

Tab 5

Metropolitan Water District of Salt Lake & Sandy FY2025 CAPITAL PROJECTS REPORT October 2024

Last updated: October 8, 2024

Routine Non-Capacity Improvement Projects

Salt Lake Aqueduct Replacement Reach 1 – Cottonwoods Conduits (SA061)

Purpose: New pipeline to connect LCWTP and BCWTP and for Phase 1 of SLAR.

Update:

Construction: COP Construction completed CC-1 pipe installation in Wasatch Boulevard and east in Big Cottonwood Road. Work is now moving west along Fort Union Boulevard. CC-1 is approximately 52% complete.

Whitaker Construction is working on utility relocation in Fort Union Boulevard and preparing staging and access for SLAR construction. Pipe is on order.

Easement Acquisition: Fifteen easements have yet to be acquired. Two have occupancy agreements. Condemnation was approved on August 12 for two properties and three properties in September. The goal is to obtain easements or occupancy on all properties by the end of 2024.

Public Involvement: The public involvement team continues to engage the public as needed.



September 9: Pipe 148 was installed. This section of pipe was signed by District staff and project stakeholders during the media event in August 2024.



October 1: Pipe is loaded at the LCWTP to be taken to Fort Union for installation.



October 4: Utility conduits are installed above the pipe (and to a pull vault).

Cottonwoods Connection Budget Update

Design				
Design Engineer:	Hazen and Sawyer		Contract:	\$3,676,582
			Spent:	\$3,455,429
Public Involvement:	Wall Consulting Group		Contract:	\$108,389
			Spent:	\$83,345
Fiscal Year:	2022	2023	2024	Total
MWDSLS ¹	\$27,888	\$1,291,715	\$948,726	\$2,268,330
SLCDPU	\$13,424	\$910,216	\$346,805	\$1,270,445
Total	\$41,312	\$2,201,931	\$1,295,531	\$3,538,775

¹ MWDSLS design costs were paid up front by SLCDPU and will be reimbursed during construction.

Right of Way Acquisition²				
ROW Consultant:	Davenport Consulting			
Fiscal Year:	2024	2025	2026	Total
Budgeted ³ :	\$3,200,000	\$1,920,000		\$3,200,000
Land Acquisition	\$1,228,716	\$563,957		\$1,701,014
Consulting	\$40,350	\$10,800		\$40,350
Survey / Appraisals	\$10,400	\$8,600		\$19,000
Total	\$1,279,466	\$583,357		\$1,760,364

² Right of Way Acquisition paid by MWDSLS.

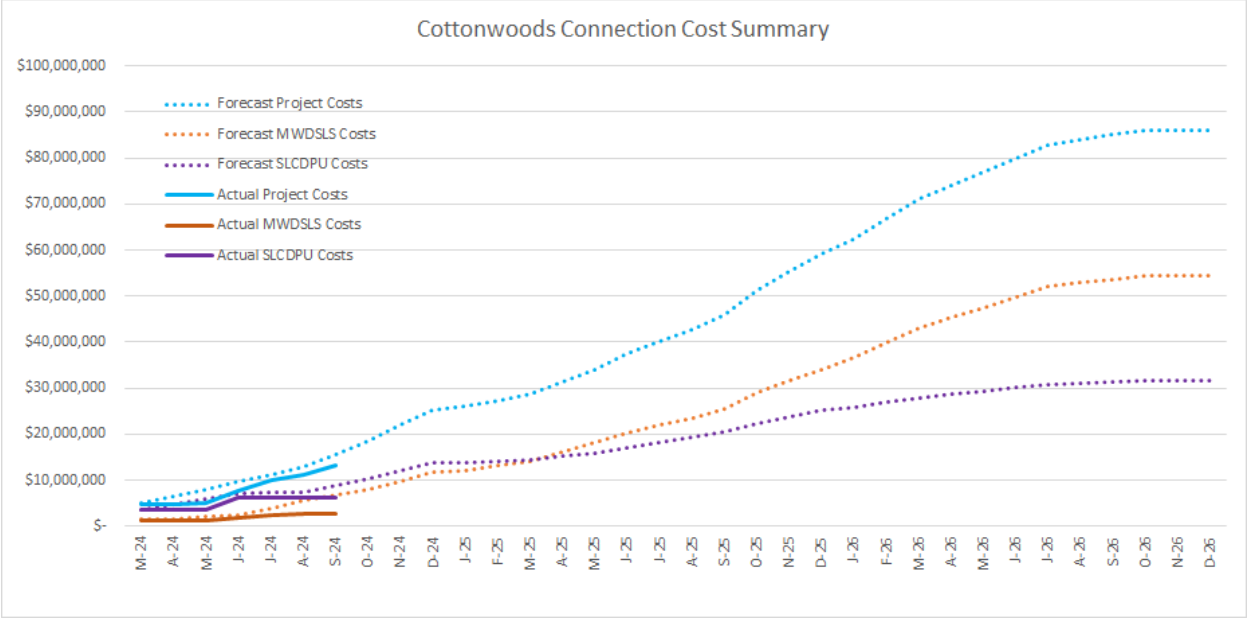
³ Annual budgets reflect unspent balances and will not add up to total budget.

Construction					
Contractor:	COP Construction (CC-1, CC-2)		Contract:	\$13,059,523	
			Changes:	\$21,573 / 0.17%	
	Whitaker (SLAR)		Contract:	\$57,269,309	
			Changes:	\$47,956 / 0.08%	
Engineer Support:	Hazen and Sawyer		Contract:	\$1,993,086	
			Changes:	\$0 / 0.00%	
Public Involvement:	Kimley-Horn		Contract:	\$112,360	
			Changes:	\$0 / 0.00%	
Fiscal Year:	2024	2025	2026	2027	Total
Budgeted:	\$5,000,000	\$33,958,319			\$86,093,919
SLAR ⁴	\$482,133	\$894,562			\$1,119,479
CC-1/CC-2 ⁵	\$2,250,217	\$3,706,338			\$3,450,470
ESDC	\$195,249	\$210,631			\$303,891
Pub. Involve.	\$21,455	\$36,248			\$57,703
Utility Relocate	\$0	\$0			\$0
Miscellaneous	\$15,095	\$7,115			\$15,595
Spent:	\$2,964,149	\$4,854,894			\$4,947,138
MWDSLS	\$438,441	\$744,944			\$973,693
SLCDPU	\$2,525,707	\$4,109,950			\$3,973,446

⁴ Costs associated with the SLAR are split 110/145 MWDSLS and 35/145 SLCDPU.

⁵ Costs associated with CC-1 and CC-2 are paid by SLCDPU.

Total Project Budget				
	Design	ROW	Construction	Total
MWDSLS	\$2,268,330	\$3,200,000	\$49,021,481	\$54,489,811
SLCDPU	\$1,270,445	\$0	\$30,333,320	\$31,603,764
Total	\$3,538,775	\$3,200,000	\$79,354,801	\$86,093,576



The forecast project costs in the table above represent project costs based on preliminary construction schedules provided by the contractors.

Salt Lake Aqueduct Replacement Reaches 2 and 3 (SA063)

Purpose: Project scoping for a new pipeline to provide resiliency to the SLA and meet contractual delivery obligations.

Update: The District anticipates receiving a BRIC grant for project scoping.

District Project Manager:	TBD
Design Engineer:	TBD
Preliminary Design Completion Date:	TBD
FY25 Budget:	\$200,000.00
FY25 Contract Amount:	TBD
Change Orders / Percent:	\$0.00 / 0.0%
Spent to Date:	\$0.00
District Purchases:	\$0.00
FY25 Expenses to Date / Percent Spent:	\$0.00 / 0.0%

Salt Lake Aqueduct Hardening (SA062)

Purpose: Preliminary design to evaluate replacement and sliplining of the SLA for seismic stability.

Update: A kickoff meeting was held August 29. The consultant is gathering data and preparing for a series of workshops in 2025 to discuss geotechnical hazards and construction options.

District Project Manager:	Kelly Stevens
Design Engineer:	Bowen Collins & Assoc.
Preliminary Design Completion Date:	December 31, 2025
Project Budget:	\$2,000,000.00
Contract Amount:	\$2,000,000.00
Change Orders / Percent:	\$0.00 / 0.0%
Spent to Date:	\$51,286.28
District Purchases:	\$0.00
FY25 Expenses to Date / Percent Spent:	\$51,286.28 / 2.6%

Little Cottonwood Conduit Replacement and Intake Modifications (LC069)

Purpose: Preliminary design to replace the raw water LCC and modify the lower intake structure.

Update: A feasibility workshop was held on July 22. A report is expected by October 31.

District Project Manager:	Gardner Olson	
Design Engineer:	Bowen Collins & Assoc.	
Preliminary Design Completion Date:	June 30, 2024	
	FY24	FY25
Budget:	\$200,000	\$1,000,000.00
Contract Amount (to date):	\$200,000	\$60,044.83
Change Orders / Percent:	\$0.00 / 0.0%	\$0.00 / 0.0%
Spent (to date):	\$135,177.17	\$38,251.22

District Purchases:	\$0.00	\$0.00
Total Expenses to Date / Percent Spent:		\$173,428.39 / 14.5%

Little Cottonwood Water Treatment Plant Administration Campus Improvements (LC071)

Purpose: Design of a new server room and improve Administration Building landscaping and parking.

Update: Staff reviewed three options and associated costs provided by the consultant. A fourth option is now being considered, and a revised report expected in the coming weeks.

District Project Manager:	Ammon Allen
Design Engineer / Contractor:	GSBS Architects
Final Completion Date:	June 30, 2024
FY25 Budget:	\$250,000.00
Contract Amount:	\$54,960.00
Change Orders / Percent:	\$0.00 / 0.0%
Spent to Date:	\$0.00
District Purchases:	\$0.00
Expenses to Date / Percent Spent:	\$0.00 / 0.0%

Fleet Program Replacement

Purpose: Replace three pick-ups.

Update: A ¾-ton pickup was received and will be equipped with a utility bed. Two ½-ton pickups were received and are in service.

District Project Manager:	Michael Carter
Project Budget:	\$185,000.00
Project Spent to date:	\$152,430.52 / 82.4%

Little Dell Dam Improvements

Purpose: Improvements as identified by Salt Lake City Department of Public Utilities.

Update: No report of work to date.

District Project Manager:	Bernard Mo, SLCDPU
Project Budget:	\$430,000.00
Project Spent to date:	\$0.00 / 0.0%

Repair and Replace

LCWTP Ozone Control Valve Replacement

Purpose: This is year two of four to replace the LCWTP ozone system control valves. Some of these valves will be replaced and others reconditioned. New valves fall within the capital budget.

Update: No progress to date.

District Project Manager:	Gardner Olson
Project Budget:	\$12,000.00
Project Spent to date:	\$0.00 / 0.0%

LCWTP Chlorinators Replacement

Purpose: Parts for the LCWTP chlorinators are no longer available, and staff was unsuccessful in finding compatible replacements. The chlorinators will be replaced two per year for three years.

Update: No progress to date.

District Project Manager:	Steve Slack
Project Budget:	\$30,000.00
Project Spent to date:	\$0.00 / 0.0%

POMFWP Perimeter Fence

Purpose: The POMWTP is fenced on the north and east. Security concerns suggest the need to fence the south and west sides of the plant.

Update: Staff is preparing documents for bidding.

District Project Manager:	Augusto Robles
Contractor:	TBD
Final Completion Date:	June 30, 2025
Project Budget:	\$160,000.00
Contract Amount:	TBD
Spent to Date:	\$0.00
Other Costs:	\$0.00
Project Spent to date:	\$0.00 / 0.0%

Annual Network Server Replacement

Purpose: The District operates servers on multiple networks. These servers have a life expectancy of seven years. New servers host the most critical services for the first three to five years of the lifecycle and then are moved to a less critical role for the remainder of the life cycle.

Update: Staff is obtaining quotes and preparing to purchase new servers.

District Project Manager:	Darin Klemin
Project Budget:	\$70,000.00
Project Spent to date / Percent Spent:	\$0.00 / 0.0%

LCWTP UPS Replacement

Purpose: The uninterruptable power supply in the LCWTP pipe gallery is in need of replacement.

Update: No progress to date.

District Project Manager:	Scot Collier
Project Budget:	\$100,000.00
Project Spent to date / Percent Spent:	\$0.00 / 0.0%

Real Property Acquisition

Purpose: The District was approached with the option to purchase property along the SLA Corridor. The property is partially encumbered by District easement. Procurement of this property is advantageous for protecting the SLA and its future refurbishment and/or replacement(s).

Update: An appraisal was received. Staff is coordinating with the owner and related parties.

District Project Manager:	Ammon Allen
Project Budget:	\$400,000.00
Project Spent to date / Percent Spent:	\$0.00 / 0.0%

Miscellaneous

Purpose: This item is set aside for unanticipated capital expenditures.

Update: No expenses to date.

District Project Manager:	Ammon Allen
Project Budget:	\$100,000.00
Project Spent to date / Percent Spent:	\$0.00 / 0.0%

Capacity Improvement Projects

Managed Aquifer Recharge Pilot Testing and Phase 1 (LC063)

Purpose: The District constructed two infiltration basins and an injection well at the LCWTP. These facilities will recharge an estimate 29 acre-feet of water into the aquifer per day. The water can then be extracted through any number of customer-owned wells down-gradient and within the same aquifer.

Update: Construction is on hold with the well house, transformer, and ancillary piping on order. All work except the transformer is anticipated to be complete by December 31, 2024. The electric transformer is anticipated to arrive in April 2025.

Design				
District Project Manager:	Ammon Allen			
Design Engineer:	Hansen, Allen and Luce			
Final Completion Date:	December 31, 2024			
Implementation Plan Spent (FY21):	\$78,487.55			
Engineering Design Contract Amount:	\$961,937.15			
Fiscal Year:	2022	2023	2024	2025
Spent to date:	\$78,431.03	\$420,598.75	\$243,698.30	\$11,384.04
Engineering Design Spent to date:	\$754,112.12 / 78.4%			

Wells Construction	
Contractor:	Hydro Resources
Final Completion Date:	June 30, 2024
Contract Amount:	\$3,674,441.00
Change Orders / Percent:	-\$321,449.97 / -8.75%
Total Spent:	\$3,352,991.03 / 100.0%

SIB and Infrastructure Construction		
Contractor:	COP Construction	
Final Completion Date (est.):	July 25, 2025	
Contract Amount:	\$5,550,687.00	
Change Orders / Percent:	-\$11,727.75 / -0.2%	
Fiscal Year	2024	2025
SIB and Infrastructure Spent to date	\$4,012,619.25	\$97,890.00
Total Spent to date:	\$4,110,509.25 / 73.4%	

Other Project Costs	
Integration (SKM):	\$827.50
District Purchases	\$1,204.00

Total Project Budget:	\$10,821,309.10
Total Project Spent to date:	\$8,316,531.28 / 76.9%

**Jordan Valley Water Conservancy District (JVWCD)
Jordan Aqueduct System and 150th South Pipeline – Capital Projects**

The District is responsible for 2/7 of Jordan Aqueduct (JA) system improvements which include JA Reaches 1 – 4, Jordan Valley Water Treatment Plant (JVWTP), and the JA Terminal Reservoir. The District is responsible for one half of improvements associated with the 150th South pipeline. Projects identified for FY2025 include:

Rehabilitation or Replacement of Existing Facilities

- JVWTP Replace Filter Media \$ 144,790
- Normal Small Capital Improvements \$ 146,866
- JA Normal, Extraordinary Maintenance and Replacement \$ 330,242
- JVWTP Normal, Extraordinary Maintenance and Replacement \$ 259,429
- 150th South Pipe Normal Maintenance and Replacement \$ 10,000

New Non-Capacity Facilities (Compliance/Functional Upgrade)

- JVWTP Filter and Chemical Feed Upgrades \$ 431,210
- JVWTP Floc/Sed 1-2 Seismic Upgrade \$ 200,000
- Jordan Aqueduct Seismic Resiliency \$ 5,376

JVWTP Project Management Expenses \$ 50,000

Total Request FY2025: \$1,577,913

The following report is taken from JVWCD’s September 2024 board packet and covers July 11, 2024 to August 16, 2024.

Work on the Administration Building Roof began on the east side of the skylight by installing drip edge, fascia, and roof flashings. The contractor is installing the standing seam metal roof on the building’s east side.

The consultant is gathering and reviewing applicable seismic documents for the Jordan Aqueduct Seismic Resiliency Study.

The consultant delivered 60% specifications and drawings for the JVWTP Filter and Chemical Feed Upgrades and Expansion Project. The project is scheduled to bid for construction in Spring 2025.

The JVWTP Sedimentation Basins 1-2 Seismic and Capacity Upgrades Project did not receive BRIC grant funding. The District is evaluating resubmitting a renewed request for 2025 funding. A bid date has not been selected.

CALENDAR 2024

October

- 1 Management Advisory Committee Meeting – 8:30 a.m.
- 1 Finance Committee Meeting – 10:00 a.m.
- 8 Executive Committee Meeting – 8:30 a.m.
- 15 Utah Water Law Conference, Salt Lake City, UT
- 15 Utah Water Summit – Layton, UT
- 17 SCPUAB Meeting – 7:30 a.m.
- 21 MWDSLS Work Session – 3:30 p.m.
- 21 MWDSLS Board Meeting – 4:30 p.m.
- 24 SLCPUAC Meeting – 7:30 a.m.
- 31 PRWUA Board Meeting -10:00 a.m.

November

- 6-8 Utah Association of Special Districts Convention, Layton, UT
- 6-8 National Water Resources Association Annual Conference, Albuquerque, NM
- 19 Engineering Committee Meeting - 10:00 a.m.
- 21 SCPUAB Meeting – 7:30 a.m.
- 21 PRWUA Board Meeting -10:00 a.m.

December

- 4-6 Colorado River Water Users Association Conference, Las Vegas, NV
- 10 Environmental Committee Meeting - 10:00 a.m.
- 16 MWDSLS Work Session – 3:30 p.m.
- 16 MWDSLS Board Meeting – 4:30 p.m.

MWDSLS – Metropolitan Water District of Salt Lake & Sandy
PRWUA – Provo River Water Users Association
SLCPUAC – Salt Lake City Public Utilities Advisory Committee
SCPUAB – Sandy City Public Utilities Advisory Board

Last 10/9/24

January 2024						
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February 2024						
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March 2024						
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31						

April 2024						
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May 2024						
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June 2024						
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July 2024						
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August 2024						
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September 2024						
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October 2024						
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November 2024						
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December 2024						
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29	30	31				

MWDSLS Board of Trustees

EVENT	TIME
Work Session	3:30 PM
Board Meeting	4:30 PM
Feb/June Public Hearing	6:00 PM
Management Advisory Committee	8:30 AM
Executive Committee	8:30 AM
Environmental Committee	10:00 AM
Engineering Committee	10:00 AM
Finance Committee	10:00 AM
Holidays	

EVENT	DATE
Utah Water Users Workshop – St. George, UT	March 18-20
AWWA National – Anaheim, CA	June 10-13
Intermountain Section AWWA - Kanab	Sept 10-12
Utah Association of Special Districts - Layton	Nov 6-8
NWRA Annual Conference – Albuquerque, NM	Nov 6-8
CRWUA – Las Vegas, NV	Dec 4-6

2024

THE METRO UPDATE



VECTOR TRUCK REPAIRS

Metro Water's Vactor truck was purchased in 1995 and has been used many times for projects including replacing the media in filters and potholing around existing pipes and structures. Unfortunately, the truck has reached the end of its designed life; however, a new Vactor truck is upwards of \$800,000. After a thorough inspection, it was confirmed that Metro Water's current truck is still in good condition. The truck's tank was sand blasted and cleaned, patches were welded, and a new epoxy coating was applied. With some additional mechanical repairs, the Vactor truck is expected to last another 10 years.



ACCOMODATING GATE REPLACEMENT

The intake gate replacement project at Deer Creek Dam has made it necessary to cut flows during the day while divers are in the water completing the replacement. This required water systems in the Salt Lake Valley, including Metro Water, to minimize outlet flows at Deer Creek reservoir and maintain Utah Lake levels while continuing to utilize Provo River water via energy absorbers at the Jordan Narrows Pump Station. Metro Water also adjusted the treated flows at Point of the Mountain Water Treatment Plant several times during the month of September in order to meet water demands. These efforts, and collaboration with other water entities, provided safety for the divers and contributed to the success of the project. Our Operations staff did an excellent job of adjusting in order to maintain sufficient water supply.

OZONE ASSESSMENT

The ozone generators at Little Cottonwood Water Treatment Plant (LCWTP) recently underwent an assessment, as they were projected to be reaching their end of life. Xylem completed the assessment by running the generators at 10% concentration while closely monitoring readings on the equipment. The numbers are then used to calculate the efficiency values. Ozone is a primary disinfectant at LCWTP, so it is critical to ensure the generators work properly. Xylem's report recommended some replacement parts, but overall, the generators are running as they should. This ozone assessment will be added as a preventative maintenance task to be completed every five to ten years. We are grateful each department at Metro Water does their part to keep the ozone generators in good condition by maintaining the system and being proactive to prevent an accident or emergency.

FINANCIAL AUDIT

Metro Water is required to have an independent financial audit completed every year to conform with state law. Our independent auditor reviews financial records to obtain reasonable assurance that our financial statements fairly present the financial position of Metro Water, in all material respects. It is a process that takes several months to complete by our Accountant, Josh Croft, in conjunction with our accounting consultants. This year, the auditors have once again issued an unmodified opinion, or a "clean audit," meaning they believe the financial statements fairly present our financial position. The audit process is highly involved and we truly appreciate the hard work and effort that contributed to another successful year.

HUMAN RESOURCES

New employee:
Anthony Wallace - Facilities Technician

Anniversary:
Jeffery T Matheson - Maintenance Technician: 10 years

Metro Water will be hosting a donation drive for food and supplies in the month of December. Donation drop off will be at the LCWTP. More information will be shared when available.

GEOSMIN SPIKE TREATED WITH OZONE

In mid-August, Salt Lake City and Sandy City received calls from customers complaining of odor in their drinking water. Many described the odor as musty or earthy. It was later determined that this was caused by an unusual spike of Geosmin (4, 8a dimethyl-decahydronaphthalene-4a-ol). Geosmin is a naturally occurring taste and odor compound. While it does not pose a threat to health, it can cause unpleasant taste and odor issues when present above sensory thresholds.

Jordan Valley Water Conservancy District (JVWCD) monitors for Geosmin in Deer Creek Reservoir throughout the summer, but the high levels and persistence of the compound in mid-August was unexpected. The reservoir is one of our two main sources of water for treatment purposes to supply drinking water primarily to Salt Lake City and Sandy City. Laboratory staff sampled Deer Creek and Metro Water's finished water for Geosmin during this event and JVWCD increased their monitoring of Deer Creek to every week.

The determination was made to increase the ozone disinfection at both our Point of the Mountain Water Treatment Plant and Little Cottonwood Water Treatment Plant in order to minimize the taste and odor effects on the finished water supply to our customers. We maintained this enhanced ozone disinfection for 20 days until we determined that the Geosmin event was diminished. At the point of having minimal Geosmin results, we returned our treatment process to normal operational modes.