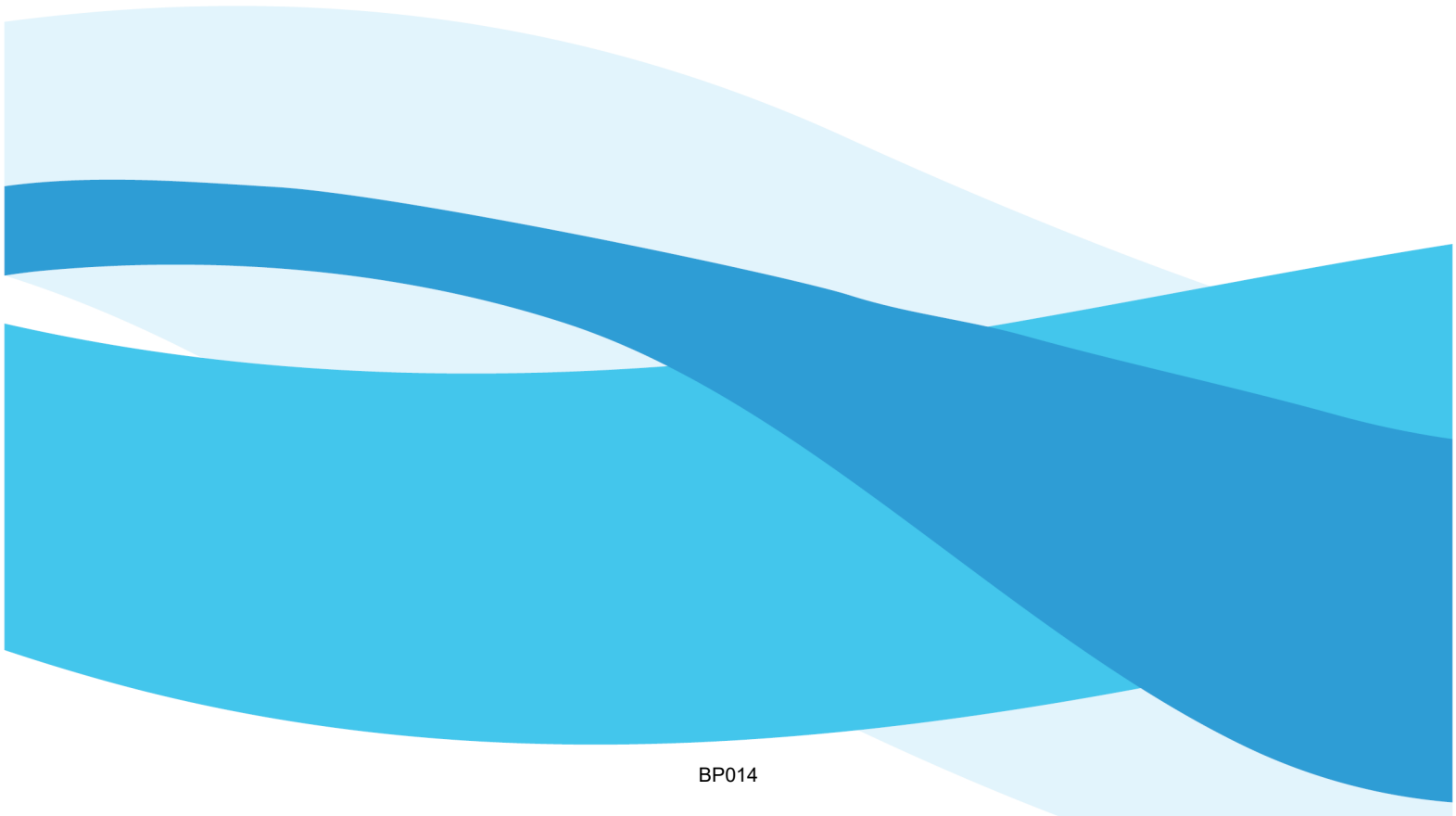


Tab 5

Engineering Committee report





Consider approval of Task Order No. 03 for Little Cottonwood Conduit Resiliency expanded design services

Background:

Metro Water receives water from Little Cottonwood Creek through the Murray Hydroplant Penstock (Murray intake or upper intake) and the Little Cottonwood Creek Intake Structure (lower intake). Murray has a nonconsumptive right to generate power; the water is then diverted into a tailrace and directed either into the Little Cottonwood Water Treatment Plant (LCWTP) or back to Little Cottonwood Creek. The hydroplant has been offline regularly over the past several years for maintenance.

The lower intake conveys water to the LCWTP through the 1932-era Little Cottonwood Conduit (LCC). The 36" x 40" reinforced concrete pipe can convey about 30 MGD. Neither the LCC nor the penstock pipe is capable of conveying all of Metro Water's water rights portfolio to the LCWTP. Metro Water owns the lower intake and raw water segment of the LCC, which receives both member cities' Little Cottonwood Creek water rights.

Metro Water's 2020 Master Plan recommends replacing the LCC from the lower intake to the LCWTP to reduce dependency on the penstock and improve performance in hazard events. In fiscal year 2023, Bowen Collins & Associates was selected for this project. Bowen Collins & Associates completed a basis of design in May 2023. The consultant completed a preliminary geotechnical and alignment study in October 2024. The team completed a project prioritization, risk analysis, and cost estimate evaluation in June 2025.

The board awarded the consultant \$1,013,950 in September 2025 for final design. The board awarded the CM/GC (Garney) \$154,195 in April 2026 to support final design. The final design is currently at 90% completion, with completion anticipated in fiscal year 2027.

The consultant expects to spend an additional \$150,000 to complete the design. The increase in the design fee is the result of necessary scope additions, which include additional utility potholing, FEMA BRIC grant application support, permitting requirements in excess of existing task order assumptions, and other design modifications as a result of the CM/GC's value engineering process.

Although this agenda item is specific to a task order to Bowen Collins & Associates for \$150,000 for the identified services, staff would like to share how this will alter the annual allocation.

The fiscal year 2027 design budget is \$250,000, estimated based on the spend rates of the consultant and CM/GC. With fiscal year 2026 wrapped up, remaining approved contract balances include \$239,087.43 in design and \$87,197 in CM/GC services. These costs were encumbered but not spent in fiscal year 2026. To cover the amount remaining on the CM/GC contract, the additional \$150,000 task order requested for the consultant, and anticipated permitting fees, staff would like to reallocate \$240,000 from the construction task budget to the design task budget, as follows:

Task	Allocated budget	Proposed budget	Change
Design	\$250,000	\$490,000	Increase of \$240,000
Construction	\$6,000,000	\$5,760,000	Decrease of \$240,000
Engineering Services During Construction	\$240,000	\$240,000	None
Public Involvement	\$5,000	\$5,000	None
Contingency	\$600,000	\$600,000	None
Total	\$7,495,000	\$7,495,000	



This transfer does not modify the total allocated budget for the project in fiscal year 2027.

Committee Activity:

The Engineering Committee reviewed the task order on September 1, 2026, and recommended approval by the full board.

Recommendation:

Approve Task Order No. 03 with Bowen Collins & Associates for Little Cottonwood Conduit Resiliency expanded design services for \$150,000.

Attachment:

- Task Order No. 03

Last Update: September 3, 2026

TASK ORDER NO. 03

Raw Water Little Cottonwood Conduit Resiliency Project

PHASE 3 FINAL DESIGN AMENDMENTS

DISTRICT ACCOUNT NO. 1827-10

This task order is issued by the Metropolitan Water District of Salt Lake & Sandy (Metro Water) pursuant to the Professional Services Agreement between Metro Water and Bowen Collins & Associates ("Engineer") dated September 13, 2023.

SERVICES

Refer to Attachment A.

COMPENSATION

Compensation is based on an hourly rate and expenses basis with a maximum limit not to exceed of \$150,000.00 for completing all the services described in "SERVICES" above.

PERIOD OF SERVICES

The services under this task order shall commence on the execution date below and shall be completed by June 30, 2027.

DELIVERABLES

Refer to Attachment A.

OTHER REQUIREMENTS

None.

ACCEPTANCE DUE DATE

This task order must be accepted as soon as possible.

The parties executed this task order effective September __, 2026.

METRO WATER:

Metropolitan Water District of
Salt Lake & Sandy

ENGINEER:

Bowen Collins & Associates

By: _____

Annalee Munsey, General Manager

By: _____

Jason Luettinger, Principal

Attachment A

Scope of Services

Metropolitan Water District of Salt Lake & Sandy

Raw Water Little Cottonwood Conduit Resiliency Project

PHASE 3 FINAL DESIGN AMENDMENTS

Bowen Collins & Associates Scope of Services

Date: August 20, 2026
Project: Resilient Raw Water Little Cottonwood Conduit Project
Project Manager: Ryan Egbert
Project Location: Cottonwood Heights, Utah

Background

Metro Water receives water from Little Cottonwood Creek through the Murray Hydroplant Penstock (Murray intake or upper intake) and the Little Cottonwood Creek Intake Structure (lower intake). Murray has a nonconsumptive right to generate power; the water is then diverted into a tailrace and directed either into the Little Cottonwood Water Treatment Plant (LCWTP) or back to Little Cottonwood Creek. The hydroplant has been offline regularly over the past several years for maintenance.

The lower intake conveys water to the LCWTP through the 1932-era Little Cottonwood Conduit (RWLCC). The 36" x 40" reinforced concrete pipe can convey about 30 MGD. Neither the RWLCC nor the penstock pipe is capable of conveying all of Metro Water's water rights portfolio to the LCWTP.

Metro Water's 2020 Master Plan recommends replacing the RWLCC from the lower intake to the LCWTP to reduce dependency on the penstock and improve performance in hazard events. In fiscal year 2023 Bowen Collins & Associates was selected for this project and a professional services agreement was approved for work through June 30, 2027. A basis of design was completed in May 2023. A preliminary geotechnical and alignment study was completed in October 2024. A project prioritization, risk analysis, and cost estimate evaluation were completed in June 2025. In September 2025, the board awarded a task order to Bowen Collins & Associates for final design. Completion of the final design is anticipated in fiscal year 2027.

The following work plan defines additional engineering services necessary to complete the final design that were not included in the scope of services approved in September 2025.

Work Plan

Task 1 Final Design

At 30% design, Metro Water directed BC&A to modify the final design based on a pre-construction value engineering proposal from the CM/GC to reduce estimated construction costs. Modifications included design changes to the retaining wall, preparation of cross sections at 25-foot intervals to support contractor cost evaluations, additional utility potholing investigation, and preparation of additional plan sheets and supporting documentation. These design modifications increase the level of effort beyond that included in the September scope of services.

Task 4 FEMA BRIC Grant

Metro Water is pursuing federal funding for project construction through the FEMA BRIC program. BC&A will provide documentation and analyses to support grant application development. BC&A will provide

review comments, a benefit cost analysis, cost estimates and design drawings conforming to grant application requirements, and site figures to be used in the FEMA BRIC grant application. If requested, BC&A will revise the provided application materials responsive to design-related feedback from FEMA or Utah Division of Emergency Management.

Task 5 Sandy and Salt Lake County SLEDS

BC&A will coordinate with Sandy City and Salt Lake County/Municipal Services District to address sensitive lands ordinances within these jurisdictions. BC&A will support Metro Water with permitting requirements for these jurisdictions including development of application materials, meeting attendance, and coordination.

Task 6 Ramp and No-Rise Permitting

In September 2025, the project final design included six elements:

1. RWLCC metering and turnout vault for farmer's gate
2. Connection of RWLCC to 84-inch grit basin header at LCWTP
3. SLA wasteway improvements
4. ASR pipeline extending to existing surface infiltration basins
5. RWLCC pipeline
6. RWLCC intake modifications

During design, Metro Water requested SLA wasteway improvements (element 3) be removed from the design scope. Metro Water requested the addition of a new element (element 7) that includes design of an access ramp at the RWLCC intake structure supporting future in-stream maintenance and construction of intake structure modifications. BC&A will provide engineering plans and technical specifications for the access ramp as part of project final design. If requested, during final design, BC&A will perform required evaluations to support Metro Water in applying for a no-rise certification for the construction of the access ramp. Any additional evaluations required for a conditional letter of map revision (C/LOMR) are not included.

For an updated project sheet list, see Attachment B.

Task 7 Landscape Restoration

BC&A will provide landscape restoration plans and specifications with the final design that meet the requirements of easement agreements and permits from relevant project jurisdictions. This includes erosion control, silt fencing, and reseeding. This does not include the design of an irrigation system.

Budget Assumptions

The following are excluded from BC&A's scope of work:

1. C/LOMR evaluations and applications.
2. Tasks 4, 5, 6, and 7 include allowance-based budgets because the level of effort required for these tasks will be influenced by requirements and decisions of jurisdictions and stakeholders outside of Metro Water's control. BC&A will coordinate closely with Metro Water throughout the project to prioritize and allocate these allowance funds to support the tasks that are ultimately required. If the requirements imposed by other jurisdictions result in a greater level of effort than anticipated, BC&A will coordinate with Metro Water regarding the need for additional budget authorization.
3. The landscape restoration scope does not include the design of an irrigation system.

Schedule

Work on Phase 3 Final Design Amendments is anticipated to be complete by June 30, 2027.

Budget

The budget includes the fee for Task 1 and Tasks 4 through 7. Services will be provided on an hourly time and materials basis within the not-to-exceed amount of \$150,000. A detailed breakdown of hours and expenses is provided in Attachment C fee schedule.

Attachment B

Updated Sheet List

Resilient RWLCC Project
Metropolitan Water District of Salt Lake & Sandy

No.	Sheet	Description
1	G-01	TITLE PAGE, PROJECT LOCATION MAP, AND VICINITY MAP
2	G-02	INDEX OF DRAWINGS
3	G-03	ABBREVIATIONS
4	G-04	SYMBOLS
5	G-05	GENERAL NOTES
6	G-06	OVERALL DRAWING INDEX MAP
7	G-07	OVERALL SURVEY CONTROL PLAN
8	G-08	OVERALL HYDRAULIC PROFILE AND DESIGN CRITERIA
9	G-09	SCHEMATIC RAW WATER CONVEYANCE PLAN
10	G-10	HORIZONTAL CONTROL
11	PP-01	FINAL GRADING PLAN AND PROFILE - 01
12	PP-02	FINAL GRADING PLAN AND PROFILE - 02
13	PP-03	FINAL GRADING PLAN AND PROFILE - 03
14	PP-04	WALL CONSTRUCTION PLAN AND PROFILES - 01
15	PP-05	WALL CONSTRUCTION PLAN AND PROFILES - 02
16	PP-06	WALL CONSTRUCTION PLAN AND PROFILES - 03
17	PP-07	RWLCC PIPELINE PLAN AND PROFILE - 01
18	PP-08	RWLCC PIPELINE PLAN AND PROFILE - 02
19	PP-09	RWLCC PIPELINE PLAN AND PROFILE - 03
20	PP-10	GABION WALL PLAN AND PROFILES - 01
21	PP-11	GABION WALL PLAN AND PROFILES - 02
22	PP-12	COUNTY ROAD PLAN AND PROFILE - 01
23	PP-13	LCC INTAKE SITE PLAN AND PROFILE
24	PP-14	ASR PIPELINE PLAN AND PROFILE
25	PP-15	CID SEWER LINE REPLACEMENT PLAN AND PROFILE - 01
26	PP-16	CID SEWER LINE REPLACEMENT PLAN AND PROFILE - 02
27	PP-17	CID SEWER LINE REPLACEMENT PLAN AND PROFILE - 03
28	PP-18	CID SEWER LINE REPLACEMENT PLAN AND PROFILE - 04
29	C-01	TYPICAL CROSS SECTIONS - 01
30	C-02	TYPICAL CROSS SECTIONS - 02
31	C-03	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 01
32	C-04	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 02
33	C-05	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 03
34	C-06	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 04
35	C-07	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 05
36	C-08	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 06
37	C-09	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 07
38	C-10	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 08
39	C-11	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 09
40	C-12	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 10
41	C-13	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 11
42	C-14	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 12
43	C-15	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 13
44	C-16	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 14
45	C-17	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 15
46	C-18	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 16
47	C-19	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 17
48	C-20	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 18
49	C-21	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 19
50	C-22	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 20
51	C-23	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 21
52	C-24	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 22
53	C-25	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 23
54	C-26	CONSTRUCTION AND FINAL GRADING CROSS SECTIONS - 24
55	C-27	LCWTP CIVIL SITE PLAN
56	C-28	LCWTP CIVIL UTILITY PLAN

57	C-29	LCC INTAKE CIVIL SITE PLAN
58	C-30	LCC INTAKE ACCESS RAMP PLAN
59	C-31	LCC INTAKE SECTIONS AND DETAILS - 01
60	C-32	LCC INTAKE ACCESS SECTIONS AND PROFILES - 01
61	C-33	LCC INTAKE ACCESS SECTIONS AND PROFILES - 02
62	CP-01	CATHODIC PROTECTION - 01
63	CP-02	CATHODIC PROTECTION - 02
64	CP-03	CATHODIC PROTECTION - 03
65	L-01	LANDSCAPE RESTORATION - 01
66	L-02	LANDSCAPE RESTORATION - 02
67	L-03	LANDSCAPE RESTORATION - 03
68	S-01	METER AND TURNOUT VAULT BASE PLAN AND ROOF PLAN
69	S-02	METER AND TURNOUT VAULT SECTIONS
70	S-03	STRUCTURAL DETAILS
71	S-04	INTAKE STRUCTURE DEMOLITION PLAN, ELEVATION, AND SECTION
72	S-05	INTAKE STRUCTURE MODIFICATION PLAN, ELEVATION, AND SECTION
73	M-01	MECHANICAL EQUIPMENT AND PIPE SCHEDULE - 01
74	M-02	MECHANICAL EQUIPMENT AND PIPE SCHEDULE - 02
75	M-03	METER AND TURNOUT VAULT PLAN
76	M-04	METER AND TURNOUT VAULT SECTIONS
77	M-05	VALVE VAULT STRUCTURE PLAN AND SECTION
78	E-01	ELECTRICAL LEGENDS, NOTES, AND SYMBOLS
79	E-02	METER AND TURNOUT VAULT ELECTRICAL SITE PLAN
80	E-03	METER AND TURNOUT VAULT ELECTRICAL LIGHTING PLAN
81	E-04	METER AND TURNOUT VAULT ELECTRICAL PLAN
82	E-05	METER AND TURNOUT VAULT POWER ONE-LINE DIAGRAM AND PANEL SCHEDULE
83	E-06	METER AND TURNOUT VAULT CONTROL BLOCK DIAGRAM
84	E-07	LCC INTAKE/VALVE VAULT ELECTRICAL SITE PLAN
85	E-08	LCC VALVE VAULT ELECTRICAL PLAN
86	E-09	LCC INTAKE EXISTING POWER/CONTROL ONE-LINE DIAGRAM
87	E-10	LCC INTAKE/VALVE VAULT POWER ONE-LINE DIAGRAM AND PANEL SCHEDULE
88	E-11	LCC INTAKE/VALVE VAULT CONTROL BLOCK DIAGRAM
89	GC-01	GENERAL CIVIL DETAILS - 01
90	GC-02	GENERAL CIVIL DETAILS - 02
91	GC-03	GENERAL CIVIL DETAILS - 03
92	GC-04	GENERAL CIVIL DETAILS - 04
93	GC-05	GENERAL CIVIL DETAILS - 05
94	GC-06	GENERAL CIVIL DETAILS - 06
95	GC-07	GENERAL CIVIL DETAILS - 07
96	GC-08	GENERAL CIVIL DETAILS - 08
97	GC-09	GENERAL CIVIL DETAILS - 09
98	GC-10	GENERAL CIVIL DETAILS - 10
99	GC-11	GENERAL CIVIL DETAILS - 11
100	GL-01	GENERAL LANDSCAPE DETAIL - 01
101	GS-01	GENERAL STRUCTURAL NOTES
102	GS-02	GENERAL STRUCTURAL DETAILS - 01
103	GS-03	GENERAL STRUCTURAL DETAILS - 02
104	GS-04	GENERAL STRUCTURAL DETAILS - 03
105	GS-05	GENERAL STRUCTURAL DETAILS - 04
106	GS-06	GENERAL STRUCTURAL DETAILS - 05
107	GM-01	GENERAL MECHANICAL DETAILS - 01
108	GM-02	GENERAL MECHANICAL DETAILS - 02
109	GM-03	GENERAL MECHANICAL DETAILS - 03
110	GE-01	GENERAL ELECTRICAL DETAILS - 01
111	GE-02	GENERAL ELECTRICAL DETAILS - 02
112	GE-03	GENERAL ELECTRICAL DETAILS - 03

Attachment C

Fee Schedule

Final Design Amendment (Changes, Grants, Permitting, etc.)

Metro Water

Fee Schedule

LAST UPDATED: August 2026

						Subtotal Hours	Subtotal Labor	Subtotal Expenses	Expenses	Total Cost
	Labor Category	Project Engineer I	Civil Engineer III	Civil Engineer IV	Principal Engineer IX				Gerhart Cole	
	Staff	White	Howe	Egbert	Olsen					
	Labor Rate	\$144	\$167	\$178	\$238					
Task No.	Task Description									
1	Final Design									
1-1	To Date - Wall					37	\$ 20,000.00	\$0		\$ 20,000.00
1-2	Additional Potholing					0	\$ 1,100.00	\$0		\$ 1,100.00
						0	\$ -	\$0		\$ -
	Task 1 Sub-Total	0	0	0	0	37	\$ 21,100.00	\$0	\$0	\$ 21,100.00
2	Project Delivery Support Services									
2-1	To Date					181	\$ -	\$0		\$ -
	Task 2 Sub-Total	0	0	0	0	0	\$ -	\$0	\$0	\$ -
3	Engineering Services During Construction (ESDC) - FUTURE									
4	FEMA BRIC Grant									
4-1	To Date					74.5	\$ 11,751.00	\$0		\$ 11,751.00
4-2	Finalizing BRIC Grant Allowance	20	12	4	2	38	\$ 6,072.00	\$0		\$ 6,072.00
	Task 3 Sub-Total	20	12	4	2	38	\$ 17,823.00	\$0	\$0	\$ 17,823.00
5	Sandy & SLCo SLEDS									
5-1	To Date					71.25	\$ 10,225.00	\$0		\$ 10,225.00
5-2	SLCo / MSD FCOZ	60	26	20	2	108	\$ 17,018.00	\$0		\$ 17,018.00
5-3	Sandy City SAOZ	60	26	20	2	108	\$ 17,018.00	\$0		\$ 17,018.00
	Task 4 Sub-Total	120	52	40	4	216	\$ 44,261.00	\$0	\$0	\$ 44,261.00
6	Ramp and No-Rise Permitting									
6-1	To Date Ramp Design					86.5	\$ 15,000.00	\$6,100	\$6,100	\$ 21,100.00
6-2	To Date Additional Survey					0	\$ 220.00	\$0		\$ 220.00
6-3	No-Rise Permitting					0	\$ 28,258.00	\$0		\$ 28,258.00
6-4	Ramp Final Design					0	\$ 5,000.00	\$0		\$ 5,000.00
	Task 5 Sub-Total	0	0	0	0	0	\$ 48,478.00	\$6,100	\$6,100	\$ 54,578.00
7	Landscape Restoration									
7-1	To Date					18.5	\$ 3,500.00	\$0		\$ 3,500.00
7-2	Final Landscape Design					0	\$ 1,500.00	\$0		\$ 1,500.00
	Task 6 Sub-Total	0	0	0	0	0	\$ 5,000.00	\$0	\$0	\$ 5,000.00
	Total Hours	140	64	44	6	291				
	Total Cost						\$ 136,662.00	\$6,100	\$6,100	\$ 142,762.00

Expenses include:

Mileage reimbursement at \$0.75/mile



Engineering Committee reporting items: Presentation on Finished Water Strategic Conveyance Plan

Background:

During the discussion of agenda item 5(b) (Consider approval of Task Order for Little Cottonwood Conduit Return Assessment and Design) at the August 17, 2026, Board of Trustees meeting, Mr. Kirkham expressed concerns regarding the Professional Services Agreement (PSA) for the Finished Water Strategic Conveyance Plan. That PSA was approved in December 2025. As discussed during the Board meeting, Mr. Kirkham's concern was not with the task order (Task 700) being considered under agenda item 5(b), but other task orders under the same PSA; agenda item 5(b) flagged the issue for him.

Specifically, one task in the Finished Water Strategic Conveyance Plan (Task 600) included preliminary design of infrastructure to connect the SLAR to the SLA and the Little Cottonwood Water Treatment Plant. Under that task, the consultant completed a Basis of Design report in July 2026 which included 30-percent preliminary drawings. Mr. Kirkham contended that connecting the Little Cottonwood Water Treatment Plant to Fort Union Blvd via the SLAR is, in whole or in part, a Salt Lake City capacity improvement project. He was concerned about whether Salt Lake City or Sandy City has been involved in discussing this project and who is responsible for funding it. The Board requested additional information and deferred the discussion regarding this issue to a future meeting. Ms. Munsey confirmed that Metro Water would gather additional information and return to the Board with further details.

The following is a brief overview of the Finished Water Strategic Conveyance Plan, which will be discussed in greater detail during the September Board meeting.

The Finished Water Strategic Conveyance Plan includes four projects, as follows:

1. Evaluate hydraulic conditions and operational strategies to optimize conveyance and meet performance goals (*PSA Phase 1 – Tasks 200-500; budgeted \$634,545*).
2. Preliminary design to operate Cottonwoods Connection (including SLAR) as finished water with assumed abandonment of Salt Lake City's Little Cottonwood Conduit (*PSA Phase 2 – Task 600; budgeted \$165,455*). **This phase is suspended until a Memorandum of Understanding (MOU) is executed.**
3. Engineering Services During Construction (ESDC) for the construction of the design described above, to be issued as a change order to the Cottonwoods Connection (*PSA Phase 3*). This change order has not been budgeted or brought forward for approval.
4. Design for the new Little Cottonwood Conduit Return (Metro facility) and pump station to address the failing Little Cottonwood Conduit Return pump station (*PSA Addendum – Task 700; budgeted \$237,169*). The Board approved the scope of work during the August 17 Board meeting.

In response to Mr. Kirkham's concerns, Ms. Munsey and Ms. Cepernich revisited the MOU for the Cottonwoods Connection Project. That project contemplated that the SLAR would eventually be used as a finished water conveyance. However, at the time of the MOU, it was expected to occur as the last (third) phase of the project in several years, after completion of construction on the Big Cottonwood Water Treatment Plant and Little Cottonwood Water Treatment Plant. After the MOU was executed, Salt Lake City's timing of construction on the Big Cottonwood Water Treatment Plant changed.



The Cottonwoods Connection MOU (paragraph 2) provides,

SLAR will include blind flanges that will allow SLAR to be connected to turnout valves and meters that will eventually be tied to distribution facilities, including extension of the SLAR north to Terminal Reservoir. Such turnout valves, meters, and related vaults may in whole or in part be constructed in the future. Such turnout valves, meters, and vaults are not considered part of SLAR for purposes of this MOU and any costs associated with these will be allocated in the future in a manner consistent with the 2001 Interlocal.

It further identifies the SLAR as a Metro Water facility, with 24.14% (35/145) of the SLAR constituting a Capacity Capital Improvement.

The 2001 Interlocal (Article III.C.2), in turn, provides,

Prior to undertaking any binding commitments for the acquisition, construction and/or financing of any Capacity Capital Improvement, the District's General Manager shall notify the Director of the Salt Lake City Department of Public Utilities and the Director of the Sandy City Public Utilities Department in writing of the nature, scope, purpose, the estimated Engineering, Acquisition and Construction Costs of such proposed Capacity Capital Improvement and the proposed method for financing the proposed Capacity Capital Improvement. The District shall also notify the Director of the Salt Lake City Department of Public Utilities and the Director of the Sandy City Public Utilities Department of a reasonable time of not less than sixty (60) days, as determined by the District, for a response from the cities as described in Article III.C.4 below.

"Capacity Capital Improvement" is defined as "those capital improvements to be made by the District or with the District's participation which meet the following criteria: 1) the Engineer, Acquisition and Construction Costs of the District's portion of the capital improvement is expected to exceed \$500,000; and 2) the purpose of the capital improvement is to provide the District with new water treatment, storage and/or conveyance capacity."

Converting the SLAR to finished water will likely involve a Capital Capacity Improvement component. Under the Cottonwoods Connection MOU and 2001 Interlocal, this work would require a new MOU. This was not immediately recognized because the finished water phase was proceeding out of order from what was originally contemplated and on a somewhat accelerated schedule due to the potential interplay with the critical need to address the failing Little Cottonwood Conduit Return pump station (Project #4 above).

Staff from Metro Water, Salt Lake City Public Utilities, and Sandy City Public Utilities attended the monthly Member Cities Meeting on August 26, 2026. At this meeting, Ms. Munsey provided an overview of the four Finished Water Strategic Conveyance Plan projects. She discussed the need for a new MOU for design and construction work needed to operate the Cottonwoods Connection (SLAR) as a finished water pipeline (Projects #2 and 3 above). Per the 2001 Interlocal Agreement, the new MOU will define what aspects of the project are capacity and non-capacity. The Basis of Design report, which includes an Opinion of Probable Construction Costs (AACE Class 4), will help Metro Water and the Member Cities evaluate the timing of Project #3 above and designate capacity and non-capacity projects. This report also provides the necessary information to evaluate whether to move forward with construction of the finished water conversion.

Staff notified the consultant on August 27 to suspend all work until a new MOU has been executed.



Committee Activity:

During the September 1, 2026, Engineering Committee meeting, staff presented a detailed review of the Finished Water Strategic Conveyance Plan and its component projects. The committee provided feedback on the presentation and suggested changes for the presentation to be given to the full Board during the September 21 Board meeting.

Recommendation:

None. For informational and discussion purposes.

Last Update: September 14, 2026

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

Metro Water Project Manager: Kelly Stevens
Design Engineer: Hazen and Sawyer
Contractor (Schedule A/B): COP Construction
Contractor (Schedule C): Whitaker Construction

Project Description

New pipeline to connect LCWTP and BCWTP and for Reach 1 of SLAR.

Status

Design Status: 100%
Construction Status (Schedule A/B): 100%
Construction Status (Schedule C): 70%

Easement Acquisition: Occupancy is in place for all properties. Staff continues to complete permanent interest on one property.

Construction: Schedule A (CC-1 pipeline) is substantially complete. Schedule C (SLAR pipeline) is progressing. Whitaker Construction is running multiple crews installing the SLAR in Danish Road and in Deer Creek Road south of Bengal Boulevard.



The SLAR was installed across Bengal Boulevard and south into Deer Creek Road.



A rain storm on August 13 caused erosion and filled the SLAR with water and mud; the damage was quickly resolved.



The fiber duct bank was installed through Memorial Estates above the SLAR.

FY2027 Capital Projects Report
July 21 – August 20, 2026

Budget

Right Of Way Acquisition (Metro Water, 1802B-10)

Activity	Est. Budget	Encumbered	Total Spent	FY26-Spent	FY27 Spent
ROW Acquisition	\$4,205,000	\$3,971,063	\$3,695,913	\$3,695,913	\$-
Total	\$4,205,000	\$3,971,063	\$3,695,913	\$3,695,913	\$-
Annual Allocation					\$429,973

Construction (Metro Water, 1802C-10)

Activity	Est. Budget	Encumbered	Total Spent	FY26-Spent	FY27 Spent
Design	\$2,280,114	\$2,280,114	\$2,280,114	\$2,280,114	\$-
Construction (A/B)	\$-	\$-	\$-	\$-	\$-
Construction (C)	\$43,413,192	\$46,923,848	\$34,070,957	\$31,728,805	\$2,342,152
ESDC	\$2,054,727	\$3,865,831	\$1,515,103	\$1,448,828	\$66,275
Public Involvement	\$308,875	\$419,694	\$195,141	\$185,647	\$9,494
Utility Relocation	\$744,711	\$614,613	\$517,715	\$435,001	\$82,714
Contingency ¹	\$4,341,319				
Total	\$53,142,938	\$54,104,100	\$38,579,030	\$36,078,395	\$2,500,635
Annual Allocation					\$20,109,533

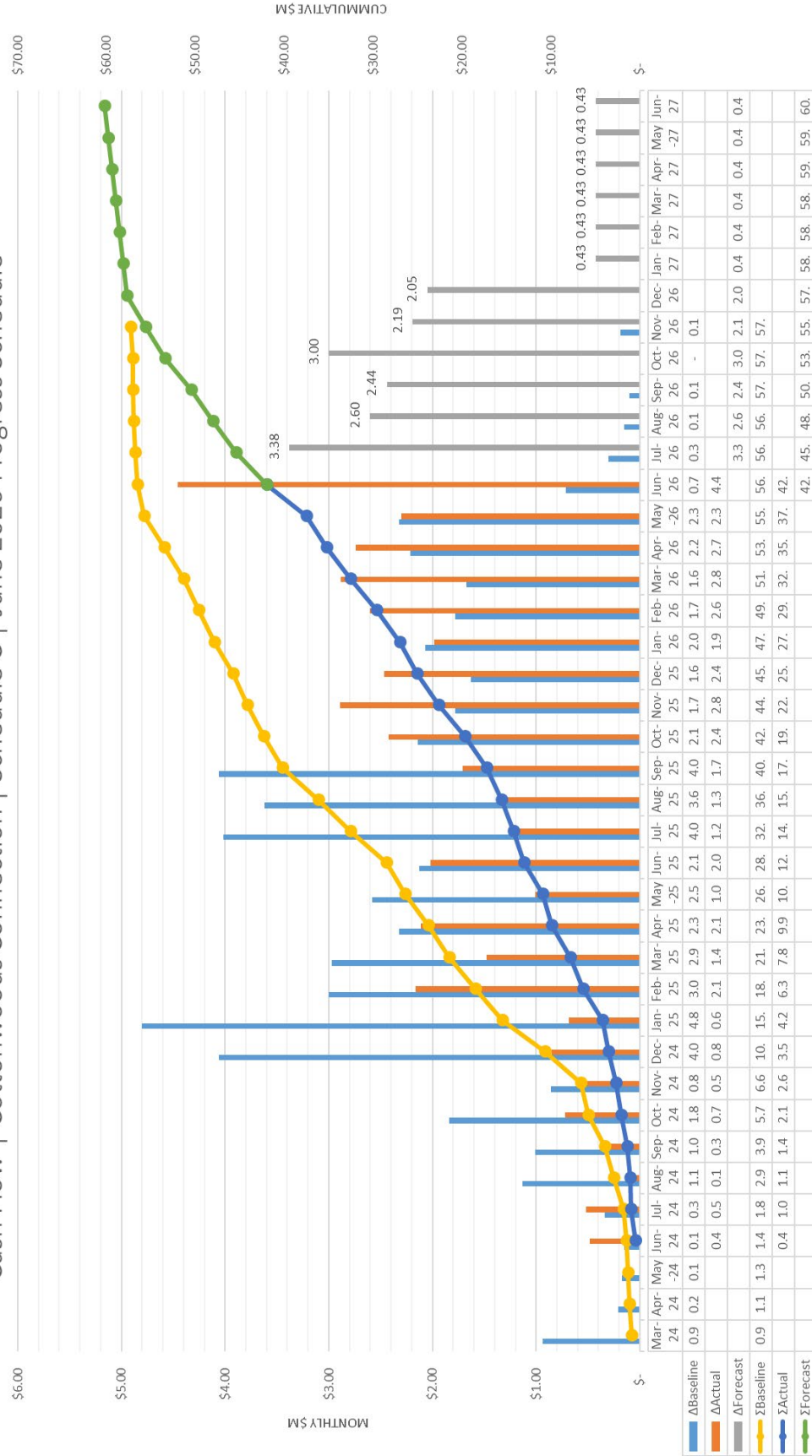
¹ Contingency is tracked with construction encumbrance.

Construction (Salt Lake City / Cottonwood Heights City, 5919-20)

Activity	Est. Budget	Encumbered	Total Spent	FY26-Spent	FY27 Spent
Design	\$1,277,736	\$1,277,736	\$1,277,736	\$1,277,736	\$-
Construction (A/B)	\$10,552,997	\$10,552,997	\$10,552,997	\$10,552,997	\$-
Construction (C)	\$16,057,295	\$15,071,028	\$11,017,515	\$10,249,268	\$768,248
ESDC	\$1,489,750	\$1,230,037	\$1,331,987	\$1,307,665	\$24,322
Public Involvement	\$191,125	\$248,775	\$112,350	\$106,475	\$5,875
Utility Relocation	\$755,289	\$622,337	\$683,064	\$656,745	\$26,318
Contingency ¹	\$2,661,029				
Total	\$32,985,221	\$29,002,910	\$24,975,649	\$24,150,886	\$824,763
Annual Allocation					\$7,000,000

¹ Contingency is tracked with construction encumbrance.

Cash Flow | Cottonwoods Connection | Schedule C | June 2026 Progress Schedule



Change Orders

Schedule A/B (CC-1, CC-2)

Change	Submitted	Description	Encumbrance		
			Total	SLCDPU	Cottonwood Heights
CO-AB01	5-Sep-24		\$ (55,976)	\$ (55,976)	
WCD-AB01		Sewer relocation at 229+00	\$ (37,799)		
WCD-AB02		Remove fire hydrant at 244+65	\$ (18,177)		
CO-AB02	5-Sep-24		\$ 77,549	\$ 77,549	
WCD-AB03		Change pipe backfill to CLSM	\$ 77,549		
CO-AB03	4-Apr-24				
WCD-AB04		Warranty changes			
CO-AB04	16-Apr-25		\$ 251,115	\$ 251,115	
WCD-AB05		Cancel CC-1 across creek	\$ (142,718)		
WCD-AB06		Sewer relocation at 211+00	\$ 393,833		
CO-AB05	4-Apr-25		\$ 366,239		\$ 366,239
WCD-AB07		Additional repaving in Ft Union	\$ 366,239		
CO-AB06	3-Nov-25		\$ (3,143,512)	\$ (3,143,512)	
WCD-AB08		Cancel Schedule B (CC-2)	\$ (3,143,512)		
CO-AB07	3-Nov-25		\$ 17,274	\$ 17,274	
WCD-AB09		CARV modifications	\$ 17,274		
CO-AB08	10-Nov-25		\$ (19,214)	\$ (24,079)	\$ 4,865
WCD-AB10		Ft Union repaving overage	\$ 4,865		
WCD-AB11		Contingency recapture	\$ (24,079)		
WCD-AB12		Extend closeout milestones	\$ -		
CO-AB09	25-Feb-26				
WCD-AB13		Extend closeout milestones	\$ -		
		Total	\$ (2,506,526)	\$ (2,872,765)	\$ 371,104
		Percent of Contract	-19.19%	-22.03%	2.84%

Schedule C (SLAR)

Change	Submitted	Description	Encumbrance		
			Total	Metro Water	SLCDPU/ Cottonwood Heights
CO-C01	19-Feb-25				
WCD-C01		Pothole LCC	\$ 47,956	\$ -	\$ 47,956
WCD-C03		Additional LCC pothole	\$ 36,118	\$ -	\$ 36,118
CO-C02	6-Feb-25				
WCD-C02		LCC replace valve	\$ 148,951		\$ 148,951
CO-C03	18-Mar-25				
WCD-C04		Replace additional block wall	\$ 116,300	\$ 88,228	\$ 28,072
CO-C04	18-Mar-25				
WCD-C07		Time extension / delays	\$ 430,219	\$ 326,373	\$ 103,846
CO-C05	18-Mar-25				
WCD-C05		CARV modifications	\$ 25,000	\$ 18,965	\$ 6,034
WCD-C06		LCC potholing	\$ 2,336	\$ 1,772	\$ 564
CO-C06	17-Jul-25				
WCD-C14		Turnout vault modifications	\$ 196,050	\$ 148,727	\$ 47,322
CO-C07	28-Jul-25				\$ 34,930
WCD-C10		LCC access change	\$ 34,930	\$ -	\$ 34,930
CO-C08	28-Jul-25				
WCD-C08		Credit for coatings	\$ (61,554)	\$ (46,696)	\$ (14,858)
WCD-C09		Added sewer casings	\$ 19,542	\$ 14,825	\$ 4,747
WCD-C11		Lumen fiber relocation	\$ 20,377	\$ 15,458	\$ 4,919
WCD-C12		Lumen fiber standby	\$ 48,653	\$ 36,909	\$ 11,744
WCD-C13		Additional PI support	\$ 67,861	\$ 51,480	\$ 16,380

FY2027 Capital Projects Report
July 21 – August 20, 2026

WCD-C15		Storm drain replacement	\$ 19,027	\$ 14,434	\$ 4,593
CO-C09	24-Sep-25				
WCD-C16		SLAR CC-2 vault changes	\$ 3,595	\$ 2,727	\$ 868
WCD-C17		IO card upgrades	\$ 7,028	\$ 5,331	\$ 1,696
WCD-C18		Gate valve installation	\$ 16,544	\$ 12,551	\$ 3,993
WCD-C19		Power line relocation	\$ 40,722	\$ 30,893	\$ 9,830
WCD-C20		Danish Hills owner-restoration	\$ (42,829)	\$ (32,491)	\$ (10,338)
CO-C10	24-Sep-25				
WCD-C21		Turnout delays	\$ 303,733	\$ 230,418	\$ 73,315
CO-C11	29-Oct-25				
WCD-C22		Meter setters on Deer Creek	\$ 9,478	\$ 7,190	\$ 2,288
WCD-C23		Fiber optic vault changes	\$ 29,645	\$ 22,489	\$ 7,156
WCD-C24		Insurance clause update	\$ -	\$ -	\$ -
WCD-C25		Electrical scope change	\$ 61,135	\$ 46,378	\$ 14,757
WCD-C26		Sewer relocation at 26+81	\$ (37,800)	\$ (28,676)	\$ (9,124)
WCD-C27		Sewer relocation at 87+30	\$ (102,060)	\$ (77,425)	\$ (24,635)
CO-C12	29-Oct-25				
WCD-C28		Sewer relocation at 107+00	\$ 138,873	\$ 105,352	\$ 33,521
CO-C13	27-Jan-26				
WCD-C29	3-Nov-25	SLA shutdown extension	\$ -	\$ -	\$ -
WCD-C30	3-Nov-25	Credit for sales tax on pipe	\$ (84,749)	\$ (64,292)	\$ (20,457)
WCD-C31	12-Nov-25	Hydrostatic testing credit	\$ (105,595)	\$ (80,107)	\$ (25,488)
WCD-C32	26-Jan-26	Blow-off coordination	\$ (25,816)	\$ (19,584)	\$ (6,231)
CO-C14	23-Mar-26				
WCD-C36	23-Mar-26	Ft. Union Blvd. Repaving	\$ 748,685	\$ -	\$ 748,685
CO-C15					
Pending		Surface restoration update			
CO-C16	23-Feb-26				
WCD-C34	27-Jan-26	Concrete cradle on SLA	\$ 13,856	\$ 10,511	\$ 3,344
WCD-C35	18-Feb-26	Waterline relocation at 38+00	\$ 74,967	\$ 56,871	\$ 18,095
CO-C17		See LCWTP Administration Campus Improvements (not SLAR-CC budget)			
CO-C18	07-Apr-26				
WCD-C38	07-Apr-26	Fire Hydrant Valve at 38+00	\$ 2,677	\$ -	\$ 2,677
WCD-C39	07-Apr-26	McEntire 20-inch BFV	\$ 32,788	\$ -	\$ 32,788
WCD-C40	07-Apr-26	McEntire 16-inch Tee Removal	\$ 29,711	\$ -	\$ 29,711
CO-C19	22 Jun-26				
WCD-C41	22-Jun-26	Danish Road Meter Relocations	\$ 19,445	\$ -	\$ 19,445
WCD-C42	22-Jun-26	LCC Access Manway Increase	\$ 3,572	\$ -	\$ 3,572
CO-C20	22 Jun-26				
WCD-C43	22 Jun-26	Sta. 40+00 Storm Drain Size +	\$ 9,131	\$ 6,927	\$ 2,204
WCD-C44	22 Jun-26	Creek Road Power Relocation	\$ 57,963	\$ 43,972	\$ 13,991
WCD-C45	22 Jun-26	TCE Extension Credit	\$ (32,425)	\$ (32,425)	\$ -
		Total	\$ 2,324,041	\$ 917,088	\$ 1,406,954
		Percent of Contract	3.90%	2.07%	9.24%

Finished Water Strategic Conveyance Project

Metro Water Project Manager: Kelly Stevens
Design Engineer: Bowen Collins & Associates, Brown & Caldwell
Contractor: TBD

Project Description

This project has three major objectives:

- Establish a strategic vision to optimize the delivery of finished water through operational configurations and capital investment. This includes a comprehensive hydraulic model of all finished water conveyance assets north of LCWTP, including Salt Lake City assets. Metro utilizes the Finished Water Little Cottonwood Conduit (LCC) and Big Cottonwood Conduit to meet Metro's delivery obligation of 145 MGD to Terminal Reservoir.
- Design to 30% the infrastructure assets to move the SLAR pipeline to Phase 3 (finished water) operations.
- Design to 30% the infrastructure assets to replace the LCC Return Pump Station.

Status

Design Status: 16%
Construction Status: 0%

Workshop 3 was held on August 18 with Metro Water, Salt Lake City, and Sandy City present. The workshop presented results of hydraulic evaluations. Design of the LCC Return was approved on August 18 and is underway.

Budget

Activity	Est. Budget ¹	Encumbered	Total Spent	FY26-Spent	FY27 Spent
Design	\$1,200,000	\$948,882	\$266,698	\$266,698	\$-
Construction	\$7,000,000	\$-	\$-	\$-	\$-
ESDC	\$280,000	\$-	\$-	\$-	\$-
Public Involvement	\$5,000	\$-	\$-	\$-	\$-
LCC Return Replacement	\$1,000,000	\$237,169	\$-	\$-	\$-
Contingency ²	\$1,000,000	\$-	\$-	\$-	\$-
Total	\$10,485,000	\$948,882	\$266,698	\$266,698	\$-
Annual Allocation ¹					\$1,875,259

¹ The finished water strategic plan was included with the Cottonwoods Connection prior to FY26.

² Contingency is tracked with construction encumbrance.

Change Orders

None.

Little Cottonwood Water Treatment Plant Administration Campus Improvements (LC071)

Metro Water Project Manager: Kelly Stevens
Design Engineer: Hazen and Sawyer
Contractor: Whitaker Construction

Project Description

Prepare to receive fiber from SLAR-CC, including placement of a portable office building and power and fiber improvements to the existing server room.

Status

Design Status: 75%
Construction Status: 50%

Electrical work was completed and the portable installed in FY2026. Whitaker Construction is preparing a cost for refurbishment of the server room HVAC. Staff expects a cost proposal in August.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY26- Spent	FY27 Spent
Design	\$240,000	\$242,063	\$152,983	\$152,983	\$-
Construction	\$1,250,000	\$736,578	\$719,813	\$719,813	\$-
ESDC	\$10,000	\$-	\$-	\$-	\$-
Total	\$1,500,000		\$872,796	\$872,796	\$-
Annual Allocation					\$567,607

Change Orders

None.

Little Cottonwood Water Treatment Plant Rebuild (LC070)



Metro Water Project Manager: Gardner Olson
Design Engineer: Stantec Consulting, Inc.
Contractor: TBD

Project Description

Rebuild core portions of the LCWTP for seismic and operational stability.

Status

Design Status: 10%

A partnering session, project celebration and logo reveal (see logo above) took place on August 6. Staff is developing an organization chart to take the project into detailed design, construction, and procurement. A Request for Proposals was issued on August 11 to begin the selection process for a construction manager / general contractor in early 2027. Workshops are underway with campus programming, site layout, and filtration taking center stage.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY26-Spent	FY27 Spent
Design	\$36,150,000	\$10,978,712	\$1,545,072	\$1,545,072	\$-
Preconstruction Services	\$3,500,000	\$-	\$-	\$-	\$-
Construction	\$287,000,000	\$-	\$-	\$-	\$-
ESDC	\$11,140,000	\$-	\$-	\$-	\$-
Public Involvement	\$50,000	\$-	\$-	\$-	\$-
Contingency ¹	\$13,925,000				
Total	\$351,765,000	\$10,978,712	\$1,545,072	\$1,545,072	\$-
Annual Allocation					\$11,000,000

¹ Contingency is tracked with construction encumbrance.

Change Orders

None.

Raw Water Little Cottonwood Conduit Resiliency Project (LC069)

Metro Water Project Manager: Erin Kuhlmeier
Design Engineer: Bowen Collins & Associates
Contractor: Garney

Project Description

Replace the raw water LCC and modify the lower intake structure.

Status

Design Status: 85%

The project team is continuing to develop the RWLCC design by holding workshops to discuss and finalize specific design decisions, including value engineering proposals. 90% design workshops were held July 22 and August 13. The 90% cost model workshop is scheduled for September 3. The public involvement team has initiated meetings and discussions with project stakeholders to discuss project extents and easement requirements. An appraisal has been ordered to begin determining fair and just compensation for easement parcels. Permit applications have been started to comply with sensitive lands ordinances in Sandy City, Salt Lake County and Cottonwood Heights.

Budget

ROW Acquisition

Activity	Est. Budget	Encumbered	Total Spent	FY26- Spent	FY27 Spent
ROW Acquisition	\$400,000	\$29,000	\$9,400	\$9,400	\$-
Total	\$400,000	\$29,000	\$-	\$-	\$-
Annual Allocation					\$400,000

Construction

Activity	Est. Budget	Encumbered	Total Spent	FY26- Spent	FY27 Spent
Design	\$1,500,000	\$1,406,695	\$1,080,410	\$1,080,410	\$-
Construction	\$20,000,000	\$-	\$-	\$-	\$-
ESDC	\$800,000	\$-	\$-	\$-	\$-
Public Involvement	\$10,000	\$10,000	\$2,800	\$2,800	\$-
Contingency ¹	\$2,000,000				
Total	\$24,310,000	\$1,416,695	\$1,083,210	\$1,083,210	\$-
Annual Allocation					\$7,095,000

¹ Contingency is tracked with construction encumbrance.

Change Orders

None.

Fleet Program Replacement

Metro Water Project Manager: Michael Carter

Project Description

Purchase a track hoe, fork lift, utility vehicle, and two electric golf carts.

Status

The track hoe and fork lift were ordered following approval at the August 18 board meeting. A utility vehicle and two golf carts were ordered and received. The 140kW generator was ordered. A lab vehicle was ordered.

Budget

Activity	Annual Allocation	Encumbered	Total Spent
Track Hoe	\$200,000	\$159,736	\$-
Fork Lift	\$60,000	\$94,521	\$-
Utility Vehicle	\$50,000	\$32,896	\$-
Golf Cart (2)	\$40,000	\$22,196	\$22,196
140kW Portable Generator	\$120,000	\$53,550	\$-
Lab Vehicle	\$-	\$33,975	\$-
Total	\$470,000	\$396,874	\$22,196

Little Dell Dam Improvements

Metro Water Project Manager: Ammon Allen

Project Description

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

Status

The city completed work on the control panel replacement and is preparing to bid penstock recoating.

Budget

Activity	Annual Allocation	Encumbered	Total Spent
Little Dell Dam Improvements	\$600,000	\$-	\$-
Total	\$600,000	\$-	\$-

Repair and Replace

Project Description

Routine repair and replace non-capacity capital investments.

Status and Budget

Activity	Annual Allocation¹	Project Manager	Total Encumbered	Total Spent	Update
Annual Network Server Replacement	\$200,000	Darin Klemin	\$-	\$-	No progress to date.
Assess POMRWR Liner	\$75,000	Andy Reidling	\$-	\$-	Staff is reviewing consultant recommendations on the liner.
Replace Deer Creek Intake Actuators	\$70,000	Alex Reidling	\$49,131	\$-	Staff is obtaining quotes.
Replace UPS in New Chemical Building	\$65,000	Alex Reidling	\$67,778	\$-	The UPS was ordered.
Ultrasonic Flow Meter Replacement	\$60,000	Alex Reidling	\$-	\$-	No progress to date.
Redundant POMA Fiber (Year 1 of 2)	\$50,000	Darin Klemin	\$-	\$-	No progress to date.
Ultraviolet Spectrophotometer Replacement	\$30,000	Jeff Matheson	\$-	\$-	Staff is preparing an RFP to purchase the equipment.
Miscellaneous	\$100,000		\$2,954	\$2,954	Parts for the cationic polymer building ordered in FY26 were received in FY27.
Total	\$650,000		\$119,863	\$2,954	

¹ The Repair and Replace budget is managed to the bottom line; individual project encumbrances may exceed annual allocations.

Jordan Valley Water Conservancy District (JVWCD)

Jordan Aqueduct System and 150th South Pipeline – Capital Projects

Metro Water is responsible for 2/7ths of Jordan Aqueduct (JA) system improvements which include JA, Jordan Valley Water Treatment Plant (JVWTP), and the JA Terminal Reservoir. Metro Water is responsible for one half of improvements associated with the 150th South pipeline. FY2027 projects include:

Rehabilitation or Replacement of Existing Facilities

• JVWTP Replace Filter Media	\$	460,571
• JVWTP Basins 1 and 2 Circular Sweeper Repair	\$	39,634
• Normal Small Capital Improvements	\$	335,750
• JA Normal, Extraordinary Maintenance and Replacement	\$	253,086
• JVWTP Normal, Extraordinary Maintenance and Replacement	\$	346,114
• TR Normal Maintenance and Replacement	\$	103,210
• Communication Systems Normal Maintenance and Replacement	\$	11,657
• 150 th South Pipe Normal Maintenance and Replacement	\$	10,000

New Non-Capacity Facilities (Compliance/Functional Upgrade)

• Electrical Generators and Site Modifications Phase 2	\$	45,188
• JVWTP Filter and Chemical Feed Upgrades	\$	1,775,857
• JVWTP Floc/Sed 1-2 Seismic Upgrade	\$	45,015
• New Equipment and Emergency Response Building	\$	156,571
• Jordan Aqueduct Seismic Resiliency	\$	144,086

<i>JVWTP Project Management Expenses</i>	\$	50,000
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<i>Total Request FY2027:</i>	\$	3,776,739
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The following report is taken from JVWCD's August 2026 board packet and covers June 11 to July 10, 2026.

JVWCD will review inspection data and determine if additional spot repair work is needed on the Jordan Aqueduct Reach 1. Whitaker Construction completed previously identified work.

JVWCD is reviewing a 30% design proposal for the satellite campus at 1580 West 3860 South.

Cathodic system upgrades on the Jordan Aqueduct Reach 4 JA4/CC3 are substantially complete.

Nelson Brothers Construction received meters for the Jordan Aqueduct Reach 2 Flow Control Structure Improvements project. Butterfly valves are expected in October. The valve and meter replacement will be performed in winter 2026 when the Jordan Aqueduct is taken offline.

The JVWTP Chemical Buildings is substantially complete. A final walkthrough and system commissioning were completed. The project is awaiting a Bacnet card for the building management system.

JVWCD submitted a BRIC grant application for funding to quantify the geologic hazards along the Jordan Aqueduct alignment.

Work is on schedule for all three external buildings (carbon feed, chlorine feed, and caustic feed) for the JVWTP Filter and Chemical Feed Upgrades Project. Construction began on interior walls for the caustic building. The sewer extension is complete. Backwash tank subgrade preparation is underway.

A BRIC application was submitted for the JVWTP Sedimentation Basins 1-2 Seismic and Capacity Upgrades. JVWCD is hoping for \$20M in federal cost sharing.