover up to the \$2,500 sponsorship level. A budget adjustment will be needed if the Board decides on a higher sponsorship level.

RECOMMENDATION

Staff recommends that the Board of Directors approve the Parkway Protector sponsorship of \$1,000 for the 2025 Great American River Clean-Up event or provide direction to staff as necessary.

ATTACHMENT(S)

1. GARCU flier

American River Parkway Foundation
Great American River Clean-Up

GARCU

Sept. 20th

9am-12pm

All Ages



Pick up trash, pull invasive plants, lay mulch, or paint structures in the Parkway. All are welcome—individuals, groups, families, corporations, and students—to help keep the Parkway clean and beautiful at this annual volunteer event!

[Volunteer Here](#)



[Location Map](#)





CLEAN-UP



Sponsorship Opportunities

The Great American River Clean-Up (GARCU) September 20, 2025

River Champion

\$5,000

- Top placement of logo on signage for GARCU
- Top placement of logo on marketing collateral and promotional materials
- 10x10 booth option at a clean-up site during both clean-ups *first come, first serve
- Opportunity for organization to participate in a Clean-up special project
- Logo and link in August and September ARPF e-newsletters
- Logo and link on GARCU webpage
- Social media recognition for both clean-ups

Pathfinder

\$2,500

- Logo on signage for GARCU
- Logo on marketing collateral and promotional materials
- 10X10 booth option at a clean-up site during both clean-ups
- Provide essential clean-up supplies including gloves and trash bags
- Logo and link in August and September ARPF e-newsletters
- Logo and link on GARCU webpage
- Social media recognition for both clean-ups

Parkway Protector

\$1,000

- Logo on signage for GARCU
- Logo on marketing collateral and promotional materials
- Logo in August and September ARPF e-newsletters
- Logo and link on GARCU webpage
- Social media recognition for both clean-ups

Seedling

\$500

- Logo on signage for GARCU
- Logo in August and September ARPF e-newsletters
- Logo and link on GARCU webpage

Tax I.D.# 94-2881344

ARPF, 5700 Arden Way
Carmichael, CA 95608



916-486-2773



www.ARPF.org



info@arpf.org



@arpfsac116



CLEAN-UP



Sponsorship Opportunities

Business Name:

Address:

Address 2:

City:

State:

Zip:

Contact Name:

Contact Phone:

Contact Email:

Please select your desired sponsor level:

River Champion

\$5,000

*first come, first serve
on selection of clean up site location

Pathfinder

\$2,500

*first come, first serve
on selection of clean up site location

Parkway Protector

\$1,000

Seedling

\$500

Payment : Please make checks payable to the American River Parkway Foundation (ARPF) and return this form.

Logo : All artwork must be submitted by **August 28th, 2025** for inclusion on signage. Please email Nicole Tanimoto at ntanimoto@arpf.org in a PDF format with 300 DPI.

Tax I.D.# 94-2881344

ARPF, 5700 Arden Way
Carmichael, CA 95608

916-486-2773



www.ARPF.org

info@arpf.org

[@arpfsac117](https://www.instagram.com/arpfsac117)

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Topic: August Informational Update for the La Vista Tank and Booster Pump Station Project

Date: August 10, 2025

Item For: Information

Submitted By: Greg Norris, Engineering Manager

BACKGROUND

The La Vista Tank and Booster Pump Project began construction in June 2021. The contractor was selected to be Koch and Koch Inc. (KKI) through a competitive bidding process. Project work progressed through March 2023, at which time PCB was found on site. The PCB had originated from the existing tank's lining and been spread on site during demolition. Construction stopped while the project site was remediated and did not start back until December 2023. KKI continued construction into April of 2024 at which time they stopped work due to a dispute with the contract.

After many months of negotiations, KKI and the District were able to agree to terms for KKI to return to work and complete the project. A Reinstatement Agreement was executed by the District on February 19, 2025 specifying that the contractor has 458 days to complete the work from that date. In anticipation to KKI returning to work, the District hired Toppel Consulting (Toppel) in January 2025 to perform construction management duties and re-initiated the existing agreement with Kennedy-Jenks (KJ) to perform engineering duties.

SUMMARY/DISCUSSION

Since last month's report, KKI has completed construction of the perimeter wall and the masonry portion of the new pump building. The contractor has been applying the sealer and anti-graffiti coatings to the wall and building as well. Booster pumps have been mounted on the pedestals and Switchgear cabinet is in-place.

Toppel consulting coordinated four weekly meetings since last month's report, processed RFIs, scheduled special inspections, and tracked progress. See Attachment 1.

One change order for this month as follows:

CO #37: Removal and disposal of buried AC pipe. Pipeline was discovered while constructing the perimeter wall in 2022. A WDC #8 was approved by the District on 10/25/22, but never resulted in a CO. CO #37 was finalized this month for \$11,184.70.

Work progress is consistent with the Critical Path Method (CPM) schedule shown in Attachment 2.

ATTACHMENT(S)

1. Toppel Consulting Monthly Report for August.
2. Toppel Consulting CPM Analysis Report

TOPPEL CONSULTING, INC

Carmichael Water District

PROJECT UPDATE

Date: 08/04/25
Project: La Vista Tank Replacement
CWD: Greg Norris
Construction Manager: Adam Boje
Project Architect: Kennedy Jenks
Contractor: Koch & Koch Construction

Project Start Date: 09/20/21
Project Duration: 600 cal days
Project Completion Date (orig): 05/12/23
Project Completion Date (rev): 05/23/26 **Date is on Schedule**

Bid Amount: \$8,381,907.00

Total Contract Amount: \$8,381,907.00

Change Orders Thru CO#37 \$1,926,575.00

Revised Contract Amount: \$10,308,482.70

CHANGE ORDERS

Approved COR's	Approved Amount	Description
No. 1	\$7,000.00	WDC 04-Ringwall Footing Excavation
No.2	\$19,696.77	Frontage Bond/Tank Removal/Drawings Changes
No.3	\$24,697.60	Fire Hydrant Laterals 3/30/22 Revision RFI 028
No.4	\$7,480.00	CMU Wall Conflict with AT&T Vault Apron RFI 041
		RFI 20 Conflict w/service Laterals/Additional 45's
No.5	\$25,641.22	@Robertson Tie-in
No.6	\$6,702.88	RFQ 003 Additional 16" BFV
No.7	\$19,591.97	RFI 020 Potholing WDC's 05/06/07
No.8	\$4,311.05	RFI 057 Abandon near Marconi Tie-in
No.9	\$6,038.60	RFI 042 FH Lateral Vertical Clearances
No.10	\$12,909.62	Unsuitable Subgrade Material Marconi Ave SDMH
		Concrete Thrust Block (@ existing 12" AC Waterline Tee
No.11	\$1,378.95	Fitting STA 18+08)
No.12	(\$10,000)	FRI 48 Tank Floor Underside Primer
No.13	\$13,712.85	RFI 11 Wet Subgrade Material
No.14	\$1,528.26	RFQ 005 Vapor Retarder Beneath Chemical Feed Room
No.15		Delayed Start Claim (letter from KKI dated May 23,2022)
No.16	\$636.74	RFI 54 SWBD & Generator Load Bank Pads
		RFQ 006 Hypochlorite Feed Pump Discharge Flow Switch
No.17	(\$1,559.80)	FSL-303 Deletion
No.18		Weather Delay Claim
No.19	\$6,397.23	RFQ 004- SMUD & Electrical Changes
No.20	\$3,140.73	RFQ 007 Attic Vents
		RFI 72 Tank Adhesion Testing and RFI8- Tank Exterior
No.21	(\$2,500.00)	Holiday Testing
No.22	\$3,777.34	RFI 89 Existing Tank Connections

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No.23	\$26,941.79	WDC-09 Covering of Known PCB Tank Coating & WDC 10 Baker Tank & Pumps Procurement
No.24	\$14,458.50	WDC-09 Covering of Known PCF Tank Coating (Associated costs for Standard Demolition excavator stand-by)
No.25	\$31,049.32	WDC-10 Baker Tank & Pumps Procurement (Additional costs for monitoring site/tanks/pumps)
No.26	\$339,017.03	WDC-11 Existing Tank Off-Hauling
No.27	\$15,711.18	WDC-12 Additional Baker Tank Procurement
No.28	\$6,537.21	WDC-13 Baker Tank Water Disposal
No.29	\$1,466.72	WDC-14 Baker Tank Water Quality Testing
No.30	\$19,039.97	WDC 15 – 21K Gallon Baker Tank Water Disposal
No.31	\$34,767.31	Generator Warranty Preservation Services
No.32A	\$1,391,614.16	Other, Sub Matrl Increases, Anticipated Increases (Reinstatement Agreement)
No.32B	(\$147,000.00)	Credit for Asphalt (Reinstatement Agreement)
No.33	\$3,272.77	COR FI3R1 Redig Electrical Trench
No. 34	\$18,357.66	F.I.2R1 Temp Elec for Cathodic Protection. WorkSmart Automation. Building Pump Station Footing Changes per RFI 122
No. 35	\$6,132.07	F.I.1 Work Required for Remobilization
No. 36	\$3443.30	Sewer Line connection changes
No. 37	\$11,184.70	Removal and disposal of existing 12" AP Piping
Total Approved COR's		
	\$1,926,575.70	

<u>Change Order Costs Pending, or Currently Under Review</u>	<u>Submitted Amount</u>	<u>Description</u>

Total COR Costs Pending

Total Submitted Value

Project Description:

The proposed work consists of construction of improvements to La Vista Tank and Booster Pump Station site and adjoining access road, but not limited to, demolition of existing water storage tank and pump station, replacement of the existing well pump and piping, and construction of a new 3.0 MG welded steel water storage tank and aboveground booster pump station, standby generator, electrical work, instrumentation and controls, and site improvements including concrete masonry unit wall, site grading, paving, drainage, yard piping, painting, and water transmission mains and storm drain along La Vista Avenue. Project earthwork is unbalanced and requires disposal of unsuitable material and importation of suitable material for engineered fill as set forth in the Contract Drawings and Technical Specifications.

Project Phase:

Schematic Design Phase
Design Development Phase
Construction Document Phase

Bidding Phase
Construction Phase
Closeout Phase
Warranty Phase
Other

TOPPEL CONSULTING, INC

La Vista Tank and Booster Pump Station

PROJECT UPDATE

Project Status as of: **07/31/25**

Sitework Systems:

- Site grading and placement of AB near completion
- Placement of Electrical Switchgear and inspection
- Installation of bollards
- Pour concrete at walk in main entry and at the sliding gate track
- Sewer tie in completed
- Caulking of all control joints at CMU walls

Outstanding Issues:

- 1) None This Period

Current and Anticipated Delays:

- 1) Delivery of the prefabricated trusses.

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Sewer Tie in



Sliding Gate concrete



Caulking at CMU joints



Bollard installation



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Switchgear Installation



Site Grading



Sub: 161 July 2025 CPM Update

Kennedy/Jenks Consultants

From: KOCH & KOCH

Page: 1 of 2

Submittal Date: 8/6/25

K/J Job No.: 1970010*00

Project Name: LA VISTA TANK AND BPS

Specification Section: 01311

Prior Submittal: _____

Submittal

A. Certification of Completeness and Accuracy

We certify that we have reviewed this submittal in detail and that the submittal is:

1. Complete and accurate and in complete compliance with the Contract Documents.
2. Compliant with the requirements of "Material and Equipment" in Section 01040, especially the subparagraph titled "Compatibility of Equipment and Material".
3. Compliant with the paragraph titled "Performance Specifications and Contractor Designed Items" in Section 01040.
4. Without any deviations from the Contract Drawings, except the following (describe deviation) which have the following advantages and disadvantages:

Signed by Subcontractor: _____ Title: _____ Date: _____

Signed by Contractor: Soren Darr Title: PM Date: 8/6/25

Response Date: 08/06/25
 Specification Section: _____
 Page: 2 of 2

K/J Job No.: 1970010*00
 Project Name: La Vista Tank & BPS

Response

Item	TC Action	Refer to Comment	Manufacturer or Supplier	Title of Submittal / Drawing
	NET	1-2	Koch & Koch, Inc	July 2025 CPM Update

A. The action(s) noted above have been taken on the enclosed document(s).

NET = No Exceptions Taken

NR = Not Reviewed

MCN-N = Make Corrections Noted, No Resubmittal Required

RR = Rejected, Resubmit

MCN-R = Make Corrections Noted, Partial Resubmittal Required

RA = Receipt Acknowledged

A&R = Amend and Resubmit

Comment(s):

1. Truss delivery by 4 days. No impact to the completion of the project.
2. Critical path and overall project sequencing remain consistent with the June update.

B. Corrections or comments made on the shop drawings during this review do not relieve the Contractor from compliance with the requirements of the Drawings and Specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. The Contractor is responsible for: confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating its work with that of all other trades, and performing its work in a safe and satisfactory manner.

Adam Boje

Responder: Adam Boje - sign above

Distribution	Submittal	Encl.	Response
Owner	_____	_____	_____
Engineer	_____	_____	_____
Contractor	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
File	_____	_____	_____

TOPPEL CONSULTING, INC.

August 6, 2025

Soren Darr
Project Manager
Koch & Koch Inc,

Project: La Vista Tank and Booster Pump Station
Subject: CPM Master Schedule Update#6- July 2025

Dear Soren,

We are in receipt of KKI's Schedule Update#6 for July 2025 provided on 08/06/25, with a Status Date (Data Date) of 07.31.25.

The review is based on the requirements outlined in the Specifications 00700 Section 5.16.2 and section 01311 CPM Construction Schedule.

The schedule was reviewed utilizing the Project Documents and the electronic files that were included with the Reinstatement Agreement.

Comments on the current update are as follows:

I. General Comments:

1. Schedule narrative letter provided. The project completion date remains unchanged from the May update. Several durations have been increased, impacting float calculations.

II. Completion Date

1. Contract Time

- i. The Reinstatement Agreement allows 458 Calendar days to complete the work.
 1. Notice to Proceed for Construction was issued on 02/19/25 equating to a Contract Completion date of 05/23/26.
 2. Update#6 maintains a projected completion date of 05/21/26, which is 2 calendar days ahead of the current 5.23.26 Completion Date

III. Schedule Review

TOPPEL CONSULTING, INC.

1. The schedule format is in accordance with the Contract Documents and Reinstatement Agreement.
 - i. Several activities were progressed or completed during the June update, especially related to the Building Pump Station CMU walls and seal/graffiti coating of all the CMU walls.
 - ii. Truss delivery slipped (4) days with no impact to critical path. New Booster Pump Station scheduled to finish (4) Days behind the previous schedule.

	Name	Duration	Start: Current	Start: Previous	Start: Diff	Finish: Current	Finish: Previous	Finish: Diff
		Diff						
4	▪ Submittals	3.75d	Mon 3/3/20	Mon 3/3/20	0d	Mon 8/4/20	Tue 7/29/20	4d
5	Fab/Deliver Trusses	3.75d	Mon 6/2/20	Mon 6/2/20	0d	Mon 8/4/20	Tue 7/29/20	4d
6	▪ New Booster Pump Station	-3.75d	Tue 3/25/20	Tue 3/25/20	0d	Tue 12/9/20	Mon 12/15/20	-4d
7	Install Electric - Secondary	0d	Tue 3/25/20	Tue 3/25/20	0d	Wed 3/26/20	Wed 3/26/20	0d
8	Backfill - Secondary	0d	Thu 4/3/20	Thu 4/3/20	0d	Thu 4/3/20	Thu 4/3/20	0d
9	Install Electric - Underside	0d	Tue 3/25/20	Tue 3/25/20	0d	Thu 4/17/20	Thu 4/17/20	0d
10	Disinfect & Test - 20" D	0d	Tue 3/25/20	Tue 3/25/20	0d	Wed 3/26/20	Wed 3/26/20	0d
11	Install Piping - 20" Discharge	0d	Tue 3/25/20	Tue 3/25/20	0d	Wed 3/26/20	Wed 3/26/20	0d
12	Install Rebar/Forms - 20d	0d	Tue 3/25/20	Tue 3/25/20	0d	Wed 3/26/20	Wed 3/26/20	0d
13	Pour Concrete - 20" Discharge	0d	Thu 3/27/20	Thu 3/27/20	0d	Thu 3/27/20	Thu 3/27/20	0d
14	Install & Pour 10" Future	0d	Thu 4/3/20	Thu 4/3/20	0d	Thu 4/3/20	Thu 4/3/20	0d
15	Cure Concrete - Encase	0d	Thu 4/3/20	Thu 4/3/20	0d	Thu 4/10/20	Thu 4/10/20	0d
16	Excavate/Prep - Footings	0d	Mon 4/21/20	Mon 4/21/20	0d	Mon 4/21/20	Mon 4/21/20	0d
17	Install Rebar - Footings	0d	Tue 4/22/20	Tue 4/22/20	0d	Wed 4/23/20	Wed 4/23/20	0d
18	Pour Concrete - Footings	0d	Thu 4/24/20	Thu 4/24/20	0d	Thu 4/24/20	Thu 4/24/20	0d
19	Pour Concrete - Footings	0d	Mon 4/28/20	Mon 4/28/20	0d	Mon 4/28/20	Mon 4/28/20	0d
20	Cure Concrete - Footings	0d	Thu 4/24/20	Thu 4/24/20	0d	Mon 4/28/20	Mon 4/28/20	0d
21	Install Rebar/Forms - Side	0d	Fri 4/25/20	Fri 4/25/20	0d	Wed 4/30/20	Wed 4/30/20	0d
22	Pour Concrete - Slab 1s	0d	Tue 4/29/20	Tue 4/29/20	0d	Tue 4/29/20	Tue 4/29/20	0d
23	Pour Concrete - Slab 2r	0d	Thu 5/1/20	Thu 5/1/20	0d	Thu 5/1/20	Thu 5/1/20	0d
24	Cure Concrete - Slab	0d	Thu 5/1/20	Thu 5/1/20	0d	Mon 5/5/20	Mon 5/5/20	0d
25	Install Rebar/Forms - Side	0d	Mon 5/5/20	Mon 5/5/20	0d	Wed 5/7/20	Wed 5/7/20	0d
26	Pour Concrete - Stemwells	0d	Thu 5/8/20	Thu 5/8/20	0d	Thu 5/8/20	Thu 5/8/20	0d
27	Cure Concrete - Stemwells	0d	Mon 5/12/20	Mon 5/12/20	0d	Mon 5/19/20	Mon 5/19/20	0d
28	Install CMU - Building	0d	Mon 6/2/20	Mon 6/2/20	0d	Mon 6/30/20	Mon 6/30/20	0d
29	Cure CMU - Building W	0d	Tue 7/1/20	Tue 7/1/20	0d	Mon 7/14/20	Mon 7/14/20	0d
30	Install Pumping - Vertical	0d	Mon 5/5/20	Mon 5/5/20	0d	Mon 5/5/20	Mon 5/5/20	0d
31	Install Piping - WS Discharge	0d	Tue 5/6/20	Tue 5/6/20	0d	Wed 5/7/20	Wed 5/7/20	0d
32	Install Roof - Trusses	0d	Tue 8/5/20	Wed 7/30/20	4d	Mon 8/11/20	Tue 8/5/20	-4d

- iii. Activity duration adjustments and resequencing were applied, but there were no adverse impacts to the critical path

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- iv. All activities in the July Update include a predecessor and successor link.

2. Calendars

- i. The schedule has been identified as being based on a 4-day 10hrs/day. In reviewing the schedule, 4-10hrs/day is now consistently applied across all activities.
- ii. Holidays are properly integrated

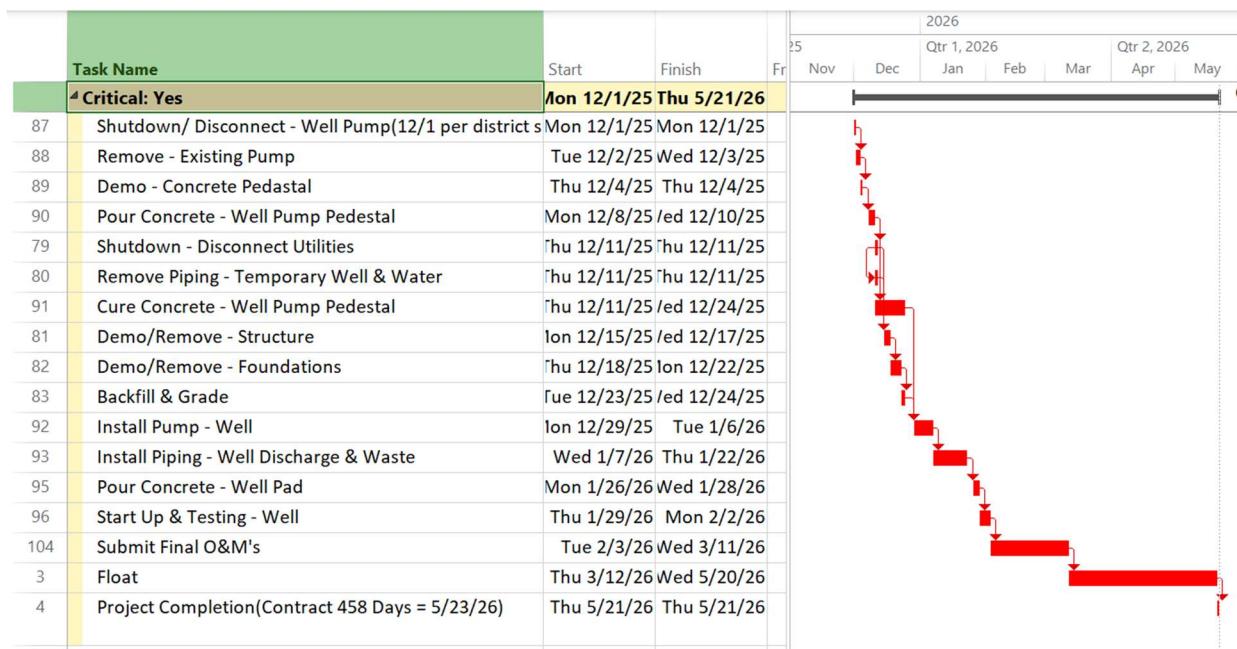
3. Weather Days

- i. Fridays and Saturdays remain identified for potential weather recovery, consistent with prior updates.

4. LONGEST PATH (Critical Path)

- 1. The longest path remains consistent with previous updates. It starts with Shutdown/Disconnection of the Well Pump (12/01 per CWD's requirements), proceeds through demolition of the existing BPS, installation of new equipment and final sitework, ending with the final walkthrough and punch list. (See screenshot below)

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5. ACTIVITIES RIDING THE DATA DATE

- There are no activities that are riding the 07/31/25 Data Date.

6. June 25 Update #5/ July 25 Update#6 Comparison

- Toppel Consulting imported June 25 Update to perform a comparison analysis. The durations did not impact the critical path of the project. The Truss delivery impacted the completion date of the Booster Pump Station by 4 days.
- No activities were added in the July Update.

IV. Constraints

- There are no constraints on the current update.

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V. Summary

1. Truss delivery Delayed by 4 days. No impact to the completion of the project.
2. Critical path and overall project sequencing remain consistent with the June

A revision to this schedule update is not required.

Let me know if you have any questions.

Sincerely

Adam Boje

Adam Boje
Sr. Construction Manager
CC. Brian Toppel

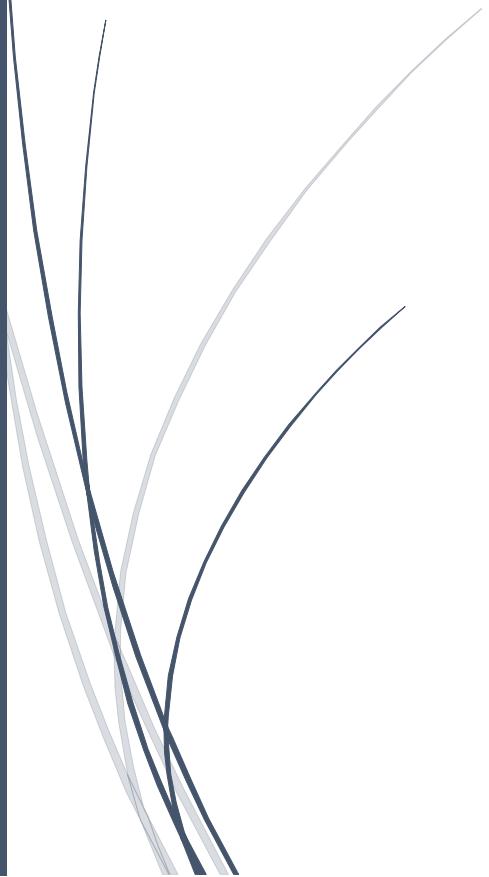


July 2025

CPM Schedule Project Narrative

Carmichael Water District

La Vista Tank & Booster Pump Station



Koch & Koch, Inc.
PREPARED BY: SOREN DARR

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Milestones and Key Dates

- Reinstatement Agreement/NTP – 02/19/25
- Pre-Construction Meeting – 02/27/25
- First Working Day – 02/28/25
- Expected Completion Date – 5/23/26

1. Work Completed During This Period

- SWBD Installed and Conductors to Transformer Completed.
- NETA Testing of SWBD, Gen & ATS Completed.
- CMU Wall Coatings Completed.
- BPS CMU Coatings Completed.
- Sewer Tie In Completed.
- Bollards, Gate Track, Misc Concrete Completed.

2. Identification of Unusual Conditions or Restrictions

- No unusual conditions or restrictions were encountered during this period.

3. Description of the Current Critical Path

- The critical path starts with the disconnection and removal of the existing well pump and then moves through demolition of the existing BPS, installation of the new well pump and associated piping, finish grading, final walkthrough and punchlist.
- Task 87 Shutdown/disconnect well pump has a start no earlier than constraint so that the work falls within the unrestricted shutdown period of Dec-Feb.

4. Changes to Critical Path, Logic and Completion Since Last Update

- Critical path and completion date are the same as the last update. Project float has increased due to remaining concrete being completed ahead of schedule.
- Logic, duration and task changes have been made as needed to allow the schedule to reflect the actual course of construction.

5. Current and Anticipated Delays

- The truss painting is currently delaying the delivery of the trusses. Delivery to the site is expected on 8/5/25. Currently this is not delaying the critical path or final completion.

6. Pending Items and Status of Permits, Change Orders, Time Adjustments and Noncompliance notices

- None

7. Reasons for Early or Late Scheduled Completion

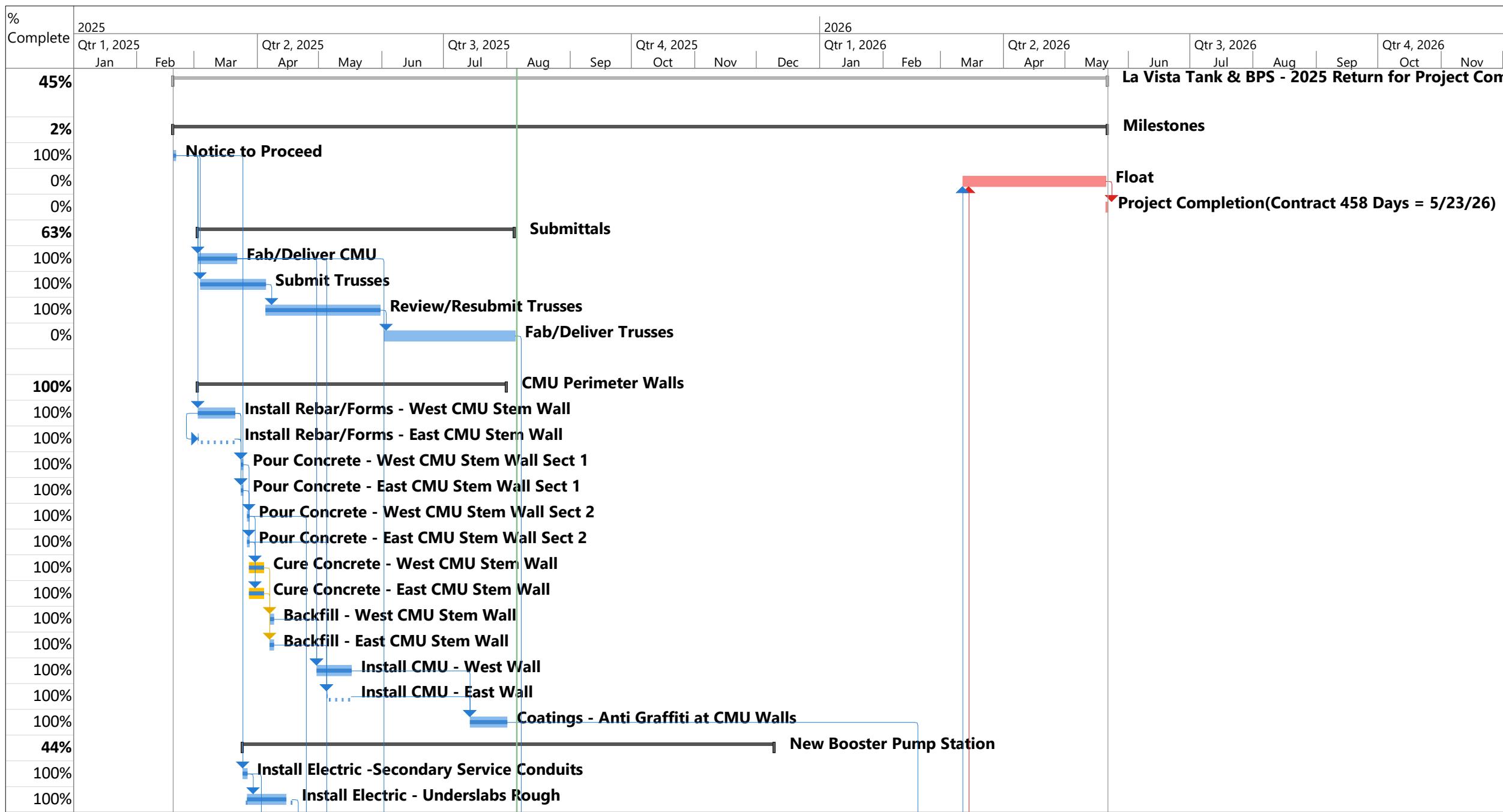
- Project is currently on schedule.

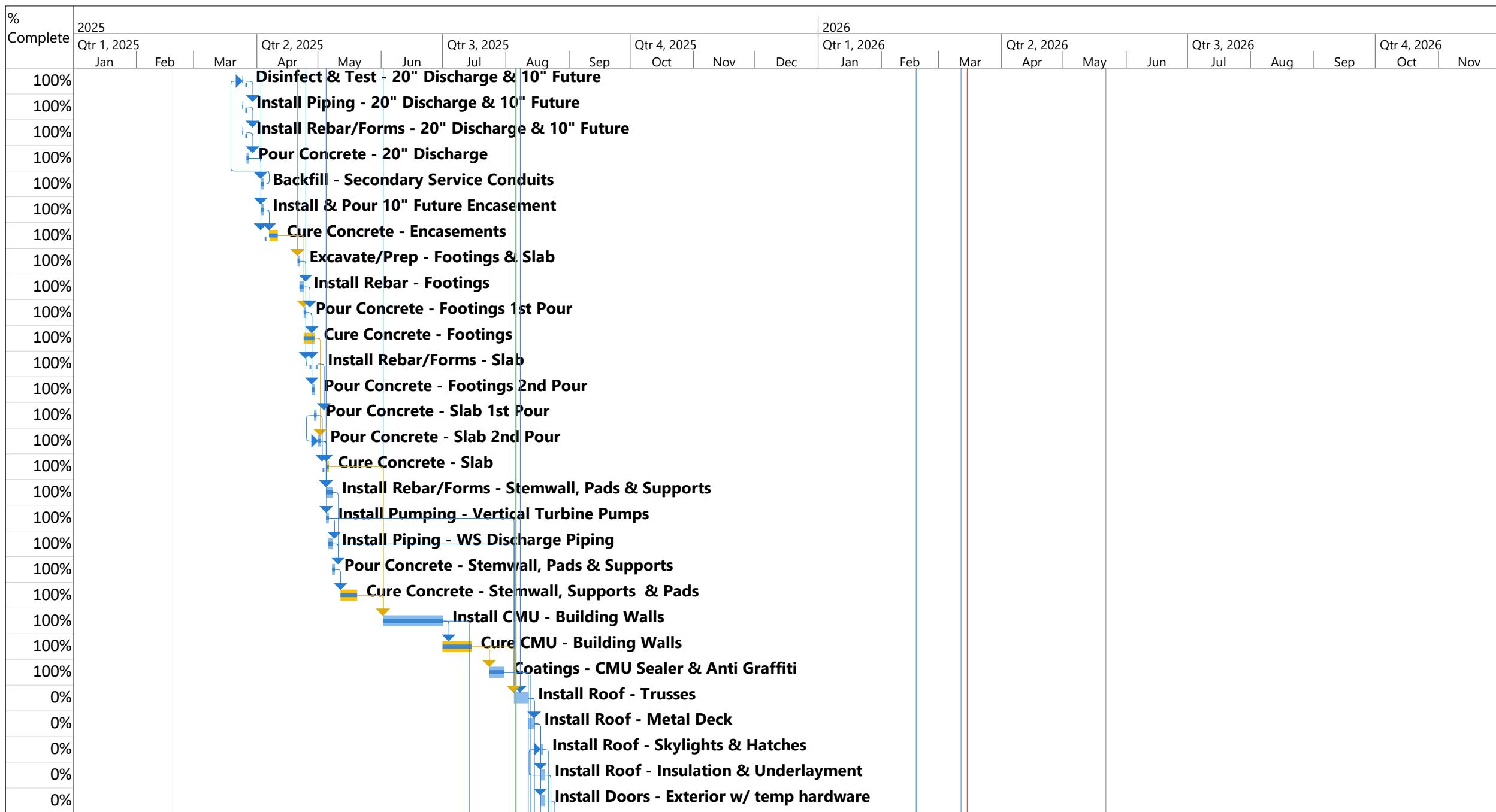
ID	Task Mo	Task Name	Duration	Start	Finish	Actual Start	Actual Finish	Late Start	Late Finish	Free Slack	Total Slack	Predecessors	Successors	
0		La Vista Tank & BPS - 2025 Return for Project Completion	254 d	2/19/25	5/21/26	2/19/25	NA	2/19/25	5/21/26	0 d	0 d			
1	✓	Milestones	254 d	2/19/25	5/21/26	2/19/25	NA	2/19/25	5/21/26	0 d	0 d			
2	✓✓	Notice to Proceed	1 d	2/19/25	2/19/25	2/19/25	2/19/25	2/19/25	2/19/25	0 d	0 d		6,9,11,64	
3	✓	Float	40 d	3/12/26	5/20/26	NA	NA	3/12/26	5/20/26	0 d	0 d	103,104	4	
4	✓	Project Completion(Contract 458 Days = 5/23/26)	1 d	5/21/26	5/21/26	NA	NA	5/21/26	5/21/26	0 d	0 d	3		
5		Submittals	88 d	3/3/25	8/4/25	3/3/25	NA	3/3/25	8/13/25	6 d	6 d			
9	✓✓	Fab/Deliver CMU	12 d	3/3/25	3/21/25	3/3/25	3/21/25	3/3/25	3/21/25	0 d	0 d	2	32,70,75	
6	✓✓	Submit Trusses	19 d	3/4/25	4/4/25	3/4/25	4/4/25	3/4/25	4/4/25	0 d	0 d	2	7	
7	✓✓	Review/Resubmit Trusses	31 d	4/5/25	5/30/25	4/5/25	5/30/25	4/5/25	5/30/25	0 d	0 d	6	8	
8	✓✓	Fab/Deliver Trusses	37 d	6/2/25	8/4/25	6/2/25	NA	6/2/25	8/13/25	0 d	6 d	7	36	
62														
63	✓	CMU Perimeter Walls	87 d	3/3/25	7/31/25	3/3/25	7/31/25	3/3/25	7/31/25	0 d	0 d			
64	✓✓	Install Rebar/Forms - West CMU Stem Wall	12 d	3/3/25	3/20/25	3/3/25	3/20/25	3/3/25	3/20/25	0 d	0 d	2	69SS,71,65	
69	✓✓	Install Rebar/Forms - East CMU Stem Wall	12 d	3/3/25	3/20/25	3/3/25	3/20/25	3/3/25	3/20/25	0 d	0 d	64SS	71,65	
65	✓✓	Pour Concrete - West CMU Stem Wall Sect 1	1 d	3/24/25	3/24/25	3/24/25	3/24/25	3/24/25	3/24/25	0 d	0 d	69,64	66FS+2 ed	
71	✓✓	Pour Concrete - East CMU Stem Wall Sect 1	1 d	3/24/25	3/24/25	3/24/25	3/24/25	3/24/25	3/24/25	0 d	0 d	69,64	72FS+2 ed	
66	✓✓	Pour Concrete - West CMU Stem Wall Sect 2	1 d	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	0 d	0 d	65FS+2 ed	25,67	
72	✓✓	Pour Concrete - East CMU Stem Wall Sect 2	1 d	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	0 d	0 d	71FS+2 ed	29,73	
67	✓✓	Cure Concrete - West CMU Stem Wall	4 d	3/28/25	4/3/25	3/28/25	4/3/25	3/28/25	4/3/25	0 d	0 d	66	68	
73	✓✓	Cure Concrete - East CMU Stem Wall	4 d	3/28/25	4/3/25	3/28/25	4/3/25	3/28/25	4/3/25	0 d	0 d	72	74	
68	✓✓	Backfill - West CMU Stem Wall	2 d	4/7/25	4/8/25	4/7/25	4/8/25	4/7/25	4/8/25	0 d	0 d	67	70	
74	✓✓	Backfill - East CMU Stem Wall	2 d	4/7/25	4/8/25	4/7/25	4/8/25	4/7/25	4/8/25	0 d	0 d	73	75	
70	✓✓	Install CMU - West Wall	10 d	4/30/25	5/16/25	4/30/25	5/16/25	4/30/25	5/16/25	0 d	0 d	68,9	76FS+28 ed	
75	✓✓	Install CMU - East Wall	8 d	5/5/25	5/16/25	5/5/25	5/16/25	5/5/25	5/16/25	0 d	0 d	74,9	76FS+28 ed	
76	✓✓	Coatings - Anti Graffiti at CMU Walls	12 d	7/14/25	7/31/25	7/14/25	7/31/25	7/14/25	7/31/25	0 d	0 d	75FS+28 ed,7102		
10		New Booster Pump Station	145 d	3/25/25	12/9/25	3/25/25	NA	3/25/25	5/21/26	90 d	90 d			
11	✓✓	Install Electric -Secondary Service Conduits	2 d	3/25/25	3/26/25	3/25/25	3/26/25	3/25/25	3/26/25	0 d	0 d	2	13,12	
13	✓✓	Install Electric - Underslabs Rough	15 d	3/25/25	4/17/25	3/25/25	4/17/25	3/25/25	4/17/25	0 d	0 d	11	20	

ID	Task Mo	Task Name	Duration	Start	Finish	Actual Start	Actual Finish	Late Start	Late Finish	Free Slack	Total Slack	Predecessors	Successors	
14		Disinfect & Test - 20" Discharge & 10" Future	2 d	3/25/25	3/26/25	3/25/25	3/26/25	3/25/25	3/26/25	0 d	0 d 12		15	
15		Install Piping - 20" Discharge & 10" Future	2 d	3/25/25	3/26/25	3/25/25	3/26/25	3/25/25	3/26/25	0 d	0 d 14		16	
16		Install Rebar/Forms - 20" Discharge & 10" Future	2 d	3/25/25	3/26/25	3/25/25	3/26/25	3/25/25	3/26/25	0 d	0 d 15		17	
17		Pour Concrete - 20" Discharge	1 d	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	3/27/25	0 d	0 d 16		19,18	
12		Backfill - Secondary Service Conduits	1 d	4/3/25	4/3/25	4/3/25	4/3/25	4/3/25	4/3/25	0 d	0 d 11		14	
18		Install & Pour 10" Future Encasement	1 d	4/3/25	4/3/25	4/3/25	4/3/25	4/3/25	4/3/25	0 d	0 d 17		19	
19		Cure Concrete - Encasements	5 d	4/3/25	4/10/25	4/3/25	4/10/25	4/3/25	4/10/25	0 d	0 d 17,18		22,20	
20		Excavate/Prep - Footings & Slab	1 d	4/21/25	4/21/25	4/21/25	4/21/25	4/21/25	4/21/25	0 d	0 d 13,19		21	
21		Install Rebar - Footings	2 d	4/22/25	4/23/25	4/22/25	4/23/25	4/22/25	4/23/25	0 d	0 d 20		22	
22		Pour Concrete - Footings 1st Pour	1 d	4/24/25	4/24/25	4/24/25	4/24/25	4/24/25	4/24/25	0 d	0 d 21,19		23FS+2 ed...	
24		Cure Concrete - Footings	2 d	4/24/25	4/28/25	4/24/25	4/28/25	4/24/25	4/28/25	0 d	0 d 22		27	
25		Install Rebar/Forms - Slab	3 d	4/25/25	4/30/25	4/25/25	4/30/25	4/25/25	4/30/25	0 d	0 d 66,22		26	
23		Pour Concrete - Footings 2nd Pour	1 d	4/28/25	4/28/25	4/28/25	4/28/25	4/28/25	4/28/25	0 d	0 d 22FS+2 ed			
26		Pour Concrete - Slab 1st Pour	1 d	4/29/25	4/29/25	4/29/25	4/29/25	4/29/25	4/29/25	0 d	0 d 25		27SS+2 ed...	
27		Pour Concrete - Slab 2nd Pour	1 d	5/1/25	5/1/25	5/1/25	5/1/25	5/1/25	5/1/25	0 d	0 d 26SS+2 ed,24		28,29,34	
28		Cure Concrete - Slab	2 d	5/1/25	5/5/25	5/1/25	5/5/25	5/1/25	5/5/25	0 d	0 d 26,27		32	
29		Install Rebar/Forms - Stemwall, Pads & Supports	3 d	5/5/25	5/7/25	5/5/25	5/7/25	5/5/25	5/7/25	0 d	0 d 72,27		30	
34		Install Pumping - Vertical Turbine Pumps	1 d	5/5/25	5/5/25	5/5/25	5/5/25	5/5/25	5/5/25	0 d	0 d 27		35,36	
35		Install Piping - WS Discharge Piping	2 d	5/6/25	5/7/25	5/6/25	5/7/25	5/6/25	5/7/25	0 d	0 d 34		36,30	
30		Pour Concrete - Stemwall, Pads & Supports	1 d	5/8/25	5/8/25	5/8/25	5/8/25	5/8/25	5/8/25	0 d	0 d 29,35		31	
31		Cure Concrete - Stemwall, Supports & Pads	5 d	5/12/25	5/19/25	5/12/25	5/19/25	5/12/25	5/19/25	0 d	0 d 30		32	
32		Install CMU - Building Walls	17 d	6/2/25	6/30/25	6/2/25	6/30/25	6/2/25	6/30/25	0 d	0 d 31,9,28		33,86	
33		Cure CMU - Building Walls	8 d	7/1/25	7/14/25	7/1/25	7/14/25	7/1/25	7/14/25	0 d	0 d 32		36,44	
44		Coatings - CMU Sealer & Anti Graffiti	4 d	7/24/25	7/30/25	7/24/25	7/30/25	7/24/25	7/30/25	0 d	0 d 33		41,43	
36		Install Roof - Trusses	4 d	8/5/25	8/11/25	NA	NA	8/14/25	8/20/25	0 d	6 d 33,34,35,8		37,43	
37		Install Roof - Metal Deck	3 d	8/12/25	8/14/25	NA	NA	8/26/25	8/28/25	0 d	8 d 36		39,40,45	
38		Install Roof - Skylights & Hatches	1 d	8/18/25	8/18/25	NA	NA	5/18/26	5/18/26	1 d	149 d 39SS		42	
39		Install Roof - Insulation & Underlayment	2 d	8/18/25	8/19/25	NA	NA	5/14/26	5/18/26	0 d	148 d 37		42,38SS	
40		Install Doors - Exterior w/ temp hardware	2 d	8/18/25	8/19/25	NA	NA	9/2/25	9/3/25	2 d	8 d 37		48	

ID	Task Mo	Task Name	Duration	Start	Finish	Actual Start	Actual Finish	Late Start	Late Finish	Free Slack	Total Slack	Predecessors	Successors	
43		Install Ceiling - Metal Framing & Drywall	3 d	8/12/25	8/14/25	NA	NA	8/21/25	8/26/25	0 d	6 d 44,36	46,45,41S...		
41		Install Walls - PT & Plywood	2 d	8/13/25	8/14/25	NA	NA	8/25/25	8/26/25	0 d	6 d 43SS+1 d,44	46		
42		Instal Roof - Metal Roofing	3 d	8/20/25	8/25/25	NA	NA	5/19/26	5/21/26	148 d	148 d 39,38			
45		Coatings - Chemical Room Floor	4 d	8/18/25	8/21/25	NA	NA	9/11/25	9/17/25	0 d	14 d 43,37	47		
46		Painting - Plywood Walls & Drywall Ceiling	4 d	8/18/25	8/21/25	NA	NA	8/27/25	9/3/25	0 d	6 d 43,41	48		
47		Cure Coating - Chem Room Floor	4 d	8/25/25	8/28/25	NA	NA	9/18/25	9/24/25	0 d	14 d 45	50		
48		Install Electrical - Panels	4 d	8/25/25	8/28/25	NA	NA	9/4/25	9/10/25	0 d	6 d 46,40	49		
49		Install Electrical - O/H Conduit	4 d	9/2/25	9/8/25	NA	NA	9/11/25	9/17/25	0 d	6 d 48	51		
50		Install HVAC - Ducting, Fans, Louvers	4 d	9/2/25	9/8/25	NA	NA	9/25/25	10/1/25	0 d	14 d 47	53,52		
51		Install Electrical - Fixtures	3 d	9/9/25	9/11/25	NA	NA	9/18/25	9/23/25	0 d	6 d 49	56,54		
52		Install Chemical - Tank, Pumps & Piping	4 d	9/9/25	9/15/25	NA	NA	1/19/26	1/22/26	0 d	70 d 50	55		
53		Install HVAC - Ductless Splits	3 d	9/9/25	9/11/25	NA	NA	10/2/25	10/7/25	8 d	14 d 50	57		
54		Install Electrical - Pull Wire	8 d	9/15/25	9/25/25	NA	NA	9/24/25	10/7/25	0 d	6 d 51	57		
55		Install Plumbing - Piping & Fixtures	4 d	9/16/25	9/22/25	NA	NA	1/26/26	1/29/26	0 d	70 d 52	56		
56		Install Doors/Windows - Remaining w/ Hardware	2 d	9/23/25	9/24/25	NA	NA	2/2/26	2/3/26	29 d	70 d 51,55	60		
57		Install Electrical - Terminations	12 d	9/29/25	10/16/25	NA	NA	10/8/25	10/28/25	0 d	6 d 54,53	58		
58		Install Electrical - Testing	4 d	10/20/25	10/23/25	NA	NA	10/29/25	11/4/25	0 d	6 d 57	59		
59		Start Up & Testing - BPS	12 d	10/27/25	11/17/25	NA	NA	11/5/25	11/26/25	0 d	6 d 58,86	60,102,10...		
60		Coatings - Finish Coatings & Painting	8 d	11/18/25	12/2/25	NA	NA	2/4/26	2/18/26	0 d	41 d 59,56	61		
61		Install ID's - Signs, Labels, etc.	4 d	12/3/25	12/9/25	NA	NA	2/19/26	2/25/26	36 d	41 d 60	102		
84														
85		Complete Well Rehab and Site Work	119 d	7/14/25	2/17/26	7/14/25	NA	7/14/25	2/25/26	5 d	5 d			
86		Install Piping - Sanitary Sewer Tie In	6 d	7/14/25	7/22/25	7/14/25	7/22/25	7/14/25	7/22/25	0 d	0 d 32	59		
97		Pour Concrete - Remaining Site(Sidewalks, Bollards, Gate)	4 d	7/21/25	7/24/25	7/21/25	7/24/25	7/21/25	7/24/25	0 d	0 d	98		
98		Cure Concrete - Remaining Site(Sidewalks, Bollards, Gate)	8 d	7/25/25	8/7/25	7/25/25	NA	7/25/25	2/10/26	95 d	100 d 97	99		
87		Shutdown/ Disconnect - Well Pump(12/1 per district shutdown reqmnt)	1 d	12/1/25	12/1/25	NA	NA	12/1/25	12/1/25	0 d	0 d 59	88		
88		Remove - Existing Pump	2 d	12/2/25	12/3/25	NA	NA	12/2/25	12/3/25	0 d	0 d 87	89		

ID	Task Mo	Task Name	Duration	Start	Finish	Actual Start	Actual Finish	Late Start	Late Finish	Free Slack	Total Slack	Predecessors	Successors	
89		Demo - Concrete Pedestal	1 d	12/4/25	12/4/25	NA	NA	12/4/25	12/4/25	0 d	0 d 88		90	
90		Pour Concrete - Well Pump Pedestal	3 d	12/8/25	12/10/25	NA	NA	12/8/25	12/10/25	0 d	0 d 89		91,79	
91		Cure Concrete - Well Pump Pedestal	8 d	12/11/25	12/24/25	NA	NA	12/11/25	12/24/25	0 d	0 d 90		92	
92		Install Pump - Well	4 d	12/29/25	1/6/26	NA	NA	12/29/25	1/6/26	0 d	0 d 91,83		93,94	
93		Install Piping - Well Discharge & Waste	10 d	1/7/26	1/22/26	NA	NA	1/7/26	1/22/26	0 d	0 d 92		95	
94		Install Electrical - Well Power & Control	2 d	1/7/26	1/8/26	NA	NA	1/27/26	1/28/26	11 d	11 d 92		96	
95		Pour Concrete - Well Pad	3 d	1/26/26	1/28/26	NA	NA	1/26/26	1/28/26	0 d	0 d 93		96	
96		Start Up & Testing - Well	2 d	1/29/26	2/2/26	NA	NA	1/29/26	2/2/26	0 d	0 d 94,95		102,104,99	
99		Install AB - Paving & Surfacing Areas	8 d	2/3/26	2/17/26	NA	NA	2/11/26	2/25/26	0 d	5 d 96,98		102	
77														
78		Demo Existing BPS	8 d	12/11/25	12/24/25	NA	NA	12/11/25	12/24/25	0 d	0 d			
79		Shutdown - Disconnect Utilities	1 d	12/11/25	12/11/25	NA	NA	12/11/25	12/11/25	0 d	0 d 90		81,80SS	
80		Remove Piping - Temporary Well & Water	1 d	12/11/25	12/11/25	NA	NA	12/11/25	12/11/25	0 d	0 d 79SS		81	
81		Demo/Remove - Structure	3 d	12/15/25	12/17/25	NA	NA	12/15/25	12/17/25	0 d	0 d 79,80		82	
82		Demo/Remove - Foundations	2 d	12/18/25	12/22/25	NA	NA	12/18/25	12/22/25	0 d	0 d 81		83	
83		Backfill & Grade	2 d	12/23/25	12/24/25	NA	NA	12/23/25	12/24/25	0 d	0 d 82		92	
100														
101		Project Closeout	21 d	2/3/26	3/11/26	NA	NA	2/3/26	3/11/26	0 d	0 d			
104		Submit Final O&M's	21 d	2/3/26	3/11/26	NA	NA	2/3/26	3/11/26	0 d	0 d 59,96		3	
102		Final Walkthrough	2 d	2/18/26	2/19/26	NA	NA	2/26/26	3/2/26	0 d	5 d 61,59,96,76,9		103	
103		Perform Punchlist	6 d	2/23/26	3/3/26	NA	NA	3/3/26	3/11/26	5 d	5 d 102		3	





The Gantt chart illustrates the project timeline and tasks for Well Rehabilitation and Site Work, spanning from Q3 2025 to Q4 2026. The tasks are categorized into interior construction, exterior construction, and site cleanup.

Interior Construction Tasks (August 2025 - January 2026):

- Install Ceiling - Metal Framing & Drywall
- Install Walls - PT & Plywood
- Install Roof - Metal Roofing
- Coatings - Chemical Room Floor
- Painting - Plywood Walls & Drywall Ceiling
- Cure Coating - Chem Room Floor
- Install Electrical - Panels
- Install Electrical - O/H Conduit
- Install HVAC - Ducting, Fans, Louvers
- Install Electrical - Fixtures
- Install Chemical - Tank, Pumps & Piping
- Install HVAC - Ductless Splits
- Install Electrical - Pull Wire
- Install Plumbing - Piping & Fixtures
- Install Doors/Windows - Remaining w/ Hardware
- Install Electrical - Terminations
- Install Electrical - Testing
- Start Up & Testing - BPS
- Coatings - Finish Coatings & Painting
- Install ID's - Signs, Labels, etc.

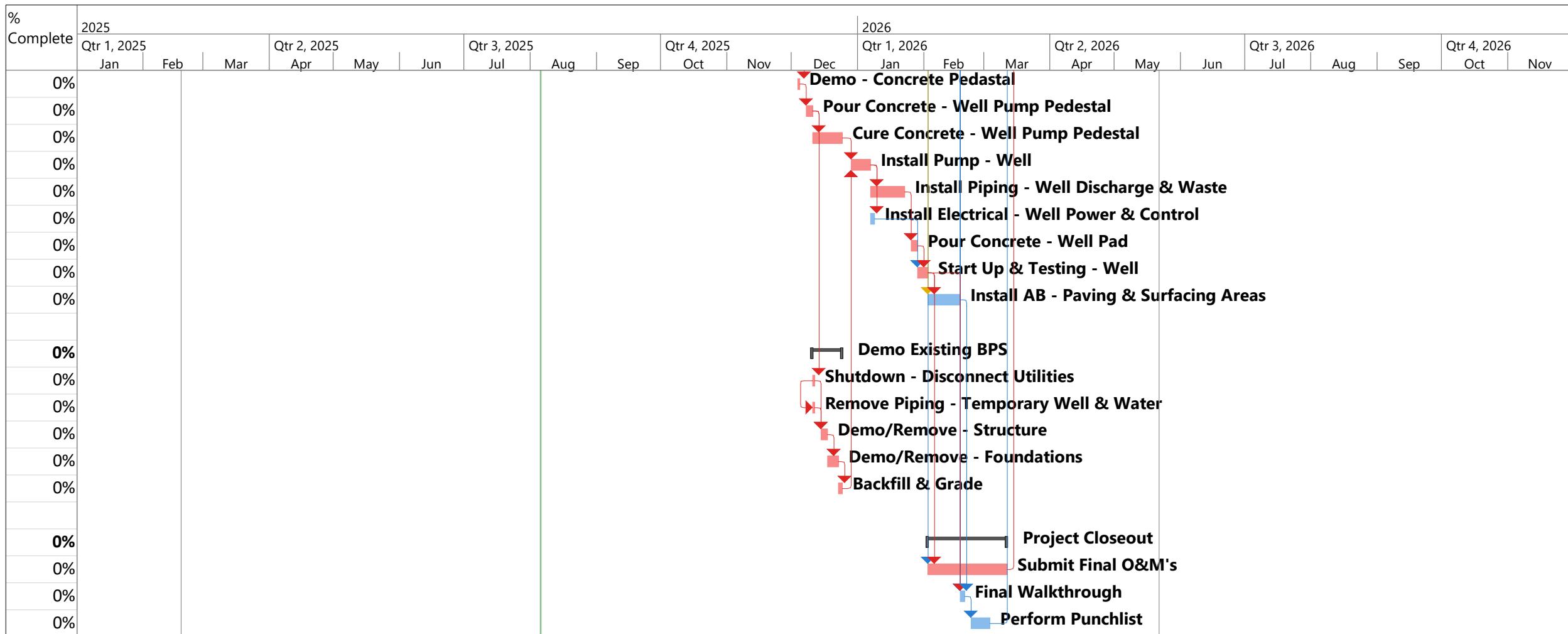
Exterior Construction Tasks (September 2025 - January 2026):

- Install Piping - Sanitary Sewer Tie In
- Pour Concrete - Remaining Site(Sidewalks, Bollards, Gate)
- Cure Concrete - Remaining Site(Sidewalks, Bollards, Gate)

Site Work Tasks (January 2026 - April 2026):

- Shutdown/ Disconnect - Well Pump(12/1 per district shutdown reqmnt)
- Remove - Existing Pump

Summary Task: Complete Well Rehab and Site Work



Topic: Meter Replacement And Meter Accuracy Program

Date: August 7, 2025

Item For: Informational

Submitted By: Lucas Campbell, Distribution Superintendent

BACKGROUND

The current meter manufacturer used throughout CWD's entire system is Neptune. Approximately ten years ago, the district standardized all metering equipment by replacing Hersey, ABB, and Itron software and meters with Neptune. This decision was made to address the inefficiencies, cost burdens, and operational challenges associated with managing multiple metering platforms and software systems. As outlined in the District's Construction Standards, the following meters are currently used:

1. $\frac{3}{4}$ " to 1" Meters – Neptune T-10 meter CF R900i E-Coder register
2. 1.5" to 2" Meters – Neptune T-10 meter CF R900i E-Coder register
3. 3" and larger Meters – Neptune Tru-Flo meter CF R900i E-Coder register
4. Irrigation only Services – 1 $\frac{1}{2}$ " and Larger (only with District approval) Neptune High Performance Turbine CF R900i E-Coder register
5. Fire Service Rated Meters – Neptune Protectus III Fire Service meter CF R900i E-Coder

At present, roughly 11,936 sites are equipped with Neptune mechanical meters.

SUMMARY/DISCUSSION

Staff is committed to keeping up with industry standards and meeting AWWA recommendations. Ultrasonic meters are becoming increasingly popular industry wide for measuring water consumption in commercial and residential connections due to many factors, such as:

- **No moving parts:** Reduces wear and tear, leading to a longer lifespan and less maintenance.
- **Higher accuracy at low flows:** Wider range for detecting and billing for small leaks and night-time usage. Expanded ultra-low capabilities and eliminates crossover.
- **Bi-directional flow measurements:** Useful in complex plumbing systems. This will help support CWD's Cross Connection Control Policy, the meter will send a notification if a backflow situation were present.
- **Lower total cost of ownership:** When comparing ultrasonic meters to mechanical meters (in most cases) the ultrasonic meter is cheaper. Additional savings come from reduced labor, fewer replacements, and improved billing accuracy. Ultrasonic meters also seem to have longer life span based on the warranty provided by the manufacturer listed below.
- **Warranty:** Ultrasonic meters' expected lifespan is 15 – 20 years compared to mechanical meters' 10 – 15 years. The manufacturer provides a 20-year prorated warranty for sizes 5/8 – 1-inch and 10-year prorated warranty for the larger meter sizes 3 – 12-inch.

Staff have developed a draft Meter Replacement and Meter Accuracy Program document summarizing the District's meter information.

FISCAL IMPACT

The District is currently incurring higher costs by continuing to install mechanical meters compared to ultrasonic meters of the same size category. For example, a standard 1-inch T10 mechanical meter costs approximately \$470.73, while a 1-inch Neptune MACH 10 ultrasonic meter costs around \$420.00 - a savings of \$50.73 per meter when choosing the ultrasonic option.

CWD typically replaces approximately 500 1-inch meters per year. At current pricing:

- 500 T10 mechanical meters would cost approximately \$235,365.00.
- 500 Mach 10 ultrasonic meters would cost \$210,000.00.

This results in an annual savings of \$25,365 by switching to ultrasonic meters for this meter size alone.

Furthermore, the cost savings increase with larger meter sizes, where the price gap between mechanical and ultrasonic meters tends to widen. In addition to upfront savings, ultrasonic meters also provide long-term benefits such as improved accuracy, reduced maintenance, and compatibility with advanced metering infrastructure (AMI), further enhancing their value over time.

RECOMMENDATION

None at this time. This is item is informational.

ATTACHMENT(S)

Attachment A: Meter Replacement and Meter Accuracy Progam Document

Attachment B: Large meter Mach 10 Specifications

Attachment C: Small meter Mach 10 Specifications

Attachment D: Mach 10 Meter Solutions



METER REPLACEMENT AND METER ACCURACY PROGRAM



August 2025

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Financial Considerations	5
Next Steps	7

Background

The current Carmichael Water District construction standards is as follows:

3.10 Service and Meter Installation

A. Water Meters – Water meters approved by the District are listed below and are equipped with factory potted Star Hexagram MTUs. Approved meters are as follows:

- 1. ¾" to 1" Meters – Neptune T-10 meter CF R900i E-Coder register*
- 2. 1.5" to 2" Meters – Neptune T-10 meter CF R900i E-Coder register*
- 3. 3" and larger Meters – Neptune Tru-Flo meter CF R900i E-Coder register*
- 4. Irrigation only Services – 1 ½" and Larger (only with District approval) Neptune High Performance Turbine CF R900i E-Coder register*
- 5. Fire Service Rated Meters – Neptune Protectus III Fire Service meter CF R900i E-Coder*

The current meter manufacturer used throughout CWD's entire system is Neptune. At present, roughly 11,936 sites are equipped with Neptune meters. Approximately ten years ago, the district standardized all metering equipment by replacing Hersey, ABB, and Itron software and meters with Neptune. This decision was made to address the inefficiencies, cost burdens, and operational challenges associated with managing multiple metering platforms and software systems. CWD currently uses Automated Meter Reading (AMR) technology with Neptune's 360 software. Meters are read bi-weekly, and all usage data is downloaded into Neptune 360 then imported into Billing's software. The District spends \$11,346.73 annually to utilize Neptune 360's proprietary software and its full offering of meter tracking and management applications.

Water meters age over time and typically under-register usage, especially at low flow rates. Industry standards developed through the American Water Works Association (AWWA) include recommended testing and replacement schedules for all sizes of mechanical meters. An efficient, structured meter testing and replacement program is essential to ensure accurate billing and long-term system sustainability. In both residential and commercial accounts, there are opportunities for the District to improve operational efficiency, increase revenue, and reduce unaccounted-for water losses. Currently, CWD is underperforming on meters 3-inch and greater in regards to both meter testing and replacement; there is currently no established standard operating procedure for testing or replacement. Regarding meters 2 inches and less, CWD has been actively following AWWA recommendations as closely as possible, replacing aging mechanical meters with new mechanical units. However, past practice has been to replace only the meter body while leaving the existing register in service as long as it was still functioning. In many cases, this has resulted in follow-up service orders to replace failing registers, leading to additional staff time spent on the

same asset. Additionally, CWD is nearing a large amount of meter replacements based off AWWA standards.

Types of Commonly-Used Meters

- **Positive-Displacement Meters [Mechanical]**: Suitable for low-flow and residential applications. Estimates flow by counting the displacements of a fixed, small amount of water within the meter.
- **Turbine Meters [Mechanical]**: Suitable for high-flow and commercial uses like apartment complexes, hotels, or factories. Estimates flow by measuring the speed of a spinning turbine as water flows.
- **Compound Meters [Mechanical]**: Combines the elements of positive-displacement and turbine meters. Used when consumption consistently varies from low- to high-flow rates.
- **Ultrasonic Meters [Non-Mechanical]**: Uses sound waves to measure flow velocity. There are no moving parts with this style of water meter.

Approach

CWD is committed to keeping up with industry standards and meeting or exceeding AWWA recommendations. Ultrasonic meters are becoming increasingly popular industry wide for measuring water consumption in commercial and residential connections due to many factors, such as:

- **No moving parts:** Reduces wear and tear, leading to a longer lifespan and less maintenance.
- **Higher accuracy at low flows:** Great for detecting and billing for small leaks and night-time usage. Superior ultra-low capabilities and eliminates crossover.
- **Bi-directional flow measurements:** Useful in complex plumbing systems. This will help support CWD's Cross Connection Control Policy, the meter will send a notification if a backflow situation were present.
- **Smart integration:** Ultrasonic meters are AMI/AMR-ready enabling remote reads and real-time monitoring. *Note: AMI (Advanced Metering Infrastructure) is a remote metering technology. This technology needs to be considered when meter replacement needs are met.
- **Lower total cost of ownership:** When comparing ultrasonic meters to mechanical meters (in most cases) the ultrasonic meter is cheaper. Additional savings come from reduced labor, fewer replacements, and improved billing accuracy.
- **Warranty:** Ultrasonic meters provide a much more robust warranty, compared to mechanical meters, for both small and large meter sizes. A 20-year prorated warranty for sizes 5/8 – 1-inch and 10-year prorated warranty for meter sizes 3 – 12-inch.

The operating characteristics of the recommended ultrasonic non-mechanical water meters are compared to the standard Neptune T10 mechanical water meters that the district is currently using. The table below details flow ranges of the district's smallest meters. A 1-inch ultrasonic meter has the low flow reading capabilities of a 3/4-inch mechanical meter (see Table 1, below).

Table 1: Neptune Water Meter Operating Characteristics

Meter Type	Meter Size (Inches)	Normal Flow Range (Accuracy)	AWWA Standard for Meter Type and Size	Low-Flow Range (Accuracy)
Ultrasonic	5/8-inch	0.10 – 25 gpm (100% \pm 1.5%)	0.2 – 20 gpm	0.05 gpm (100% \pm 3.0%)
Ultrasonic	3/4-inch	0.10 – 35 gpm (100% \pm 1.5%)	0.5 – 30 gpm	0.05 gpm (100% \pm 3.0%)
Ultrasonic	1-inch	0.4 – 55 gpm (100% \pm 1.5%)	0.75 – 50 gpm	0.25 gpm (100% \pm 3.0%)
Positive-Displacement	5/8-inch	0.5 – 20 gpm (100% \pm 1.5%)	1 – 20 gpm	0.125 gpm (95%)
Positive-Displacement	3/4-inch	0.75 – 30 gpm (100% \pm 1.5%)	2 – 30 gpm	0.25 gpm (95%)
Positive-Displacement	1-inch	1 – 50 gpm (100% \pm 1.5%)	3 – 50 gpm	0.375 gpm (95%)

Methodology

The next section will detail the criteria in which CWD staff will be evaluating meters for testing and replacement requirements.

1. Inventory and Assessment

- **Data Collection:**
Compile meter age, type, size, manufacturer, and installation dates.
- **Usage Analysis:**
Compare historical usage trends for anomalies.
- **Condition Scoring:**
Categorize meters by condition (e.g. Good, Watch, or Replace).
- **Meter Testing:**
Develop large meter testing program that adheres to AWWA recommendations.

Current CWD Meter Statistics

There are currently 11,936 meters throughout Carmichael Water District. Of which, there are approximately 136 meters that are 3-inch or larger. Roughly 76% (9,071) of all meters are at least 10 years old, while 42% (5,013) of all meters are at least 15 years old (see Figure 1, below).

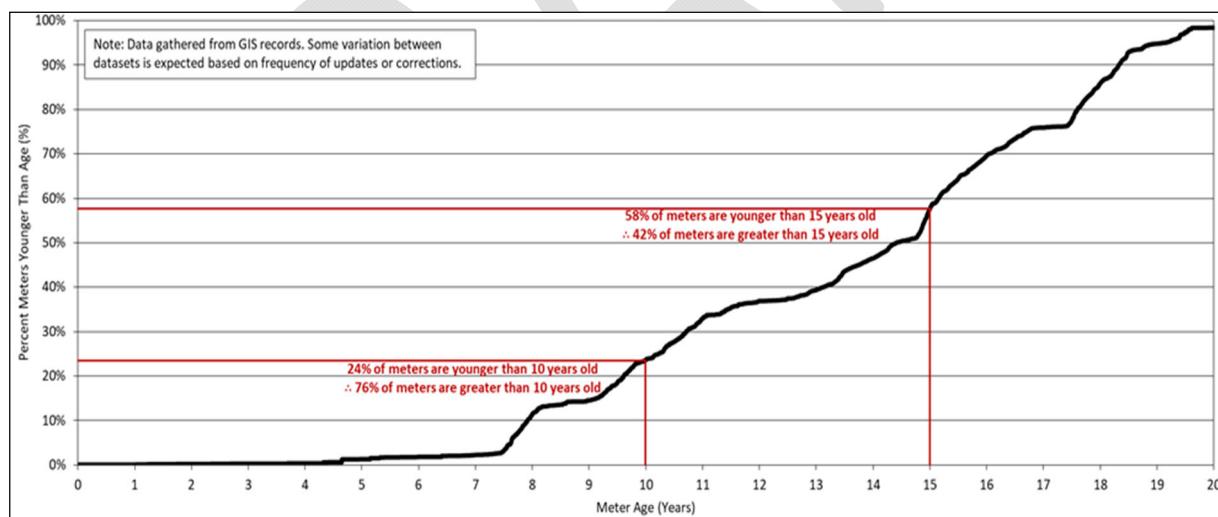


Figure 1: Histogram of the Age of Current Water Meters at Carmichael Water District

Currently, the District staff replaces approximately 500 meters per year. According to the AWWA replacement standards (see Table 2) based off a 12 year replacement interval, roughly 7,366 meters should be scheduled for replacement due to their age. At the current work load and replacement rate it will take roughly 14.7 years to replace these 7,366 meters.

2. *Meter Testing*

General Industry-Accepted Testing Standards (AWWA Guidelines)

AWWA suggests periodic accuracy testing based on meter size and flow volume:

- **5/8-inch – 1-inch meters:** 10 years after installation
- **1.5-inch – 2-inch meters:** every 4 – 5 years
- **3-inch – 4-inch meters:** every 2 – 3 years
- **6-inch and above:** every 1 – 2 years (especially for high-consumption sites).

~~*For ultrasonic, non-mechanical meters, the expected lifespan is 15 – 20 years. The District is automatically notified through Neptune 360 once a meter does not register correctly. This will reduce testing frequencies.~~

- **Annual Testing Plan:**

3/4-inch – 2-inch meters are more economical to replace rather than to test and repair when accuracy or damage issues arise. Many utilities regularly replace 2-inch or smaller meters when they exceed age or volume thresholds. Bench test any meter showing significant deviation < or equal to 2" when meter is less than the expected replacement age or usage.

- **Large Meter Focus:**

CWD does not have the capabilities to test meters 3" and larger. Hire an outside tester for 3" and higher meters to validate replacement. Starting with higher using accounts. Test 10% of meters based off usage, age and size groups. Hire private testing company to test all meters 3" and larger every 3 years.

3. *Meter Replacement*

For mechanical meters, the District must determine when registering is not being performed correctly per-meter and decide on a replacement schedule. AWWA suggests periodic replacement based on age, usage, and accuracy (see Table 2, below).

Table 2: Mechanical Meter Replacement Schedule (AWWA Recommendations)

Meter Size (Inches)	Age-Based Replacement Interval (Years)	Volume-Based Replacement Interval (Million Gallons)
5/8-inch – 3/4-inch	10 – 15 years	1.0 – 1.5 MG
1-inch	10 – 12 years	1.5 – 2.5 MG
1.5-inch – 2-inch	8 – 10 years	3 – 5 MG
3-inch and above	5 – 8 years	Regular Testing Recommended

~~*For ultrasonic, non-mechanical meters, the expected lifespan is 15 – 20 years. The District is automatically notified through Neptune 360 once a meter does not register correctly. This will reduce testing frequencies.~~

- **Replacement Schedule:**

The district will prioritize replacement of meters that are 15-years of age and older. Analyze high-using sites. Rotate residential meter replacement to 20-year cycles when using ultrasonic meters.

- **Technology Upgrade:**

Evaluate AMI (Advanced Metering Infrastructure) in the future. All ultrasonic meters are adaptable to AMI.

- **Procurement and Installation:**

Specify annually how many $\frac{3}{4}$ - 2-inch mechanical meters will be replaced with ultrasonic meters. Meters 3-inch and greater upgrades will be based on testing results. High using accounts will be tested first. Use trained staff and contractors for installation. Document installation and GPS-tag meter locations.

4. Efficiency Monitoring

- **Water Audit:**

Conduct annual Water Loss Audit. Track non-revenue water and identify causes.

- **Data Analytics:**

Use SCADA, AMI, or billing software (Neptune 360) to identify anomalies and investigate zero reads. Cross-reference usage with service calls and complaints.

5. Staffing and Resources

- **Meter Program Coordinator:**

Designate a Meter Program Coordinator. Train field staff in meter technology, testing and installation standards. Utilize staff and contractors to meet replacement needs. Allocate annual budget for meter purchases, tools, software, and testing services.

6. Customer Communication

- **Notification Campaign:**

Send pre-replacement notices to affected customers. Include benefits of meter change-out (accuracy, transparency).

- **FAQs and Support:**

Provide information on the District website about CWD metering and meter testing.

7. *Key Performance Indicators*

- **Metrics:**

Establish and report on the necessary metrics to evaluate the success and growth of the program (see Table 3, below).

- **Large Meter Testing Program:**

Establish the large (3" and greater) meter testing program and replacement program that follows AWWA standards.

- **Annual Report:**

Produce an annual report to the Board including a summary of replacements, test results, and financial impact.

Table 3: Key Performance Indicators

Metric	Goal
Percent of Meters Less Than 15-Years Old	> 90%
Annual Meter Test Pass Rate	> 95%
Annual Percent Non-Revenue Water	< 10% system-wide
Meter-Related Customer Complaints	< 2% annually

Financial Considerations

Meter Size (Inches)	Complete Cost of Current Neptune T10/Tru Flow Meter (Mechanical)	Complete Cost of Neptune Mach 10 complete Meter (Ultrasonic)	Complete Cost of UME/Body Mechanical	Complete Cost of UME Ultrasonic
$\frac{3}{4}$	\$326.67	\$346.67	\$173.33	N/A
1	\$450.73	\$400.00	\$273.33	N/A
1 $\frac{1}{2}$	\$864.00	\$793.33		N/A
2	\$920.00	\$940.00		N/A
3	\$4151.33	12" LL - \$3299.33 17" LL - \$3371.33	\$3370.67	\$1820.00
4	\$5304.67	14" LL - \$4210.67 20" LL - \$4342.00	\$4370.67	\$2370.67
6	\$8727.33	18" LL - \$7008.00 24" LL - \$7112.00	\$6370.67	\$3470.67
8	\$14274.00	\$10711.33	Same as 6"	\$4570.67
	* \$20 adder for 6' antenna, \$42 adder for 20' antenna on mechanical and ultrasonic meters. Tru/Flo meters require two antennas	* \$20 adder for 6' antenna, \$42 adder for 20' antenna on mechanical and ultrasonic meters.		Full meter swap on 5/8"-2" meters, UME's on 3"+

Carmichael Water District is currently incurring higher costs by continuing to install mechanical meters compared to ultrasonic meters of the same size category. For example, a standard 1-inch T10 mechanical meter costs approximately \$470.73, while a 1-inch Neptune MACH 10 ultrasonic meter costs around \$420.00 - a savings of \$50.73 per meter when choosing the ultrasonic option.

CWD typically replaces approximately **500 1-inch meters per year**. At current pricing:

- 500 T10 mechanical meters would cost approximately **\$235,365.00**.
- 500 Mach 10 ultrasonic meters would cost **\$210,000.00**.

This results in an **annual savings of \$25,365.00** by switching to ultrasonic meters for this meter size alone.

Furthermore, the cost savings increase with larger meter sizes, where the price gap between mechanical and ultrasonic meters tends to widen. In addition to upfront savings, ultrasonic meters also provide long-term benefits such as improved accuracy, reduced maintenance, and compatibility with advanced metering infrastructure (AMI), further enhancing their value over time.

Implementing a testing program for larger meters will have a financial impact to the District. As previously noted, CWD does not have the capabilities to test large meters and has not historically contracted large meter testing, making this a new initiative.

Currently, there are 136 meters sized 3 inches and larger installed throughout the CWD system. Based on pricing provided by M&M Backflow and Meter Maintenance - a local contractor specializing in large meter testing - the **cost is approximately \$275.00 per meter**.

If the District were to test all 136 large meters to establish a baseline of meter accuracy, the total estimated cost would be approximately **\$37,400.00**.

While this represents a notable investment, obtaining accurate baseline data is critical for:

- Identifying underperforming or inaccurate meters.
- Supporting strategic replacement planning.
- Ensuring accurate billing and revenue recovery.
- Aligning with industry best practices.

Next Steps

Staff recommends that Carmichael Water District continue using Neptune as the District's sole meter manufacturer, rather than introducing an additional vendor. Adding a second manufacturer would require the purchase of proprietary software, meter reading equipment, additional staff training, and billing system modifications, all of which would result in unnecessary complexity and cost.

Staff further recommends transitioning from the current Neptune mechanical meters to Neptune's ultrasonic metering technology. Ultrasonic meters offer several advantages, including:

- No moving internal parts, reducing maintenance and wear.
- Improved reading accuracy.
- Longer warranty coverage.
- Lower overall purchase cost compared to mechanical meters.

It is also recommended that CWD's design standards be updated to adopt ultrasonic meters across all meter sizes. Specifically:

- All 2-inch and smaller meters that are identified for replacement will be replaced with Neptune MACH 10 ultrasonic meters.
- Larger meters will be systematically evaluated and replaced based on age, total volume registered, and meter accuracy test results.

As the water industry continues to evolve, CWD remains committed to adopting technologies and practices that offer cost-effective, long-term benefits to the District.

Superior Accuracy. Zero Maintenance.

Neptune® MACH 10® Ultrasonic Meter



The MACH 10® ultrasonic water meter features solid state ultrasonic technology including a factory-calibrated, replaceable unitized measuring element (UME) with no degradation of accuracy over time. Combined with a corrosion-resistant, lead free, high-copper alloy maincase, the MACH 10 is built to withstand demanding service conditions and deliver sustained accuracy over the life of the meter.

- Sizes 3" through 12"
- Extended low-flow range for superior leak detection
- Accuracy sustained over meter life
- Can be installed in both horizontal and vertical applications
- Open flow path design with low pressure loss
- Advanced ultrasonic technology with easily replaceable UME design
- Lead free, high-copper alloy maincase
- UL Listed and FM Approved (standard)
- Available in standard turbine and compound lay lengths
- No maintenance

Specifications

AWWA C715 Compliant

NSF/ANSI 61 Certified

UL Listed/FM Approved (Standard)

Maximum Operating Water Pressure

- 175 psi

Operating Water Temperature Range

- +33°F to +122°F (+0.5°C to +50°C)

Environmental Conditions

- Operating temperature: +14°F to +149°F (-10°C to +65°C)
- Storage temperature: -40°F to +158°F (-40°C to +70°C)

Expected Battery Life

- 10 years

Applications

- Potable water
- Fire service
- Reclaim water

Warranty

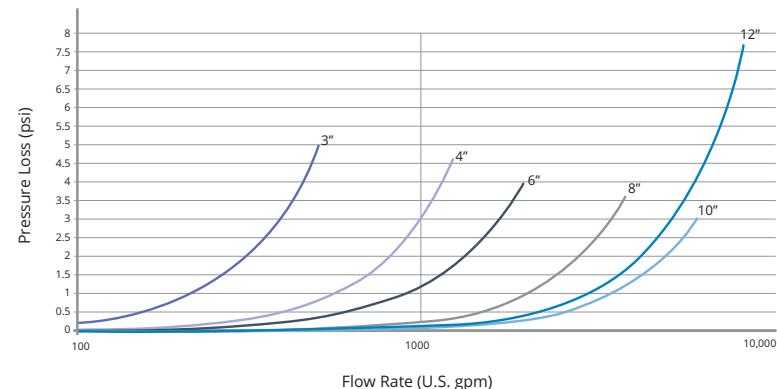
- Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.

System Compatibility

- Compatible with Neptune R900® System. Also available as MACH 10®)R900i™ for an integrated radio solution and MACH 10®)TC for Sensus Touch Coupler compatibility.

Pressure Loss

This chart shows typical meter performance. Individual results may vary.



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Operating Characteristics

Meter Size	Extended Low Flow @ 100% Accuracy (+/- 3.0%)	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	Safe Maximum Operating Capacity	
			Normal Operation (Non Fire Service)	Fire Service
3"	0.50 U.S. gpm	0.75 to 500 U.S. gpm	500 U.S. gpm	420 U.S. gpm
4"	0.75 U.S. gpm	1.5 to 1250 U.S. gpm	1250 U.S. gpm	1100 U.S. gpm
6"	1.0 U.S. gpm	2.0 to 2000 U.S. gpm	2000 U.S. gpm	1800 U.S. gpm
8"	4.0 U.S. gpm	6.0 to 4000 U.S. gpm	4000 U.S. gpm	4000 U.S. gpm
10"	6.0 U.S. gpm	10.0 to 6500 U.S. gpm	6500 U.S. gpm	6500 U.S. gpm
12"	8.0 U.S. gpm	12.0 to 8000 U.S. gpm	8000 U.S. gpm	8000 U.S. gpm

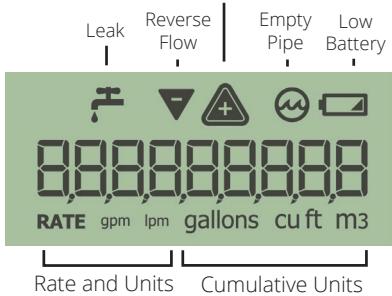
Registration

High Resolution (8-digit reading)		3"	4"	6" - 12"
1	U.S. Gallons	✓	✓	
10	U.S. Gallons			✓
0.1	Cubic Feet	✓	✓	
1	Cubic Feet			✓
0.01	Cubic Metres	✓	✓	
0.1	Cubic Metres			✓

LCD Display

9-digit display for extra resolution on manual reads.

Forward Flow + Warning for Excessive Flow



Dimensions

Meter Size	Length	Height	Weight
3"	12"	9½"	39 lbs
	17"	9½"	42 lbs
4"	14"	11"	51 lbs
	20"	11"	57 lbs
6"	18"	12¾"	79 lbs
	24"	12¾"	91 lbs
8"	20"	15 ¾"	160 lbs
10"	26"	17 ¾"	264 lbs
12"	19 ¾"	20"	292 lbs

Available Units of Measure

Consumption	Rate
Gallons	GPM
Cubic Feet	GPM
Cubic Metres	LPM



Unitized Measuring Element (UME)



Neptune Technology Group

1600 Alabama Highway 229
Tallassee, AL 36078
800-633-8754 f 334-283-7293

Advanced Operational Insights and Accuracy with No Maintenance

Neptune® MACH 10® Ultrasonic Meter



The MACH 10® ultrasonic water meter features solid state metrology with no degradation of accuracy over time for enhanced revenue potential. The meter features embedded temperature monitoring with proactive freeze warning capabilities as well as an option for pressure monitoring for operational insights and quality of service. With a corrosion-resistant, lead free, high-copper alloy maincase, the MACH 10 is built to withstand demanding service conditions and deliver sustained accuracy over the life of the meter.

- Sizes 5/8", 3/4", and 1"
- Provides temperature data and alarms for proactive monitoring
- Extended low-flow range for superior leak detection
- Versatile mounting with both horizontal and vertical installation
- Certified to UL 327B (3/4", 1") for residential fire service applications
- No moving parts eliminates added cost of meter maintenance
- Optional pressure sensor enables proactive infrastructure monitoring



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Specifications

AWWA C715 Compliant

NSF/ANSI 61 Certified

UL327B Certified
(Optional on $\frac{3}{4}$ ", 1")

Application

- Potable water
- Reclaim water
- Residential fire service (combo or standalone meter service lines)

Maximum Operating Water Pressure

- 175 psi

Operating Water Temperature Range

- +33°F to +122°F (+0.5°C to +50°C)

Environmental Conditions

- Operating temperature:
+14°F to +149°F (-10°C to +65°C)
- Storage temperature:
-40°F to +158°F (-40°C to +70°C)

Options

Embedded pressure monitoring
(PSI, kPa)

System Compatibility

- Compatible with AMR/AMI systems using either Neptune or Sensus protocol.
- Compatible with Neptune's R900, R900 LoRaWAN, and Cellular Endpoint.
- Also available as a MACH 10®)R900i™ and LoRaWAN® MACH 10®)R900i™ for an integrated radio solution or as a MACH 10®)TC for Sensus TouchCoupler connectivity.

Warranty

- Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.

Operating Characteristics

Meter Size	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	AWWA C715 Standard Type 1	Extended Low Flow @ 100% Accuracy (+/- 3%)
$\frac{5}{8}$ "	0.10 to 25 U.S. gpm 0.02 to 5.68 m ³ /h	0.2 to 20 U.S. gpm 0.05 to 4.54 m ³ /h	0.05 U.S. gpm 0.01 m ³ /h
$\frac{3}{4}$ "	0.10 to 35 U.S. gpm 0.02 to 7.95 m ³ /h	0.5 to 30 U.S. gpm 0.11 to 6.81 m ³ /h	0.05 U.S. gpm 0.01 m ³ /h
1"	0.40 to 55 U.S. gpm 0.09 to 12.49 m ³ /h	0.75 to 50 U.S. gpm 0.17 to 11.35 m ³ /h	0.25 U.S. gpm 0.06 m ³ /h

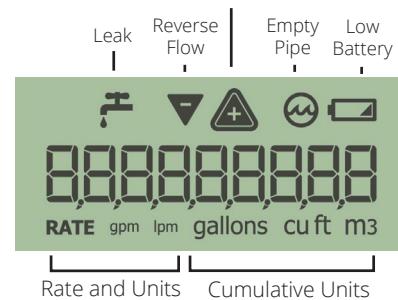
Registration

High Resolution (8-digit reading)	
0.1	U.S. Gallons
0.1	Imperial Gallons
0.01	Cubic Feet
0.001	Cubic Metres

LCD Display

9-digit display for extra resolution on manual reads.

Forward Flow + Warning for Excessive Flow



Available Units of Measure

Consumption	Rate
Gallons	GPM
Cubic Feet	GPM
Cubic Metres	LPM
Cubic Meters (International)	LPM
Imperial Gallons	GPM
Acre-Feet*	GPM
Litres*	LPM
Kilolitres*	LPM

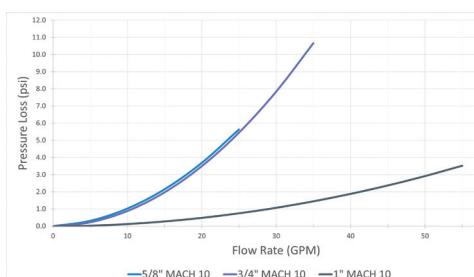
*Unit cannot be displayed on LCD

Dimensions

Meter Size	Length	Height	Threads (NPSM)
$\frac{5}{8}$ "	7 $\frac{1}{2}$ "	3 $\frac{3}{16}$ "	$\frac{3}{4}$ " - 14"
$\frac{5}{8}" \times \frac{3}{4}"$	7 $\frac{1}{2}$ "	3 $\frac{3}{16}$ "	1" - 11 $\frac{1}{2}$ "
$\frac{3}{4}"$	9"	3 $\frac{3}{16}$ "	1" - 11 $\frac{1}{2}$ "
$\frac{3}{4}" SL$	7 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "	1" - 11 $\frac{1}{2}$ "
$\frac{3}{4}" \times 1"$	9"	3 $\frac{3}{16}$ "	1 $\frac{1}{4}$ " - 11 $\frac{1}{2}$ "
1"	10 $\frac{3}{4}$ "	3 $\frac{11}{16}$ "	1 $\frac{1}{4}$ " - 11 $\frac{1}{2}$ "
1" x 1 $\frac{1}{4}$ "	10 $\frac{3}{4}$ "	3 $\frac{11}{16}$ "	1 $\frac{1}{2}$ " - 11 $\frac{1}{2}$ "

Pressure Loss

This chart shows typical meter performance. Individual results may vary.

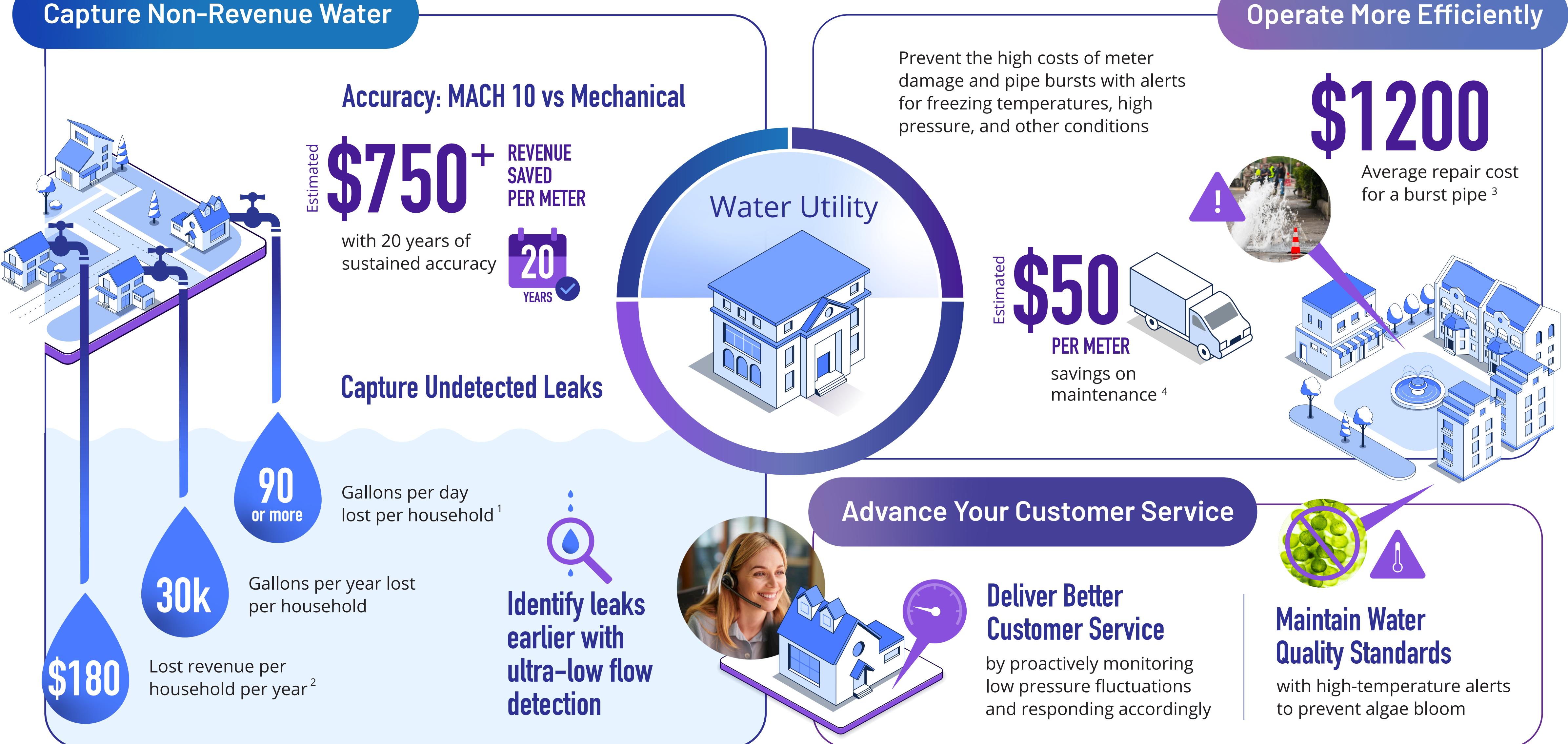


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MACH 10® Ultrasonic Meter Solutions



1. Lost in 10% of households <https://19january2017snapshot.epa.gov/www3/watersense/pubs/fixleak.html>

2. <https://worldpopulationreview.com/state-rankings/water-prices-by-state>

3. <https://waterfm.com/harnessing-data-science-solve-apparent-loss/>

4. Truck roll cost over time over the life of the meter

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Topic: La Sierra Landscaping Plan and Perimeter Wall Update

Date: August 5, 2025

Item For: Information

Submitted By: Greg Norris, Engineering Manager

BACKGROUND

The District is investing in the new La Sierra production well located on the northwest corner of Garfield and Engle Avenues. The well will have Aquifer Storage and Recovery (ASR) capability and is part of the District's overall goal to increase drought resiliency. Zim Industries completed the first phase of the project of well drilling and development during the summer of 2023 under a contract with the District.

Sierra National Construction (SNC) was awarded a separate contract based on low bid to construct the second phase of the project for \$3,423,000.00. This phase includes all topside improvements that are necessary to make the well site fully operational per design.

SUMMARY/DISCUSSION

As part of the SNC construction contract, a perimeter wall, approximately 520 linear feet, was installed around the well site to provide security to equipment and materials. The type and style of wall was selected based on installation speed, durability, maintenance requirements, aesthetics, and cost. The selected wall is a masonry product developed and manufactured by StackWall (<https://stackwall.com/>). The cost of the wall per SNC's bid is \$177,000. From the wall manufacturer's catalogue, District staff selected a wall style of Knotted Wood and a color of Earth to be installed.

A landscaping plan was also developed in the construction plan for the south side portion of the well site that is directly along Engle Drive. The purpose of the landscaping is to provide a strip of vegetation in front of the wall to provide breaks in the hardscape. The cost for the landscaping of the south wall is \$15,000 per SNC bid. The landscaping plan developed by GEI, including plant list is included as Attachment 1 with plant pictures in Attachment 2. Selected plant species are native plants with low-water use requirements.

After construction of the wall and further evaluation of the immediate surroundings, it was determined by District staff to expand the landscaping plan to both the west and east walls as well. At the time of this memo, SNC is developing a quote per the District's request to install vegetation strips along the east and west walls, similar to that included in the original plan for the south wall.

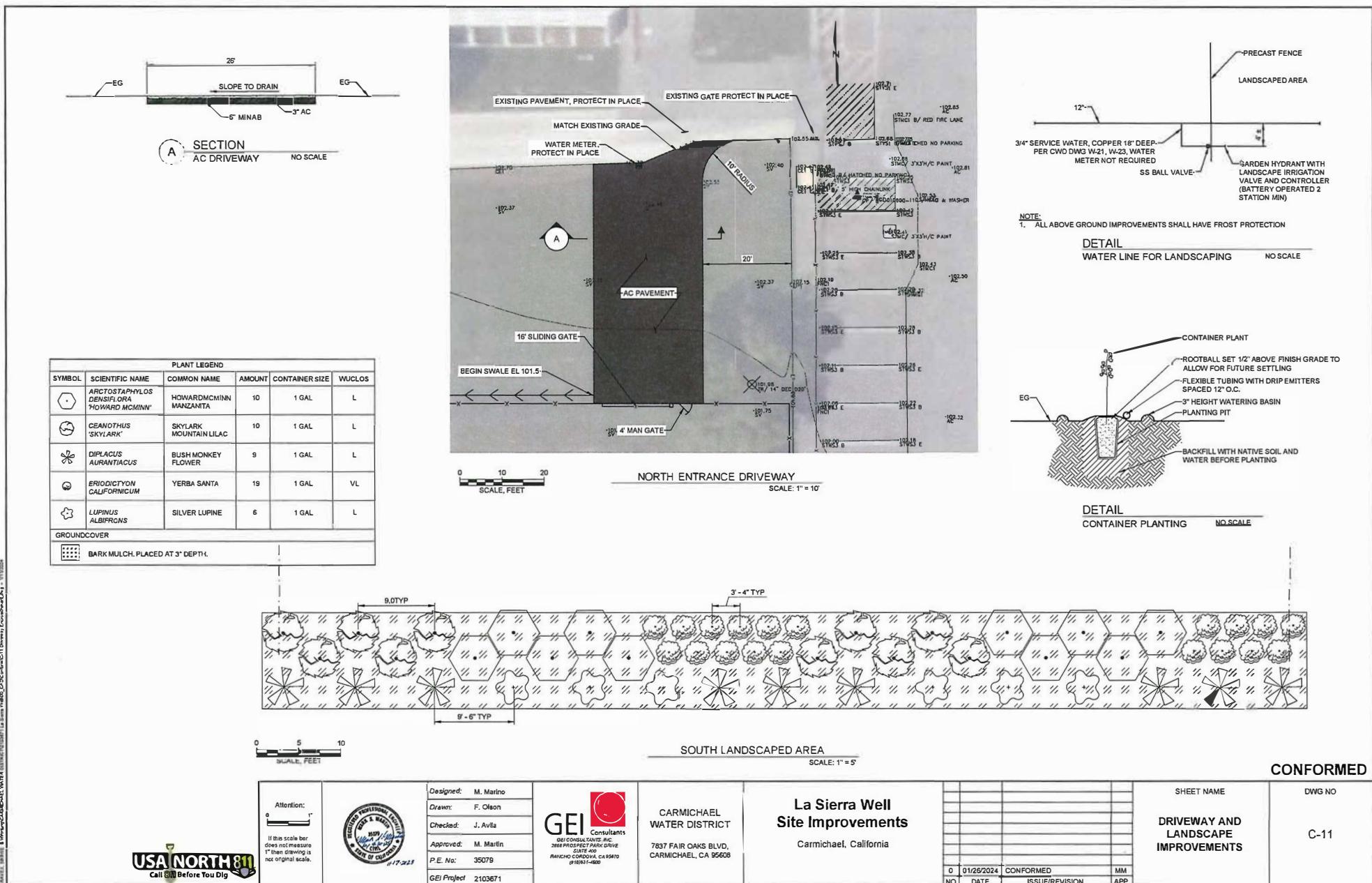
RECOMMENDATION

None, this is informational only.

ATTACHMENT(S)

1. Landscaping Plan by GEI.
2. Pictures of future landscaping areas and proposed plant species.

Attachment 1



Attachment 2

Picture A-South Side Wall



Picture B-West Side Wall



Picture C-East Side Wall



Picture D-Howard McMinn Manzanita



Picture E- Skylark Mountain Lilac



Picture F- Bush Monkey Flower



Picture G-Yerba Santa



© Keir Morse - keiriosity.com

Picture H- Silver Lupine



Topic: Information for Electric Building Sign

Date: August 10, 2025

Item For: Information

Submitted By: Greg Norris, Engineering Manager

BACKGROUND

The Carmichael Water District Board requested information regarding the feasibility of installing an electrical sign in front of the District's Administration Building at 7837 Fair Oaks Blvd.

SUMMARY/DISCUSSION

District staff researched styles and costs associated with electrical type of informational signs. Staff found that there are three typical styles of signs available as follows:

- A single unit cabinet that contains both the sign's graphic (Entity Name) and LED electronic sign. See picture 1 in Attachment 1.
- A borderless LED electronic sign that can be independent or combined with other organizational signs. See picture 2 in Attachment 1.
- A fabricated monument-style sign designed or retrofitted to house an LED electronic sign. See picture 3 in Attachment 1.

Cost for the 3 style of signs are as follows:

Sign Type	*Cost Range (\$)
Single Unit (double sided)	\$24,000 - \$32,000
Borderless (double sided)	\$19,000 - \$24,000
Monument	\$30,000+

*Depends on size and resolution. Installation not included.

Based on anecdotal experience from a sign company, installation costs of just the electronic sign will be approximately \$10,000. This does not include any additional structural components, electrical connections, or site prep.

The County of Sacramento regulates the use of electronic (digital) signs through the County's Zoning Code 5.10.1.N.8 Digital Billboards, which may require a conditional use permit prior to the District installing an electronic sign.

FISCAL IMPACT

None, this is just for information purposes.

ATTACHMENT(S)

1. Pictures of different styles of signs.

Attachment 1

Picture 1-Entity Name and electronic sign combination.



Picture 2-Electronic sign with no border.



Picture 3-Monument with electronic sign.



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Topic: Auction sale of surplus vehicles and equipment

Date: August 5, 2025

Item For: Informational

Submitted By: Lucas Campbell, Distribution Superintendent
David Biagi, Production Superintendent
Debbie Martin, CPA (Inactive), Finance Manager

BACKGROUND

Carmichael Water District's (CWD's) Regulation Manual, Regulation 1020, Disposal of Surplus Property, provides the guidelines for the disposal of the District's property in the most economical and practical manner in the best interest of the District. Additionally, the Regulation provides that surplus property greater than \$500 may be disposed of on terms that are in the best interest of the District. All disposals will be fully documented in the District's accounting records and disposal revenue will be deposited in the General Fund.

SUMMARY/DISCUSSION

The 2016 Ford F550 (Unit #33) and the 2001 Ram 3500 (Unit #13) have both been successfully sold at auction. These vehicles have been replaced with 2025 Ford F550 models, which were approved and procured as part of the FY 2024–2025 CIP budget. Unit #33 sold for \$16,550.00 and Unit #13 sold for \$2,200.00 before selling costs.

In addition, two pieces of light equipment—the Target walk-behind saw and an inoperable MQ 3" water pump—were sold at auction for \$440.00 before selling costs. These items were not recorded as capital assets due to their original cost and classification but were nonetheless successfully removed and sold at auction.

Production's vehicle, Unit #38, a 2018 F150, has not yet been released to auction as delivery of the replacement vehicle is still pending. The replacement was scheduled for purchase in the FY 2024-25 CIP budget and due to delivery delays was rolled over to the FY 2025-26 budget.

FISCAL IMPACT

The total proceeds from all items sold amounted to \$19,140.00, less selling and commission costs for a net payment of \$16,545.00 deposited into the District's General Fund in accordance with Regulation 1020.

RECOMMENDATION

This item is for informational purposes only to provide notification of the capital asset items designated as surplus.

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General Manager's Report

August 2025

1. Sacramento Regional Water Bank

Regional Water Authority (RWA) staff provided an overview of the modeling results for the previously banked water or starting balance for Sacramento Regional Water Bank. The District's Board of Directors also met on August 7, 2025 to discuss the modeling results with a presentation from RWA's Trevor Joseph and the consultant, Mr. Ali Taghavi. The modeling result is an important component for the Environmental Impact Report (EIR) as part of the environmental (CEQA) analysis for the Water Bank and addresses questions and concerns from Environmental Council of Sacramento (ECOS) who sent a letter to RWA on July 19, 2025, Attachment 1.

2. Water Forum (WF)

The Water Forum is soliciting last round of comments to the draft Water Forum 2050 Agreement (WFA 2050). A copy of the Executive Summary and the draft WFA 2050 are bound separately for the Board to review and comment. The major difference between the original WF Agreement and the draft WFA 2050 is that the original WF Agreement included contentious items at that time, such as water conservation, water meters, and groundwater levels, etc. The original WFA ensured their implementation for the co-equal objectives of the Lower American River's health and the regional's development. Many of the goals and objectives have been implemented or become statewide regulatory initiatives and the draft WFA 2050 is focused on data sharing and participation for future regulatory compliance and actions. The Water Forum Executive Director, Ms. Ashley Casey will attend the next Board meeting on September 15, 2025 to answer any questions and receive any comments.

3. Bay Delta Plan

The State Water Resources Control Board (State Board) released the proposed updates to the San Francisco Bay/Sacramento-San Joaquin Delta Water Quality Control Plan (Bay Delta Plan) in late July. The State Board's media release is in Attachment 3 and the Governor's press release is in Attachment 4. The draft plan included the Voluntary Agreement (VA), also now known as the Healthy Rivers and Landscapes (HR&L) program. The District received over \$6M in funding from the ARTESIAN Agreement via RWA to implement the program for groundwater substitution. In dry and critical conditions, CWD would leave surface water in the American River and use groundwater for its demand for up to 3 years in the next 8 years. The groundwater commitment from CWD is up to 3,800 acre-feet (AF) a year in addition to its regular groundwater usage which is between 2200 AF up to 2500 AF a year. The total groundwater produced by the District would be up to 6,300 AF in the VA/HR&L call years. Based on the approval

process for the Bay Delta Plan, predication of the general weather pattern, and terms and conditions of the ARTESIAN Agreement, the call year could be as soon as 2026.

Attachments:

1. ECOS letter, July 19, 2025
2. Purvey Specific Agreement
3. Media Release Bay Delta Plan
4. Governor's Press Release



Post Office Box 1526 | Sacramento, CA 95812-1526

July 19, 2025

Jim Peifer
Executive Director
Regional Water Authority
jpeifer@rwah2o.org

Ashlee Casey
Executive Director
Sacramento Water Forum
acasey@waterforum.org

Dear Ashlee and Jim,

ECOS is a coalition of community-based organizations and individuals throughout the Sacramento region that helps drive a community conversation and promote action. Our mission is to achieve regional sustainability, livable communities, environmental justice, and a healthy environment and economy for existing and future residents. ECOS strives to bring positive change to the Sacramento region by proactively working with the individual and organizational members of ECOS, neighborhood groups, businesses, local and regional agencies including the Water Forum and the Regional Water Authority, and local governments.

We are writing to continue discussions with you regarding the direction RWA is taking concerning the Federally Recognized Regional Water Bank (Bank). Over the past five years ECOS and RWA have met several times, ECOS has provided several comment letters and attended RWA public meetings, and, more recently participated in the Water Forum's January 10, 2025, discussion regarding the Bank and RWA's Water Accounting System (System). This most recent meeting was productive, and we would encourage further meetings and discussions on the Bank within the framework of the Water Forum.

We acknowledge that RWA has addressed a number of our concerns and questions, and appreciate that the March 17, 2025 Water Accounting System document contains the recommendation that all Bank participants include a leave behind amount associated with each deposit made in the Bank as a contribution to increase subbasin groundwater levels and improve the region's ground water sustainability in the face of our changing climate. As stated above, ECOS would like to continue the discussion initiated in the January 10 meeting sponsored by the Water Forum. The Water Forum brings together the diverse public, business, environmental, and local government perspectives and affords all participants the opportunity to learn about RWA's Bank plans and potential issues the region faces with the Bank's implementation. To this end, we propose that the following issues be included in the agenda for the next Water Forum sponsored meeting on the Bank.

1. Actual Accounting for Natural Water Losses and Gains

For or example, if a bank account holder (pervveyor) records the use of X amount of surface water in lieu of pumping groundwater in a wet year, but groundwater elevations do not seem to corollate with the amount of water suggested to be left in the ground, how are actual deposits determined and credited to the pervveyor's account? Wet years with the same amount of annual precipitation can be significantly different in how that precipitation accumulates. One year might have 3 or 4 super wet rain events while another might have several months of more normal precipitation, with each resulting in different groundwater percolation. How is this variability factored into the accounting system?

2. Coordination with Groundwater Sustainability Agencies (GSA)

a. Exceedances

GSA monitoring programs may not have the coverage to ascertain the impacts of Banking operations on subbasin sustainability and/or Groundwater Dependent Ecosystems (GDE) either because of monitoring well placement or frequency of monitoring. Is the Bank assuming the responsibility for any additional monitoring /modeling costs incurred by GSAs necessitated by Banking operations? GSA Groundwater Sustainability Plans currently suggest GSAs will take action when groundwater levels exceed Minimum Thresholds only after several years of exceedances. The System indicates the Bank will monitor and work with the GSAs when exceedances occur. Will Banking operations continue until a GSA directs them to stop or will the operations be curtailed or modified when negative impacts are initially detected?

b. General Bank Operations

ECOS provided several questions regarding coordination during the January 10 meeting. We continue to be interested in this topic. The System includes a dispute resolution process. While we agree such a process can be beneficial to all concerned parties it is important to note that the GSAs do have specific authority granted by SGMA and this authority seems appropriate to be included within the System document.

3. Granting Credit for Past Banking Operations

The System document seems to provide some guidance regarding how past conjunctive use efforts will be granted credit in the new banking system. It seems to recognize constraints and current performance criteria limitations when applied to past conjunctive use programs. However, ECOS believes it is very important that RWA place past actions in the context of the groundwater subbasins when the efforts were initially undertaken. Conjunctive use was seen as a method to return the region's groundwater subbasins to sustainable levels after years of being drawn down. It is true that the past twenty plus years of conjunctive use have returned the subbasins to the level of sustainability found viable by SGMA. However, it is also true that both subbasins narrowly remain sustainable under pervveyor projected future water demands and the current climate

change assessments employed by the GSAs. In addition, the subbasins appear to be under pressure to remain sustainable if climate change impacts are more severe.

We understand that RWA staff have performed a detailed analysis of past deposits and losses utilizing the latest upgrades to regional groundwater models. This analysis along with the connection between present and future SGMA sustainability should prove to provide the basis for a fruitful discussion of this topic. We believe it may not be in the best interest of the region to provide past credits if those credits entitle withdrawals that negatively impact the two subbasin's continued sustainability. ECOS looks forward to continuing to discuss this topic and fully understand the technical and policy underpinnings RWA plans to advance regarding any credits given for past deposits.

We look forward to further discussions with RWA within a Water Forum sponsored setting. Please feel free to contact me if this letter stimulates any questions and to set up a follow-up meeting to discuss our concerns.

Sincerely,

A handwritten signature in blue ink, appearing to read "TNR".

Ted N. Rauh
Chair, ECOS Water Committee

cc: Heather Fargo, ECOS Board President

Carmichael Water District

DRAFT Purveyor Specific Agreement Template

Purveyor Background

Carmichael Water District (CWD or District), formerly Carmichael Irrigation District, was formed in 1916 to serve water for irrigation and a small but growing township called “Carmichael Colonies”. The District was formed under the California Irrigation District laws but has changed its name to Carmichael Water District in the 1980s to reflect its transformation from a primarily irrigation supplier to an urban water supplier. Today, CWD serves about 11,900 connections with a population of about 40,000 people. With a history of over 100 years, the District is considered built out with 90% residential services and a steady decreasing water demands from effective water efficiency campaigns and education.

The District’s water supply portfolio has provided over 100 years of water supply reliability to the District’s customers. The District’s transition from exclusive surface water diversions from the American River to groundwater and then into a sophisticated conjunctive use program, including a state-of-the-art water treatment facility, epitomizes the flexibility and adaptability that the District has displayed throughout its history. Renewed flexibility and adaptability will allow the District to handle climate change, regulatory change, and legislated conservation and water quality protection.

CWD has three main sources of water supplies in portfolio: surface water rights to divert the natural flows of the American River, groundwater supplies derived from its well system including stored water supplies from its long-term conjunctive use activities, and remediated groundwater supplies from its contractual relationship with Aerojet Corporation. All of these water supplies are collectively managed to meet the District’s demands.

Surface Water Supplies

CWD’s primary water supplies consist of three appropriative water rights derived from the natural flow of the American River where water would normally be available on the river system under natural conditions subject to more senior appropriators. The supply is based upon water availability that is tied to the priority dates of these water rights. The State Water Resources Control Board (State Board) determines when there is sufficient water supply in the American River watershed to satisfy CWD’s diversion rates under each water right.

The three appropriate water rights consist of two licensed and one permitted water rights providing up to 32,600 acre-feet (AF) per year with a maximum diversion of 50 cubic feet per second, depending on the season of use. All CWD’s water rights have priority date after 1914, considered junior water rights and subject to curtailment by the State Water Resources Control Board.

Water Right	Priority Date	Diversion Rate	Volume (AFY)	Diversion Period
License 1387	1915	15 cfs	10,859	Jan – Dec
License 8731	1925	10 cfs	3,669	May - Oct
Permit 7356	1948	25 cfs	18,099	Jan - Dec

The District's surface water rights are diverted through three Ranney collector wells in the American River and treated at the Bajamont Water Treatment Plant (BWTP). The Ranney collectors use a series of laterals extending to the riverbed to gather water and utilize the natural sands and gravel for riverbank filtration. Water flows from the collectors by gravity to a central collector and then conveyed to the District's BWTP through a 48" pipeline.

Groundwater Supplies

Groundwater supplies constitute a major component of the District's water supply portfolio. The District conjunctively manages its surface water and groundwater supplies to optimize the uses of these water assets.

The District currently operates 4 groundwater wells and is in the process of replacing 2 old wells while constructing a new well. These projects are in various stages of construction and are projected to be completed in 2026. The projected capacity for the wells will be about 8,000 to 10,000 gallons per minute (11.5 million gallons per day (MGD) to 14.4 MGD).

The District plans to further its conjunctive use program by utilizing Aquifer Storage and Recovery (ASR) technology to inject drinking water from the BWTP when surface water is plentiful to maintain the sustainability and groundwater levels in the groundwater basin. The estimated annual capacity for storage is about 1,500 AFY to 3,000 AFY during normal and wet years. The District plans to invest additional resources in conjunctive use and water banking and will continue to implement additional ASR wells when replacing old wells that have reached the end of their useful life

Alternative Supplies

The District also has access to remediated groundwater supplies from the Aerojet-Rocketdyne (Aerojet) Groundwater Extraction and Treatment (GET) LA and LB facilities located within the District's service area. These water supplies are extracted and treated by Aerojet and then discharged into the American River. The District has exercised the option in curtailment conditions.

Distribution System of Note

The District's water delivery system consists of both a distributed supply from groundwater wells and a centralized supply from the BWTP. The supply capacity is aided by two ground level water storage tanks, the La Vista Tank and the Dewey Tank, with a combined available storage capacity of 4 million gallons. The network of distribution pipelines consists of water supply mains ranging in size from 4-inch to 18-inch pipes to larger water mains of 24-inch and 30-inch pipes.

The District also maintains an intertie with Fair Oaks Water District and Citrus Heights Water District and four interties with Sacramento Suburban Water District.

Surface Water and Groundwater Management

The table below summarizes the demand for each water source from 2006 through 2024. Purchased Water column indicates additional water acquired and used during curtailment periods via short term temporary contracts with Aerojet for additional remediated groundwater, when available, and with San Juan Water District. These contracts were single year or one-time contracts and are not currently in place.

Year	Surface Water	Groundwater	Purchased Water	Total
2006	8,971	3,519	0	12,490
2007	9,509	2,867	0	12,376
2008	10,422	1,581	0	12,003
2009	8,965	1,609	0	10,574
2010	8,217	1,518	0	9,735
2011	7,849	1,469	0	9,318
2012	8,315	1,570	0	9,894
2013	8,369	2,030	0	10,399
2014	2,441	3,417	2,501	8,359
2015	2,429	2,543	2,169	7,142
2016	6,254	1,189	0	7,443
2017	5,897	2,384	0	8,280
2018	5,633	2,718	0	8,352
2019	6,051	2,165	0	8,216
2020	4,342	4,172	0	8,514
2021	4,023	3,779	865	8,667
2022	3,264	5,176	159	8,599
2023	5,656	2,481	0	8,138
2024	6,479	2,151	0	8,630

Compared to the data provided in the District's 2015 Urban Water Management Plan, the total demands (or supply) has decreased significantly since 2006. As the District is buildout, the future projected demands are expected to be similar to current conditions. Future in-fill projects will most likely reduce current irrigated areas and comply with new water conservation standards. Future water efficiency measures will also limit additional diversions from the American River.

Current Diversions

CWD's diversion from the American River is listed in the table below.

Year	Total (AFY)	Note
2014	2,441	curtailment year
2015	2,430	curtailment year
2016	6,254	
2017	5,897	
2018	5,633	
2019	6,051	

2020	4,342	groundwater substitution transfer year
2021	4,023	curtailment year
2022	3,264	curtailment year and groundwater substitution transfer year
2023	5,656	
2024	6,479	

Future Projected Diversions

As the District is buildout, the future projected diversions is expected to be similar to current conditions. Future in-fill projects will most likely reduce current irrigated areas and comply with regulatory water conservation standards. Future water efficiency measures will also limit additional diversions from the American River.

Future diversions from the American River may increase during normal and wet years by 1,500 to 3,000 AFY for storage of surface water into the groundwater basin via ASR operations.

Wet Conditions Management

Wet conditions will be assumed to be when the Unimpaired Inflow Folsom Reservoir (UIFR) is greater than 1.6 MAF. This threshold is not considered a formal definition of what constitutes a “wet year” or “wet conditions” on the American River but was utilized in the original Water Forum agreement as a basis for surface water commitments. It is expected that additional analysis and discussions will be conducted as part of the American River Climate Adaptation Program (ARCAP) to explore and define what other potential criteria could be used to guide regional operations in wet times. Where possible, the District will expand its conjunctive use operations and maximize its groundwater storage by 1,500 to 3,000 AFY through its ASR wells.

Drier Conditions Management

In drier conditions when the UIFR is between 950 TAF and 400 TAF, the District will implement water conservation measures to reduce demands by 10% or as required by the District’s Water Shortage Contingency Plan. Where possible, the District will prioritize groundwater use to ensure sufficient flows in the LAR.

Driest Conditions Management

In driest conditions when the UIFR is less than 400 TAF, the District will implement water conservation measure to reduce demands by 10 – 20% or as required by the District’s Water Shortage Contingency Plan. Further, the District will comply with State Water Resources Control Board’s water rights orders for diversion limitations or curtailments. Where possible, the District will prioritize groundwater use to ensure sufficient flows in the LAR.

Critically Low Storage Conditions

In critically low storage conditions, the District would most likely be required to cease water diversions from the Lower American River per curtailment orders issued by the State Water Resources Control Board and/or terms and conditions obligated in the Healthy River and Landscape Agreements. If curtailed, the District would use its groundwater resources to meet demands and, if necessary, acquire additional water to supply demand. The District would also have to implement its Water Shortage Contingency Plan that aligns with a potential water supply shortage and would have to comply with any applicable mandates issued by the State of California.

Demand Management

CWD is committed to abide by the relevant conservation and water use efficiency regulations. At the time of signing, key requirements are associated with the 2024 “Making Conservation a California Way of Life” regulations, Assembly Bill (AB) 1572 related to irrigation of non-functional turf with potable water, and the Model Water Efficient Landscape Ordinance (MWELO) which encourages low-water use and native landscaping for new development.

CWD has participated and will continue to participate in the Regional Water Authority’s (RWA’s) Water Efficiency Program, especially for regional compliance with the CII best management practices and regional non-functional turf outreach, along with regional messaging. CWD also offers water efficiency surveys and rebates for turf replacement, smart sprinkler controllers, and Flume Water’s Smart Home Water Monitor and Leak Detector. Continuation of the rebate program is subject to CWD’s Board approval.

Potential demand management actions could include:

- Developing programs to assist in the conversion of publicly owned, commercial and institutional landscaping to low water use native landscaping.
- Expand and strengthen regional conservation messaging about plant watering needs.
- Provide additional water use efficiency rebates to customers.
- Track customer water use and develop targeted outreach opportunities for high water use customers.
- Maintain and implement water waste prevention programs.
- Maintain customer outreach and communication programs to educate and inform customers of state water use efficiency requirements
- Maintain customer programs to support the implementation of Best Management Practices (BMPs) for the Commercial, Industrial, and Institutional (CII) sector

Project List

Structural

- Rehabilitation, modernization, or replacement of **existing** infrastructure as outlined below:
 - Rehabilitation and replacement of Ranney collector laterals to maintain capacity and infrastructure integrity.
 - Replacement of existing wells at the end of its useful life and modernize with ASR capabilities.

- Replacement of existing pipelines due to poor conditions for water transmission reliability.
- Distribution pressure zone modifications for efficiency water use and energy management.
- New groundwater facilities consistent with adopted groundwater sustainability plans.
- Projects and programs to ensure success of the Healthy Rivers and Landscape Program (i.e Voluntary Agreement) or a similar tributary-specific program that improves the ecosystem, protects local water entitlements, and maintains better cold water pool conditions in Folsom and the Lower American River.

Non-Structural

- Water transfer availability when available consistent with the Groundwater Sustainability Plan and the Water Code.
- Additional groundwater storage opportunities in the Sacramento Regional Water Bank.
- Support and participate in regional partnership opportunities with other water purveyors that provide reliability to regional water supply systems and benefits to the LAR.
- Agreements with neighboring purveyors for conjunctive use opportunities.
- Extension and/or license of water entitlements.
- Regional water efficiency/conservation campaigns.

Caveats and Assurances

1. CWD was established over 100 years ago and mostly built out. Structural projects listed above for rehabilitation, modernization, or replacement of existing infrastructure are key for water supply reliability to its customers. CWD seeks support in implementation of rehabilitation, modernization, and replacement of old infrastructure for supply reliability, operational efficiency, and water conservation objectives.
2. The District uses surface water supplies when possible in order to protect its groundwater supplies and prevent migration of contaminant plume associated with the Aerojet facilities in Sacramento County. The District will continue to practice conjunctive use as we see fit to meet existing and future needs and manage dry and critically dry conditions as they arise in the future.
3. Support for the development of additional water supplies that do not negatively impact the co-equal objectives of the WFA.
4. Protection of regional surface water entitlements to ensure local control.



Media Release

State Water Board releases proposed updates to Sacramento/Delta portions of Bay-Delta Plan

Proposal incorporates both voluntary agreements and a regulatory pathway

July 24, 2025

Contact: [Ailene Voisin](#), Information Officer

SACRAMENTO – Continuing the state’s work to protect the ecosystem of the Sacramento River and Delta watershed while balancing the need to protect water supply, the State Water Resources Control Board today announced important [proposed updates](#) to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan).

The announcement begins a public review and comment period on the proposal that would update measures in the Bay-Delta Plan to protect the Sacramento River, the Delta and associated tributaries (Sacramento/Delta).

The State Water Board’s proposed updates include two distinct pathways for water users and agencies to comply with water quality requirements: one that incorporates [voluntary agreements \(VAs\)](#) proposed by some state and federal agencies and other water users, known as the Healthy Rivers and Landscapes Program, and a regulatory pathway for those who are not parties to approved VAs. Both pathways will create legally enforceable requirements.

The proposal also incorporates tribal beneficial uses and formally designates Tribal Tradition and Culture beneficial uses in the watershed in recognition of the intrinsic connection between native fish populations—including salmon—and tribal tradition and culture.

“The proposed updates to the Bay-Delta Plan would improve conditions for fish and wildlife through a combination of flow and habitat measures while considering the needs of cities, towns and farms,” said State Water Board Executive Director Eric Oppenheimer. “It reflects a holistic approach to the Bay-Delta that leverages cooperation to advance ecosystem benefits as soon as possible.”

The Bay-Delta Plan, which was first adopted by the board in 1978, identifies beneficial uses of water in the Delta watershed, water quality and flow objectives to protect those uses, and an implementation program that includes monitoring and reporting requirements.

To address changing environmental conditions, including the increasing intensity and frequency of drought, the board periodically reviews the plan and considers updated protective measures. In December 2018, the [board adopted new flow objectives and an implementation program](#) in the Lower San Joaquin River and its three salmon-bearing tributaries (Stanislaus, Tuolumne and Merced rivers) and also outlined a framework for revisions to the plan's Sacramento/Delta requirements.

The proposed updates to those requirements released today are based on the [September 2023 staff report](#) and the [October 2024 draft plan](#); they are also informed by extensive public input gathered across 11 topic-specific meetings, a multi-day hearing, a multi-day workshop, consultation with independent subject matter experts and a [comprehensive scientific basis report](#), which was written collaboratively by board staff, the California Department of Water Resources and the California Department of Fish and Wildlife.

Specifically, the proposal includes new narrative Sacramento/Delta inflow, cold water habitat, Delta outflow, interior Delta flow, and fish viability objectives. The board will implement these objectives via new requirements on water right holders, through either the VA or regulatory pathway.

The board is accepting written comments on the proposed updates through September 10. It will hold a public hearing to receive oral comments on September 8, with the potential to extend the hearing to September 9 if needed. The board will consider adopting the proposal at a future date.

Voluntary Agreement Pathway

The voluntary agreement pathway allows water right holders who are parties to the VAs to implement Bay-Delta Plan requirements, including water quality objectives, through a combination of flow and habitat restoration commitments that would be documented through accounting provisions and periodic review by the board.

Key elements of the VAs include the following: a combination of additive flows occurring largely during the ecologically important January-June period; habitat restoration commitments; substantial funding for habitat restoration and water purchases; a science program to test benefits of flow and habitat for native fish; annual reports and triennial reviews to demonstrate compliance and evaluate ecosystem benefits; and monitoring, accounting and reporting to ensure flow and habitat commitments materialize.

The VAs have the potential to bring habitat, flows and resulting benefits more quickly than the regulatory approach. However, if the VA parties fail to adhere to flow and habitat commitments, or the board determines after eight years that the benefits are insufficient, the board could initiate a process to compel compliance through the regulatory pathway.

Regulatory Pathway

The proposed regulatory pathway provisions would apply in the absence of approved VAs and for water right holders who are not parties to approved VAs. This pathway would direct water right holders to implement new water quality objectives largely through an approach requiring a percentage of the unimpaired flow to remain instream. This approach is consistent with the board's efforts in 2018 on the Lower San Joaquin River tributaries.

Since the October 2024 draft, the regulatory pathway provisions have been refined to include flow measures, called water supply adjustments, that create a more dynamic unimpaired flow requirement. The new adjustments take dry and wet conditions into account (requiring higher flows during wet periods and lower during dry) and allow for reductions of required inflows from 55% of unimpaired flow down to 45% and 35%, as well as offramps to inflow requirements during extreme conditions on specific tributaries.

The adjustments provide for greater adaptive management and are designed to reduce potential water supply impacts to agriculture, municipal water service and hydropower production, while maintaining reasonably protective flows and preserving cold water in reservoirs for fish downstream.

More information about the proposed Bay-Delta Plan update is available on the board's [website](#).

The State Water Board's mission is to preserve, enhance and restore the quality of California's water resources and drinking water for the protection of the environment, public health and all beneficial uses, and to ensure proper resource allocation and efficient use for present and future generations.

Jul 24, 2025

California advances Bay-Delta Plan Update to restore ecosystem health and improve water supply reliability

Governor Newsom praises the State Water Board for incorporating the Healthy Rivers and Landscapes Program into the Bay-Delta Plan

What you need to know: The Newsom Administration's innovative Healthy Rivers and Landscapes Program, which improves environmental conditions and provides more water supply certainty for California's communities, farms, and businesses, is moving forward for consideration in the Bay-Delta Plan. This comes alongside a recent legislative proposal to streamline the adoption of water quality plans through new CEQA exemptions.

SACRAMENTO – Today, the State Water Resources Control Board (State Water Board) **proposed** an update to its Bay-Delta Water Quality Control Plan that will help protect the Sacramento River, the Delta and associated tributaries (Sacramento/Delta) for generations to come and safeguard water supplies for millions of Californians. The new plan update will help maintain a strong balance between protecting precious ecosystems and ensuring the state can meet the needs of Californians. If adopted, the plan will update environmental science, restore tens of thousands of acres of habitat, and incorporate a groundbreaking program developed by the Newsom administration, creating voluntary agreements with water users, including municipal water agencies, agriculture, and other water rights holders. Advancing California's Abundance Agenda, the Governor is also introducing a legislative proposal through a separate trailer bill to create new CEQA exemptions for water quality plans.

"I am proud to see the Healthy Rivers and Landscapes Program represented in this plan update — it's a testament to California's commitment to a collaborative, science-driven approach to managing our water for the benefit of our communities, economy, and fish and wildlife. However, our work is not yet done — I have proposed legislation to create a CEQA exemption for all Water Quality Control Plans that would accelerate the time it takes to get these critical plans done by removing unnecessary and redundant process requirements. We're done with barriers and obstacles to our state's success. We must work together to protect our natural resources for the benefit of the habitats and people of our state."

Governor Gavin Newsom

The Newsom Administration, along with state, federal, and local leaders, developed the Healthy Rivers and Landscapes (HRL) Program as an innovative alternate approach to traditional regulatory requirements to improve environmental conditions while providing more water supply certainty to communities, farms, and businesses throughout California. Now, the program has advanced to the State Water Board for consideration as an implementation pathway in the Bay-Delta Plan.

"The State Water Board's draft plan update marks a crucial step toward safeguarding the Bay Delta's water quality," **said California Environmental Protection Agency Secretary Yana Garcia.** "By embracing collaborative, science-driven solutions, the board is actively ensuring a more sustainable water future for communities, ecosystems, and generations to come."

The Bay-Delta Plan update now includes two regulatory pathways for water users:

- A comprehensive Healthy Rivers and Landscapes Program, which would produce ecosystem benefits through a combination of flow and habitat projects.
- A flow-only approach for those who are not parties to the HRL program.

Following a public comment period, the plan will advance before the State Water Board for final consideration. The plan, developed with extensive public input, including public water agencies, environmental nonprofits, tribal partners, and local governments, is a win for all Californians.

Streamlining Government to Work Better

The Bay-Delta Plan for the Sacramento/Delta has not been meaningfully updated since 1995. Continuing to operate under a plan that does not reflect the most current science, a growing population, or a changing climate is a disservice to California's communities and ecosystems. In 2022, Governor Newsom brought together local, state, and federal partners to submit an actionable framework for the Voluntary Agreements, later named the Healthy Rivers and Landscapes Program, to the State Water Board.

If adopted by the State Water Board, the HRL program would dedicate a large quantity of water to the environment and restore more than 45,000 acres of aquatic habitat for fish and other animals. In addition, Governor Newsom secured funding commitments totalling \$2.9 billion to implement the HRL program over the next 8 years.

"This program will improve the health of our rivers by both restoring river flows and revitalizing habitat," said California Natural Resources Secretary Wade Crowfoot. "After all, fish and wildlife need both to thrive. It also improves coordination and collaboration among public agencies charged with improving river conditions and will enable real-time, science-based decision making that we desperately need to better manage our river systems."

"The Healthy Rivers and Landscapes Program will allow for a more collaborative and scientifically sound way to balance conflicting demands for water in an extremely complex watershed. We're grateful to the State Water Board for embracing this approach as a potential pathway within their regulatory framework," **said California Department of Water Resources Director Karla Nemeth.** "Working together, we will find new solutions to the old problem of balancing the needs of ecosystems and economies."

"The inclusion of voluntary agreements in the development of this plan will be a big win for California, and will help provide more opportunities for our partners across the state to support California's irreplaceable fish populations and habitats," **said California Department Fish and Wildlife Director Charlton H. Bonham.** "By focusing on the science of restoration, and prioritizing additional flows to support healthy habitats, we can ensure the best possible outcomes for California's precious natural resources, now and in years to come."

Furthering the administration's agenda to reduce barriers to progress and move projects that Californians need forward, Governor Newsom has also introduced trailer bill language to streamline the adoption of water quality control plans and create new exemptions for water projects under the California Environmental Quality Act (CEQA). This would expedite the potential adoption of the Bay-Delta Plan and the ecosystem benefits it would provide, while still allowing for vital public process and input.

More information about the proposed Bay-Delta Plan update is available on the State Water Board's [website](#).

CARMICHAEL WATER DISTRICT

August 2025 Engineering Department Report

Engineering Manager, Greg Norris P.E.

CAPITAL IMPROVEMENT PROJECTS

La Sierra ASR Well Project: Project is awaiting delivery of the Switchgear and electrical controls. The arrival date for these components is still estimated to be in August 2025.

Winding Way and Ladera ASR Wells Project: A contractor selection has been made based on the Progressive Design Build (PDB) proposals submitted last month. A coordination meeting with the contractor was held on August 06, 2025. SMUD and the cable company have connected their services to the District owned house on Charleston Dr.

La Vista Tank and Booster Well Project: See monthly Informational Board Memo. Additionally, District staff are working with neighbors to mitigate impacts from the construction of the perimeter wall.

SCADA Project: An RFP to integrate software and to develop the SCADA system with new controllers through a Progressive Design Build process was published July 02, 2025 on the District's website. On July 23, 2025, the District hosted a mandatory meeting for contractors. See attached sign-in list for those who attended. The deadline for eligible contractors to submit proposals is August 22, 2025.

Garfield Well Backup Generator Project: The District is evaluating the existing concrete pads with the dimensions of the new equipment to ensure that the new equipment will properly fit in the planned areas. Equipment is still on order.

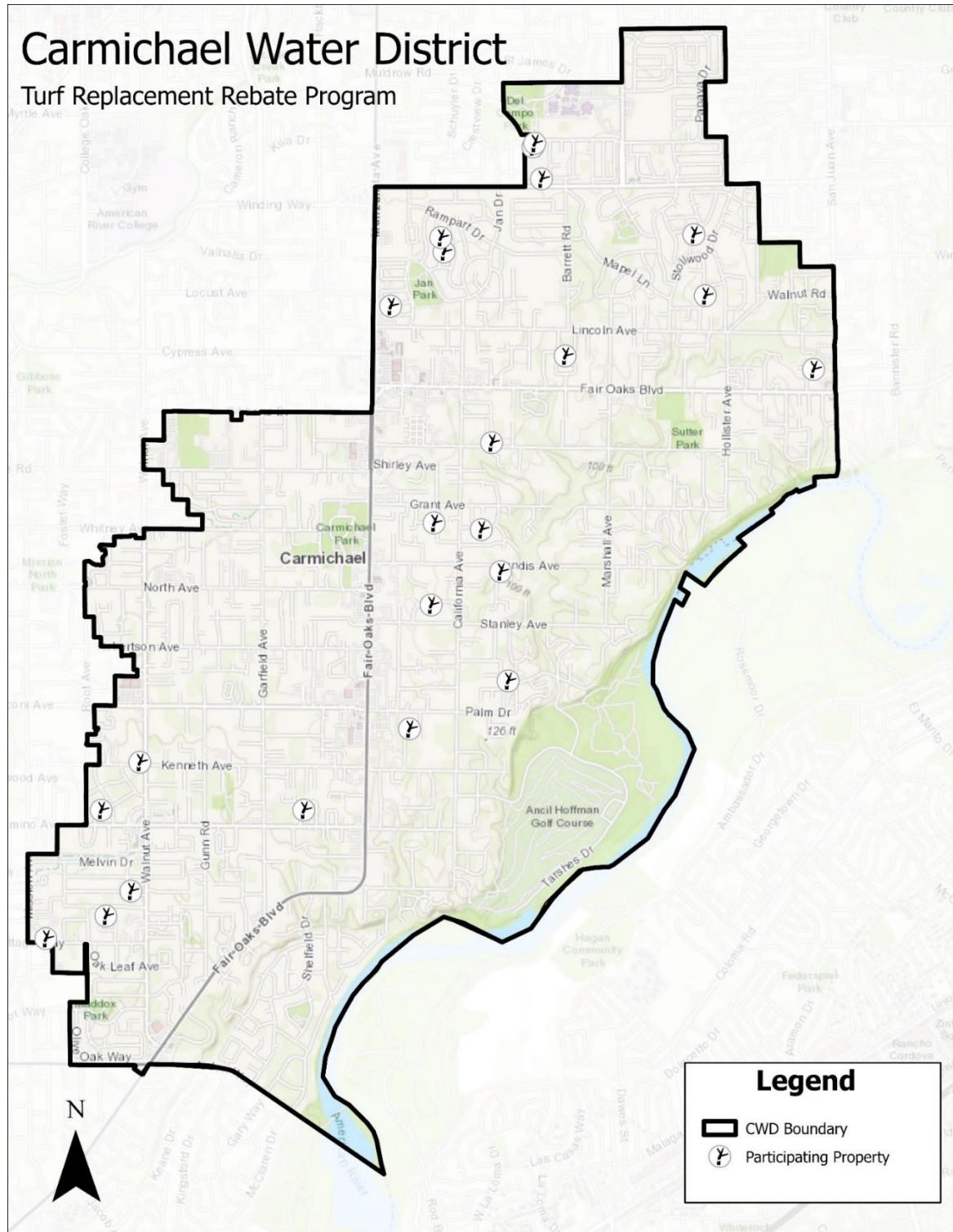
Claremont/Fair Oaks Blvd (FOB) Pipeline: A contract with Flowline to construct the planned work was approved by the District Board at the June regular meeting and executed on June 27, 2025. A Notice to Proceed was issued also on June 27, 2025. A coordination meeting with Flowline, County of Sacramento, Dugan Management Engineering (DME), and CWD was held on July 16, 2025. Flowline has obtained the necessary bonds and insurance for the project and is proceeding with obtaining Traffic Control Plans and permits for both the Claremont and FOB portions of the project.

MISCELLANEOUS

Turf Replacement: With the 6 month remaining on the USBR WaterSMART grant, staff have completed 23 projects providing \$34,182 in rebates which replaced 27,343 square feet of turf.

Rachio Smart Controller Program: The District's program coordinated through RWA to promote Smart irrigation controllers using Rachio brand controllers ended on June 30, 2025. Originally, the District committed \$37,905.00 to fund approximately 76 controllers. At the end of the program, 88 controllers were installed for a total of \$21,740.50, leaving an unused funding balance of \$16,164.50. The District purchased 15 controllers for \$2,325.00 to have on hand to work with customers who are interested in applying smart technology and to use for demonstration purposes to customers. RWA returned the remaining unspent \$13,839.50 in a form of a check to the District.

A new program will be offered by RWA but will not require financial participation by CWD or other Districts. The website to the new program is <https://rachio.com/redeem> District staff will continue to encourage customers who are interested in Smart Controllers to apply for and obtain them from Rachio. Also District staff will continue to be available to provide technical assistance.



Bajamont WTP SCADA System
Upgrade
Mandatory Pre-proposal Meeting

July 23rd, 2025

Sign-In Sheet

Printed Name	Attendance	Organization	E-Mail	Phone Number
Jeff Benson	(in-person)	TetraTech / Enterprise Automation	jeff.benson@eaintegrator.com	(949) 403-0264
Alex Stipe	(in-person)	TetraTech / Enterprise Automation	Alex.Stipe@eaintegrator.com	(949) 378-7087
Mike Steuteville	(in-person)	AIC	mike.steuteville@wateraic.com	(916) 905-3343
Alex Leeth	(in-person)	Tesco	aleeth@tescocontrols.com	(210) 896-9228
Rasu Nair	(in-person)	Tesco Controls	rnaier@tescocontrols.com	(916) 862-2601
Jared Johnson	(in-person)	San Juaquin Elect.	jared@sjelec.net	(209) 639-0006
Lisa Gaona	(in-person)	Agilitech	lgaona@agilitechgroup.com	(661) 484-0501
Jon Rodgers	(in-person)	TSI	jonr@tsicontrols.com	(530) 710-3325
Thomas Frisch	(in-person)	Frisch Eng	tfrisch@frischengineering.com	(916) 353-1025
Michael Prosser	(online)	Advanced Integration & Controls	michael.prosser@wateraic.com	(916) 296-2016
Joshua Choe	(online)	Advanced Integration & Controls	joshua.choe@wateraic.com	<i>Not provided</i>
Chuck Meridith	(online)	Tesco Controls	cmeridith@tescocontrols.com	(916) 669-4007
Kenneth Baker	(online)	HSQ Tech	Kbaker@hsq.com	<i>Not provided</i>
Alvaro Caceres	(online)	Avadine	acaceres@avadine.com	<i>Not provided</i>
Harvey Quintero	(online)	Freedom Automation	hquintero@freedomautomation.com	<i>Not provided</i>

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CARMICHAEL WATER DISTRICT
JULY 2025 BILLING DEPARTMENT REPORT
Billing Supervisor, Cecilia D.

July's month over month billing activity increased by 6% in Billing Units and by 3% in Total Billing over June's activity. Year over Year, Billing Units were 16% lower than last year yet Total Billing was only 1% lower, due to the 2025 rate increase. July 2024 had record temperatures with the highest temperature achieving 112 degrees and an average temperature for the month of 97 degrees. In contrast, July 2025 achieved an average temperature for the month of 90 degrees and with the highest temperature reaching 102 degrees. This provides some perspective on the decline in billing units for this month as compared to last year.

BILLING ACTIVITY				FY 25-26	FY 24-25		Previous Year Billing Totals % Difference
Billing Period	Billing Units*	Usage Charges	Service Charges	Billing Totals	Billing Totals	Billing Units*	
July	482,073	\$1,190,720	\$ 898,603	\$ 2,089,322	\$ 2,110,104	570,814	-1%

* 1 Unit = 100 CCF (Centum Cubic Feet) = 748 Gallons.

Billing Units are based on current meter reading period, i.e., Current Billing Period = 6/23/25 – 7/24/25, and may differ from Production reported numbers due to the meter read billing cutoff dates.

COLLECTIONS: Processed & Total Outstanding A/R Amounts

The Total 61-90 Days column displays the delinquent amounts that will be targeted on July's final notice and collections processes. The Outstanding A/R amounts reflect what was still owing at month end, this is 18% of the amount billed, or approximately 2,017 customers.

Date	Total on APS*	Total Off	Total # Liened	Total \$ Liened	Total 61 - 90 Days	Total Outstanding A/R **
June 2025	1	9	7	\$ 3,211	\$ 13,268	\$ 175,930
FY 25-26						
July	1	9	7	\$ 3,236	\$ 13,395	\$ 358,273

* APS = Alternative Payment Schedule

** Includes Total Liened and 61-120 Days Amounts

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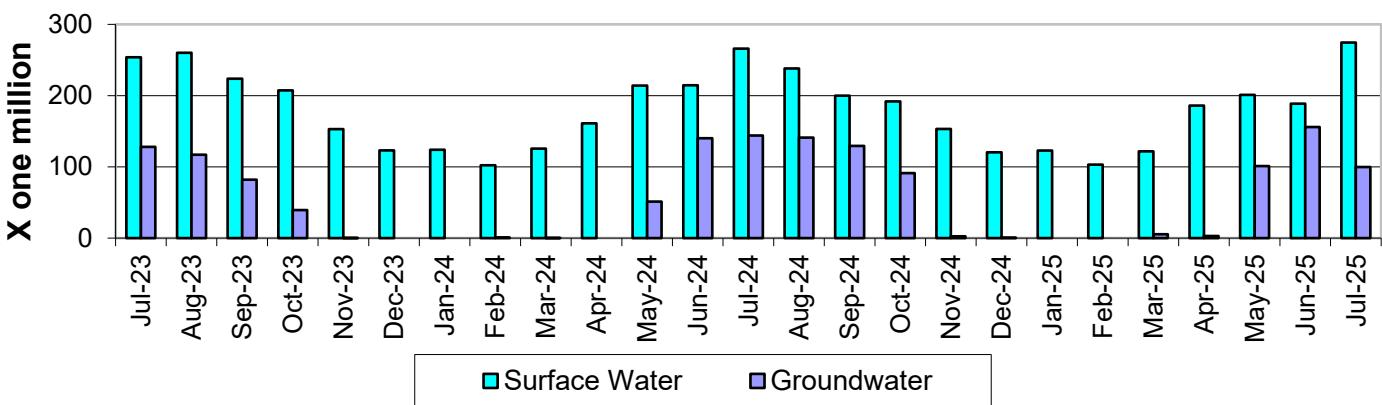
CARMICHAEL WATER DISTRICT
Production Superintendent, DAVID BIAGI
July 2025 Water Production Board Report



CWD Monthly Water Production 2015-2025

FY	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	MGD Totals	Acre/Ft
2025-26	374.27												374	1149
2024-25	409.91	379.28	329.43	283.13	155.68	117.11	122.95	103.10	127.03	188.90	302.12	344.62	2863	8787
2023-24	381.87	376.96	305.79	246.50	153.18	123.06	114.25	102.90	125.55	160.99	265.26	354.84	2712	8322
2022-23	371.77	358.96	299.37	267.16	149.16	124.91	115.19	107.14	109.89	165.79	255.81	310.23	2635	8088
2021-22	381.78	354.31	318.00	232.62	127.07	114.90	116.95	138.86	181.17	183.76	282.17	327.46	2759	8467
2020-21	408.04	402.05	335.66	294.53	188.58	140.24	125.19	110.64	145.91	237.20	332.59	371.58	3092	9490
2019-20	378.84	381.60	314.85	259.58	201.55	122.39	113.09	135.71	153.23	181.81	281.40	360.18	2884	8851
2018-19	387.57	361.56	314.04	259.22	187.67	121.80	111.84	96.07	109.20	158.03	226.19	317.21	2650	8134
2017-18	399.61	383.76	323.74	270.59	140.87	129.07	113.92	117.16	115.88	148.80	258.57	335.23	2737	8400
2016-17	357.82	353.35	299.41	193.38	123.16	115.61	113.47	96.26	116.84	123.76	268.14	332.52	2494	7653
Avg.	385.15	372.43	315.59	256.30	158.55	123.29	116.32	111.99	131.63	172.12	274.69	339.33	2759	8426
Daily	12.42	12.01	10.52	8.27	5.28	3.98	3.75	4.00	4.25	5.74	8.86	11.31		

CWD Combined Surface & Ground Water Usage



July CWD Total Production		MG
Surface Water	73%	274.412
Groundwater	27%	99.858

Production	Up/ Down	Month	Up/ Down	10-Year Running Average
Production from same month last year	Down	9%	Down	3%
July 2025 Average Daily Production		12.07 MG		
Peak Day – July 12th		12.90 MG		

GSWC Delivery: CWD delivered 139.830 MG or 429.12 Acre/Ft to GSWC in July.

There were three (3) water quality complaints in July. Each complaint was promptly investigated, and the area was thoroughly flushed when necessary.

Water Quality Activity

- ✓ Taste & Odor: 2
- ✓ Color: 0
- ✓ Turbidity (Air): 0
- ✓ Suspended Solids: 0
- ✓ Low Pressure: 1

Backflow Devices Tested

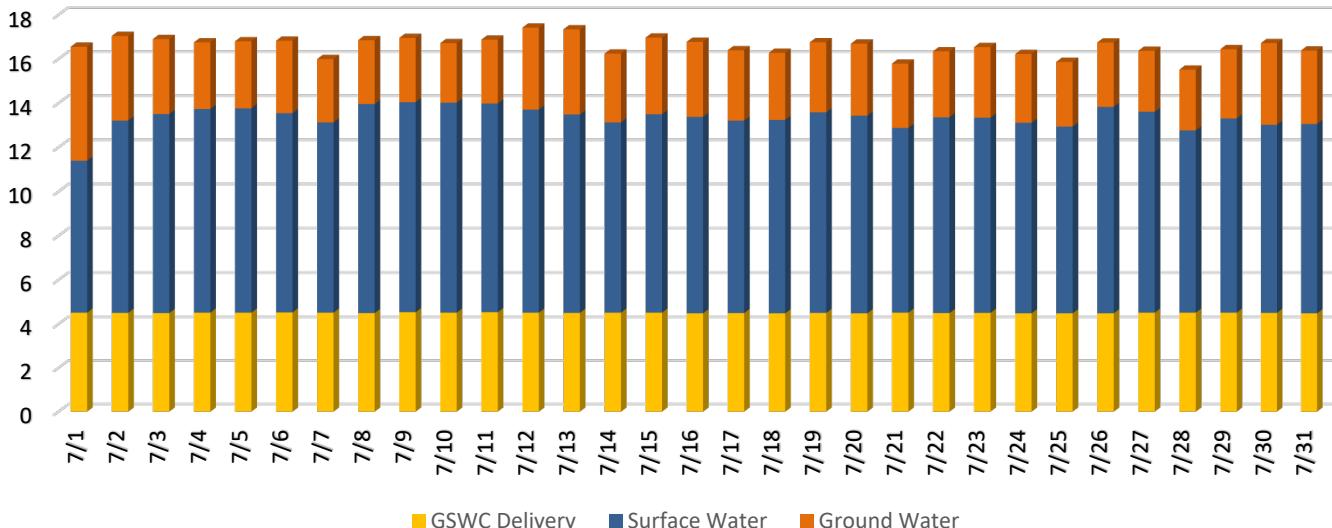
- ✓ Tested: 45
- ✓ New Devices: 0
- ✓ Failed Tests: 0

Maintenance Activity

- ✓ Secondary Cl₂ CIP: 2
- ✓ Primary NaOH CIP: 7
- ✓ Instrument Calibrations: 10
- ✓ Module Repair: 31
- ✓ TWP Oil Change: 4

American River Flows: Releases from Folsom Dam increased in July. Flows started the month at 5,300 CFS and were then reduced to 4,600 CFS on July 17th, remaining steady for the rest of the month, nearly double the flow in June. The average temperature for July was 91 degrees, reducing demand by 9% compared to last year. These factors enabled production staff to increase surface water production to 73% of the total CWD production for the month. The average total diversion from the Bajamont Water Treatment Plant was 13.363 million gallons. Each day, 4.5 million gallons were delivered to GSWC, with the remaining amount sent to CWD customers. Production staff worked diligently to boost surface water production this month, strategically utilizing groundwater and storage to optimize production.

CWD Production Break Down



CARMICHAEL WATER DISTRICT
DISTRIBUTION SUPERINTENDENT, Lucas Campbell
July 2025 Water Distribution Board Report

July CIP/ O&M Repair Work

Capital Improvements/Replacements

- Service Line: 7
- Fire Hydrant: 1
- Main Line Valve: 0
- New Construction Meters: 0
- New Hydrant Valve: 1
- Air Relief Valves – 0
- Meter Body Change Out: 60

O and M Repair Work

- Service Line: 1
- Fire Hydrant: 1
- Main Line: 0
- Meter Boxes: 4
- Main Line Valve Boxes: 0
- Registers Change Out: 4
- Hydrant Inspections: 5
- Valves Exercised: 5
- Antenna: 1
- Large Meter UME: 1

Customer Assist

- Call Outs: 54
- Private Repairs: 11
- Water Waste: 24
- Lock/Unlock: 14
- High/Low Pressure: 1
- USA: 122

Upgrading Wharf Hydrants to Wet Barrel Hydrants Across the District

Distribution crews have committed to upgrading select wharf hydrants throughout the district by replacing them with modern wet barrel hydrants. These upgrades significantly enhance fire suppression capabilities by increasing water flow and providing better access for firefighting operations.

Traditional wharf hydrants typically consist of a 4-inch threaded steel riser connected to a 4-inch wharf head valve, which includes only a single 2½-inch outlet. This configuration limits both flow capacity and flexibility during fire response.

The upgraded wet barrel hydrant installations consist of a full 6-inch hydrant run, including an operating valve and an isolation valve tied directly to the water main. This run continues to a 6-inch hydrant bury, which serves as the mounting point for the wet barrel hydrant.

Each new wet barrel hydrant is equipped with two 2½-inch outlets and one 4½-inch outlet. This allows for

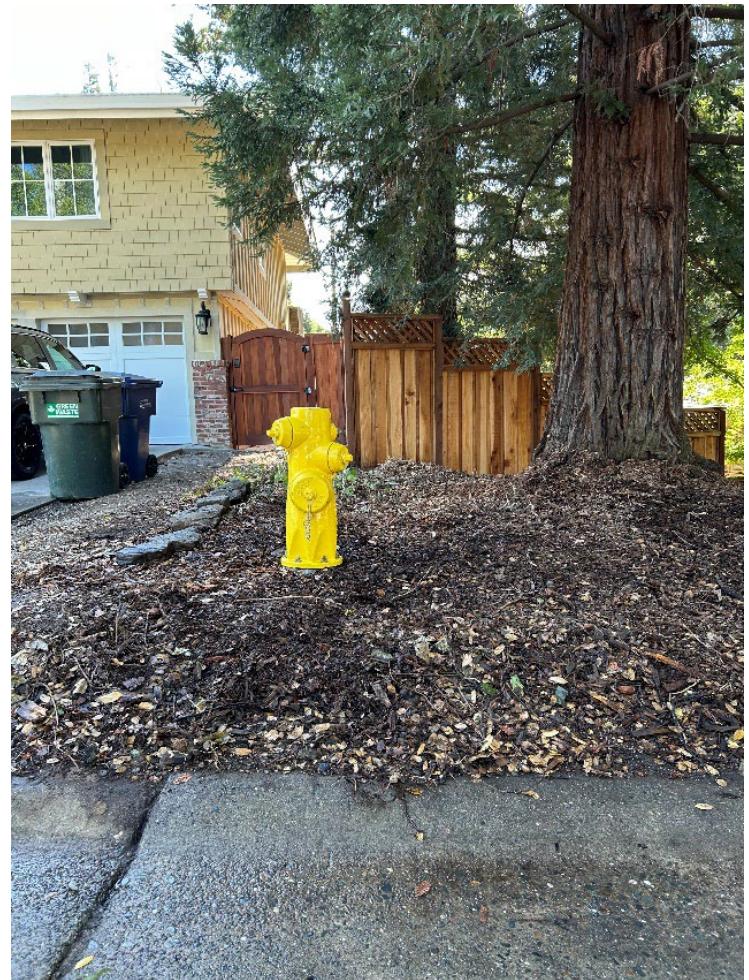


multiple hose connections simultaneously, significantly improving water delivery and operational flexibility during emergencies.

Additionally, most of the older wharf hydrants lacked dedicated isolation valves, which made it difficult to perform emergency repairs or routine maintenance without shutting down service to larger sections of the system. The new configuration solves this by including isolation valves in every hydrant run, ensuring crews can perform work safely and efficiently with minimal disruption to service.

These upgrades mark a major step forward in modernizing the district's firefighting infrastructure and ensuring reliable water access along waterfront and wharf areas.

Upgrades on Dell Rd. 7-23-25



Current Projects (Continued)

- **Claremont/Fair Oaks Blvd Water main/AC Overlay Project:** Flow Line has been awarded the contract for the Claremont/ Fair Oaks Blvd. project. Weekly construction meetings have been scheduled, potholing for utilities shall begin shortly.
- **Ancil Hoffman and River Bend Park Overlay Project (Continued):** The District has received the “C” plans for this project. The paving portion of this project will start at the intersection of California Ave. and Tarshes Way, working east into Ancil Hoffman Park to the club house and driving range. District forces are required to lower then raise all main line valve boxes (12 projected) within the limits of construction.
- **Sacramento County AC Overlay Phase D (Continued):** The District has received “A” plans for an additional overlay project in the areas of Kenneth Ave, west of Walnut Ave continuing south to El Camino Ave. Upon completion of the overlay project, there will be a three (3) year utility trench cut moratorium. In anticipation of this project and the three year moratorium, District staff will be upgrading many water service laterals and saddles at the main. Making these upgrades will help ensure CWD from having to perform construction in the roadway. Staff will GPS all facilities within the limits of the project and update the District map as needed.

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BOARD OF DIRECTORS

JULY 2025 MEETING ATTENDANCE

MEETINGS ATTENDED		DIRECTORS				
DATE	DESCRIPTION	DAVIS	EMMERSON	NELSON	GREENWOOD	SELSKY
7/8	CWD - Training/Meeting				1	
7/21	CWD - Regular Board Meeting	1	1	1	1	1
7/25	CWD - Special Board Meeting	1	1	1	1	1
7/4	CWD - Event/Public Outreach				1	
7/10	RWA - Meeting				1	
TOTAL MEETINGS ATTENDED		2	2	2	5	2

FISCAL YEAR 2025-2026 SUMMARY

	DAVIS	EMMERSON	NELSON	GREENWOOD	SELSKY
FYTD # MEETINGS ATTENDED	2	2	2	5	2
FYTD # MEETINGS COMPENSATED	0	0	0	0	0
FYTD \$ MEETINGS COMPENSATED	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FYTD EXPENSE REIMBURSEMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00