



Carson Water Subconservancy District Board of Directors & Carson River Watershed Committee

NOTICE OF PUBLIC MEETING

*A healthy watershed
that meets the water
needs of all users*

DATE: December 17, 2025
TIME: 6:30 pm
LOCATION: CWSD Conference Room
777 E. William Street, Suite 209, Carson City, NV 89701

CWSD encourages Board members to attend in person, but virtual attendance is available via [Zoom](#). Call (669)900-9128 if you prefer to phone in. Meeting ID: 891 1932 4504; Passcode: 985264

AGENDA

Please Note: The Carson Water Subconservancy District (CWSD) Board may: 1) take agenda items out of order; 2) combine two or more items for consideration; and/or 3) remove an item from the agenda or delay discussion related to an item at any time. All votes will be conducted by the CWSD Board of Directors. Reasonable efforts will be made to assist and accommodate individuals with limited ability to speak, write, or understand English or those with disabilities who wish to join the meeting. Please contact Catrina Schambra at (775)887-7450 or email: catrina@cwsd.org at least 3 business days in advance so that arrangements can be made.

1. Call to Order the CWSD Board of Directors/Carson River Watershed Committee
2. Roll Call
3. Pledge of Allegiance
4. For Discussion Only: Public Comment *(Public Comment will be taken at the beginning and end of the meeting and may be taken at the discretion of the Chair on agenda items listed for possible action. Action may not be taken on any matter brought up under public comment until scheduled for action at a later meeting. Public comment during meetings is limited to three minutes for each speaker.)*
5. For Possible Action: Approval of Agenda
6. For Possible Action: Approval of the Board Meeting Minutes of Nov. 19, 2025

RECESS TO CONVENE AS THE ADMINISTRATIVE COMMITTEE

7. Roll Call
8. For Discussion Only: Public Comment
9. For Possible Action: Approval of the Administrative Committee Meeting Minutes of December 8, 2025
10. For Discussion Only: Public Comment

ADJOURN TO RECONVENE AS THE BOARD OF DIRECTORS & CARSON RIVER WATERSHED COMMITTEE

****CONSENT AGENDA****

Please Note: All matters listed under the consent agenda are considered routine and may be acted upon by the Board of Directors with one action and without extensive hearing. Any member of the Board or any citizen may request that an item be taken from the consent agenda, discussed, and acted upon separately during this meeting.

To promote cooperative actions with communities to protect the Carson River Watershed.

11. For Possible Action: Approval of the Treasurer's Report for November 2025
12. For Possible Action: Approval of Payment of Bills for November 2025
13. For Possible Action: Authorize CWSD staff to pursue Allen Family Philanthropies Accelerating Natural Climate Solutions (NCS) Grant
14. For Possible Action: Authorize CWSD staff to pursue the Nevada Department of Transportation (NDOT) "Better Utilizing Investments to Leverage Development (BUILD) Grant


****END CONSENT AGENDA****

15. For Possible Action: Select the 2026 Andy Aldax Award Recipient(s)
16. For Discussion Only: Presentation on the South Silver Springs Area Drainage Master Plan (ADMP)
17. For Possible Action: Approval of the 30-Year Regional Drought & Water Sustainability Plan
18. For Possible Action: Approval of Board Members to attend the Nevada Water Resources Association (NWRA) Annual Conference, February 2-5, 2026, in Las Vegas
19. For Discussion Only: Staff Reports
 - General Manager
 - Legal
 - Correspondence
20. For Discussion Only: Directors & Committee Members Reports
21. For Discussion Only: Public Comment (*Public Comment will be taken at the beginning and end of the meeting and may be taken at the discretion of the Chair on agenda items listed for possible action. Action may not be taken on any matter brought up under public comment until scheduled for action at a later meeting. Public comment during meetings is limited to three minutes for each speaker.*)
22. Adjournment

Supporting material for this meeting may be requested from Catrina Schambra at 775-887-7450 (catrina@cwsd.org) and is available on the CWSD website at <https://www.cwsd.org>

AFFIDAVIT OF POSTING

The undersigned affirms that on or before 9 am on December 11, 2025, a copy of the *Notice of Public Meeting and Agenda* for the December 17, 2025, meeting of the Carson Water Subconservancy District Board of Directors, per NRS 241.020 was posted at the following locations: Carson Water Subconservancy District, 777 E. William St, Ste 209, Carson City, NV 89701; CWSD Website: <https://www.cwsd.org>; and Nevada Public Notice Website: <https://notice.nv.gov/>


Catrina Schambra, CWSD Office Manager

December 10, 2025 10 am

Date & Time of Posting

To promote cooperative actions with communities to protect the Carson River Watershed.

AGENDA ITEM #6

MINUTES OF LAST
BOARD MEETING

CARSON WATER SUBCONSERVANCY DISTRICT
Board of Directors
& Carson River Watershed Committee Meeting
November 19, 2025

***Draft* Minutes**

Chairperson Ernie Schank called the Carson Water Subconservancy District (CWSD) Board of Directors Meeting to order at 6:30 pm in the CWSD Conference Room at 777 E. William Street, Suite 209, Carson City, NV 89701. A roll call of the CWSD Board of Directors determined a quorum was present.

CWSD Directors present:

Stacey Giomi
Sharla Hales (*Zoom*)
Tammy Hendrix
Jim Hindle
Doug Johnson
Cassi Koerner

Ernie Schank
Lisa Schuette
Lee Sterrett
Fred Stodieck (*Zoom*)
Nathan Tolbert
Mike Workman

Director Getto was absent. The roll call included CWSD Committee Member present, David Griffith. Charlie Dobson was absent.

CWSD Staff & Guests present:

Bunny Bishop, Public (*Zoom*)
Brenda Hunt, CWSD
Ed James, CWSD
Steve King, CWSD Attorney

Lindsay Marsh, CWSD
Debbie Neddenriep, CWSD
Nicola Neilon, Auditor (*Zoom*)
Catrina Schambra, CWSD (*Zoom*)

Ms. Neddenriep led the Pledge of Allegiance.

Item #4 – Discussion Only: Public Comment – None

Item #5 – For Possible Action: Approval of Agenda

Committee Member Griffith motioned to approve the Agenda for November 19, 2025, as presented. Director Schuette seconded the motion and the Board unanimously approved.

Item #6 – For Possible Action: Approval of Board Meeting Minutes of October 15, 2025

Director Giomi motioned to approve the Board Meeting Minutes of October 15, 2025, with minor edits. Committee Member Griffith seconded the motion and the Board unanimously approved.

****CONSENT AGENDA****

Item #7 – For Possible Action: Approval of Treasurer’s Report for October 2025

Item #8 - For Possible Action: Approval of Payment of Bills for October 2025

Item #9 - For Possible Action: Approval of Addendum to Agreement #2025-16 – Rambling River Ranches to include Code of Federal Regulations (CFR) Appendix II to Part 200, Title 2 Contract Provisions for Non-Federal Entity Contracts Under Federal Awards

Item #10 - For Possible Action: Approval of Agreement #2025-20 Break-A-Heart Ranch – Water Quality, Soil Health and Regenerative Agricultural Best Management Practices Project (2 years), not to exceed \$56,398

Item #11 - For Possible Action: Approval of Additional Funding/Time Extension Addendum C to Resources Concepts, Inc. (RCI) Agreement #2023-19 Mexican Dam Portage Project, in an amount not to exceed \$11,500 and provide extension June 30, 2026

Director Giomi made a motion to approve the Consent Agenda as presented. The motion was seconded by Director Koerner and unanimously approved by the Board.

****END CONSENT AGENDA****

Item #12 For Possible Action: Approval of Fiscal Year 2024-25 Annual Audit

Nicola Neilon, CPA, thanked Mr. James and Ms. Schambra for their assistance during the FY 24-25 Audit. She appreciated their diligence, responsiveness and level of review detail and the Board should be proud of their staff.

Ms. Neilon presented the results of the FY 24-25 audit, highlighting key points such as total assets, liabilities, and net position. She was happy to report that the audit resulted in the highest level of assurances that CWSD financials are in order and the district is in a strong position to meet their goals in the coming year.

Committee Member Griffith made a motion to approve the Fiscal Year 24-25 Audit as presented. The motion was seconded by Director Hindle and unanimously approved by the Board.

Item #13 For Possible Action: Approval of Scoring System for the First Round of Applicants for the General Manager Position

Mr. James explained the scoring system is to assist the Administrative Committee in evaluating the applications to determine which candidates will be interviewed for the General Manager position. The committee will evaluate the candidates at this stage based solely on their application package.

Committee Member Griffith made a motion to approve the scoring system for the First Round of Applicants for the General Manager position as amended. The motion was seconded by Director Giomi and it was unanimously approved by the Board.

Item #14 For Discussion Only: Flood Awareness Update

Ms. Neddenriep gave a presentation on flood awareness, emphasizing the importance of mitigation and public education. The presentation included a watershed model, high water marks, and visualized flooding tools to help the public understand their risk. She discussed the importance of reducing flood risk through personal and community mitigation efforts. The presentation highlighted the role of the Nevada Floods program and their various outreach methods. She also mentioned the potential impact of changes to the National Flood Insurance Program (NFIP) and the need for local communities to be prepared.

[View presentation slides here.](#)

No action taken.

Item #15 For Discussion Only: Staff Reports

Mr. James reported on the following:

- The 30-Year Regional Drought & Water Sustainability Plan is wrapping up and he hopes to present the final report at the December meeting.
- The Mexican dam project is completed, and a ribbon-cutting event is planned for next year.
- He discussed the importance of maintaining relationships with partners and the need for a transition plan for the new General Manager. The Board discussed the possibility of having a farewell event for Mr. James and a welcoming of the new General Manager. Mr. James emphasized the importance of continuity and the need for his replacement to meet with key stakeholders.

Legal – None

Correspondence –

- (1) Rotary Club of Carson City awards Eagle Valley teacher
- (2) Lyon County seeks public input on South Silver Springs Area Drainage Master Plan

Item #16 For Discussion Only: Directors & Committee Members Reports

- Director Koerner reports on a flood awareness event in Douglas County, noting the participation of various flood groups and the public's interest in flood mitigation. She mentioned the Farm Bureau national meeting and the discussion on wolf management and its impact on ranchers.
- Director Tolbert reports on a board meeting to address flooding issues in a specific area, approving the cleaning of a channel to mitigate future damage.
- Director Hales discussed a meeting with residents affected by flooding, emphasizing the county's limited responsibility for maintenance and the need for public understanding. The Board discusses the importance of clear communication and the emotional challenges of addressing flooding issues. Director Hales discussed the challenges of explaining budget constraints to residents who expect immediate solutions to flooding issues.
- Committee Member Griffith reported on a recent agreement between the county and Western Rivers to create a conservancy on a Park property. He highlighted the ongoing negotiations and the potential impact on the county's budget and responsibilities. He also mentioned the challenges of wildlife management and the reactions from different stakeholders.

Item #17 For Discussion Only: Public Comment –

Chairperson Schank mentioned that next month is the annual Christmas dinner invited everyone to join.

There being no further business before the Board, Chairperson Schank adjourned the meeting at 8:14 pm.

Respectfully submitted,

Catrina Schambra

Secretary to the Board

AGENDA ITEM #9

**MINUTES OF LAST
ADMINISTRATIVE COMMITTEE
MEETING**

CARSON WATER SUBCONSERVANCY DISTRICT

Administrative Committee

DRAFT December 8, 2025, 8 am

Minutes

Committee Members' Present:

Myles Getto
Stacey Giomi
David Griffith
Cassi Koerner
Lee Sterrett
Mike Workman

CWSD Staff/Guests Present:

Ed James
Steve King
Catrina Schambra

Vice Chairperson Koerner called the meeting of the CWSD Administrative Committee to order at 8 am in the CWSD Conference Room, 777 E. William Street, Suite 209, Carson City, Nevada. Roll call determined a quorum of the committee was present.

Item #3 – Discussion Only: Public Comment – None

Item #4 - For Possible Action: Approval of Agenda

Committee Member Griffith made a motion to approve the Agenda as presented. Director Getto seconded the motion and the Agenda was approved unanimously.

Item #5 - For Possible Action: Review Nominations and Recommend Andy Aldax Award Winner(s)

For the annual Andy Aldax Carson River Watershed Award there were three nominees: Terry Katzer, Rachel Leach, and Fred Stodieck. The committee discussed the merits of each nominee and ultimately decided to recommend both Katzer and Stodieck for the 2026 award.

Director Giomi made a motion to recommend Terry Katzer and Fred Stodieck both receive the 2026 Andy Aldax Award. The motion was seconded by Director Workman and was unanimously approved by the Administrative Committee.

Item #6 - For Possible Action: Review General Manager Applications and Recommend Applicants to be Interviewed

The committee discussed their review of the applications for the General Manager position and determined the top four applicants to be interviewed by the full Board.

Director Koerner made a motion to recommend the Board interview applicants Bunny Bishop, Nick Charles, Reed Cozens, and Stephanie McAfee. The motion was seconded by Committee Member Griffith and unanimously approved by the Administrative Committee.

Item #7 - For Possible Action: Review Interview Process and Interview Questions

The committee discussed the interview process for the General Manager position and determined

the list of questions to be asked during the interview by the full Board. The applicants will be interviewed as a panel in front of the Board of Directors. They will be allowed to make an opening and closing statement and be asked the same 11 questions approved by the committee. The Chair and Vice Chair of the Board will be conducting the interview. Possible interview dates would be January 5, 22, or 26 at 8 am. The Board at the December meeting will select the interview date. The preferred date is January 5. There was discussion that the CWSD Conference Room is too small to hold the interview. Staff will investigate if the Community Center Sierra Room is available.

Director Giomi made a motion to recommend the Board conduct the interviews for the General Manager position as determined by the Administrative Committee. The motion was seconded by Director Getto and unanimously approved by the Administrative Committee.

Item # 8 – For Discussion Only: Public Comment – None

There being no further business to come before the Administrative Committee, Director Koerner adjourned the meeting at 10:05 am.

Respectfully submitted,

Catrina Schambra
Secretary to the Board

DRAFT

AGENDA ITEM #11

TREASURER'S REPORT

1:17 PM

CARSON WTR SUBCONSERVANCY DIST - ACQUISITION/CONSTRUCTION

12/01/25

Balance Sheet

Cash Basis

As of November 30, 2025

	Nov 30, 25
ASSETS	
Current Assets	
Checking/Savings	
1013-01 · Local Gov't Inv.Pool-Acqui/Cons	1,538,679.04
Total Checking/Savings	1,538,679.04
Total Current Assets	1,538,679.04
TOTAL ASSETS	1,538,679.04
LIABILITIES & EQUITY	
Equity	
4000-01 · Fund Balance - Capital Project	1,492,334.09
Net Income	46,344.95
Total Equity	1,538,679.04
TOTAL LIABILITIES & EQUITY	1,538,679.04

1:17 PM

CARSON WTR SUBCONSERVANCY DIST - ACQUISITION/CONSTRUCTION

12/01/25

Profit & Loss Budget vs. Actual

Cash Basis

July through November 2025

	<u>Jul - Nov 25</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>
Ordinary Income/Expense				
Income				
5032-01 · Interest Income - LGIP Acqui/Co	27,154.86	44,526.48	-17,371.62	61.0%
Total Income	27,154.86	44,526.48	-17,371.62	61.0%
Expense				
8015-04 · Acqui/Construction Projects	-19,190.09	1,300,000.00	-1,319,190.09	-1.5%
Total Expense	-19,190.09	1,300,000.00	-1,319,190.09	-1.5%
Net Ordinary Income	46,344.95	-1,255,473.52	1,301,818.47	-3.7%
Other Income/Expense				
Other Income				
8000-01 · Beginning Equity		1,484,216.00	-1,484,216.00	
Total Other Income		1,484,216.00	-1,484,216.00	
Net Other Income		1,484,216.00	-1,484,216.00	
Net Income	46,344.95	228,742.48	-182,397.53	20.3%

1:17 PM

CARSON WTR SUBCONSERVANCY DIST - ACQUISITION/CONSTRUCTION

12/01/25

Profit & Loss YTD Comparison

Cash Basis

November 2025

	<u>Nov 25</u>	<u>Jul - Nov 25</u>
Ordinary Income/Expense		
Income		
5032-01 · Interest Income - LGIP Acqui/Co	5,397.01	27,154.86
Total Income	5,397.01	27,154.86
Expense		
8015-04 · Acqui/Construction Projects		-19,190.09
Total Expense		-19,190.09
Net Ordinary Income	5,397.01	46,344.95
Net Income	<u>5,397.01</u>	<u>46,344.95</u>

1:21 PM

12/01/25

Cash Basis

Floodplain Management Fund
Balance Sheet
As of November 30, 2025

	Nov 30, 25
ASSETS	
Current Assets	
Checking/Savings	
1013-03 · LGIP - Floodplain	313,106.68
Total Checking/Savings	313,106.68
Total Current Assets	313,106.68
TOTAL ASSETS	313,106.68
LIABILITIES & EQUITY	
Equity	
32000 · Retained Earnings	418,985.55
Net Income	-105,878.87
Total Equity	313,106.68
TOTAL LIABILITIES & EQUITY	313,106.68

1:21 PM

12/01/25

Cash Basis

Floodplain Management Fund

Profit & Loss Budget vs. Actual

July through November 2025

	Jul - Nov 25	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5032-03 · Int. Inc.-LGIP-Floodplain	7,380.91	9,347.82	-1,966.91	79.0%
Total Income	7,380.91	9,347.82	-1,966.91	79.0%
Net Ordinary Income	7,380.91	9,347.82	-1,966.91	79.0%
Other Income/Expense				
Other Income				
8000-03 · Beginning Equity	0.00	311,594.00	-311,594.00	0.0%
Total Other Income	0.00	311,594.00	-311,594.00	0.0%
Other Expense				
8002-03 · Trans.Out	113,259.78	265,304.00	-152,044.22	42.7%
Total Other Expense	113,259.78	265,304.00	-152,044.22	42.7%
Net Other Income	-113,259.78	46,290.00	-159,549.78	-244.7%
Net Income	-105,878.87	55,637.82	-161,516.69	-190.3%

1:21 PM
12/01/25
Cash Basis

Floodplain Management Fund
Profit & Loss YTD Comparison
November 2025

	Nov 25	Jul - Nov 25
Ordinary Income/Expense		
Income		
5032-03 · Int. Inc.-LGIP-Floodplain	1,319.44	7,380.91
Total Income	1,319.44	7,380.91
Net Ordinary Income	1,319.44	7,380.91
Other Income/Expense		
Other Expense		
8002-03 · Trans.Out	11,082.08	113,259.78
Total Other Expense	11,082.08	113,259.78
Net Other Income	-11,082.08	-113,259.78
Net Income	-9,762.64	-105,878.87

3:13 PM

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

12/09/25

Balance Sheet

Cash Basis

As of November 30, 2025

	Nov 30, 25
ASSETS	
Current Assets	
Checking/Savings	
1013-00 · Cash in Checking - U. S. Bank	115,235.23
1014-00 · Local Gov't Inv. Pool-Regular	1,030,322.20
1030-00 · Petty Cash	100.00
Total Checking/Savings	1,145,657.43
Other Current Assets	
1055-00 · Payroll Deposit - Carson City	500.00
Total Other Current Assets	500.00
Total Current Assets	1,146,157.43
TOTAL ASSETS	1,146,157.43
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
3360-00 · Accrued Vacation	15,519.28
3362-00 · Accrued sick leave	86,217.03
Total Other Current Liabilities	101,736.31
Total Current Liabilities	101,736.31
Total Liabilities	101,736.31
Equity	
4000-00 · Fund Balance	845,585.97
Net Income	198,835.15
Total Equity	1,044,421.12
TOTAL LIABILITIES & EQUITY	1,146,157.43

9:28 AM

12/09/25

Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Profit & Loss Budget vs. Actual

July through November 2025

	Jul - Nov 25	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5007-00 · Storey County Contribution	21,887.00	21,887.00		100.0%
5008-00 · Alpine Co. Joint Powers contrib		15,338.00	-15,338.00	
5009-00 · Churchill County Ad Valorem	91,299.95	289,103.00	-197,803.05	31.6%
5010-00 · Lyon County Ad Valorem	117,877.61	292,465.00	-174,587.39	40.3%
5011-00 · Douglas County Ad Valorem	503,333.03	873,487.00	-370,153.97	57.6%
5012-00 · Carson City Ad Valorem	345,106.82	629,658.00	-284,551.18	54.8%
5022-00 · Water Lease - Mud Lake		60,000.00	-60,000.00	
5023-00 · Water Lease-Lost Lakes		880.00	-880.00	
5031-00 · Interest Income-LGIP Gen.Fund	18,165.24	26,476.00	-8,310.76	68.6%
5060-00 · Misc. Income/Watershed Tour		5,000.00	-5,000.00	
5082-00 · Alpine Co.-CASGEM Grant	1,328.00	500.00	828.00	265.6%
5100-01 · NDEP QAPP Grant	3,881.62	21,927.00	-18,045.38	17.7%
5100-02 · NDEP ReGen Ag Grant	6,699.59		6,699.59	100.0%
5101-01 · State Parks Aquatic Trail 25-26	2,943.89	142,244.00	-139,300.11	2.1%
5406-00 · NDEM 30-Yr Regional Water Plan		51,104.00	-51,104.00	
5407-00 · NDEM North Dayton BCA Study		62,538.00	-62,538.00	
6009-00 · FEMA - COMS #2	83,324.35	357,430.00	-274,105.65	23.3%
Total Income	1,195,847.10	2,850,037.00	-1,654,189.90	42.0%
Gross Profit	1,195,847.10	2,850,037.00	-1,654,189.90	42.0%
Expense				
7015-00 · Salaries & Wages	232,386.82	630,100.00	-397,713.18	36.9%
7020-00 · Employee Benefits	107,935.15	300,400.00	-192,464.85	35.9%
7021-00 · Workers Comp Ins.	63.42	1,500.00	-1,436.58	4.2%
7101-00 · Director's Fees				
7101-01 · Director Benefits	71.32		71.32	100.0%
7101-02 · Director's Fees-Alpine Co.	400.00		400.00	100.0%
7101-00 · Director's Fees - Other	4,080.00	21,000.00	-16,920.00	19.4%
Total 7101-00 · Director's Fees	4,551.32	21,000.00	-16,448.68	21.7%
7102-00 · Insurance	6,202.56	6,203.00	-0.44	100.0%
7103-00 · Office Supplies	729.40	4,600.00	-3,870.60	15.9%
7104-00 · Postage	720.35	1,700.00	-979.65	42.4%
7105-00 · Rent	18,139.00	43,521.00	-25,382.00	41.7%
7106-00 · Telephone/Internet	2,225.65	6,400.00	-4,174.35	34.8%
7107-00 · Travel-transport/meals/lodging				
7107-01 · Car Allowance	2,500.00		2,500.00	100.0%
7107-00 · Travel-transport/meals/lodging - Other	4,859.32	30,500.00	-25,640.68	15.9%
Total 7107-00 · Travel-transport/meals/lodging	7,359.32	30,500.00	-23,140.68	24.1%
7108-00 · Dues & Publications	395.00	1,800.00	-1,405.00	21.9%
7109-00 · Miscellaneous Expense		500.00	-500.00	
7110-00 · Conferences & Education	1,098.18	4,600.00	-3,501.82	23.9%
7111-00 · Office Equipment	1,771.34	7,000.00	-5,228.66	25.3%
7112-00 · Bank Charges	87.90	60.00	27.90	146.5%
7114-00 · Outside Professional Services	647.26	23,500.00	-22,852.74	2.8%
7115-00 · Accounting	125.00	25,000.00	-24,875.00	0.5%
7116-00 · Legal	10,000.00	30,000.00	-20,000.00	33.3%
7117-00 · Lost Lakes Expenses	1,513.08	18,000.00	-16,486.92	8.4%
7118-00 · Mud Lake O & M		1,900.00	-1,900.00	
7120-00 · Integrated Watershed Programs				
7120-07 · Watershed Tour		7,500.00	-7,500.00	
Total 7120-00 · Integrated Watershed Programs		7,500.00	-7,500.00	
7121-03 · CR Watershed Web System 25-28	500.00	16,560.00	-16,060.00	3.0%
7121-04 · CRC lamcarsonriver SURVEY 25-26		45,000.00	-45,000.00	
7121-05 · NDEP 319 QAPP (reimb) 25-26	6.96	19,250.00	-19,243.04	0.0%
7121-06 · NDEP Regen Ag	159.16		159.16	100.0%
7126-01 · NDEM 30-Year Drought Plan	12,974.26	25,442.00	-12,467.74	51.0%

9:28 AM

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

12/09/25

Profit & Loss Budget vs. Actual

Cash Basis

July through November 2025

	Jul - Nov 25	Budget	\$ Over Budget	% of Budget
7126-02 · NDEM-North Dayton BAC Study				
7126-03 · NDEM-N Dayton BAC -MATCH		11,489.00	-11,489.00	
7126-02 · NDEM-North Dayton BAC Study - Other	49,907.93	40,839.00	9,068.93	122.2%
Total 7126-02 · NDEM-North Dayton BAC Study	49,907.93	52,328.00	-2,420.07	95.4%
7127-00 · State Parks Aquatic Trail	1,075.00		1,075.00	100.0%
7127-01 · State Parks Mexican Dam				
7127-02 · State Parks Mex Dam - MATCH		43,915.00	-43,915.00	
7127-01 · State Parks Mexican Dam - Other		136,194.00	-136,194.00	
Total 7127-01 · State Parks Mexican Dam		180,109.00	-180,109.00	
7332-10 · RW CCR Work Days 24-25		5,000.00	-5,000.00	
7332-11 · RW CCR Workdays 25-26	5,846.55	30,000.00	-24,153.45	19.5%
7337-48 · LCD Clearing & Snagging 25-26		32,700.00	-32,700.00	
7337-51 · TNC - River Fork Ranch 24-26	2,721.08	32,089.00	-29,367.92	8.5%
7337-60 · DVCD - Administration 24-26	8,500.59	50,000.00	-41,499.41	17.0%
7337-61 · DVCD - Weed Crew 24-26	3,196.19	30,000.00	-26,803.81	10.7%
7337-62 · DVCD Hazard Removal 25-26	1,101.87	157,000.00	-155,898.13	0.7%
7337-63 · DVCD Pradere/Ricci 25-26	90,235.44	116,800.00	-26,564.56	77.3%
7337-70 · CVCD-Carson River Repairs 24-26	96,710.54	112,500.00	-15,789.46	86.0%
7337-71 · CVCD Flood Damages 25-26		165,000.00	-165,000.00	
7337-72 · CVCD Administration 25-26	8,110.80	60,000.00	-51,889.20	13.5%
7404-00 · Noxious Weeds Control-CR Wtrshd				
7404-04 · Noxious Weed Control-Lyon Co.	5,974.01		5,974.01	100.0%
7404-00 · Noxious Weeds Control-CR Wtrshd - Other		90,000.00	-90,000.00	
Total 7404-00 · Noxious Weeds Control-CR Wtrshd	5,974.01	90,000.00	-84,025.99	6.6%
7443-00 · FEMA - COMS 2				
7443-01 · Gold Cyn ADMP-JEF	48,907.80		48,907.80	100.0%
7443-02 · South SS ADMP- Wood Rodgers	115,125.50		115,125.50	100.0%
7443-03 · FAW - RW	2,245.88		2,245.88	100.0%
7443-04 · Sawmill & Pinenut Study - KH	64,975.00		64,975.00	100.0%
7443-00 · FEMA - COMS 2 - Other	1,602.80	327,566.00	-325,963.20	0.5%
Total 7443-00 · FEMA - COMS 2	232,856.98	327,566.00	-94,709.02	71.1%
7500-00 · USGS Monitoring Contracts				
7500-6 · USGS Stream Flow Gages 25-28	24,463.00	95,629.00	-71,166.00	25.6%
7510-01 · USGS CR Basin GW & WQ EXT 26		82,450.00	-82,450.00	
7529-00 · USGS Water Resources 2021-26**	3,581.25		3,581.25	100.0%
Total 7500-00 · USGS Monitoring Contracts	28,044.25	178,079.00	-150,034.75	15.7%
7600-00 · Alpine County Projects				
7600-09 · Al.Co.-CASGEM		5.00	-5.00	
7600-18 · AWG Programs 25-26	7,500.00	30,000.00	-22,500.00	25.0%
Total 7600-00 · Alpine County Projects	7,500.00	30,005.00	-22,505.00	25.0%
7610-00 · Douglas County Projects				
7610-10 · Do.Co.Reg.Pipeline Debt Service	62,500.00	125,000.00	-62,500.00	50.0%
Total 7610-00 · Douglas County Projects	62,500.00	125,000.00	-62,500.00	50.0%
7620-00 · Carson City Projects				
7620-11 · CC Reg.Pipeline Debt Service		125,000.00	-125,000.00	
7620-19 · CC Empire Ranch Trail 25-26		15,000.00	-15,000.00	
Total 7620-00 · Carson City Projects		140,000.00	-140,000.00	
7640-00 · Churchill County Projects				
7640-23 · Lahontan Vly.Wtr.Lvl. 2024-27	5,673.00	16,000.00	-10,327.00	35.5%
7640-24 · Dixie Valley Wtr Lvl 25-28	4,503.00	26,000.00	-21,497.00	17.3%
Total 7640-00 · Churchill County Projects	10,176.00	42,000.00	-31,824.00	24.2%
7700-00 · PROJECTS PAID BY LGIP FUNDS				
7600-16 · AWG WF Priority (FD LGIP) 23-26	3,327.14	43,350.00	-40,022.86	7.7%

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CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

12/09/25

Profit & Loss Budget vs. Actual

Cash Basis

July through November 2025

	Jul - Nov 25	Budget	\$ Over Budget	% of Budget
7630-12 · Lyon Cty HWY 50 ROW ext 6/30/25	-19,190.09		-19,190.09	100.0%
7630-13 · TCID Diversion Dam Repair 25-26		50,000.00	-50,000.00	
7630-14 · Flood Hazard Web Viewer 25-28	68,682.93	70,084.00	-1,401.07	98.0%
7630-15 · Flood Viewer ADMP Uploads 25-26		1,870.00	-1,870.00	
7700-01 · Acqui/Const Projects		1,300,000.00	-1,300,000.00	
7700-02 · Floodplain Mgmt Projects	39,375.00	100,000.00	-60,625.00	39.4%
Total 7700-00 · PROJECTS PAID BY LGIP FUNDS	92,194.98	1,565,304.00	-1,473,109.02	5.9%
8008-00 · Contingency Fund		400,000.00	-400,000.00	
Total Expense	1,116,243.34	5,193,516.00	-4,077,272.66	21.5%
Net Ordinary Income	79,603.76	-2,343,479.00	2,423,082.76	-3.4%
Other Income/Expense				
Other Income				
8005-00 · Beginning Equity		882,522.00	-882,522.00	
8009-00 · Trans. In-Floodplain Mgmt. Fd.	113,259.78	265,304.00	-152,044.22	42.7%
8015-00 · Trans. In-Acq/Const. Fund		1,300,000.00	-1,300,000.00	
8017-00 · CTWCD Income		95,889.00	-95,889.00	
Total Other Income	113,259.78	2,543,715.00	-2,430,455.22	4.5%
Other Expense				
8002-00 · Transfer Out-Acq/Const Fund	19,190.09		19,190.09	100.0%
Total Other Expense	19,190.09		19,190.09	100.0%
Net Other Income	94,069.69	2,543,715.00	-2,449,645.31	3.7%
Net Income	173,673.45	200,236.00	-26,562.55	86.7%

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Profit & Loss YTD Comparison

November 2025

12/09/25

Accrual Basis

	Nov 25	Jul - Nov 25
Ordinary Income/Expense		
Income		
5007-00 · Storey County Contribution		21,887.00
5009-00 · Churchill County Ad Valorem		91,299.95
5010-00 · Lyon County Ad Valorem		117,877.61
5011-00 · Douglas County Ad Valorem	139,406.62	503,333.03
5012-00 · Carson City Ad Valorem	98,085.09	345,106.82
5031-00 · Interest Income-LGIP Gen.Fund	3,846.22	18,165.24
5060-00 · Misc. Income/Watershed Tour		
5082-00 · Alpine Co.-CASGEM Grant		1,328.00
5100-01 · NDEP QAPP Grant	3,881.62	3,881.62
5100-02 · NDEP ReGen Ag Grant	6,699.59	6,699.59
5101-00 · State Parks Aquatic Trail 24-25		
5101-01 · State Parks Aquatic Trail 25-26	2,943.89	2,943.89
5406-00 · NDEM 30-Yr Regional Water Plan		
5407-00 · NDEM North Dayton BCA Study		
6009-00 · FEMA - COMS #2		83,324.35
Total Income	254,863.03	1,195,847.10
Gross Profit	254,863.03	1,195,847.10
Expense		
7015-00 · Salaries & Wages	47,925.65	232,386.82
7020-00 · Employee Benefits	23,114.36	107,935.15
7021-00 · Workers Comp Ins.		63.42
7101-00 · Director's Fees		
7101-01 · Director Benefits	19.22	71.32
7101-02 · Director's Fees-Alpine Co.		400.00
7101-00 · Director's Fees - Other	960.00	4,080.00
Total 7101-00 · Director's Fees	979.22	4,551.32
7102-00 · Insurance		6,202.56
7103-00 · Office Supplies	246.81	729.40
7104-00 · Postage	126.00	720.35
7105-00 · Rent	3,627.80	18,139.00
7106-00 · Telephone/Internet	812.43	2,225.65
7107-00 · Travel-transport/meals/lodging		
7107-01 · Car Allowance	500.00	2,500.00
7107-00 · Travel-transport/meals/lodging - Other		4,859.32
Total 7107-00 · Travel-transport/meals/lodging	500.00	7,359.32
7108-00 · Dues & Publications	395.00	395.00
7110-00 · Conferences & Education	-500.00	1,098.18
7111-00 · Office Equipment	178.27	1,771.34
7112-00 · Bank Charges	69.95	87.90
7114-00 · Outside Professional Services	70.00	647.26
7115-00 · Accounting		125.00
7116-00 · Legal	2,500.00	10,000.00
7117-00 · Lost Lakes Expenses	723.88	1,513.08
7120-00 · Integrated Watershed Programs		
7120-18 · Clear Creek NPS Educ.Program		
Total 7120-00 · Integrated Watershed Programs		
7121-02 · CRC Outreach Funding 24-25		500.00
7121-03 · CR Watershed Web System 25-28		
7121-05 · NDEP 319 QAPP (reimb) 25-26	6.24	6.96
7121-06 · NDEP Regen Ag	69.94	159.16
7126-01 · NDEM 30-Year Drought Plan	5,052.00	12,974.26
7126-02 · NDEM-North Dayton BAC Study	25,036.00	49,907.93
7127-00 · State Parks Aquatic Trail	155.00	1,075.00
7332-10 · RW CCR Work Days 24-25		

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CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

12/09/25

Profit & Loss YTD Comparison

Accrual Basis

November 2025

	Nov 25	Jul - Nov 25
7332-11 · RW CCR Workdays 25-26		5,846.55
7337-47 · LCD Clearing and Snagging 24-25		
7337-51 · TNC - River Fork Ranch 24-26		2,721.08
7337-60 · DVCD - Administration 24-26		8,500.59
7337-61 · DVCD - Weed Crew 24-26		3,196.19
7337-62 · DVCD Hazard Removal 25-26		1,101.87
7337-63 · DVCD Pradere/Ricci 25-26	86,728.02	90,235.44
7337-70 · CVCD-Carson River Repairs 24-26	46,765.79	96,710.54
7337-72 · CVCD Administration 25-26	8,110.80	8,110.80
7404-00 · Noxious Weeds Control-CR Wtrshd		
7404-01 · Noxious Weed Control-Alpine Co.		
7404-02 · Noxious Weed Control-Douglas Co		
7404-03 · Noxious Weed Control-CarsonCity		
7404-04 · Noxious Weed Control-Lyon Co.		5,974.01
7404-05 · Noxious Weed Control-Churchill		
Total 7404-00 · Noxious Weeds Control-CR Wtrshd		5,974.01
7443-00 · FEMA - COMS 2		
7443-01 · Gold Cyn ADMP-JEF	24,882.10	48,907.80
7443-02 · South SS ADMP- Wood Rodgers	59,360.50	115,125.50
7443-03 · FAW - RW	1,500.00	2,245.88
7443-04 · Sawmill & Pinenut Study - KH	19,975.00	64,975.00
7443-00 · FEMA - COMS 2 - Other	4.62	1,602.80
Total 7443-00 · FEMA - COMS 2	105,722.22	232,856.98
7500-00 · USGS Monitoring Contracts		
7500-05 · USGS Stream Flow Gages 23-25		
7500-6 · USGS Stream Flow Gages 25-28	24,463.00	24,463.00
7510-01 · USGS CR Basin GW & WQ EXT 26		
7529-00 · USGS Water Resources 2021-26**		3,581.25
Total 7500-00 · USGS Monitoring Contracts	24,463.00	28,044.25
7600-00 · Alpine County Projects		
7600-17 · AWG Programs 24-25		
7600-18 · AWG Programs 25-26		7,500.00
Total 7600-00 · Alpine County Projects		7,500.00
7610-00 · Douglas County Projects		
7610-10 · Do.Co.Reg.Pipeline Debt Service		62,500.00
Total 7610-00 · Douglas County Projects		62,500.00
7640-00 · Churchill County Projects		
7640-22 · Dixie Valley Wtr Lvl 2022-25		
7640-23 · Lahontan Vly.Wtr.Lvl. 2024-27		5,673.00
7640-24 · Dixie Valley Wtr Lvl 25-28		4,503.00
Total 7640-00 · Churchill County Projects		10,176.00
7700-00 · PROJECTS PAID BY LGIP FUNDS		
7600-16 · AWG WF Priority (FD LGIP) 23-26		3,327.14
7630-12 · Lyon Cty HWY 50 ROW ext 6/30/25		-19,190.09
7630-14 · Flood Hazard Web Viewer 25-28	11,082.08	68,682.93
7700-02 · Floodplain Mgmt Projects		39,375.00
Total 7700-00 · PROJECTS PAID BY LGIP FUNDS	11,082.08	92,194.98
Total Expense	393,960.46	1,116,243.34
Net Ordinary Income	-139,097.43	79,603.76
Other Income/Expense		
Other Income		
8009-00 · Trans. In-Floodplain Mgmt. Fd.	11,082.08	113,259.78

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Profit & Loss YTD Comparison

November 2025

	Nov 25	Jul - Nov 25
Total Other Income	11,082.08	113,259.78
Other Expense		
8002-00 · Transfer Out-Acq/Const Fund		19,190.09
Total Other Expense		19,190.09
Net Other Income	11,082.08	94,069.69
Net Income	-128,015.35	173,673.45

AGENDA ITEM #**12**

PAYMENT OF BILLS

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Transaction Detail by Account

November 2025

Type	Date	Num	Name	Memo	Paid Amount	Balance
1013-00 - Cash in Checking - U. S. Bank						
Check	11/03/2025	11615	Euronev, Ltd.	#74334 November Rent	-3,627.80	-3,627.80
Deposit	11/06/2025			Deposit	2,943.89	-683.91
Deposit	11/06/2025			Deposit	500.00	-183.91
Check	11/06/2025	11617	Entravision Communications	Invoice #818193 A-C	-1,500.00	-1,683.91
Check	11/06/2025	11618	Carson City	CWSD Payroll #23	-37,110.43	-38,794.34
Deposit	11/12/2025			Deposit	1,136.33	-37,658.01
Check	11/12/2025	11619	Steven D. King	Legal October 2025	-2,500.00	-40,158.01
Check	11/12/2025	11620	Nevada News Group	Ad #56784 Customer #2092	-64.06	-40,222.07
Check	11/12/2025	11621	Braulio Fernandez	Invoice #15	-70.00	-40,292.07
Check	11/12/2025	11622	Lumos & Assoc., Inc.	Invoice #129945	-25,036.00	-65,328.07
Check	11/12/2025	11623	Michael Baker International, Inc.	Inv#1266493	-11,082.08	-76,410.15
Check	11/12/2025	11624	VOID	VOID		-76,410.15
Check	11/12/2025	11625	VOID	VOID		-76,410.15
Check	11/12/2025	11627	Carson Valley Conservation District	#2024-4 Inv#5B & #2025-11 Inv#1	-21,485.22	-97,895.37
Check	11/12/2025	11626	VOID	VOID		-97,895.37
Check	11/17/2025	11628	Kimley-Horn & Associates, Inc.	Invoice #33764279	-19,975.00	-117,870.37
Check	11/17/2025	11629	Resource Concepts, Inc	Inv#25-1418 Project 23-207	-155.00	-118,025.37
Check	11/17/2025	11630	Pacific Office Automation, INC	Acct#1055811531	-231.76	-118,257.13
Check	11/17/2025	11631	Wood Rodgers	Invoice #197283	-59,360.50	-177,617.63
General Jo...	11/17/2025			US Bank Portal Fee & Wire Fees - November	-69.95	-177,687.58
Deposit	11/18/2025			Deposit	3,881.62	-173,805.96
General Jo...	11/18/2025			Paid via Flood LGIP Funds (Flood Hazard Web View...	11,082.08	-162,723.88
Deposit	11/18/2025			Deposit	150,000.00	-12,723.88
Deposit	11/24/2025			Deposit	6,699.59	-6,024.29
Check	11/24/2025	11632	Carson City	CWSD Payroll #24	-35,408.80	-41,433.09
Deposit	11/24/2025			Deposit	237,574.81	196,141.72
Check	11/24/2025	11633	Lumos & Assoc., Inc.	Invoice #130186	-5,052.00	191,089.72
Check	11/24/2025	11634	CA Dept.of Tax & Fee Administration	Water Rights FY 25-26	-723.88	190,365.84
Check	11/24/2025	11635	Pacific Office Automation	Acct #710047	-79.80	190,286.04
Check	11/24/2025	11636	Bank of America	Acct. #4024 4910 0003 3949	-1,172.10	189,113.94
Check	11/26/2025	11637	Carson Valley Conservation District	#2024-4 Inv#6A	-33,391.37	155,722.57
Check	11/26/2025	11638	Dayton Valley Conservation District	#2025-19 Inv#2	-86,728.02	68,994.55
Check	11/26/2025	ACH	U.S. Geological Survey	Quarterly Payment	-24,463.00	44,531.55
Total 1013-00 - Cash in Checking - U. S. Bank					44,531.55	44,531.55
1014-00 - Local Gov't Inv. Pool-Regular						
Deposit	11/01/2025			Interest	3,846.22	3,846.22
Deposit	11/18/2025		LGIP	LGIP tranfer to General Fund CChecking	-150,000.00	-146,153.78
Total 1014-00 - Local Gov't Inv. Pool-Regular					-146,153.78	-146,153.78
1502-00 - Other Prepaid Expenses						
General Jo...	11/26/2025			Bank of America Visa - Lost Check Credit	-374.69	-374.69
General Jo...	11/26/2025			Refund Check from Bank of America	-1,136.33	-1,511.02
General Jo...	11/30/2025	AJE -...		Temp fix to Visa Balance	279.60	-1,231.42
Total 1502-00 - Other Prepaid Expenses					-1,231.42	-1,231.42
3307-00 - CC Payroll Due						
Check	11/06/2025	11618	Carson City	Payroll #23 (10/17/2025-10/30/2025)	37,110.43	37,110.43
General Jo...	11/06/2025			Payroll #23 (10/17/2025-10/30/2025)	-37,582.98	-472.55
General Jo...	11/06/2025			October Meals (10/15/25 Bd Mtg Meal)	472.55	
General Jo...	11/24/2025			Payroll #24 (10/31/2025-11/13/2025)	-35,408.80	-35,408.80
Check	11/24/2025	11632	Carson City	Payroll #24 (10/31/2025-11/13/2025)	35,408.80	
Total 3307-00 - CC Payroll Due						
5011-00 - Douglas County Ad Valorem						
Deposit	11/24/2025	763027	Douglas County Treasurer	October Ad Valorem Taxes	-139,406.62	-139,406.62
Total 5011-00 - Douglas County Ad Valorem					-139,406.62	-139,406.62
5012-00 - Carson City Ad Valorem						
Deposit	11/24/2025	91111...	Carson City	October Ad Valorem Taxes	-98,085.09	-98,085.09
Total 5012-00 - Carson City Ad Valorem					-98,085.09	-98,085.09
5031-00 - Interest Income-LGIP Gen.Fund						
Deposit	11/01/2025			Interest	-3,846.22	-3,846.22
Total 5031-00 - Interest Income-LGIP Gen.Fund					-3,846.22	-3,846.22
5060-00 - Misc. Income/Watershed Tour						
Deposit	11/12/2025	52825...	Bank of America	Credit balance on Visa Card (due to lost check)	-1,136.33	-1,136.33
General Jo...	11/26/2025			Refund Check from Bank of America	1,136.33	
Total 5060-00 - Misc. Income/Watershed Tour						
5100-01 - NDEP QAPP Grant						

For internal & discussion purposes only.

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12/09/25
Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Transaction Detail by Account
November 2025

Type	Date	Num	Name	Memo	Paid Amount	Balance
Deposit	11/18/2025	11397...	Nevada State Treasurer	Draw 2	-3,881.62	-3,881.62
Total 5100-01 · NDEP QAPP Grant					-3,881.62	-3,881.62
5100-02 · NDEP ReGen Ag Grant						
Deposit	11/24/2025	11997...	Nevada State Treasurer	Draw 2	-6,699.59	-6,699.59
Total 5100-02 · NDEP ReGen Ag Grant					-6,699.59	-6,699.59
5101-01 · State Parks Aquatic Trail 25-26						
Deposit	11/06/2025	10397...	Nevada State Treasurer	Draw 10	-2,943.89	-2,943.89
Total 5101-01 · State Parks Aquatic Trail 25-26					-2,943.89	-2,943.89
7015-00 · Salaries & Wages						
General Jo...	11/06/2025			Salary Payroll #23 Hunt	4,504.56	4,504.56
General Jo...	11/06/2025			Salary Payroll #23 James	7,733.45	12,238.01
General Jo...	11/06/2025			Salary Payroll #23 Marsh	3,216.26	15,454.27
General Jo...	11/06/2025			Salary Payroll #23 Neddenriep	3,492.08	18,946.35
General Jo...	11/06/2025			Salary Payroll #23 Nicholas	2,242.62	21,188.97
General Jo...	11/06/2025			Salary Payroll #23 Schambra	3,166.71	24,355.68
General Jo...	11/06/2025			October Meals (10/15/25 Bd Mtg Meal)	-109.05	24,246.63
General Jo...	11/24/2025			Salary Payroll #24 Hunt	4,350.28	28,596.91
General Jo...	11/24/2025			Salary Payroll #24 James	7,697.10	36,294.01
General Jo...	11/24/2025			Salary Payroll #24 Marsh	2,816.46	39,110.47
General Jo...	11/24/2025			Salary Payroll #24 Neddenriep	3,405.83	42,516.30
General Jo...	11/24/2025			Salary Payroll #24 Nicholas	2,242.64	44,758.94
General Jo...	11/24/2025			Salary Payroll #24 Schambra	3,166.71	47,925.65
Total 7015-00 · Salaries & Wages					47,925.65	47,925.65
7020-00 · Employee Benefits						
General Jo...	11/06/2025			Benies Payroll #23 Hunt	2,383.62	2,383.62
General Jo...	11/06/2025			Benies Payroll #23 James	3,762.48	6,146.10
General Jo...	11/06/2025			Benies Payroll #23 Marsh	1,117.55	7,263.65
General Jo...	11/06/2025			Benies Payroll #23 Neddenriep	1,779.40	9,043.05
General Jo...	11/06/2025			Benies Payroll #23 Nicholas	923.00	9,966.05
General Jo...	11/06/2025			Benies Payroll #23 Schambra	1,668.53	11,634.58
General Jo...	11/24/2025			Benies Payroll #24 Hunt	2,324.68	13,959.26
General Jo...	11/24/2025			Benies Payroll #24 James	3,761.96	17,721.22
General Jo...	11/24/2025			Benies Payroll #24 Marsh	1,041.79	18,763.01
General Jo...	11/24/2025			Benies Payroll #24 Neddenriep	1,759.81	20,522.82
General Jo...	11/24/2025			Benies Payroll #24 Nicholas	923.01	21,445.83
General Jo...	11/24/2025			Benies Payroll #24 Schambra	1,668.53	23,114.36
Total 7020-00 · Employee Benefits					23,114.36	23,114.36
7101-00 · Director's Fees						
7101-01 · Director Benefits						
General Jo...	11/06/2025			Director Benies Payroll #23 Getto (No Mtg.)		
General Jo...	11/06/2025			Director Benies Payroll #23 Gioni (10/15/25 Mtg.)	1.69	1.69
General Jo...	11/06/2025			Director Benies Payroll #23 Hales (10/15/25 Mtg.)	1.69	3.38
General Jo...	11/06/2025			Director Benies Payroll #23 Hendrix (10/15/25 Mtg.)	1.16	4.54
General Jo...	11/06/2025			Director Benies Payroll #23 Hindle (10/15/25 Mtg.)	1.16	5.70
General Jo...	11/06/2025			Director Benies Payroll #23 Johnson (10/15/25 Mtg.)	1.69	7.39
General Jo...	11/06/2025			Director Benies Payroll #23 Koerner (10/15/25 Mtg.)	1.69	9.08
General Jo...	11/06/2025			Director Benies Payroll #23 Schank (10/15/25 Mtg.)	1.69	10.77
General Jo...	11/06/2025			Director Benies Payroll #23 Schuette (10/15/25 Mtg.)	1.69	12.46
General Jo...	11/06/2025			Director Benies Payroll #23 Sterrett (10/15/25 Mtg.)	1.69	14.15
General Jo...	11/06/2025			Director Benies Payroll #23 Stodieck (10/15/25 Mtg.)	1.69	15.84
General Jo...	11/06/2025			Director Benies Payroll #23 Tolbert (10/15/25 Mtg.)	1.69	17.53
General Jo...	11/06/2025			Director Benies Payroll #23 Workman (10/15/25 Mtg.)	1.69	19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Getto (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Gioni (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Hales (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Hendrix (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Hindle (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Johnson (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Koerner (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Schank (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Schuette (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Sterrett (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Stodieck (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Tolbert (No Mtg.)		19.22
General Jo...	11/24/2025			Director Benies Payroll #24 Workman (No Mtg.)		19.22
Total 7101-01 · Director Benefits					19.22	19.22
7101-00 · Director's Fees - Other						
General Jo...	11/06/2025			Director Fee Payroll #23 Getto (No Mtg.)		
General Jo...	11/06/2025			Director Fee Payroll #23 Gioni (10/15/25 Mtg.)	116.35	116.35

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Transaction Detail by Account

November 2025

Type	Date	Num	Name	Memo	Paid Amount	Balance
General Jo...	11/06/2025			Director Fee Payroll #23 Hales (10/15/25 Mtg.)	116.35	232.70
General Jo...	11/06/2025			Director Fee Payroll #23 Hendrix (10/15/25 Mtg.)	80.00	312.70
General Jo...	11/06/2025			Director Fee Payroll #23 Hindle (10/15/25 Mtg.)	80.00	392.70
General Jo...	11/06/2025			Director Fee Payroll #23 Johnson (10/15/25 Mtg.)	116.35	509.05
General Jo...	11/06/2025			Director Fee Payroll #23 Koerner (10/15/25 Mtg.)	116.35	625.40
General Jo...	11/06/2025			Director Fee Payroll #23 Schank (10/15/25 Mtg.)	116.35	741.75
General Jo...	11/06/2025			Director Fee Payroll #23 Schuette (10/15/25 Mtg.)	116.35	858.10
General Jo...	11/06/2025			Director Fee Payroll #23 Sterrett (10/15/25 Mtg.)	116.35	974.45
General Jo...	11/06/2025			Director Fee Payroll #23 Stodieck (10/15/25 Mtg.)	116.35	1,090.80
General Jo...	11/06/2025			Director Fee Payroll #23 Tolbert (10/15/25 Mtg.)	116.35	1,207.15
General Jo...	11/06/2025			Director Fee Payroll #23 Workman (10/15/25 Mtg.)	116.35	1,323.50
General Jo...	11/06/2025			October Meals (10/15/25 Bd Mtg Meal)	-363.50	960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Getto (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Gioni (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Hales (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Hendrix (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Hindle (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Johnson (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Koerner (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Schank (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Schuette (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Sterrett (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Stodieck (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Tolbert (No Mtg.)		960.00
General Jo...	11/24/2025			Director Fee Payroll #24 Workman (No Mtg.)		960.00
Total 7101-00 - Director's Fees - Other					960.00	960.00
Total 7101-00 - Director's Fees					979.22	979.22
7103-00 - Office Supplies						
Check	11/17/2025	11630	Pacific Office Automation, INC	November - B/W Copies	53.49	53.49
Deposit	11/24/2025	1085	River Wranglers	October Copies	-83.10	-29.61
Check	11/24/2025	11635	Pacific Office Automation	November - Color Copies	79.80	50.19
General Jo...	11/26/2025			Credit for returned 2026 Franklin Planner (Debbie)	-56.06	-5.87
General Jo...	11/26/2025			2026 Franklin Planner (Debbie)	51.01	45.14
General Jo...	11/26/2025			Executive Gift Shoppe - Service pens (2)	102.00	147.14
General Jo...	11/26/2025			2026 Desk Calendar Lindsay & Thumb Drives (5)	40.09	187.23
General Jo...	11/26/2025			Office Depot - USBC Hubs (2); Paper Towels; Head...	76.32	263.55
General Jo...	11/26/2025			November Copies	-16.74	246.81
General Jo...	11/30/2025	AJE -...		Temp fix to Visa Balance	-279.60	-32.79
Total 7103-00 - Office Supplies					-32.79	-32.79
7104-00 - Postage						
Check	11/24/2025	11636	Bank of America	11/19/25 Bd Pkg Postage	126.00	126.00
Total 7104-00 - Postage					126.00	126.00
7105-00 - Rent						
Check	11/03/2025	11615	Euronev, Ltd.	November Rent	3,627.80	3,627.80
Total 7105-00 - Rent					3,627.80	3,627.80
7106-00 - Telephone/Internet						
Check	11/24/2025	11636	Bank of America	AT&T Internet - NOV	74.99	74.99
Check	11/24/2025	11636	Bank of America	Kaseya AV Monitoring - NOV	50.00	124.99
Check	11/24/2025	11636	Bank of America	NOV - Microsoft 395	75.00	199.99
Check	11/24/2025	11636	Bank of America	Network Solutions Domain Registration -10 Years	451.11	651.10
General Jo...	11/26/2025			November - ZOOM	16.99	668.09
General Jo...	11/26/2025			Vonage Phone System - November	144.34	812.43
Total 7106-00 - Telephone/Internet					812.43	812.43
7107-00 - Travel-transport/meals/lodging						
7107-01 - Car Allowance						
General Jo...	11/06/2025			Car Allowance Payroll #23 James	250.00	250.00
General Jo...	11/24/2025			Car Allowance Payroll #24 James	250.00	500.00
Total 7107-01 - Car Allowance					500.00	500.00
Total 7107-00 - Travel-transport/meals/lodging					500.00	500.00
7108-00 - Dues & Publications						
Check	11/24/2025	11636	Bank of America	Annual FMA Dues (Debbie)	125.00	125.00
Check	11/24/2025	11636	Bank of America	Annual CFM Certification (Debbie)	90.00	215.00
Check	11/24/2025	11636	Bank of America	Annual ASFPM Dues (Debbie)	180.00	395.00
Total 7108-00 - Dues & Publications					395.00	395.00
7110-00 - Conferences & Education						

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Transaction Detail by Account

November 2025

Type	Date	Num	Name	Memo	Paid Amount	Balance
Deposit	11/06/2025	1978	NAWM	Reimbursement of expenses for 9/16/25 NAWM Wo...	-500.00	-500.00
Total 7110-00 · Conferences & Education					-500.00	-500.00
7111-00 · Office Equipment						
Check	11/17/2025	11630	Pacific Office Automation, INC	November - Konica Minolta BizHub C450i Lease Pa...	178.27	178.27
Total 7111-00 · Office Equipment					178.27	178.27
7112-00 · Bank Charges						
General Jo...	11/17/2025			US Bank Portal Fee & Wire Fees - November	69.95	69.95
Total 7112-00 · Bank Charges					69.95	69.95
7114-00 · Outside Professional Services						
Check	11/12/2025	11621	Braulio Fernandez	Website Maintenance & Backup Services - October	70.00	70.00
Total 7114-00 · Outside Professional Services					70.00	70.00
7116-00 · Legal						
Check	11/12/2025	11619	Steven D. King	Professional Services October 2025	2,500.00	2,500.00
Total 7116-00 · Legal					2,500.00	2,500.00
7117-00 · Lost Lakes Expenses						
Check	11/24/2025	11634	CA Dept.of Tax & Fee Administration	Water Rights #094-018862	354.54	354.54
Check	11/24/2025	11634	CA Dept.of Tax & Fee Administration	Water Rights #094-000939	369.34	723.88
Total 7117-00 · Lost Lakes Expenses					723.88	723.88
7121-05 · NDEP 319 QAPP (reimb) 25-26						
General Jo...	11/26/2025			November Copies	6.24	6.24
Total 7121-05 · NDEP 319 QAPP (reimb) 25-26					6.24	6.24
7121-06 · NDEP Regen Ag						
Check	11/12/2025	11620	Nevada News Group	11/1/25 Ad: RFQ Regen Ag NDEP Grant	64.06	64.06
General Jo...	11/26/2025			November Copies	5.88	69.94
Total 7121-06 · NDEP Regen Ag					69.94	69.94
7126-01 · NDEM 30-Year Drought Plan						
Check	11/24/2025	11633	Lumos & Assoc., Inc.	30-Year Regional Drought Plan (10/1/25-10/31/25)	5,052.00	5,052.00
Total 7126-01 · NDEM 30-Year Drought Plan					5,052.00	5,052.00
7126-02 · NDEM-North Dayton BAC Study						
Check	11/12/2025	11622	Lumos & Assoc., Inc.	N. Dayton BAC (10/1/25-10/31/25)	25,036.00	25,036.00
Total 7126-02 · NDEM-North Dayton BAC Study					25,036.00	25,036.00
7127-00 · State Parks Aquatic Trail						
Check	11/17/2025	11629	Resource Concepts, Inc	Mexican Dam Portage Services thru 10/31/2025	155.00	155.00
Total 7127-00 · State Parks Aquatic Trail					155.00	155.00
7337-63 · DVCD Pradere/Ricci 25-26						
Check	11/26/2025	11638	Dayton Valley Conservation District	Invoice #2 (10/1/25-12/31/25)	86,728.02	86,728.02
Total 7337-63 · DVCD Pradere/Ricci 25-26					86,728.02	86,728.02
7337-70 · CVCD-Carson River Repairs 24-26						
Check	11/12/2025	11627	Carson Valley Conservation District	#2024-4 Inv#5B (7/1/25-9/30/25)	13,374.42	13,374.42
Check	11/26/2025	11637	Carson Valley Conservation District	#2024-4 Inv#6A (10/1/25-12/31/25)	33,391.37	46,765.79
Total 7337-70 · CVCD-Carson River Repairs 24-26					46,765.79	46,765.79
7337-72 · CVCD Administration 25-26						
Check	11/12/2025	11627	Carson Valley Conservation District	#2025-11 Inv#1 (7/1/25-9/30/25)	8,110.80	8,110.80
Total 7337-72 · CVCD Administration 25-26					8,110.80	8,110.80
7443-00 · FEMA - COMS 2						
7443-02 · South SS ADMP- Wood Rodgers						
Check	11/17/2025	11631	Wood Rodgers	Professional Services thru 10/31/2025	59,360.50	59,360.50
Total 7443-02 · South SS ADMP- Wood Rodgers					59,360.50	59,360.50
7443-03 · FAW - RW						
Check	11/06/2025	11617	Entravision Communications	FAW PSA Ads 11/9/25 - 11/15/25	1,500.00	1,500.00
Total 7443-03 · FAW - RW					1,500.00	1,500.00
7443-04 · Sawmill & Pinenut Study - KH						

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Transaction Detail by Account

November 2025

Type	Date	Num	Name	Memo	Paid Amount	Balance
Check	11/17/2025	11628	Kimley-Horn & Associates, Inc.	Sawmill & Pinenut Study -Svcs thru 10/31/2025	19,975.00	19,975.00
Total 7443-04 · Sawmill & Pinenut Study - KH					19,975.00	19,975.00
7443-00 · FEMA - COMS 2 - Other						
General Jo...	11/26/2025			November Copies	4.62	4.62
Total 7443-00 · FEMA - COMS 2 - Other					4.62	4.62
Total 7443-00 · FEMA - COMS 2					80,840.12	80,840.12
7500-00 · USGS Monitoring Contracts						
7500-6 · USGS Stream Flow Gages 25-28						
Check	11/26/2025	ACH	U.S. Geological Survey	Qtrly Pymt JFA#25ZJJFA00134 (7/1/2025-9/30/2025)	24,463.00	24,463.00
Total 7500-6 · USGS Stream Flow Gages 25-28					24,463.00	24,463.00
Total 7500-00 · USGS Monitoring Contracts					24,463.00	24,463.00
7700-00 · PROJECTS PAID BY LGIP FUNDS						
7630-14 · Flood Hazard Web Viewer 25-28						
Check	11/12/2025	11623	Michael Baker International, Inc.	Flood Hazard Web Viewer Services thru October 31,...	11,082.08	11,082.08
Total 7630-14 · Flood Hazard Web Viewer 25-28					11,082.08	11,082.08
Total 7700-00 · PROJECTS PAID BY LGIP FUNDS					11,082.08	11,082.08
8009-00 · Trans. In-Floodplain Mgmt. Fd.						
General Jo...	11/18/2025			Paid via Flood LGIP Funds (Flood Hazard Web View...	-11,082.08	-11,082.08
Total 8009-00 · Trans. In-Floodplain Mgmt. Fd.					-11,082.08	-11,082.08
TOTAL						

NOTE: No Petty Cash Transactions in November.

AGENDA ITEM #13

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #13 – For Possible Action: Authorize CWSD staff to pursue Allen Family Philanthropies Accelerating Natural Climate Solutions (NCS) Grant

DISCUSSION: CWSD staff is requesting approval to explore submitting a grant proposal to Allen Family Philanthropies. CWSD staff would determine if counties, academic and research institutions, and other CRC entities would like to submit a joint proposal. The recently released request for proposals (RFP) indicates, *“The foundation is particularly interested in U.S.-based projects consisting of diverse teams of scientists, practitioners, and key stakeholders (e.g., community members, landowners, state land managers, etc.) to co-develop, test, and deploy science and technology solutions addressing barriers to NCS implementation. A total of \$10M will be available to fund 6-7 projects (each lasting up to 3 years in duration) via this Request for Proposals (RFP).”*

Staff will be attending the December 9, 2025, informational webinar to determine if this grant is a good fit for conducting our Geomorphology/Sediment Transport/Project Prioritization and Implementation program for the Nevada portions of the Carson River Watershed. We also will determine if projects already identified through the Carson River Adaptive Stewardship Plan, Carson River Floodplain Management Plan, or local Area Drainage Master Plans would be a good fit. A letter of interest (LOI) is required by January 15, 2026. If determined to be eligible, applications are due March 10, 2026.

STAFF RECOMMENDATION: Authorize CWSD staff to research and potentially pursue applying for the Allen Family Philanthropies - Accelerating Natural Climate Solutions in the United States Grant.

AGENDA ITEM #%

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #14 – For Possible Action: Authorize CWSD staff to pursue the Nevada Department of Transportation (NDOT) “Better Utilizing Investments to Leverage Development (BUILD) Grant”

DISCUSSION: CWSD staff is requesting approval to explore submitting a grant proposal to the Nevada Department of Transportation (NDOT). First, CWSD staff would determine if counties and NDOT would like to submit a joint proposal. Like FEMA cooperative technical partner grants, CWSD staff would propose to function as grant managers. County and NDOT staff would be technical partners, providing technical and construction oversight. The grant application is due in March.

STAFF RECOMMENDATION: Authorize CWSD staff to pursue the Nevada Department of Transportation (NDOT) “Better Utilizing Investments to Leverage Development (BUILD) Grant.

AGENDA ITEM #**15**

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #15 – For Possible Action: Select the 2026 Andy Aldax Award Recipient(s)

DISCUSSION: The Andy Aldax Carson River Watershed Award was created in 2007 to honor Andy Aldax, a CWSD Director from CWSD's inception in 1959 until 2012. The award recognizes individuals and organizations for significant contributions in promoting and achieving the Carson River Watershed Vision Statement.

The criteria for consideration of this award is that the nominee:

1. has demonstrated a commitment to Carson River Watershed conservation activities for 10 years or more; and,
2. has produced accomplishments toward the goals outlined in the Carson River Watershed Vision Statement; and
3. can be an organization, landowner, community member, or employee of a federal, state or local entity.

Nominees for the 2026 Andy Aldax Award(s) are:

1. Terry Katzer
2. Rachel Leach
3. Fred Stodieck

Nominations for the 2026 Andy Aldax Award nominees are attached.

The Administrative Committee met on December 8, 2025, and unanimously agreed to recommend awarding the 2026 Andy Aldax Award to both Terry Katzer and Fred Stodieck. See draft meeting minutes in agenda item #9.

STAFF RECOMMENDATION: Select Terry Katzer and Fred Stodieck as the 2026 Andy Aldax Award recipients.

Nominated by Lisa Schuette, CWSD Board of Directors

Terry Katzer has dedicated a large portion of his life to the Carson River and its watershed, significantly contributing to the scientific understanding of this vital resource. With a B.S. in Geology from the Mackay School of Mines at the University of Nevada, Reno, and further graduate studies in hydrogeology, Katzer's work has been instrumental in various water resource projects. His career at the U.S. Geological Survey included ground-water hydraulics and water-resource evaluations of select valleys in Nevada. From 1981-1985 he served as State Office Chief.

Katzer's role as the Assistant Federal Watermaster for the Truckee-Carson River System (1964-1966) and Secretary-Manager for the Carson Water Sub-Conservancy District (1962-1964) showcased his dedication.

His numerous publications, including detailed studies and maps of the Carson River underscore his significant contributions to the scientific understanding of the Carson River and its watershed. Katzer's lifelong commitment to the Carson River has left an enduring impact on the region's water resource management and scientific knowledge.

Publications related to the Carson River:

- Katzer, T. L., 1980, **General ground-water map of the Carson City Quadrangle, Nevada:** Nevada Bureau of Mines and Geology, Environmental Series 7 1/2° Quadrangle Map 1AF.
- Katzer, Terry, 1986, **Ground-water hydrology, Carson City Quadrangle, Nevada:** Nevada Bureau of Mines and Geology Open-File Report 86-7 (supplements NBMG map 1AF), 7 p.
- Glancy, P. A., and Katzer, T. L., 1975, **Probable effects of the Leviathan Creek Basin landslide, Alpine County, California:** U.S. Geological Survey Open-File Report 75-75, 3 p.
- Katzer, Terry, and Bennett, J. P., 1983, **Sediment transport model for the East Fork of the Carson River, Carson Valley, Nevada:** University of Kentucky, Lexington, Kentucky, International Symposium; Urban Hydrology, Hydraulics and Sediment Control, Proceedings of Symposium, p. 421.
- Katzer, Terry, and Schroer, C. V., 1986, **Flood and related debris flow hazards along principal drainages, Carson City Quadrangle, Nevada:** Nevada Bureau of Mines and Geology Open File Report 86-8, 13 p. (Supplements NBMG Map 1A1)
- Glancy, P. A., and Katzer, T. L., 1975, **Water-resources appraisal of the Carson River Basin, western Nevada:** Nevada Division of Water Resources Reconnaissance Report 59, 126 p.
- Katzer, T. L., 1971, **Reconnaissance bathymetric map and general hydrology of Lahontan Reservoir, Nevada:** Nevada Division of Water Resources Information Report 9.

November 18, 2025

Phyllis Atkinson
Board Member, River Wranglers
(775) 846-4240

Dear Selection Committee,

It is with great enthusiasm that I recommend Rachel Leach for the Andy Aldax Award for 2025. Rachel exemplifies the spirit of dedication, leadership, and service that this award was created to honor. Her commitment to the stewardship of our natural resources, her collaborative leadership and her unwavering devotion to her community make her an outstanding candidate for this recognition.

Through her years of involvement with River Wranglers, Rachel has demonstrated exceptional initiative and professionalism. As our groups co-president for the last four years, she has demonstrated unwavering commitment despite her very busy career as a full-time teacher in the Lyon County School District for the past 27 years. She approaches her leadership role with River Wranglers with thoughtfulness and integrity. We, as board members, find her willing to listen to our concerns, and approach situations with an open mind. She brings energy and vision during our meetings.

Within her own school Rachel works to provide youth-oriented watershed education. She has involved her students in Snapshot Day, and other water quality assessments, and stream-walk assessments in the Fort Churchill area. But, Rachel doesn't stop with her school. As the organizer of the Fall Festival for many years in the Silver Springs and Stagecoach areas, she has made sure to promote and include educational outreach by River Wranglers to spread the importance of watershed conservation. She lives the vision of RW by "empowering youth through outdoor watershed education."

Along with watershed education Rachel has also embraced sustainability with Project G.R.E.E.N (Gardening, Recycling, Education and Encouraging Neighbors). She leads this award-winning partnership between the Lyon County School District and teachers that supports school gardens as outdoor STEM labs. Gradually, the program has expanded to include composting and waste reduction from the school cafeteria. Here, she again involves and excites students about their world and how to care for it. Working alongside her students provides a strong sense of purpose in their young lives.

Beyond her professional contributions, Rachel is known for her kindness, humility, and generosity. She leads not for recognition, but because she truly wants to make a difference in how we approach and care for the natural world. Her dedication and example continue to inspire her students as well as adults to give their best.

I wholeheartedly support Rachel Leach for Andy Aldax Award. She embodies the principles of leadership, conservation, and community service that define this honor, and she would be a most deserving recipient.

Sincerely,

Phyllis Atkinson

October 23, 2025

To Whom It May Concern:

It is our pleasure to nominate Fred Stodieck to be the recipient of the 2026 CWSD Andy Aldax Award for Exemplary Service in Conservation and Protection of the Carson River Watershed.

Fred Stodieck has served 31 Years as an agricultural representative on the CWSD Board of Directors, appointed by Douglas County. He has served 17 years on the Douglas County Water Conveyance Advisory Committee and is a past President of the Nevada Farm Bureau. Fred is also a proud Veteran who served Army National Guard.

Fred is a lifelong farmer from Carson Valley who operates Stodieck Farm on the East Fork of the Carson River with the help of his wife, daughters, and grandsons. Stodieck Farm has been in his family since his great-grandfather bought it in 1868 for \$2,600 in gold coins. Mentored by his father, Cecil (who was also Federal Water Master for the Carson River), and uncles, Elven and William, Fred learned animal husbandry, equipment management, ditch maintenance, water law, and many other ranching skills. Fred has also worked as a road surveyor and in construction, and all these practical skills have helped him remain successful in growing alfalfa and the difficult task of cattle ranching.

Fred's lifetime of experience in the Carson Valley and his knowledge of all areas of concern in the Carson River Watershed has been a historical treasure to the Carson Water Subconservancy District Board of Directors. He exemplifies the spirit of Andy Aldax and is richly deserving of this honor.

Ernest C. Schank
Doug Johnson
Stacey Giomi

AGENDA ITEM #**16**

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #16 –For Discussion Only: Presentation on the South Silver Springs Area Drainage Master Plan (ADMP)

DISCUSSION: A representative from Wood Rogers will give a presentation on the South Silver Springs Area Drainage Master Plan (ADMP).

STAFF RECOMMENDATION: Receive and file.

AGENDA ITEM #**17**

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #17 –For Possible Action: Approval of the 30-Year Regional Drought & Water Sustainability Plan

DISCUSSION: For the past three years, CWSD has been working with the USGS and Lumos and Associates (Lumos) to develop a 30-Year Regional Drought and Water Sustainability Plan. Due to the federal shutdown the USGS could not complete their modeling efforts for the Upper and Middle Carson River Watershed. In the report CWSD used the preliminary results provided by USGS. This information will be updated when the USGS completes their modeling and publishes their report.

Even without the final USGS modeling results the Lumos report does provide useful information that the various water purveyors and other water users can use for their future water planning. The report also evaluates the future groundwater needs for the major water purveyors upstream of Lahontan Reservoir over the next 30 years. The main take away of the report are:

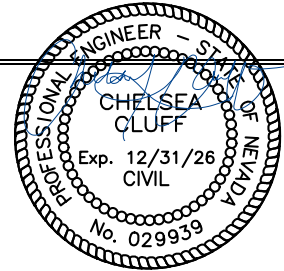
- **Carson River Flows:** Streamflow data from 1940–2021 show a slight overall decline, driven by climate variability and human influences. Variability in flows has increased, with more extreme peak events and longer drought periods. Shifts in weather patterns have also caused peak runoff to occur earlier in the year.
- **Groundwater Pumping:** Although total groundwater pumping in the Upper and Middle Carson River area has increased, its effect on flows measured at the Fort Churchill gauge remains minimal. Reduced irrigation in the Middle Carson River region, reclaimed-water recharge, and altered runoff patterns may be offsetting impacts. Municipal groundwater use in these areas is projected to increase by less than 5,000 acre-feet over the next 30 years.
- **Conjunctive Management:** Since the adoption of NRS 533.024.1(e) in 2017, the Nevada Division of Water Resources (NDWR) manages all waters of the state conjunctively. For new permits or changes to existing rights, NDWR ensures proposed uses do not conflict with any existing rights, regardless of water source. Where conflicts among existing rights are supported by data, the State Engineer may implement conjunctive management strategies to reduce or eliminate those conflicts.
- **Quill Water Treatment Plant (Quill WTP):** Upon completion of upgrades to Carson City's Quill WTP, groundwater pumping in the Eagle Valley basin will decline. This reduction will help offset anticipated increases in municipal pumping elsewhere in the Middle Carson River area.

- **Wet/Dry Years (Alpine Decree):** Carson River surface water is administered by the U.S. Federal Water Master in accordance with the Alpine Decree (1980). Through the Alpine Decree, the U.S. Federal Water Master is able to allocate surface water resources in both wet and dry years.
- **Drought:** Due to limitations in the USGS study and high climate variability, the full range of future watershed responses remains uncertain. Nonetheless, historical data suggests droughts will likely become more frequent and prolonged. Because municipal systems largely rely on groundwater, they are expected to meet projected demands over the next 30 years.
- **Regional Systems and Sustainability:** All nine water purveyors included in this study possess sufficient water rights to accommodate future growth. While each faces some water-quality considerations, no one anticipates quality constraints that would limit their ability to meet demand. While most purveyors have sufficient capacity through 2051, system upgrades – particularly to distribution networks and well capacity – may be required. This is especially true for Minden and GRGID, which are estimated to exceed their current pumping capacity by 2051. In Silver Springs and Stagecoach, perennial yield and secondary recharge are limiting factors; major developments in these areas will likely require imported water.

Staff will give presentation on the 30-Year Regional Drought and Water Sustainability Plan.

STAFF RECOMMENDATION: Approve of the 30-Year Regional Drought & Water Sustainability Plan as presented.

DATE: 12/9/2025
TO: Ed James
FROM: Chelsea Cluff, P.E.
SUBJECT: 30-Year Regional Drought and Water Sustainability Report



12/09/2025

1.0 Executive Summary: 30-Year Regional Drought and Water Sustainability Report

The **30-Year Regional Drought and Water Sustainability Report**, prepared by the Carson Water Subconservancy District (CWSD) with the United State Geological Survey (USGS) and Lumos & Associates (Lumos), addresses evolving water resource challenges in the Upper and Middle Carson River Watershed amid climate variability, population growth, and Nevada’s conjunctive water management policies. This report highlights trends of earlier snowmelt, declining streamflows, and increased reliance on groundwater through 2051. While most municipal purveyors have adequate capacity, water quality, and water rights, Minden and Gardnerville Ranchos GID will face deficits requiring new wells or treatment upgrades, and growth in Silver Springs and Stagecoach areas is constrained by perennial yield and infrastructure limits. Recommendations include integrating conjunctive management into Water Master Plans, implementing mitigation strategies such as reclaimed water recharge and interties, and planning regional infrastructure upgrades to ensure sustainable water supply under drought risk and regulatory changes.

1.1 Background

In 2023, CWSD received a grant from the Nevada Division of Emergency Management (NDEM) to develop a Carson River Watershed Regional Drought and Water Sustainability Plan. CWSD contracted with the USGS to update the Upper and Middle Carson River models in order to evaluate the impact groundwater pumping may have on surface flows. CWSD hired Lumos to support USGS data collection and analysis efforts for nine (9) water purveyors within the Upper and Middle Carson River Watershed. An overall map of the Carson River Watershed, with the Upper, Middle, and Lower sections delineated as they pertain to the analysis done in this report, is shown in Figure 1. Recent analyses (discussed in depth in Section 3.0) reveal trends within the Carson River watershed of earlier snowmelt and declining streamflow, creating uncertainty for water users. Nevada’s adoption of conjunctive management (NRS 533.024) requires integrated planning for surface and groundwater resources, prompting CWSD to reassess traditional water management strategies in an effort to support water purveyors within the Carson River watershed.

1.2 Purpose and Goals

This document serves as an interim resource bridge, which incorporates preliminary USGS model results and research findings, to inform municipal water users and assist in their master planning efforts. Municipal water use is the focus of this report; however, its effect on agriculture as well as other groundwater pumping trends in the Carson River Watershed are mentioned. This report translates the preliminary modeling insights into high-level actionable information for purveyors to consider when planning for potential impacts to groundwater pumping on streamflows. This document is not intended to be a stand-alone water master plan; it is a reference guide to aid community specific water master plans to:

- Support informed decision-making regarding their groundwater pumping;
- Mitigate potential impacts to surface water flows; and
- Mitigate risk for future water resource challenges

The goal is to improve water availability and reliability while minimizing conflicts and preventing long-term harm to these critical resources.

1.3 Changing Conditions in the Carson River Watershed

Recent runoff analyses show that, despite a significant increase in groundwater pumping over the past 40 years, the overall volume of water flowing at the Fort Churchill gage has remained relatively stable. This consistency is likely attributable to both earlier snowmelt-driven runoff and reduced irrigation use in Carson City and Lyon County within the Carson River Watershed. Additional details and citations are provided in Section 3.1.

The Watershed has recently experienced warmer temperatures and changes in precipitation frequency and magnitude, leading to earlier runoff and decreased surface flows (Desert Research Institute, 2011). With little upstream storage available, both municipalities and agricultural users are facing water resource impacts. The 2021 *Water Marketing Report* documented significant shifts in annual streamflow patterns (Lumos & Associates, 2021). Changing flow conditions in the Carson River underscore challenges for downstream users (see Section 3.1.2). As the region continues to grow, concerns are mounting over the ability to meet future water demands while not impacting downstream water users, especially during extended drought periods.

Notable changes include:

- More pronounced fluctuations between high and low flows
- A reduction in overall average streamflow
- A shift in the timing of peak flows, now occurring earlier in the year (see Section 3.1)

1.4 Conjunctive Management and the Need for Integrated Planning

Like much of the western United States, the Nevada Division of Water Resources (NDWR) is working to address the challenges related to the interaction of surface water and groundwater throughout the state. During 2017 legislative session, NDWR was authorized in NRS 533.024 (e) (The State of Nevada, 2017) to conjunctively manage the appropriation, use and administration of all waters of this State, regardless of the source of the water. Since this authorization, the Nevada State Engineer has begun exploring how to manage hydrologically connected water sources in Nevada, including the Carson River Watershed.

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Surface water within the Carson River Watershed is governed by Nevada water law, federal Alpine Decree, and the Operating Criteria and Procedures for the Newlands Project (OCAP). The Federal Water Master is appointed to administer federal decrees. The Alpine Decree, adjudicated by the federal court in 1980, was based on historical flow conditions and water diversion patterns. A federally appointed Water Master is responsible for allocating water according to the Decree, based on annual runoff conditions.

As streamflow conditions continue to evolve, there is increasing focus on the integrated management of surface and groundwater resources. The State of Nevada has recently begun implementing conjunctive management, particularly in the Humboldt Basin within the Great Basin Watershed (NDWR, n.d.). However, the Nevada Division of Water Resources (NDWR) is still evaluating the full impacts of this approach.

NDWR is currently implementing conjunctive management strategy in the Carson River system for all new water right applications. At present, all water purveyors within the Carson River Watershed recognize the need to incorporate conjunctive-management principles into their water operations. Some municipalities, such as Carson City Water Utility are using them, but these concepts are not currently included in their Water Master Plans.

1.5 Study Timeline and Process

Data collection for the 30-Year Regional Drought and Water Sustainability Report began in May 2023. Lumos and CWSD met with nine (9) purveyors within the Carson River watershed upstream of the Lahontan Reservoir. Each meeting consisted of a discussion on the project scope and a request for current and future well capacities, locations, water quality, and water rights. The nine (9) purveyors included in the study are:

- Gardnerville Ranchos General Improvement District (GRGID)
- Gardnerville Water Company (GWC)
- Town of Minden
- Douglas County
- Indian Hills General Improvement District (IHGID)
- Carson City Water Utility
- Lyon County Utility
- Stagecoach General Improvement District (Stagecoach GID)
- Silver Springs Mutual Water Company (SSMWC)

This report focuses on the Upper and Middle Carson River, so water purveyors in Alpine County, Storey County, Churchill County, and the City of Fallon were not included in the analysis. Additionally, NDWR will study areas downstream of Lahontan Reservoir under the Nevada Water Initiative. This future effort will evaluate water sustainability in the Carson Desert Groundwater Basin. Alpine County was excluded from this analysis since the Markleeville Water Company has such a limited user base and demand. Storey County was excluded since its water is supplied from the Marlette Lake Water System, which falls outside the Carson River Watershed.

Following the initial meetings, each purveyor submitted data to Lumos, including:

- Total well pumpage (by well) from 2018 to 2022 (for SSMWC ten years of pumping data was used)
- Water meter usage by customer type (where available) from 2018 to 2022

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- Water rights documentation
- Water quality data from 2018 to 2022

The data was analyzed to determine current production and 5-year well production averages for each purveyor. Based on this analysis, draft reports were developed for each of the nine purveyors.

To project future water demand over a 30-year period (2021–2051) in the draft reports, water purveyor-supplied annually compounded population growth rates were used when available. Where system-specific growth rates were not available, annually compounded population growth estimates from the Nevada State Demographer were used (see Section 2.0 for a breakdown of growth rates used per purveyor). These projections were then compared against current usage, supply, and held water rights to assess the long-term viability of each purveyor's water sources.

Draft reports were distributed to CWSD and the respective purveyors in November 2023 for review, which allowed purveyors to provide feedback on local issues and fine tune anticipated growth assumptions. In early 2024, follow-up meetings were held with each purveyor and CWSD to discuss the reports and identify key data trends.

Finalized reports, including 30-year demand projections, were delivered to the USGS in May 2024. As USGS developed a groundwater model, Lumos and CWSD collaborated to refine well locations and confirm well permit numbers. The USGS groundwater model was divided into two segments:

- Upper Carson Model: Includes purveyors upstream of Carson City. Also denoted as "Carson Valley" in preliminary model results from USGS.
- Middle Carson Model: Includes purveyors from Carson City to Silver Springs

The USGS shared initial modeling results for the Upper Carson Model with water purveyors on August 18, 2025, and preliminary results for the Middle Carson Model were provided to CWSD on October 1, 2025. USGS was preparing a technical report summarizing the final modeling outcomes, but the federal government shutdown prevented USGS from delivering the final model results and technical report.

The USGS will continue refining the model and preparing a final report. This information will be incorporated into the capture model funded by Churchill County and other local entities. The USGS estimates that the capture model will be completed in 2028. This document will interpret and present the preliminary findings received by the USGS as of October 1, 2025. Further details regarding the groundwater model and its results are provided in Section 3.4. A draft of the 30-Year Drought Plan (30-Year Plan) was distributed to all nine (9) purveyors along with other entities such as the Federal Water Master, and Nevada Bureau of Recreation for review on October 21, 2025. Following the completion of the review process, the final 30-Year Plan and Water Sustainability Report will be presented to the CWSD Board, along with the relevant counties and water purveyors within the Carson River Watershed. The final report must be submitted to the Nevada Department of Emergency Management by the end of January 2026 to satisfy grant funding requirements. Figure 2 illustrates the project timeline to create the 30-Year Plan shown below.

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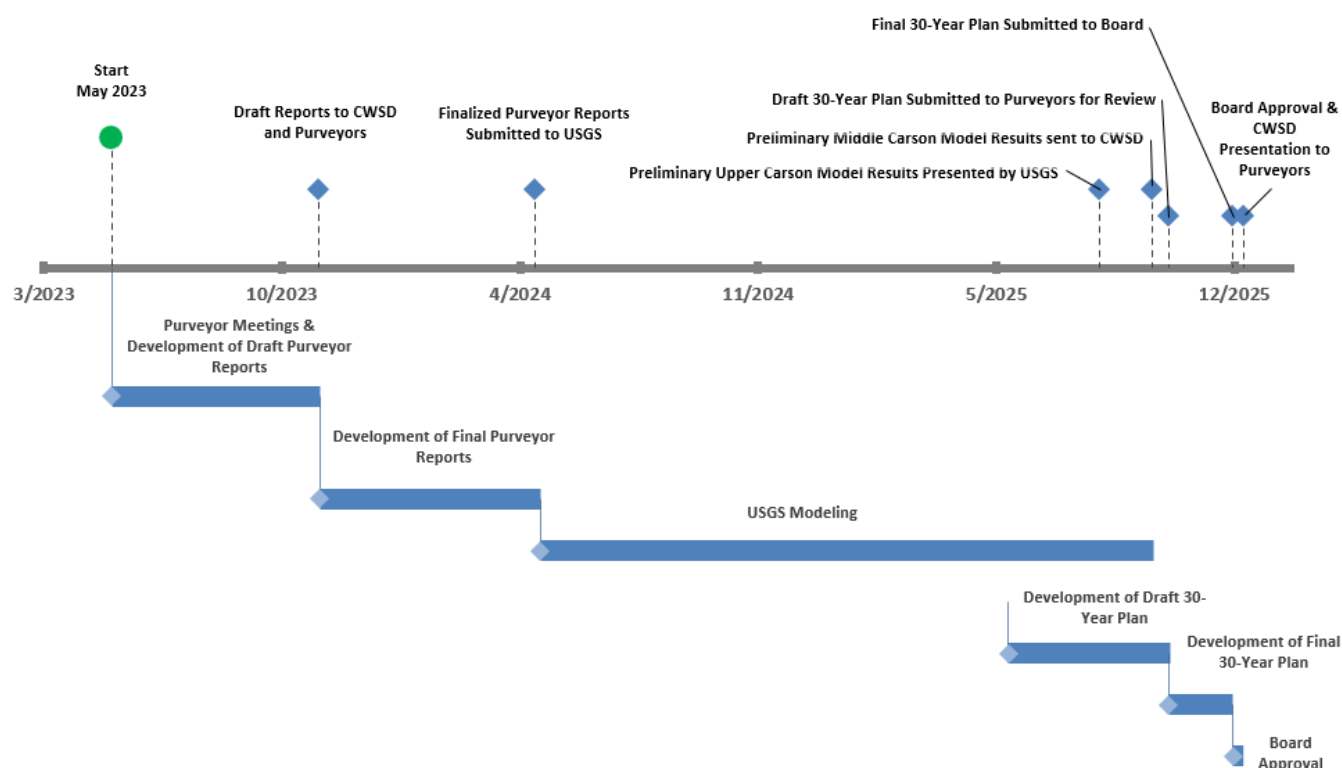


Figure 2: Overall Project Timeline for 30-Year Plan

2.0 Summary of Initial Reports

The initial reports compiled by Lumos provided each water purveyor with a high-level technical memorandum assessing long-term water resource sustainability. These reports analyzed 30-year projections of municipal growth, groundwater pumping data, water quality, and available water rights. Annually compounded growth rates were derived from purveyor-provided future connection counts, master plans, or Nevada State Demographer estimates. Findings indicate that while most purveyors have sufficient capacity through 2051, Minden and Gardnerville Ranchos GID will face deficits requiring new wells or treatment upgrades. Silver Springs and Stagecoach can meet projected demand but are constrained by perennial yield limits and domestic well impacts. Additional challenges for these two purveyors include infrastructure limitations, such as arsenic treatment capacity at SSMWC. Overall, the reports highlight potential shortfalls and emphasize the need for regional coordination and strategic planning to ensure sustainable water supply.

Annually compounded growth rate assumptions used for each purveyor, with the source of each purveyor-approved growth rate, are summarized below:

- GRGID: 0.54% (Douglas County estimates)
- GWC: 0.54% (Douglas County estimates)
- Town of Minden: 0.54% (Douglas County estimates)

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- Douglas County
 - North County, East Valley, West Valley, Clear Creek, and Montana areas: 0.54% (Douglas County estimates)
 - Sierra County Estates: 0.3% (purveyor-provided)
 - Foothill: 0.6% (purveyor-provided)
 - Fairgrounds: 0% (purveyor-provided)
- IHGID: Varies from 0.8% to 0.0% by 2038 (State Demographer / Douglas County estimates)
- Carson City Water Utility: Varies from 0.7% (starting in 2025) to 0.1% by 2040 (State Demographer)
- Lyon County Utility: 0.8% (Nevada State Demographer)
- Stagecoach GID: 0.43%, based on 186 projected connections distributed evenly through 2051 (purveyor-provided)
- SSMWC: 0.43%, based on 154 projected connections distributed evenly through 2051 (purveyor-provided)

Table 1 summarizes the projected 2051 water demands based on the growth rates and compares these demands to current water supply (provided by municipal wells). Well capacity was determined using an assumption of 16-hour pumping period. Lyon County requested a 21.6-hour pumping period be used to more accurately portray their municipal operation. The results of the analysis reveal the following:

- Minden and GRGID are projected to exceed their current pumping capacities and will require additional wells by 2051 to meet their future needs.
 - For Minden, this shortfall includes water exported via the intertie to meet future growth in North Douglas County and IHGID. Carson City's intertie demand will not increase in the future since it is already utilizing most of its available capacity.
 - If Wells 5 and 8 were brought back online, GRGID could meet future demand, but they are offline due to arsenic contamination. To bring them online, arsenic would need to be treated. Developing new well sites would be the other option. As of the publishing date of this report, GRGID is in the process of exploring both of these opportunities.
- GWC, Carson City, and Lyon County are well-positioned to meet projected demand through 2051.
- Douglas County's four hydraulically disconnected systems (Fairgrounds, Foothills, Sierra County Estates, and North County) and IHGID have enough pumping capacity through 2051 under current growth assumptions. However, Douglas County may need to secure additional resources beyond the 30-year planning horizon, as their projected surplus is between 0.10 and 1 MGD. IHGID is hindered geographically for future growth, therefore additional water resources may not be necessary to secure outside the planning horizon.
- SSMWC and Stagecoach GID are projected to have adequate well capacity and water rights to support growth through 2051. However, their growth is limited by the perennial yield of their respective basins, as detailed in Section 2.1.1.

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Table 1: Projected 30-Year Growth and Average Water Needs per Purveyor

Purveyor	Maximum Available Water (MG/day)	Projected Average 2051 Demand (MG/day)	Deficit / Surplus (MG/day)
GRGID ¹	4.41	6.24	-1.84
GWC	6.62	2.59	4.03
Minden ²	13.70	16.40	-2.80
Douglas County – North County, East Valley, West Valley, Clear Creek, and Montana ³	3.98	3.88	0.10
Douglas County – Sierra County Estates	0.43	0.16	0.27
Douglas County - Foothills	0.32	0.32	0.00
Douglas County – Fairgrounds ⁴	0.19	0.08	0.11
IHGID	2.30	1.89	0.41
Carson City	20.26	17.29	2.97
Lyon County	13.98	5.36	8.61
Stagecoach	1.01	0.61	0.40
Silver Springs ⁵	1.01	0.95	0.06

Notes:
[1] Flows do not include Wells #5 and #8.
[2] Combined values for Town of Minden and Regional Intertie flows.
[3] Flows do not include North County Well #1.
[4] Flows do not include Fairgrounds Well #1.
[5] Typically only two (wells) are in operation at one time due to limitations regarding the arsenic treatment plant, providing a maximum of 1,750 gpm (1.01 MGD)

Key

	Additional Surplus for Future Growth (greater than 2 MG/day of production surplus)
	Enough Surplus for Future Growth (between 0 and 1 MG/day of production surplus)
	Deficit (negative production surplus)

It is important to note that all growth projections are based on the best available data at the time of this report and are subject to change due to unforeseen events, unknown industrial or large-scale developments, or economic shifts. While actual future growth may deviate from these projections, this analysis is intended to serve as a high-level estimate for purveyors and to highlight potential future water resource shortfalls in order to support long-term infrastructure and supply planning.

Water rights and well water quality were analyzed in the purveyor specific reports provided by Lumos & Associates. Eight (8) of the nine (9) purveyors provided water quality data to Lumos, of which all eight (8) had limited water quality concerns. Purveyors such as GRGID, Douglas County, Minden and Carson City proactively monitor wells by performing spot samples of specific contaminant levels of concern. All nine (9) of the purveyors had adequate water rights to match projected growth. For specific discussion around water quality and water rights for each purveyor, please refer to individual purveyor memos (shown as 2023 Lumos memos in References).

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2.1 Water Supply Limitations Impacting Growth in Silver Springs and Stagecoach

Growth in the Silver Springs and Stagecoach areas is limited by the availability of groundwater, which is constrained by the perennial yield of the local aquifers, nearby domestic well use, and groundwater treatment limitations (SSMWC only). Silver Springs and Stagecoach may not be subject to conjunctive management due to their sole reliance on groundwater and distance of their wells from the Carson River. However, these two entities are going to be more affected by perennial yield than conjunctive management.

2.1.1 Perennial Yield Constraints

Perennial yield refers to the maximum amount of groundwater that can be sustainably extracted from a basin on an annual basis without causing long-term depletion.

- In the Churchill Valley Basin, which serves the Silver Springs area, the estimated perennial yield is 1,600 acre-feet annually (AFA) (Nevada Division of Water).
- In the Stagecoach area, subbasin of Dayton Valley Basin, the estimated perennial yield is 800 AFA (Nevada Division of Water).

Perennial yield estimates are found in the NDWR groundwater pumping reports. Perennial yield calculations do not include potential groundwater recharge from other sources such as septic systems or irrigation return flows.

2.1.2 Impact of Domestic Wells

In the Churchill Valley Groundwater basin and Stagecoach subbasin of Dayton Valley Groundwater basin, domestic wells have the potential to be a combined larger user compared to the local water purveyors. While domestic wells do not directly affect the production capacity of the SSMWC or the Stagecoach GID, they draw from the same groundwater basins, contributing to the overall demand on limited water resources.

- There are approximately 1,788 domestic wells;
 - 1,348 in Silver Springs
 - 440 in Stagecoach

Since domestic wells are not metered, the NDWR assumes 1 AFA per well in the groundwater pumping reports. The National Environmental Education Foundation (NEEF) claims the average Nevada residents use is 134 gallons per day (gpd), or 0.15 AFA, (National Environmental Education Foundation, 2021) in and around their home. As a conservative median, CWSD estimates the water use in Silver Springs area is between 0.3 to 0.6 AFA/well. To simplify the Middle Carson Model, the USGS is assuming 0.5 AFA/well in their modeling efforts.

2.1.3 Infrastructure and Treatment Limitations

For SSMWC, future growth is further constrained by the capacity of its arsenic treatment facility, constructed in 2010. Naturally occurring arsenic concentrations are high in local groundwater, so all of SSMWC's extracted water must be treated.

- The arsenic treatment facility is currently limited to a maximum flow rate of 1,750 gallons per minute (gpm), or 1.01 million gallons per day (MGD).
- While additional wells are available, the arsenic treatment system's capacity would need to be increased before more wells are activated.

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2.1.4 Planning for the Future

To support long-term growth in Churchill Valley communities, new infrastructure will likely be necessary and may require imported water. While the complexities of water rights and transfer mechanisms are beyond the scope of this report, the need for regional coordination is clear. For Silver Springs and Stagecoach to address these challenges and ensure sustainable development, a regional plan with a collaborative and strategic approach will be critical for both purveyors.

3.0 Data Analysis Post-Preliminary Model Results

3.1 Long-Term Runoff Trends

3.1.1 USGS Scientific Investigations Report (2023)

In 2023, the USGS completed a report assessing potential effects of changes in water use in the Middle Carson River (USGS, 2023). Included in the report was an analysis of the changes in the mean daily flows shown by the Carson River and Fort Churchill stream gauges (ft^3/s). The trendline of this data showed a decline in stream flows (see Figure 3 and Figure 4 below).

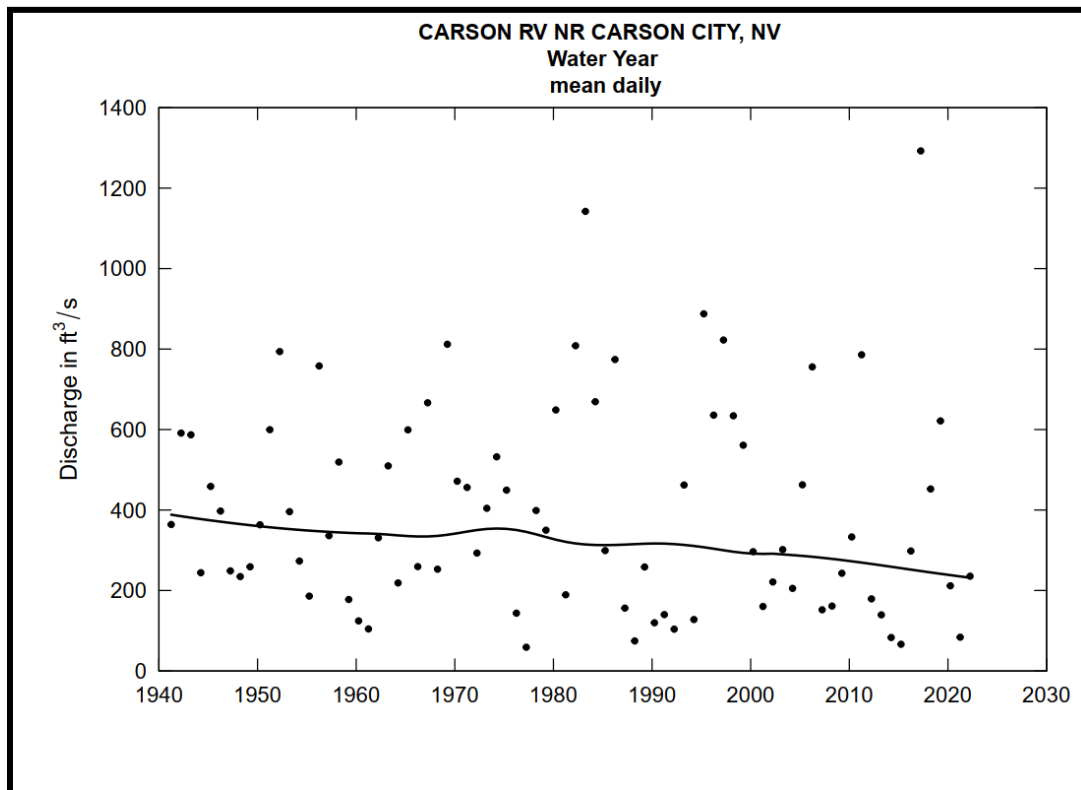


Figure 3: Carson River Stream Gauge Annual Discharge (USGS, 2023)

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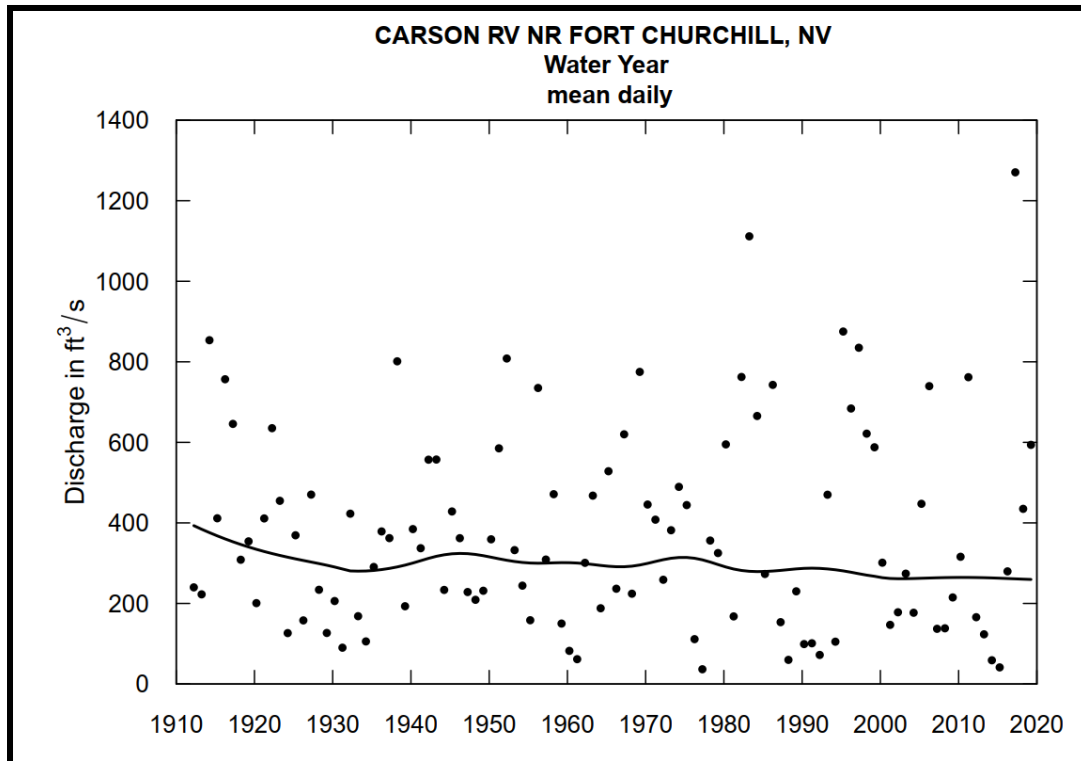


Figure 4: Carson River Fort Churchill Stream Gauge Annual Discharge (USGS, 2023)

CWSD staff conducted the same analysis for the East Fork Gardnerville Gauge and the West Fork Woodfords Gauge. This analysis showed a similar decline in stream flow (see Figure 5 and Figure 6 below).

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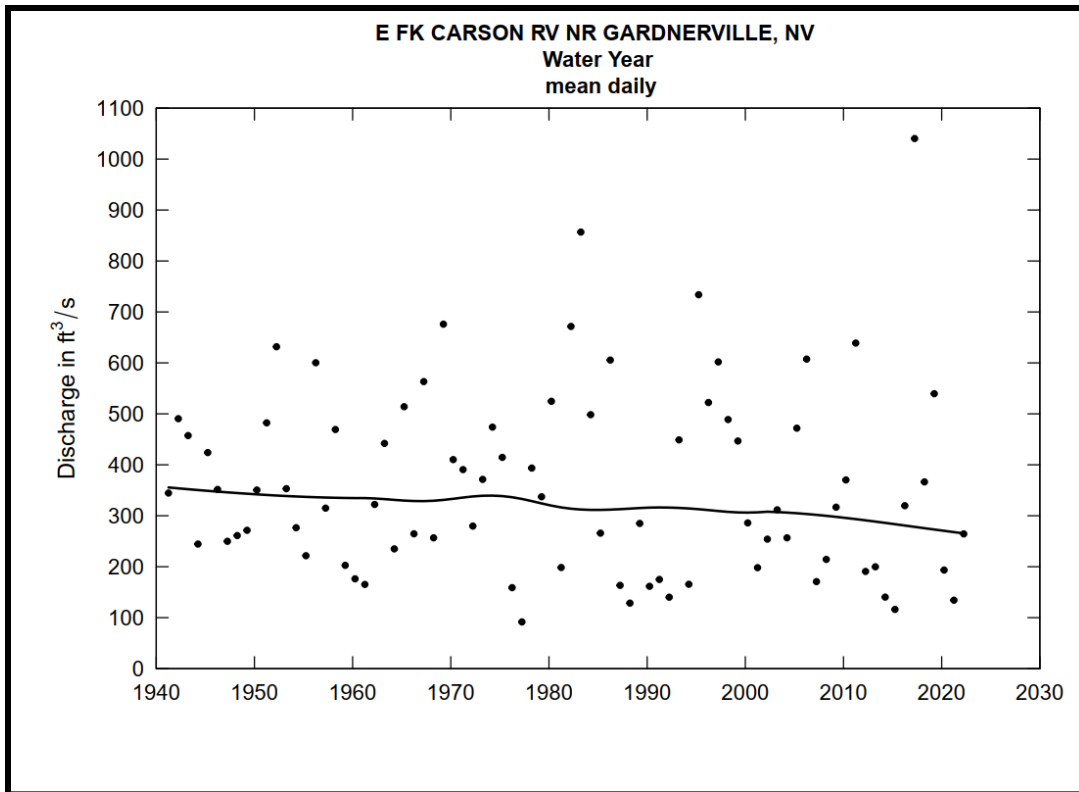


Figure 5: East Fork Carson River Stream Gauge Annual Discharge (CWSD)

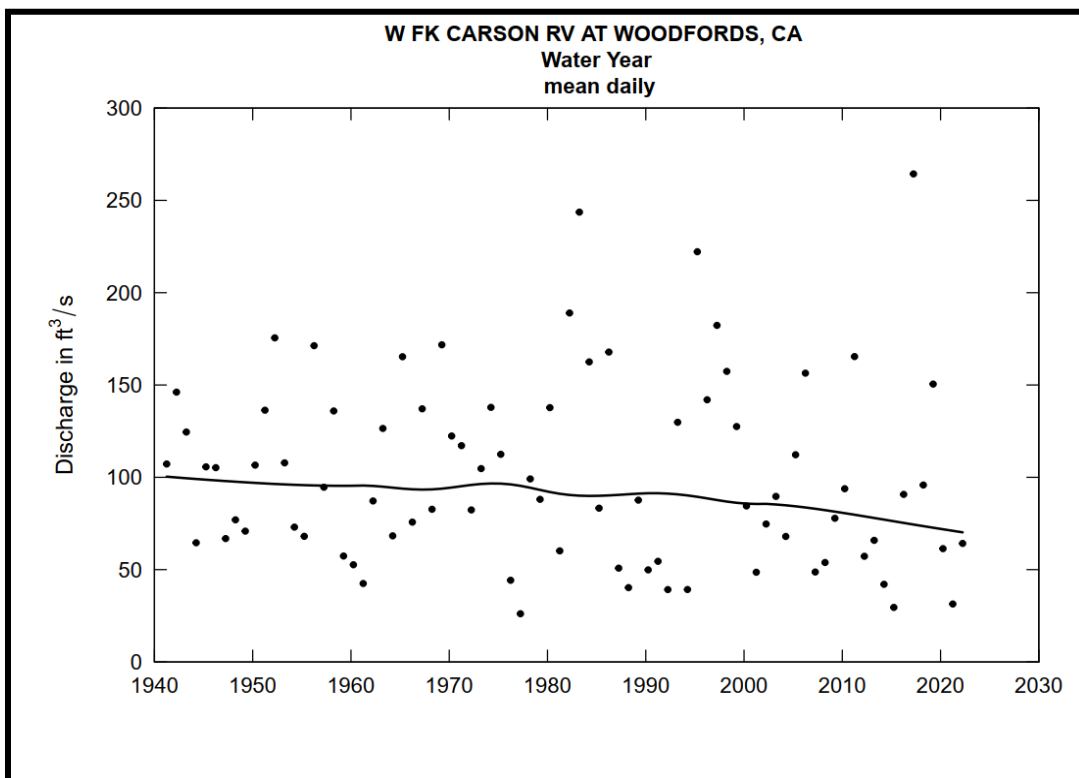


Figure 6: West Fork Carson River Stream Gauge Annual Discharge (CWSD)

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Figure 3 through Figure 6 illustrates that the decrease in stream flow to the Carson City and Fort Churchill gauges are being holistically affected along all portions of the watershed (Upper to Lower). It can be assumed that these trends are occurring due to a combination of natural stream flow changes and human impacts.

3.1.2 Lumos Water Marketing Report

Lumos & Associates produced a Water Marketing Report in 2021 for CWSD. The *2021 Water Marketing Report* serves to inform the need for the 30-Year Plan.

Historical flow data for the Carson River was separated into two (2) distinct time frames:

- 1940 to 1979 (40 years)
- 1980 to 2018 (38 years)

Flows are separated because each of the two timeframes show strongly correlated trends based on changing weather patterns. For example, the *2021 Water Marketing Report* plotted Annual Average Discharge and Peak Discharge rates per year over the 78-year timeframe, as shown in Figure 7 (Lumos & Associates, 2021). Prior to 1980 (shown by the vertical blue line in Figure 7), variations in average annual flows were much smaller in amplitude than after 1980. This information is further highlighted by Table 2, which shows that not only did the frequency of high and low flow events (defined as flows above the 90th percentile and below the 10th percentile, respectively) increase after 1980, but the magnitude of these events were seen to increase by at least 100%. For example, Table 2 lists the 90th percentile average annual flow for the Carson River Gauge near Carson City as 732 cfs. Between 1940 to 1979 average annual flows only exceeded 732 cfs three (3) times but between 1980 to 2018 average annual flows exceeded 732 cfs eight (8) times, which was more than double the frequency seen historically. Additionally, between 1940 and 1979 the highest annual average flow was approximately 800 cfs but between 1980 and 2018 the largest annual average flow increased 167% to approximately 1,300 cfs. Trends for this specific example correlate to the information provided in Figure 7.

The Water Marketing Report concluded that the measured Carson River flows have become more variable and exhibit more extreme peak flows and a higher frequency of lower flows. This has led to a decreasing trend in yearly average instream flows. The data analyzed in the *2021 Water Marketing report* is based on flows captured at the following gauges: East Fork Gardnerville Gauge, West Fork Woodfords Gauge, Carson City Gauge, and the Fort Churchill Gauge.

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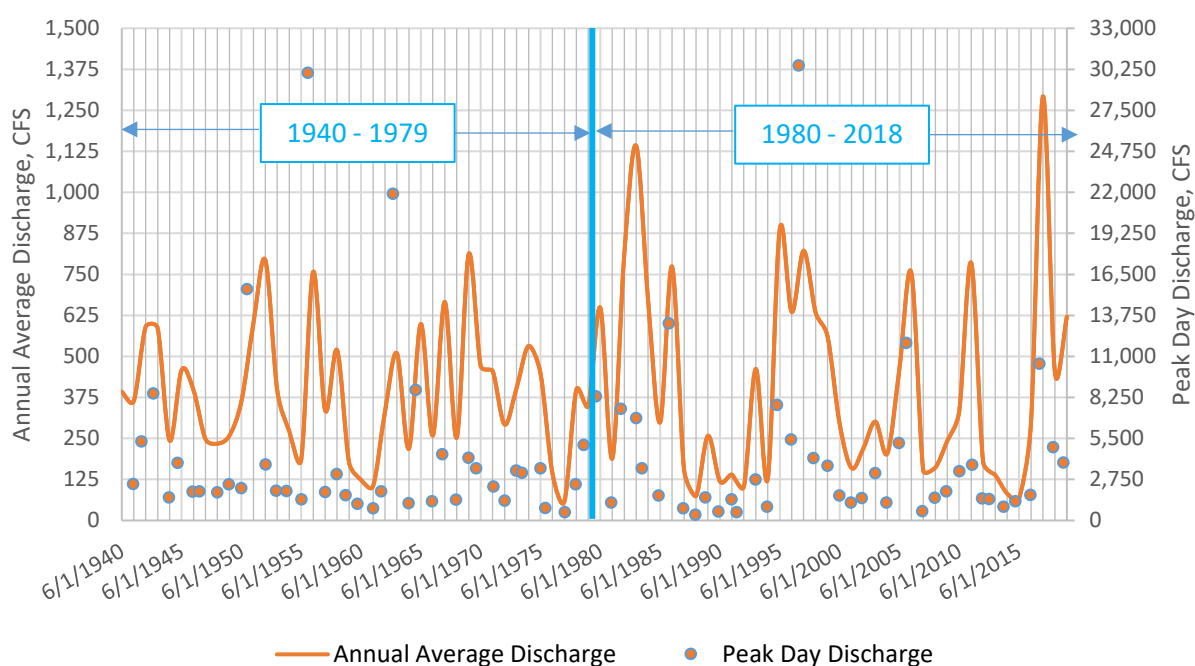


Figure 7: Carson River near Carson City Historical Data (USGS #10311000) (Lumos & Associates, 2021)

Table 2: Trends in Instream Flow (Lumos & Associates, 2021)

	Gauges			
	West Fork at Woodfords	East Fork near Gardnerville	Carson River near Carson City	Carson River near Fort Churchill
90 th Percentile Flow (CFS)	167	600	732	710
Number of Years Annual Average Flow Exceeded 90 th Percentile Flow				
1940 to 1979	3	3	3	3
1980 to 2018	6	8	8	8
% Increase in Extreme High Flow	100%	167%	167%	167%
10 th Percentile Flow (CFS)	40	135	76	50
Number of Years Annual Average Flow was Less Than 10 th Percentile Flow				
1940 to 1979	1	1	1	1
1980 to 2018	3	2	2	1
% Increase in Extreme Low Flow	200%	100%	100%	0%

Changes in annual instream flows for the Carson River were also studied in a report published by the Desert Research Institute (DRI) and CWSD (Desert Research Institute, 2011). This report used similar timeframes that were used in the *2021 Water Marketing Report* (1940-1974 and 1975-2009 versus 1940-1979 and 1980-2018, respectively) and found that both the East and West Fork gauges showed a significant increase of instream flow during March and April with a correlating decrease of instream flow in June and July, as seen in

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Figure 8a and Figure 8b, respectively. This analysis conveys that weather patterns are shifting to bring earlier runoff in the year than was experienced historically.

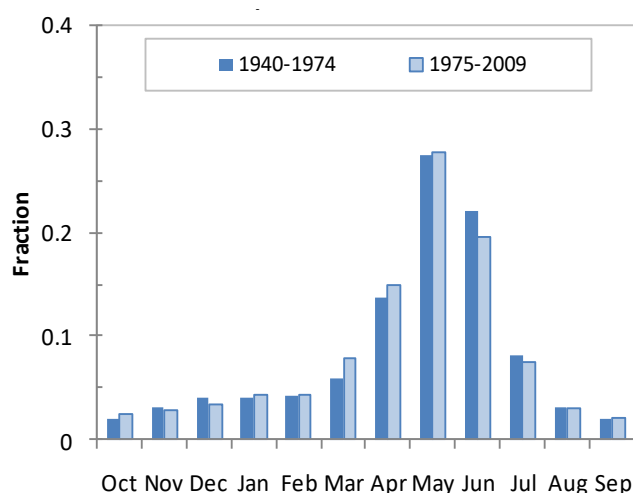


Figure 8a: Distribution of Total Annual Streamflow at East Fork (Desert Research Institute, 2011)

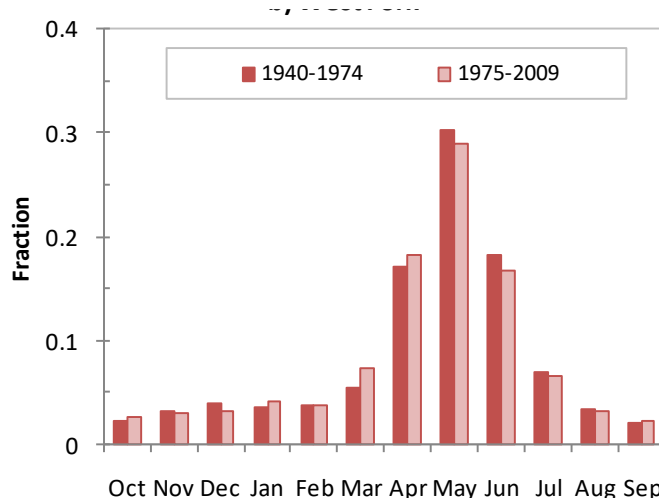


Figure 8b: Distribution of Total Annual Streamflow at West Fork (Desert Research Institute, 2011)

Furthermore, it has also been shown that surface water trends in the Carson River System affect the nearby aquifers. As shown in the Groundwater Sustainability in Gardnerville Ranchos Report (Desert Research Institute, 2025), high flows in the Carson River during the winter season led to a slight increase in groundwater levels in the following spring season. Declining surface water levels overall will eventually lead to a decrease in groundwater levels in the GRGID area. These groundwater trends are more notable closer to the Carson River, illustrating the impact that seasonal variations in river flow have on the surrounding groundwater tables, which purveyors rely on for groundwater pumping.

This section's studies indicate trends of instream flows becoming more variable with more extreme high flows and more prolonged periods of low flows. With this increased variability, runoff patterns may be more difficult to predict and to subsequently determine future impacts. The overall decrease in instream flow seen in these trends and lack of water storage upstream of the Lahontan Reservoir may impact upstream surface irrigators and drive a need to pump more groundwater.

3.2 Alpine Decree

The Alpine Decree states that *"the Water Master shall begin to direct the distribution of water on such date that he determines there is not enough water..."*. While general seasonal dates are referenced in the decree, the Water Master has full discretion to begin or end the irrigation season earlier or later based on actual conditions. This flexibility has been exercised numerous times in the past. It is also worth noting that regulation can occur at any point during the irrigation season. For example, in an extremely dry year, the irrigation season might begin with regulation due to low flow conditions. On the West Fork, although the rotation between Nevada and California is very specific to begin the first Monday in June (as prescribed in the Anderson Bassman Decree), if flows in the river are insufficient to satisfy all priorities, then the Water Master will regulate diversions within each segment based on priorities. In an exceptionally wet year with a large and extended runoff,

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regulation on both the East and West forks may occur much later and in some extreme cases, may not occur at all if the flows never reach a level that would require restrictions.

The Carson River is actively managed year-round by Water Master staff; however, to simplify the analysis of runoff changes, the dataset is divided into three distinct time periods. The first period is the *non-irrigation season* (October 1 to March 31). The second period covers the *early irrigation season* (April 1 to June 30), when there is typically enough water to meet most upstream irrigation demands and to supply inflow to Lahontan Reservoir. The third period represents the *late irrigation season* (July 1 to September 30), when water supplies are usually insufficient to meet all upstream demands, and the Federal Water Master regulates water by segments. Actual annual water allocations depend on each year's observed runoff.

3.3 Flows Trends in the Upper and Middle Carson River

As part of this study, the CWSD analyzed the impacts of Carson River flows on groundwater pumping using a 20-year moving average from 1940 to 2020 for the East Fork, West fork, Carson River, and Fort Churchill gauges. The data was categorized according to the three time periods:

- Non-irrigation season (October–March, shown in Figure 9);
- Early Irrigation season – not under regulation (April–June, shown in Figure 10);
- Late Irrigation season – under regulation (July–September, shown in Figure 11).

The data shown in the figures starts in 1960, since it is the first year that calculates an average of the previous 20 years (1940-1960). Streamflow for every year after 1960 is representative of the average of the previous 20 years (1941-1961, 1942-1962, etc.)

Most runoff trends at the East Fork, West Fork, and Carson City gages show declines across the non-irrigation, early-irrigation, and late-irrigation seasons, with the exception of the East Fork during the non-irrigation period. In contrast, flows at the Fort Churchill gauge increase across all three seasons. Of the twelve trend estimates, only three have p-values below 0.05: the East Fork late-irrigation season, the West Fork late-irrigation season, and the Fort Churchill late-irrigation season. Having a p-value (probability value) less than 0.05 suggests that trend lines are statistically significant and the results are not as likely to happen by chance.

Trendlines for all three gauges are shown in Figure 9, Figure 10, and Figure 11, respectively. All other time periods (October through June) for the remaining gauges presented as not statistically significant and are available for review in Appendix A.

These findings may suggest that current groundwater pumping capture upstream of Lahontan Reservoir has been mitigated by several factors. These factors include shifts in runoff patterns, secondary recharge from reclaimed water into groundwater basins, and a reduction in irrigated lands in Carson City and Lyon County. This is one reason why NDWR is focusing on only new water applications for conjunctive management on the Carson River.

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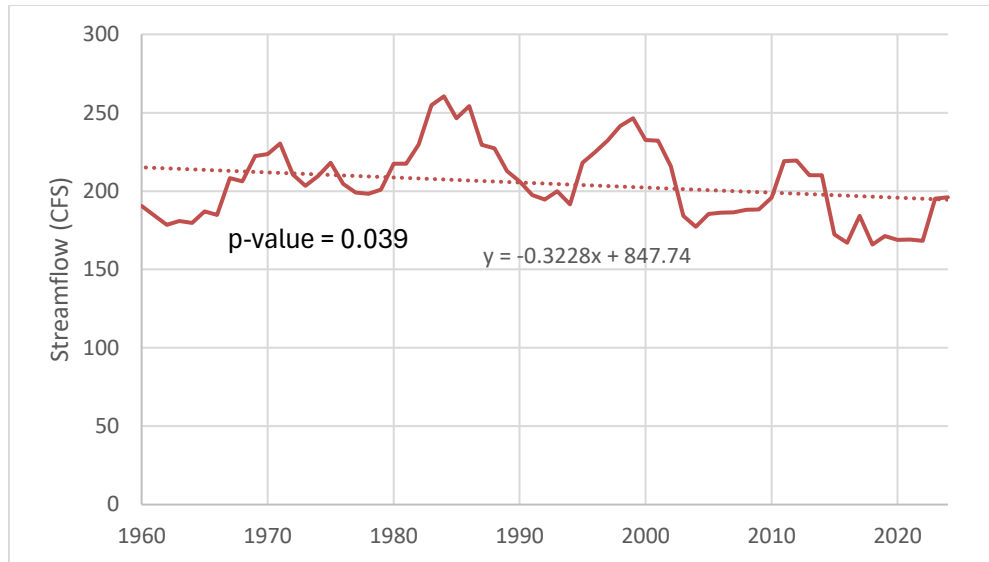


Figure 9: East Fork Carson River Streamflow near Gardnerville: July through September (20 year Moving Average)

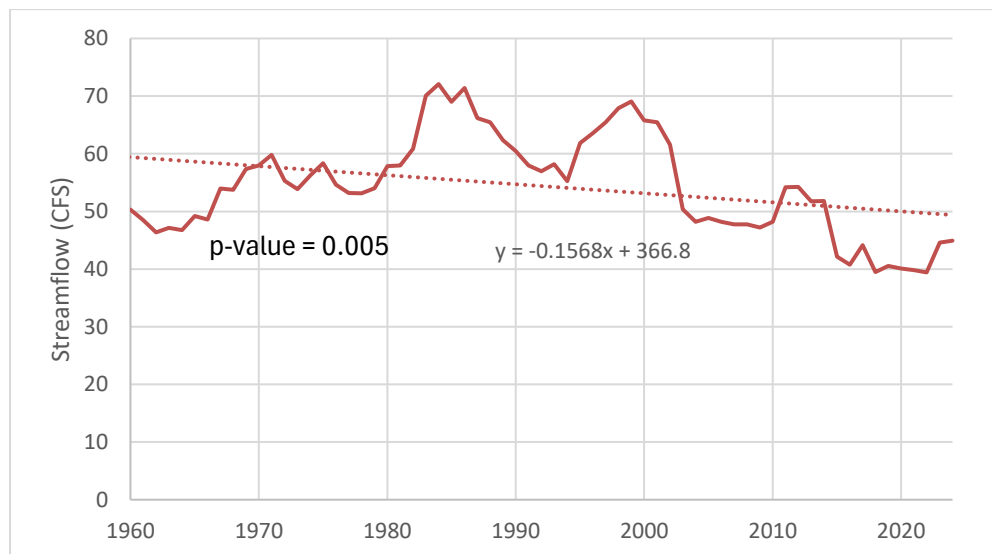


Figure 10: West Fork Carson River Streamflow at Woodfords: July through September (20 year Moving Average)

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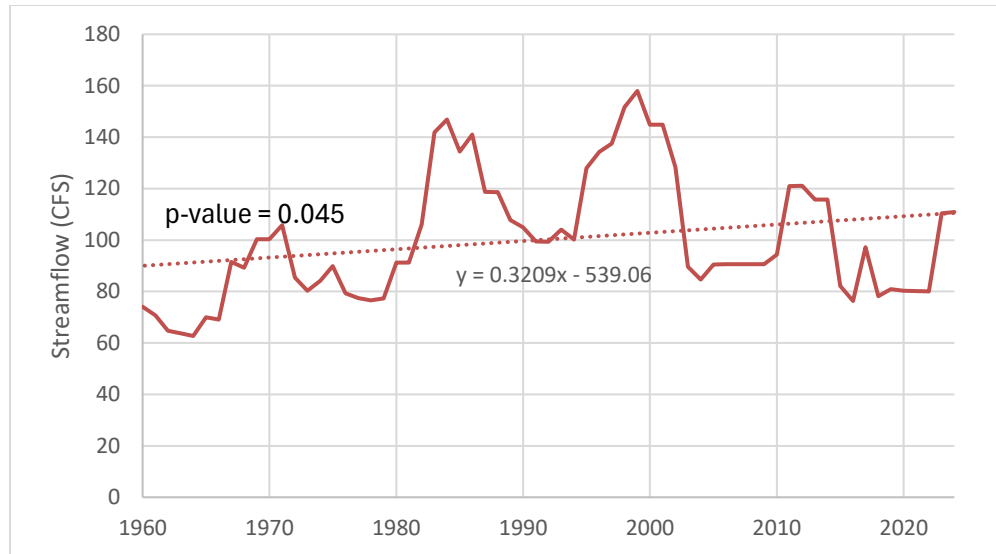


Figure 11: Carson River Streamflow near Ft. Churchill: July through September (20 year Moving Average)

3.4 Future Municipal Demands (USGS model results)

Preliminary USGS model results (Garner & Davis, 2025) for the Middle and Upper Carson River Basin only accounts for future municipal groundwater pumping data. It does not include increases from other groundwater pumping such as domestic wells, commercial, stock watering, etc.

As outlined in the project timeline in Section 1.5, the initial results are incomplete and cannot be updated within the scope of this schedule due to unforeseen federal obstacles. This document aims to interpret the findings available as of October 1st.

The data provided by the USGS is preliminary and subject to revision. It has been shared specifically to support this report, with the understanding that neither the USGS nor the U.S. Government shall be held liable for any damages arising from either authorized or unauthorized use of the information. The 2025 U.S. Government shutdown concluded November 12, 2025, so it is anticipated that the USGS will review, revise, and officially publish their findings. That final published version will serve as the definitive reference. Until then, the data presented here should be considered provisional.

The groundwater model results developed by the USGS for this study to date are shown in the following figures, representing two different scenarios.

- Model Baseline:
 - Groundwater pumping rates from 2020 were projected over the 30-year planning horizon (2021 – 2051). This was done to be able to gauge the changes in groundwater pumping due to projected growth throughout the Upper and Middle Carson.

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- Model Scenario:
 - Groundwater pumping was increased based on the growth projections discussed in Section 2.0. For discussion on how stream flow baseline and model scenarios were developed, reference the separate USGS report (Garner & Davis, 2025).

Preliminary results show steady pumping growth for both Upper Carson (Carson Valley) and Middle Carson (Eagle Valley, Dayton Valley, and Churchill Valley), as shown in Figure 12 and Figure 13, respectively. It is important to note that the chart for Carson Valley (Upper Carson) within Figure 12 shows an inaccurate jump in 2032. This inaccuracy is due to a model error that will be fixed in the finalized report from USGS. Groundwater pumping in the Carson Valley (Upper Carson) is projected to increase steadily to supplement growth in the region.

Groundwater pumping in the Middle Carson is projected to drop in 2026 due to the Quill Water Treatment Plant (WTP) capacity upgrades. Quill WTP treats surface water that is distributed to the Carson City service area. Source water for the Quill WTP comes from stream flows from the Marlette Lake Water System (MLWS) which is outside of the Carson River Watershed, and Ash and Kings Canyons. This water from Quill WTP will alleviate impacts to both surface and groundwater in the basin; thereafter, groundwater pumping in the Middle Carson will steadily increase. Groundwater pumping volume will reach close to the same in 2051 that was seen in 2020 (baseline). It should be noted that the pumping data used for the Middle Carson model represents the total municipal groundwater extraction from Carson City to Silver Springs. While total groundwater pumping in Carson City is expected to decrease once the Quill Water Treatment Plant resumes operation, municipal groundwater use in Lyon County is projected to increase over the next 30 years.

Future studies should be conducted as projected planning numbers become reality, allowing for more accurate model results.

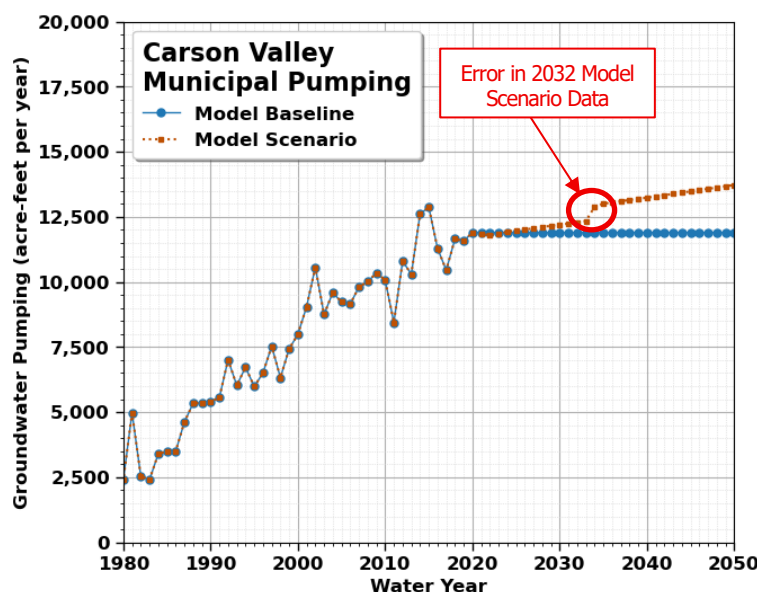


Figure 12: Anticipated Future Municipal Pumping – Carson Valley (Garner & Davis, 2025)

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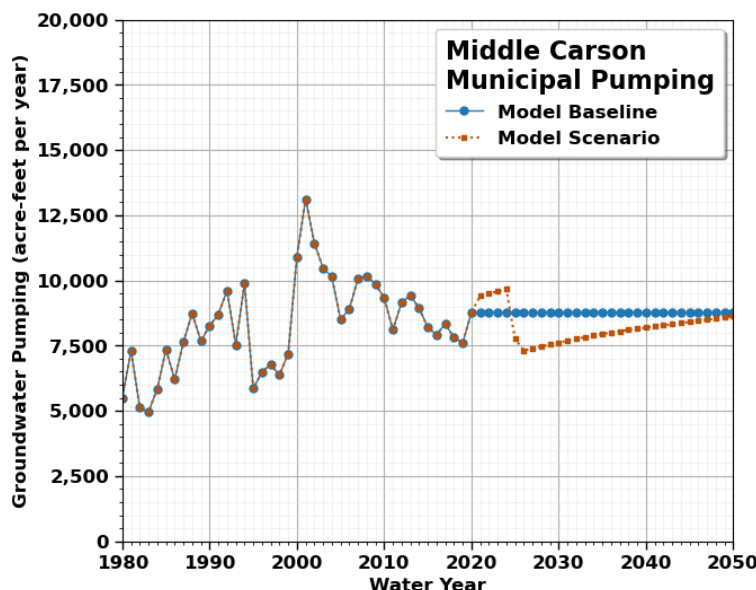


Figure 13: Anticipated Future Municipal Pumping – Middle Carson (Garner & Davis, 2025)

Figure 14 plots the USGS preliminary model's projected change in the Carson River's monthly streamflow (in cfs) at the Ft. Churchill stream gauge from 2021 to 2050. Negative values in Figure 14 represent reduced streamflow in the Carson River, attributed to the increased groundwater pumping projected by this analysis. Large spikes and dips are attributed to modeling errors that will be fixed in the finalized report from USGS.

The USGS model showed Carson River streamflow changes at the Ft. Churchill gauge capture similar trends shown in Figure 13, where stream flows are reduced by over 2 cfs until Quill WTP comes online in 2026. After 2026, stream flows stabilize towards baseline flows by 2028 and the trend remains consistent, (reduced by around 0.5 cfs) until 2051. Current streamflow is trending lower than the baseline scenario due to a temporary increase in well pumping while Quill WTP is off-line for plant upgrades. Through 2051, the USGS preliminary model indicates a slight decrease in stream flows; therefore, the current impacts modeled for the Middle Carson River Basin are mitigated in part by the Quill upgrades.

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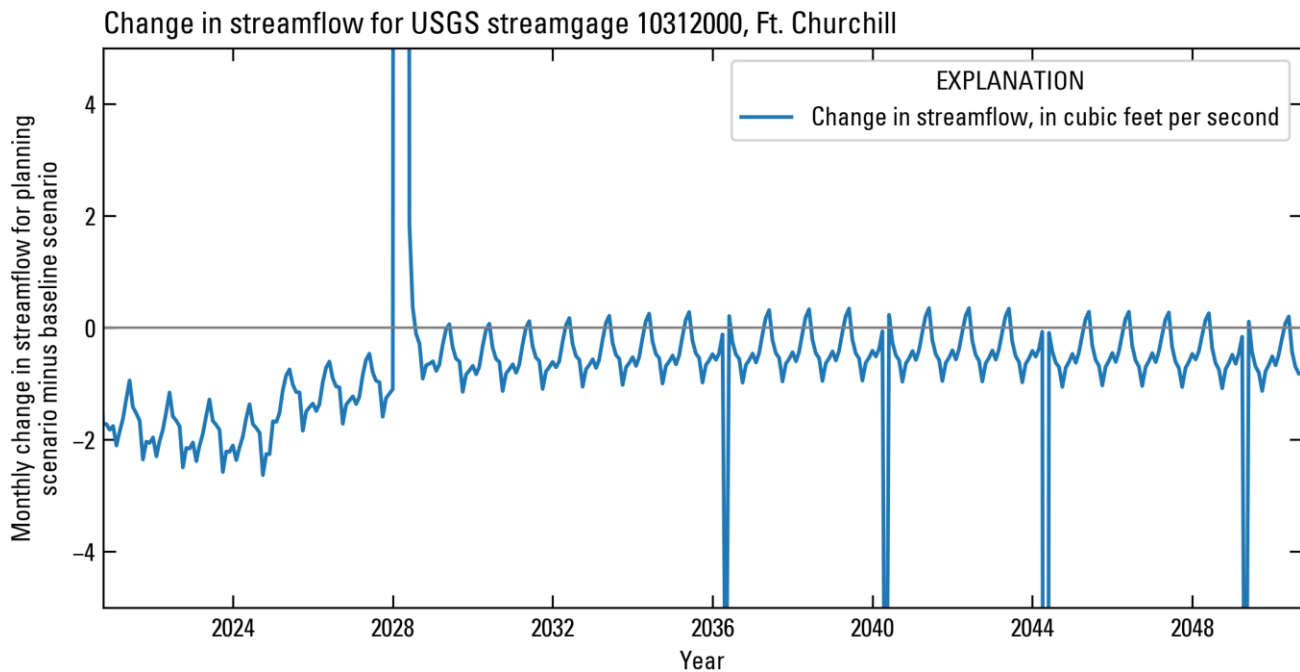


Figure 14: Middle Carson River Basin 2021 - 2050 Change in Streamflow from Baseline (Garner & Davis, 2025)

Figure 15 illustrates similar changes in streamflow at the Ft. Churchill gauge based on volume (ac-ft) per year, where negative values represent a reduction in streamflow volume per year based on the increased groundwater pumping projected by preliminary USGS model. Large spikes and dips are attributed to modeling errors that will be fixed in the finalized report from USGS. Figure 15 shows that prior to the Quill WTP coming online in 2026, annual streamflow is reduced by about 1,400 ac-ft/yr. After Quill WTP comes back online, annual streamflow averages stabilize and are slightly below the 2020 streamflow baseline from 2028 through 2051.

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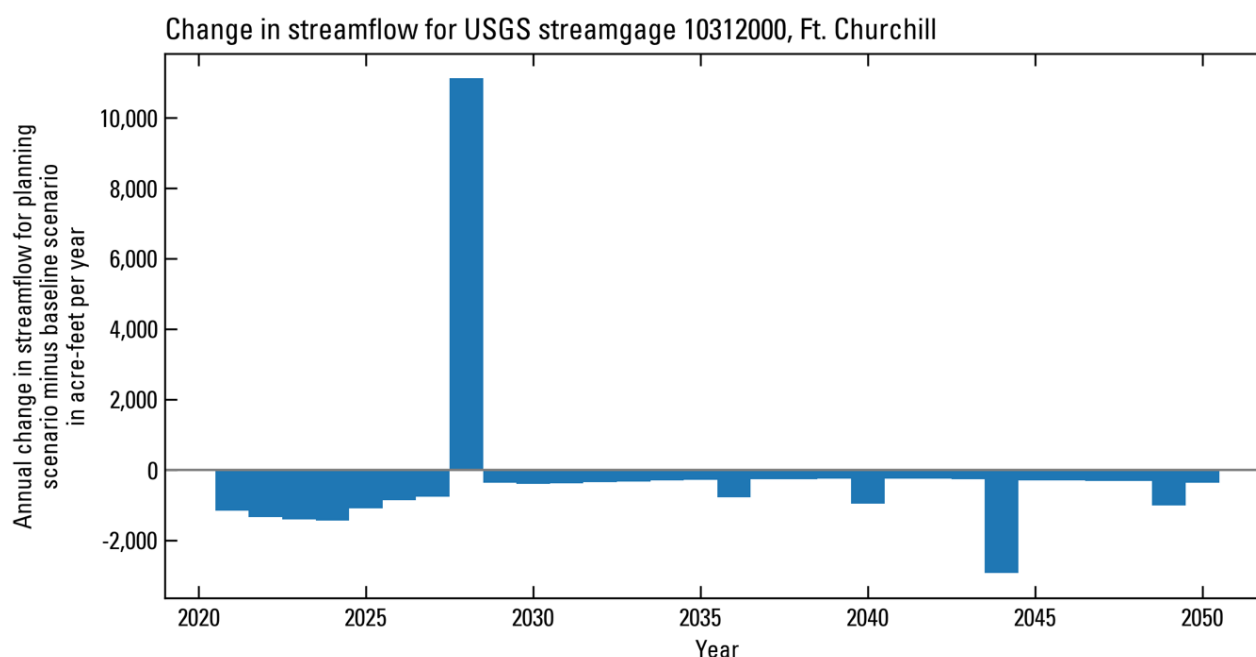


Figure 15: Middle Carson River Basin 2021 – 2050 Change in Streamflow Volume (Garner & Davis, 2025)

Overall, the USGS preliminary model indicates projected population growth will increase reliance on groundwater pumping in the Upper and Middle Carson, which will drive modest but persistent reductions in Carson River streamflow through 2051. The Quill WTP upgrades provide meaningful but partial mitigation by temporarily reducing groundwater demand beginning in 2026. However, this is only a temporary solution to the continued growth in the watershed. Additionally, known model errors and preliminary assumptions warrant treating these results as provisional. Trends in the preliminary results that were discussed within this section were not analyzed for statistical significance and the final future USGS report should be referenced for final trends and the correlating statistical significance of these identified trends.

3.5 Drought and the Carson River Watershed

3.5.1 Nevada Drought

Droughts are a recurring feature of the Carson River Watershed. The Alpine Decree, which governs water allocation, is based on historical flow data and defines water distribution during dry, wet, and average runoff years. Most municipal water suppliers rely solely on groundwater sources. During the 2014–2015 drought, none of the municipal water providers in the Carson River Watershed experienced shortages due to a lack of water supply. Historically and in the future, droughts primarily affect surface water irrigation right holders. However, drought conditions can influence groundwater recharge from surface water diversions and river losses. Current USGS modeling results cannot accurately determine how future droughts will affect aquifer recharge within the watershed. Additional studies will be necessary to better define how future droughts may impact recharge amounts.

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3.5.2 Potential impact of Consecutive Dry Years

As discussed in Section 3.4, preliminary USGS modeling suggests that projected growth will increase reliance on groundwater systems, leading to moderate declines in groundwater levels and streamflow. When combined with climate-driven runoff variability and the requirements of the Alpine Decree, drought conditions could further reduce water availability in the Upper and Middle Carson River basins. This has the potential to significantly affect the outlying communities that rely on groundwater sources as their only water source. More significant groundwater depletion has been noted in communities farther away from the Carson River, such as the communities of Ruhenstroth and Johnson Lane areas, whose groundwater is not recharged from the Carson River, but the Pinenut mountain range. (USGS, 2012) (USGS, 2024).

Given the limitations of the USGS study and the high variability in climate data used to assess drought impacts, the full range of potential watershed effects remains uncertain. Water purveyors who incorporate drought uncertainty into their master planning should refer to the mitigation possibilities outlined in Section 4.1 and include an appropriate safety factor to account for the possibility of multiple consecutive dry years.

4.0 Relating Model Results to Possible Mitigation

4.1 Identifying Offsets and Mitigation Measures for Groundwater Pumping in Water Resource Planning

As Nevada's State Engineer move toward implementation of conjunctive water use management, each water purveyor will need to develop and refine specific mitigation strategies to address groundwater pumping impacts. As streamflow conditions continue to evolve, there is increasing focus on the integrated management of surface and groundwater resources. How NDWR applies NRS 533.024 for conjunctive management in the Carson River system may change current operations of municipal water management and Water Master Plans built off the assumption that the same operations will continue.

Currently, NDWR is assessing how new groundwater right applications might affect surface water flows within the Carson River watershed. If groundwater pumping impacts are identified, mitigation will be required to protect downstream users. More clarity on interpretations set by other conjunctive management cases will be used to determine additional measures that the Carson River watershed should consider.

At the time this report is published, CWSD has provided mitigation measures that align with the Alpine Decree, which outlines different requirements depending on the time of year when constraints occur. Detailed discussion on the three relevant seasonal periods can be found in Section 3.2.

Potential mitigation strategies include, but are not limited to:

- Non-Irrigation Season (October 1 to March 31):
 - Release dedicated surface water rights from upstream reservoirs
 - Increase recharge using reclaimed water
- Early Irrigation Season – Not Under Regulation (April 1 to June 30):
 - Release surface water from upstream reservoirs
 - Increase reclaimed water recharge
 - Use dedicated surface irrigation water rights

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- Late Irrigation Season – Under Regulation (July 1 to September 30):
 - During this period, downstream users cannot place a call for water.
 - Mitigation may be necessary within the Carson River Segment where groundwater pumping occurs or in response to any resulting groundwater depletion.
 - Coordination with the Federal Water Master and NDWR will be essential to determine appropriate mitigation actions.

Additional mitigation strategies to reduce overall impact for water purveyors to consider are listed below:

- Relocate groundwater pumping sites further from the river.
- Reduce water demand through enhanced conservation efforts.
- Interconnect local water systems to optimize regional supply and delivery.

4.2 Supporting Purveyors in Adapting to Evolving Water Policies

As water purveyors update their Water Master Plans, it is important to integrate conjunctive management principles to ensure sustainable future groundwater and surface water supplies. This includes evaluating new well locations and identifying future water sources in the context of potential policy changes.

This report establishes a framework for water purveyors to consider for conjunctive management. It provides tools and guidance to monitor both surface water and groundwater usage and supports integrated, regional water planning.

This report provides a broad overview of how increased municipal demand could affect flows in the Carson River. Further modeling and regulatory development will be needed to accurately quantify those impacts and define appropriate purveyor-specific mitigation strategies.

4.3 Other Groundwater Pumping Impacts

The NDWR has collected groundwater-pumping data for Carson Valley, Eagle Valley, Dayton Valley, and Churchill Valley groundwater basins. The record lengths and pumping trends vary by basin, but several common drivers influence pumping demand, which include:

- Municipal growth,
- Irrigation needs, and
- Climate variability (wet vs. dry years).

Below is a basin-by-basin synthesis based on historical groundwater pumping inventories issued by NDWR and discussions between CWSD and groundwater users in these basins.

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4.3.1 Carson Valley Groundwater Basin (1987-2021)

- Longest data record among the four basins.
- Overall trend: Groundwater pumping has increased steadily.
- Key drivers of increased pumping:
 - Municipal demand from population growth.
 - Irrigation demand, which rises during dry years when surface water is limited.
- Hydrologic variability:
 - Dry years: Farmers increase pumping to offset reduced surface-water availability.
 - Wet years: More surface water is available, reducing groundwater pumping.
- Intertie with Carson City:
 - Since 2017, Carson City has taken just under 3,000 AF/year from Carson Valley.
 - No plans to increase withdrawals due to pipeline capacity and water-rights limitations.

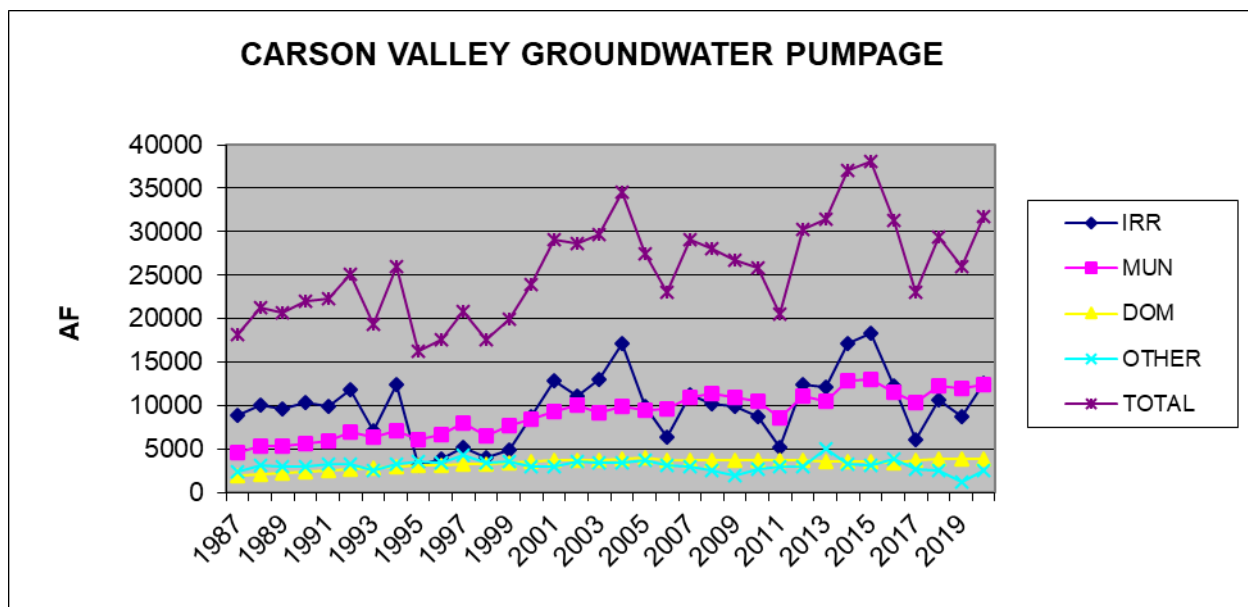


Figure 16: Carson Valley Groundwater Pumpage (Carson Water Subconservancy District, 2025)

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4.3.2 Eagle Valley Groundwater Basin (1994-2022)

- Largest user: Carson City.
- Pumping trend:
 - Peaked in the early 2000s, followed by a general decline.
 - Decline attributed to:
 - Water-conservation efforts,
 - Use of additional imported water from Carson Valley.
- Short-term increases:
 - 2020–2021: Higher pumping due to COVID-19 behavior shifts (more people staying home).
 - Recent uptick: Caused by rehabilitation work at the Quill Treatment Plant.
- Future outlook:
 - Once Quill plant rehabilitation is complete, pumping is expected to decrease again.

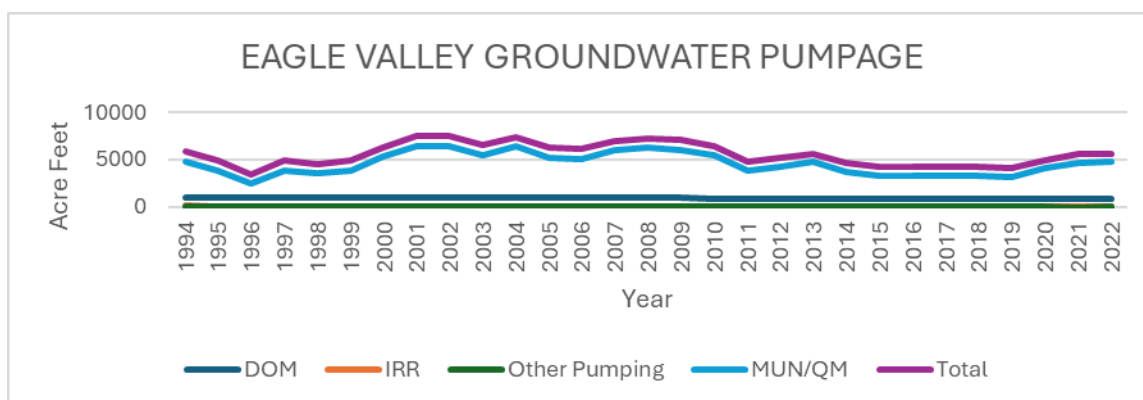


Figure 17: Eagle Valley Groundwater Pumpage (Carson Water Subconservancy District, 2025)

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4.3.3 Dayton Valley Groundwater Basin (2003-2021)

- Largest use category: Municipal groundwater pumping.
- Trends:
 - Municipal pumping: Slight decline due to water conservation and reduced outdoor use.
 - Irrigation pumping: Varies significantly with wet vs. dry years.
 - Total pumping: Has decreased overall but is projected to increase in the future because of expected development growth in the Dayton area.

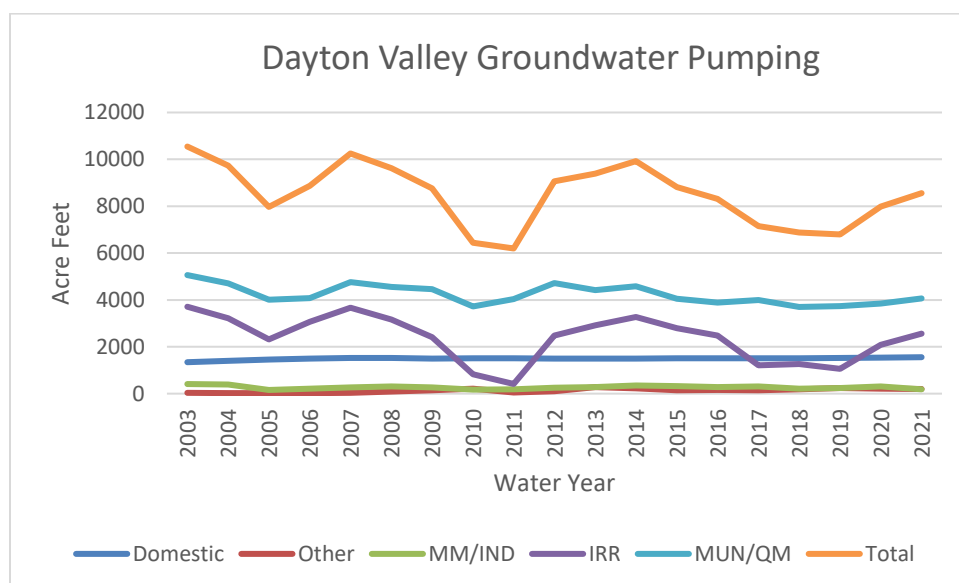


Figure 18: Dayton Valley Groundwater Pumping (Carson Water Subconservancy District, 2025)

4.3.4 Churchill Valley Groundwater Basin (2204-2021)

- Largest groundwater user: Domestic wells, with NDWR assuming 1 AF/year per domestic well.
- Trends:
 - Municipal use: Slight decline due to conservation; projected to increase modestly over the next 30 years due to growth.
 - Irrigation pumping: Fluctuates with wet and dry years.
- Overall outlook: Generally stable pumping with small future increases from municipal and domestic wells.

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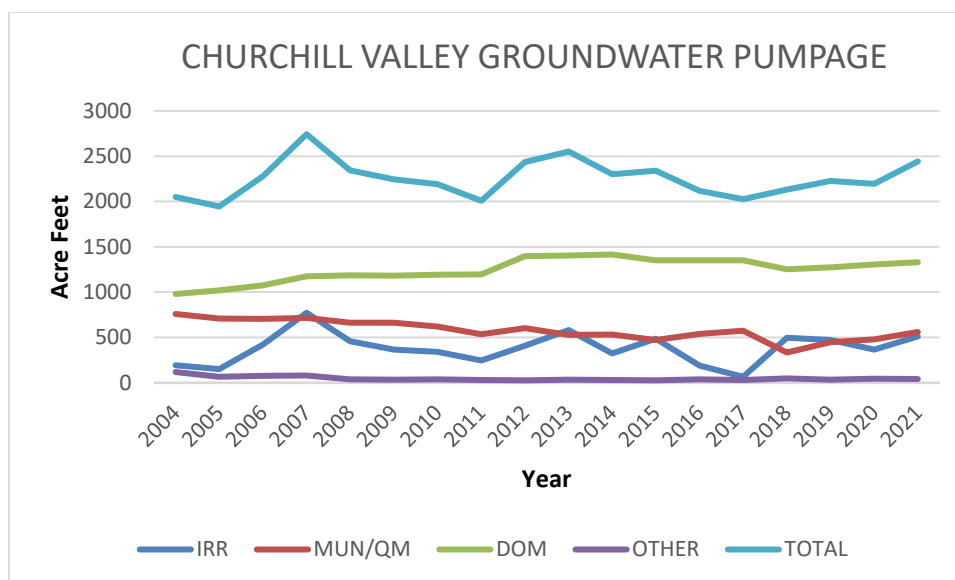


Figure 19: Churchill Valley Groundwater Pumpage (Carson Water Subconservancy District, 2025)

5.0 Key Takeaways

This 30-Year Regional Drought and Water Sustainability plan was funded through a grant from the Nevada Department of Emergency Management (NDEM) to the Carson Water Subconservancy District (CWSD). It was prepared with input from CWSD, Lumos and Associates (Lumos), the United States Geological Survey (USGS), and multiple stakeholders. This document serves as a reference and focuses exclusively on municipal water sustainability over the next three decades. Key findings include:

- **Carson River Flows:** Streamflow data from 1940–2021 show a slight overall decline, driven by climate variability and human influences. Variability in flows has increased, with more extreme peak events and longer drought periods. Shifts in weather patterns have also caused peak runoff to occur earlier in the year.
- **Groundwater Pumping:** Although total groundwater pumping in the Upper and Middle Carson River area has increased, its effect on flows measured at the Fort Churchill gauge remains minimal. Reduced irrigation in the Middle Carson River region, reclaimed-water recharge, and altered runoff patterns may be offsetting impacts. Municipal groundwater use in these areas is projected to increase by less than 5,000 acre-feet over the next 30 years.
- **Conjunctive Management:** Since the adoption of NRS 533.024.1(e) in 2017, the Nevada Division of Water Resources (NDWR) manages all waters of the state conjunctively. For new permits or changes to existing rights, NDWR ensures proposed uses do not conflict with any existing rights, regardless of water source. Where conflicts among existing rights are supported by data, the State Engineer may implement conjunctive management strategies to reduce or eliminate those conflicts.
- **Quill Water Treatment Plant (Quill WTP):** Upon completion of upgrades to Carson City's Quill WTP, groundwater pumping in the Eagle Valley basin will decline. This reduction will help offset anticipated increases in municipal pumping elsewhere in the Middle Carson River area.

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- **Wet/Dry Years (Alpine Decree):** Carson River surface water is administered by the U.S. Federal Water Master in accordance with the Alpine Decree (1980). Through the Alpine Decree, the U.S. Federal Water Master is able to allocate surface water resources in both wet and dry years.
- **Drought:** Due to limitations in the USGS study and high climate variability, the full range of future watershed responses remains uncertain. Nonetheless, historical data suggests droughts will likely become more frequent and prolonged. Because municipal systems largely rely on groundwater, they are expected to meet projected demands over the next 30 years.
- **Regional Systems and Sustainability:** All nine water purveyors included in this study possess sufficient water rights to accommodate future growth. While each faces some water-quality considerations, none anticipates quality constraints that would limit their ability to meet demand. While most purveyors have sufficient capacity through 2051, system upgrades – particularly to distribution networks and well capacity – may be required. This is especially true for Minden and GRGID, which are estimated to exceed their current pumping capacity by 2051. In Silver Springs and Stagecoach, perennial yield and secondary recharge are limiting factors; major developments in these areas will likely require imported water.

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APPENDIX

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APPENDIX A: Carson River Streamflow

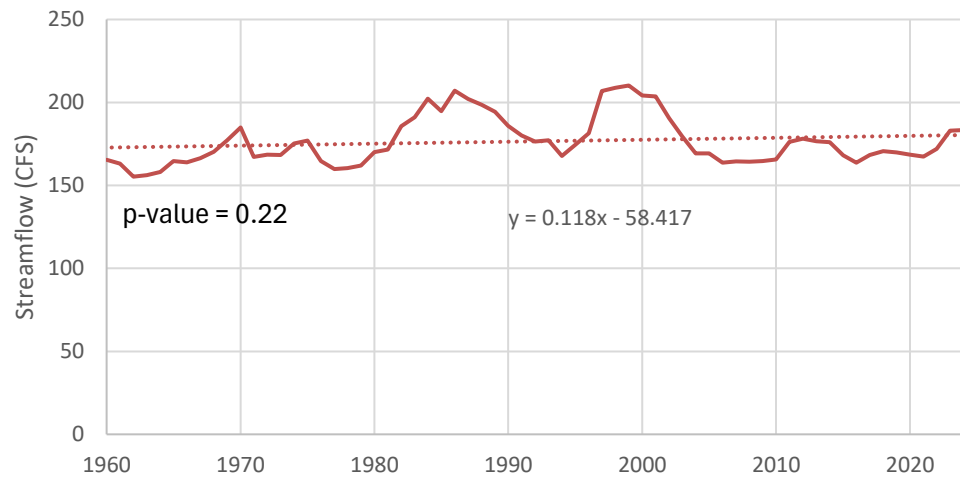
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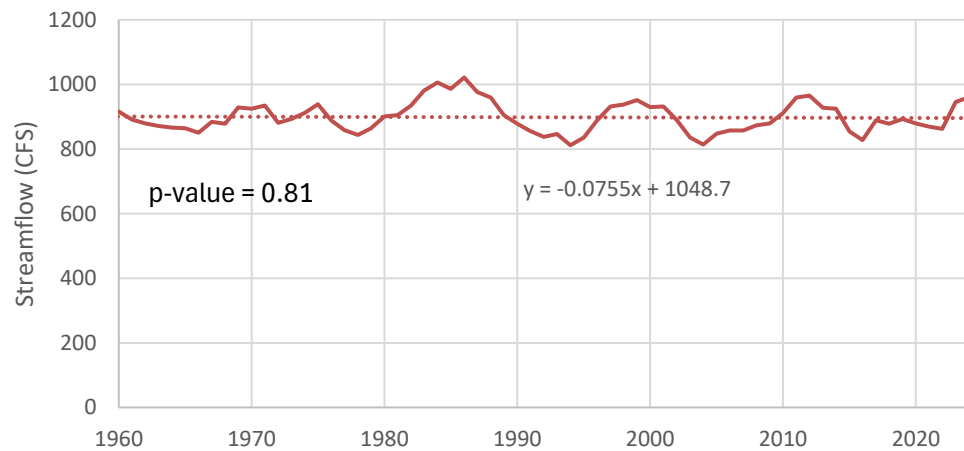
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20 Year Moving Average Mean Daily Flow for Season Oct - Mar for East Fork Carson River near Gardnerville



20 Year Moving Average Mean Daily Flow for Season Apr - Jun for East Fork Carson River near Gardnerville



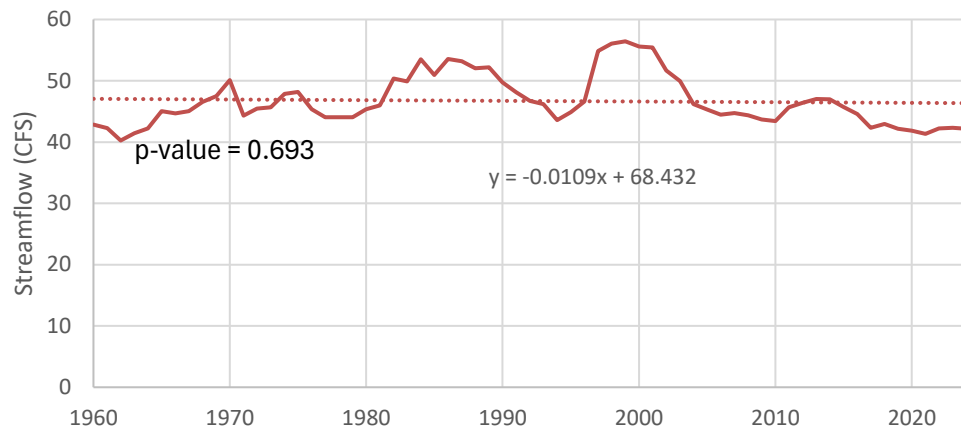
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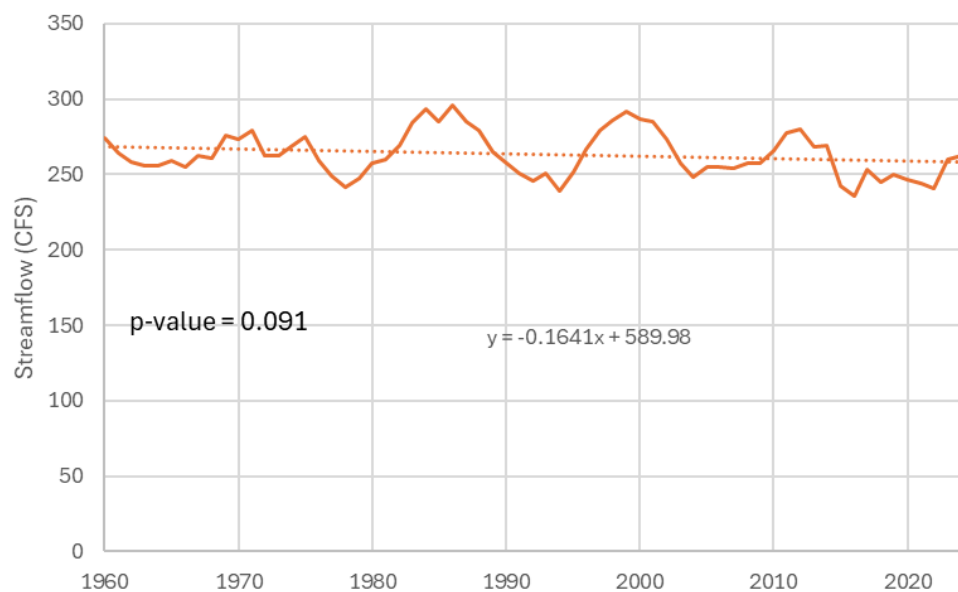
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20 Year Moving Average Mean Daily Flow for Season
Oct - Mar for West Fork Carson River at Woodfords



20 Year Moving Average Mean Daily Flow for Season Apr
- Jun for West Fork Carson River at Woodfords



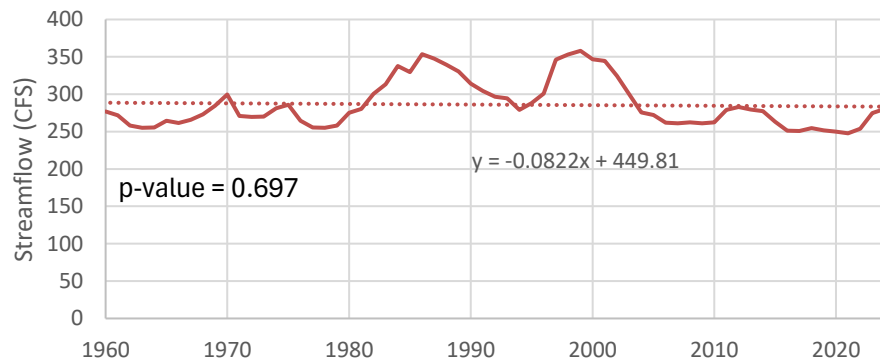
Carson Office

308 N Curry, Suite 200, Carson City, NV 89703

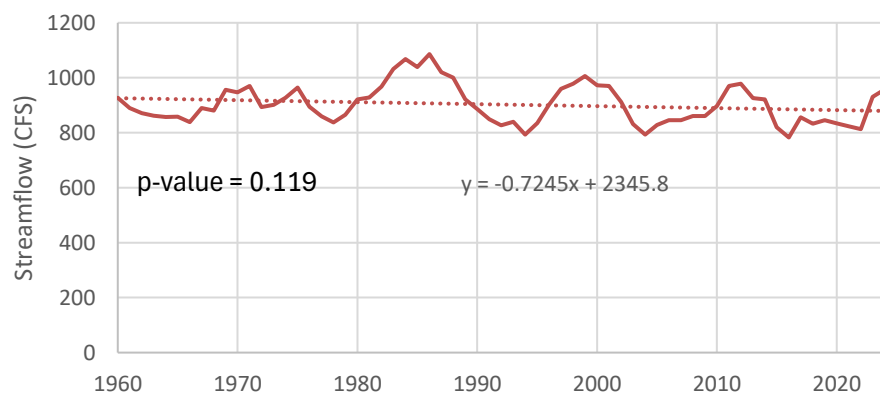
Tel. 775.883.7077 / Fax. 775.827.6112

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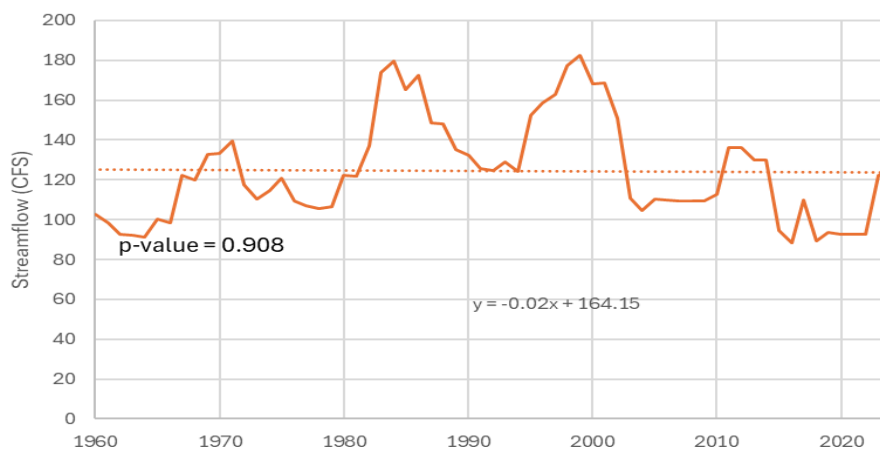
20 Year Moving Average Mean Daily Flow for
Season Oct - Mar for Carson River at Carson City



20 Year Moving Average Mean Daily Flow for
Season Apr - Jun for Carson River at Carson City



20 Year Moving Average Mean Daily Flow for Season Jul -
Sep for Carson River at Carson City



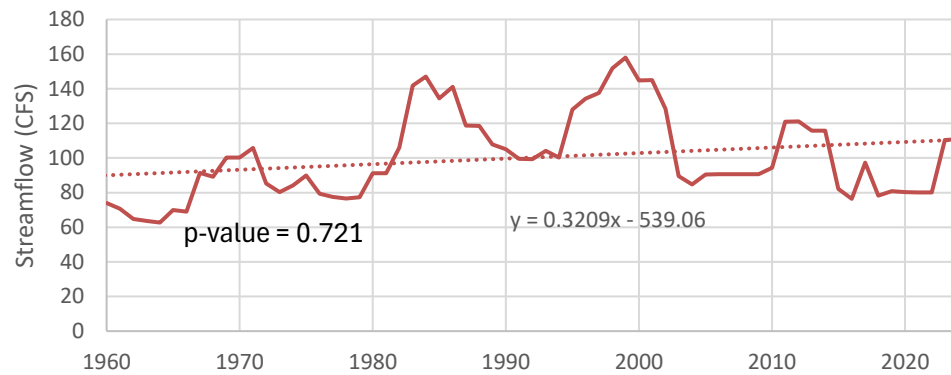
Carson Office

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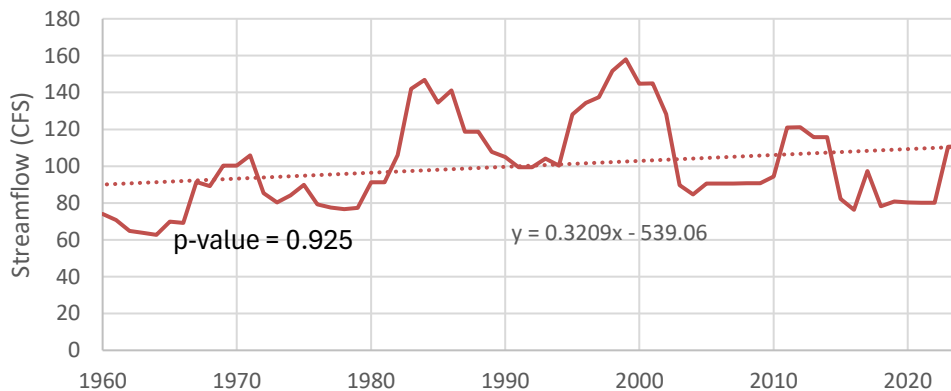
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20 Year Moving Average Mean Daily Flow for Season
Jul - Sep for Carson River near Fort Churchill



20 Year Moving Average Mean Daily Flow for Season
Jul - Sep for Carson River near Fort Churchill



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AGENDA ITEM #**18**

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors

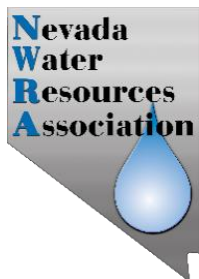
FROM: Edwin James

DATE: December 17, 2025

SUBJECT: Agenda Item #18 – For Possible Action: Approval of Board Members to attend the Nevada Water Resources Association (NWRA) Annual Conference, February 2-5, 2026, in Las Vegas

DISCUSSION: On February 2-5, the NWRA will hold its Annual Conference in Las Vegas, Nevada (see attached program). There will be several good presentations discussing the water resource issues in the state of Nevada and the watersheds. In the past CWSD has approved up to two Board Members to attend this conference. Board Members interested in attending the NWRA Annual Conference need to contact Catrina as soon as possible as discounted early registration is due by January 1, 2026.

STAFF RECOMMENDATION: Approve up to two Board Members to attend the 2026 NWRA Annual Conference.



2026 NWRA Annual Conference Week
February 2 – 5, 2026
Tuscany Suites and Casino
Las Vegas, Nevada

Monday, February 2, 2026

6:00 a.m. – 3:00 p.m.	Exhibitor Set-up
7:00 a.m. – 5:00 p.m.	Pre-Conference Activities Registration Open
8:00 a.m. – 4:30 p.m.	2026 Annual Conference Tour
8:00 a.m. – 4:00 p.m.	Water Rights in Nevada Class
4:00 p.m. – 6:30 p.m.	Student Poster Set-up (4:00), Social (5:00) & Student Poster Competition Kickoff for Judges Viewing
6:30 p.m. – 8:30 p.m.	Board of Trustees Business Meeting

Tuesday, February 3, 2026

7:00 a.m. – 9:00 a.m.	Pre-Conference Activities Registration Open
8:00 a.m. – 12:00 p.m.	Exhibitor & Professional Poster Presenter Set-up for 2026 Annual Conference
8:00 a.m. – 2:00 p.m.	Advanced Water Rights in Nevada Class
8:00 a.m. – 6:00 p.m.	2026 Annual Conference Registration Open
1:00 p.m. – 7:00 p.m.	2026 Annual Conference Exhibit Room & Poster Presentations Open
1:30 p.m. – 2:10 p.m.	Opening Remarks with Laurel Saito & Christi Cooper , 2026 Conference Co-Chairs and Keynote Presentation with Mason Voehl , Campaigns Director, Amargosa Conservancy, "A Crossroads in the Amargosa: Emerging Threats, Science, and Opportunities for Safeguarding the Amargosa River"
2:10 p.m. – 3:15 p.m.	Panel: Collaboration through Crisis: A Look at What's Working (and what's not) Around the Arid West

Across the west, groundwater overdraft, development pressure, declining surface water flows, and climactic variability are testing the institutions and infrastructure that underpin economic activity. Join us as we share lessons learned across regions of the west. Highlights include generational investment to increase flows to the Great Salt Lake, crop and water management change in the Colorado and Rio Grande River Systems, community collaboration on land use change and groundwater management in California's Central Valley, and voluntary groundwater management in the Ogallala.

Moderator: **Peter Stanton**, Walker Basin Conservancy

- **Marcelle Shoop**, Executive Director, Great Salt Lake Watershed Enhancement Trust & Director of Saline Lakes Program Director, National Audubon Society
- **Ed Curry**, Chile and Specialty Crop Farmer, Arizona's Water Policy Council
- **Dr. Ladona Clayton**, Executive Director, Ogallala Land & Water Conservancy
- **Eddie Ocampo**, PhD, Director of Public Affairs, Self-Help Enterprises

3:15 p.m. – 3:30 p.m. Transition Break

3:30 p.m. – 4:30 p.m. **Panel: Data Centers and Water 1: When AI Comes to Town: Water Use and Community Change**

As the AI boom takes off, Western Nevada is in the crosshairs of development. How will AI shape the future of our communities and water tables? This panel looks at the national context and local, on-the-ground impacts of data center development in Western Nevada.

Moderator: **Staci Emm**, University of Nevada, Reno Extension

- **Bryan Masini**, Farmer and Rancher, L&M Family and Masini Ranches
- **Jennifer Thomason**, Environmental Director, Tract
- **Peter Stanton**, Chief Executive Officer, Walker Basin Conservancy
- **Tess Gardner**, Senior Project/Technical Lead, Fluent Freshwater Insights, "Data Centers: Corporate Investments in Water Efficiency, Local Systems and Regional Replenishment"

3:30 p.m. – 4:30 p.m. **Concurrent Technical Session A: Navigating Uncertainty**

Moderator: **Christopher Dacey**, Haley & Aldrich Inc

- **Holli Swarner**, MS, Glorieta Geoscience, A Division of GZA GeoEnvironmental Inc (GGI), "Development of a Basin Characterization Model (BCM) to Estimate Groundwater Recharge in the Virgin River Basin"
- **Josh Simpson**, PG, Glorieta Geoscience, A Division of GZA GeoEnvironmental Inc (GGI), "Development of a Groundwater Flow Model to Estimate Perennial Yield in Nevada Basin 222"
- TBD

4:30 p.m. – 7:30 p.m. 2026 Annual Conference Welcome Social – *Exhibitor & Poster Presentation Area*

- "Hydrofest" with Exhibitors, Poster Presenters & NWRA Friends
- Student Poster Competition
 - People's Choice Judging
 - Student Choice Judging

Wednesday, February 4, 2026

7:00 a.m. – 6:00 p.m. 2026 Annual Conference Registration Open

7:00 a.m. – 8:30 a.m. Continental Breakfast – *Exhibitor & Poster Presentation Area*

7:00 a.m. – 7:00 p.m. 2026 Annual Conference Exhibit Room & Poster Presentations Open

8:00 a.m. – 8:30 a.m. Welcome Remarks with **Mark Gookin**, 2026 Conference Co–Chair and **Keynote Presentation with Camille Calimlim Touton**, Strategic Advisor/Founder, Rotunda, River & Range LLC, Former Commissioner, US Bureau of Reclamation

8:30 a.m. – 10:00 a.m. **Panel: Colorado River Water Quality**

Moderator: **Carissa Wilkerson**, Southern Nevada Water Authority

- **Todd Tietjen**, PhD, Regional Water Quality Manager, Southern Nevada Water Authority
- **Deena Hannoun**, PhD, Limnology Modeling Project Manager, Southern Nevada Water Authority
- **Riley Rackliffe**, Aquatic Ecologist, National Park Service, “Tracking Canine Schistosomiasis in Lake Mead NRA”
- **Thomas Ashley**, Hydrologist, US Bureau of Reclamation

10:00 a.m. – 10:20 a.m. Break – *Exhibitor & Poster Presentation Area*

10:20 a.m. – 11:50 a.m. **Panel: Kobeh/Diamond Valley Project**

For more than 40 years, the over-drafting of groundwater occurring in the Diamond Valley Hydrographic Basin has resulted in the State Engineer classifying the basin as a Critical Management Area (CMA) in 2015. The CMA triggered the development of a Groundwater Management Plan by the residents of the basin. As part of the approved Diamond Valley Groundwater Management Plan, Eureka County is considering a project to import groundwater from the adjacent Kobeh Valley as a mitigation measure for Diamond Valley. This session will explore the history of water availability and development for Diamond and Kobeh Valleys, current and future mitigation measures, and progress of the groundwater importation project.

Moderator: **Christopher Thorson**, Nevada Division of Water Resources, Department of Conservation and Natural Resources

- **Kip Allander**, Chief of Hydrology, Nevada Division of Water Resources, “Background and History of Groundwater Development of Diamond and Kobeh Valley Groundwater Basins”
- **Jake Tibbitts**, Natural Resources Manager, Eureka County & Eureka Conservation District, “Proposed Solutions for Addressing Over-drafting of Diamond Valley”
- **Michael Hardy**, PE, PG, WRS, Senior Project Manager, Engineering Division, Lumos & Associates Inc, “Targeted Methodologies for Groundwater Exploration in Kobeh Valley via Geophysical Surveys”
- **Tyler Sproule**, PG, Project Hydrogeologist, Engineering Division, Lumos & Associates Inc, “Targeted Exploration Drilling Results from the Geophysical Surveys, and Next Steps”

10:20 a.m. – 11:50 a.m. **Concurrent Technical Session B: Water Management**

Moderator: **Karin Peternel**, AtkinsRéalis

- **Max Dugan**, PE, ENV-SP, CWRE, Principal Engineer, Geosyntec Consultants, “Sustainable Groundwater Management Strategies in Agriculture – Examples and Lessons from the Multibenefit Land Repurposing Program in California”

- **Lauren Bartels**, Water Resource Specialist, Nevada Division of Water Resources, “From Curtailment to Engagement: Evolution of Groundwater Management in Smith and Mason Valleys”
- **Carlie Henneman**, Water Program Director, Walker Basin Conservancy, “Water Exchange Opportunities to Benefit Both Agriculture and Instream Flows for Wildlife”
- **Carlie Henneman**, Water Program Director, Walker Basin Conservancy, “Twenty-Two Change Applications in Six Months: Lessons Learned Working with Stakeholders”
- **Noelle Patterson**, PhD, Department of Civil and Environmental Engineering, Utah State University, “A Legacy of Water Management Revealed Through Riparian Forest Growth on the Truckee River”

11:50 a.m. – 1:20 p.m. Business Luncheon with **Reed Cozens**, NWRA President

- 2026 NWRA Lifetime Achievement Award
- Scholarship Awards
- Michael Rosen Outstanding Paper Award
- Board Elections

1:30 p.m. – 3:15 p.m. **Technical Session C: Water Quality**

Moderator: **Greg Morrison**, Morrison Law PLLC

- **Gabson Baguma**, MSE, Department of Environmental Engineering, University of Nevada, Las Vegas, “Tire Wear Particles as Precursors for Disinfection Byproducts in Drinking Water”
- **Noah Heller**, MS, PG, BESST Inc, “Pilot Hole Geochemistry: Identifying Geochemical Risks to Public Supply Wells at the Aquitard–Aquifer Boundary”
- **A.J. MacDonald**, MAsC, PEng, PE, Vice President, Engineering, Integrated Sustainability, “Optimization and Consolidation of Legacy Mine Water Infrastructure Under Stricter Limits: Strategies for Nevada and Western US”
- **Mckenna Oh**, Western Environmental Testing Laboratory, “Water Sample Collection Best Practices”
- **Nick Ross**, Western Environmental Testing Laboratory, “Laboratory-Based Extraction Methods for Evaluating Groundwater Impacts from Mine Waste”

1:30 p.m. – 3:15 p.m. **Concurrent Technical Session D: Conjunctive Management**

Moderator: **Karin Peternel**, AtkinsRéalis

- **Thomas Bridges-Lyman**, PhD Candidate, Department of Economics, University of Nevada, Reno, “Economic Analysis of an Offset-Based Approach to Conjunctive Management in the Humboldt River Basin”
- **Gina Gilson**, Department of Political Science, University of Nevada, Reno, “Perceptions of Environmental Change and Conjunctive Management in the Humboldt River Basin, Nevada”
- **Taylor Vergin**, Hydrologist II, Nevada Division of Water Resources, “Conjunctive Management in the Humboldt River Region - Overview of the Capture Management Zone and Offsets Strategy Using Humboldt Decree”
- **Abbie Sandquist**, PhD, Hydrologist II, Nevada Division of Water Resources, Department of Conservation and Natural Resources, “Conjunctive Management in the Humboldt River

Region - Development and Use of Offset Calculator to Estimate Offsets Needed to Mitigate Capture Liability”

1:30 p.m. – 3:15 p.m. **Concurrent Technical Session E: Integrated Groundwater Modeling; Tools for Capture, Recharge & Interbasin Flow**

Moderator: **Reed Cozens**, DOWL LLC

- **Keith Halford**, PhD, Halford Hydrology LLC, “Expedient Estimation of Stream and Evapotranspiration Capture with CaptureMF6”
- **Richard Niswonger**, PhD, Principal Hydrologist, GSI Environmental, “Water Resources Modeling in Developed Watersheds: Integrated Water Operations and Hydrology with Modsim-GSFLOW”
- **Derek Ryter**, PhD, California Water Science Center, United States Geological Survey, “Simulated Effects of Pumping on Groundwater Hydraulic Head and Phreatophyte Evapotranspiration in the Oasis Valley, Pahrump Valley, and Amargosa Desert, Death Valley Regional Flow System, Nevada and California”
- **Randall Paylor**, Hydrologist, US Geological Survey, Nevada Water Science Center, “The Nevada Water Initiative, Interbasin Flow – Preliminary Interpretations for Railroad and Pine Valley Demonstration Basins”
- **John Volk**, PhD, Desert Research Institute, “A Python Toolkit for Automated Generation of Hydrologic Models to Assess Recharge Across Nevada’s Hydrographic Basins”

3:15 p.m. – 3:30 p.m. Transition Break

3:30 p.m. – 5:00 p.m. **Panel: Tribal Water Issues - Past to Present**

Water has utilitarian and cultural significance to the Indigenous people of the land that has evolved over time and continues today. Water holds deep significance for Nevada's Native American Tribes in sustaining traditional foods and agricultural practices. This session will explore its various facets, including its agricultural applications, the complexities of associated water rights, and the historical impact of water's changing presence on these Tribal communities.

Moderator: **Leanna Hale**, Natural Resources Specialist, Intertribal Agriculture Council

- **Staci Emm**, Extension Professor and Nevada Tribal Programs Director
- **Jay Guerrero**, University of Nevada Reno
- **Mervin Wright**, Nevada Restoration Tribal Liaison, The Nature Conservancy, “Upland Rangelands: Restoration and Production”
- **Annette George**, Vice Chairwoman and Division Manager of Natural Resources, Duckwater Shoshone Tribe & **Dallas Smales**, Councilmember and Environmental Director, South Fork Band of the Te-Moak Tribe of Western Shoshone

5:00 p.m. – 6:00 p.m. Cocktail Hour & Networking with Exhibitors – *Exhibitor & Poster Presentation Area*

Thursday, February 5, 2026

7:30 a.m. – 12:00 p.m. 2026 Annual Conference Registration Open

7:30 a.m. – 8:30 a.m. Continental Breakfast – *Exhibitor & Poster Presentation Area*

7:30 a.m. – 2:00 p.m. 2026 Annual Conference Exhibit Room & Poster Presentations Open

8:30 a.m. – 8:35 a.m. Welcome Remarks with **Christi Cooper & Laurel Saito**, 2026 Conference Co-Chairs

8:35 a.m. – 10:10 a.m. **Panel: Data Centers and Water 2: Data in the Desert**

The rapid expansion of computer infrastructure and AI development in recent years has driven a growing demand for data storage and hardware to support these technologies. Nevada has emerged as a strategic location for investment in data center development, thanks to a combination of favorable factors. In this panel, a diverse group of speakers will share their perspectives on how the data center boom intersects with Nevada's water resources, and the innovative ways they are collaborating with local communities to address these challenges.

Moderator: **Lindsay Marsh**, Carson Water Subconservancy District

- **Erik Henzl**, Staff Research Scientist and Environmental Economist, Desert Research Institute, "Data Center Load Growth and Water Demand in Nevada"
- **Alise Porto**, SVP of Energy and Sustainability, SWITCH, "From Cooling to Capital: How Water-Wise Data Centers Drive Sustainability-Linked Financing"
- **Jeremy Smith**, PhD, Director of Regional Planning, Truckee Meadows Regional Planning Agency, "Data Centers and the Role of Regional Planning in the Truckee Meadows Region"
- **Jeff Brigger**, Director, Business Development & Major Accounts, NV Energy, "Data Centers and Nevada's Future: Risks, Opportunities, and Solutions"
- Shari Whalen, General Manager, Tahoe-Reno Industrial Center General Improvement District (tentatively confirmed)
- **Michael Bernardo**, Dr, Enterprise Conservation Division Manager, Southern Nevada Water Authority

10:10 a.m. – 10:30 a.m. Networking Break – *Exhibitor & Poster Presentation Area*

10:30 a.m. – 12:00 p.m. **Technical Session F: Water Garage**

Moderator: **Abbie Sandquist**, Nevada Division of Water Resources, Department of Conservation and Natural Resources

- **Jason Kuchnicki**, MS, Nevada Division of Environmental Protection, "NDEP Bureau of Water Quality Planning Roundup"
- **Karin Peternel**, CFM, CPSWQ, AtkinsRéalis, "A Local, State and Federal Collaboration to Update Community Dam Safety Preparedness"
- **Marisa Redgrave**, BS, Geological Engineering, Montana Technical University, "Assessing the Effectiveness of Rehabilitation Performed at Moulton Dam, Silver Bow County, Montana Using Geophysical Methods"
- **Richard Stone**, RHS Consulting Ltd, "Comparison of Aircraft and Ground-Based Seeding Effects in the Upper American River Basin"

12:00 p.m. – 1:45 p.m. Luncheon with **Vince Johnson**, NWRA Vice President and **Keynote Presentation with Michael Taylor**, Associate Professor, Department of Economics, University of Nevada, Reno, and State Specialist with

University of Nevada Cooperative Extension, "An Economic
Perspective on the Strengths and Limitations of Water Markets"

2:00 p.m. – 3:40 p.m. **Panel: Planning for Conjunctive Management**

Since the Nevada Supreme Court Conjunctive Management decision in 2024, water resource planners and agencies have been considering what this means to them. With conjunctive management becoming the direction of water resource management in Nevada, this creates a complex reality for agencies needing to plan for future demands and uses. Although conjunctive management might seem like a new direction in Nevada, there are several agencies that have been actively involved in conjunctive management activities for quite some time. This session will provide insight into how different agencies have been or are currently dealing with conjunctive management.

Moderator: **TBD**, Nevada Division of Water Resources

- **Edwin James**, PE, General Manager, Carson Water Subconservancy District
- **Jeff Fontaine**, Executive Director, Central Nevada Regional Water Authority and Humboldt River Basin Water Authority, "Stakeholder perspective on Conjunctive Management efforts and needs for the Humboldt River Basin"
- **Eddy Quaglieri**, PE, Natural Resources Manager, Truckee Meadows Water Authority
- **Adam Sullivan**, PE, Nevada State Engineer, Nevada Division of Water Resources, "Implementing Conjunctive Management for the Humboldt River Region Through a Draft Curtailment Order"
- **Colby Pellegrino**, Deputy General Manager of Natural Resources, **or Andrew Burns**, Manager, Water Resources Division, Southern Nevada Water Authority and the Las Vegas Valley Water District.

3:40 p.m. – 4:00 p.m. Student Poster Competition Awards, Recap, Closing Remarks, and Adjourn with **Mark Gookin, Christi Cooper, & Laurel Saito**, 2026 Conference Co-Chairs

5:00 p.m. – 7:30 p.m. Board of Trustees Post Conference Meeting

STAFF REPORTS

CARSON WATER SUBCONSERVANCY DISTRICT

TO: Board of Directors
FROM: Edwin James
DATE: December 17, 2025
SUBJECT: Agenda Item #19 - For Information Only: Staff Report

DISCUSSION: The following is a list of meetings/activities attended by Ed James and staff since the last Board meeting of November 19, 2025:

- 11/20 Lindsay attended Webinar: "Beyond the Dredge: Boosting Remediation Impact with Nature-Based Solutions – The Money Point Case"
- 11/20 Debbie co-chaired ASFPM Arid Regions committee meeting
- 11/20 Staff meeting (all)
- 11/24 Lindsay attended NAWM/ASFPM Natural Hazard Mitigation 2025 Workgroup
- 11/25 Brenda attended Carson River Master Plan meeting
- 11/26 Ed & Lindsay met with contractor re: 30-Year Regional Water Supply & Drought Plan Final Report
- 12/2 Staff meeting (all)
- 12/2 Brenda & Kelly met with contractor re: Web Viewer project
- 12/2 Lindsay attended NWRA 2026 Scholarship Committee meeting
- 12/3 Ed, Brenda, Debbie & Lindsay attended CWSD Flood Hazard Viewer Demo: County Stakeholder Review
- 12/3 Lindsay attended NWRA 2026: Conference call for Water and Data Centers session
- 12/3 Ed attended NWRA Municipal and Industrial Water Users Committee meeting
- 12/3 Lindsay & Brenda participated in River Wranglers FAW event for 5th Graders at St. Teresa of Avila Child Development Center in Carson City
- 12/4 Ed attended the Humboldt River Stakeholder Working Group (HRSWG) Technical Subgroup meeting
- 12/4 Debbie attended ASFPM Policy Briefing
- 12/5 Lindsay attended Session Planning for 2026 NWRA Conference
- 12/5 Ed & Brenda met with AWG for East Fork Carson Prioritization Project 319 Grant Discussion
- 12/8 Ed & Catrina hosted Administrative Committee meeting
- 12/8 Brenda, Debbie, Lindsay & Kelly hosted CRC Education & Outreach Working Group (EWG) meeting
- 12/9 Lindsay attended Webinar: CalWATRs for Organizations (New CA Water Rights Data System)
- 12/9 Lindsay attended 2026 NWRA Annual Conference Planning Meeting
- 12/9 Brenda attended Watershed Planning Handbook meeting
- 12/9 Brenda and Debbie attended Allen Family Philanthropy Grant Webinar

12/17/2025 CWSD Board Meeting
Agenda Item #19- Staff Report

- 12/10 Ed participated in UNR Statewide Water Specialist Interviews
- 12/10 Ed & Lindsay met with USGS Staff for an update on Carson River Groundwater Models for the 30-Year Plan
- 12/12 Ed participated in UNR Statewide Water Specialist Interviews
- 12/16 Ed attended the HRSWG meeting in Battle Mountain
- 12/16 Brenda & Kelly attended Alpine/Upper Carson WMA meeting at River Fork Ranch

STAFF RECOMMENDATION: Receive and file.

NO CORRESPONDENCE