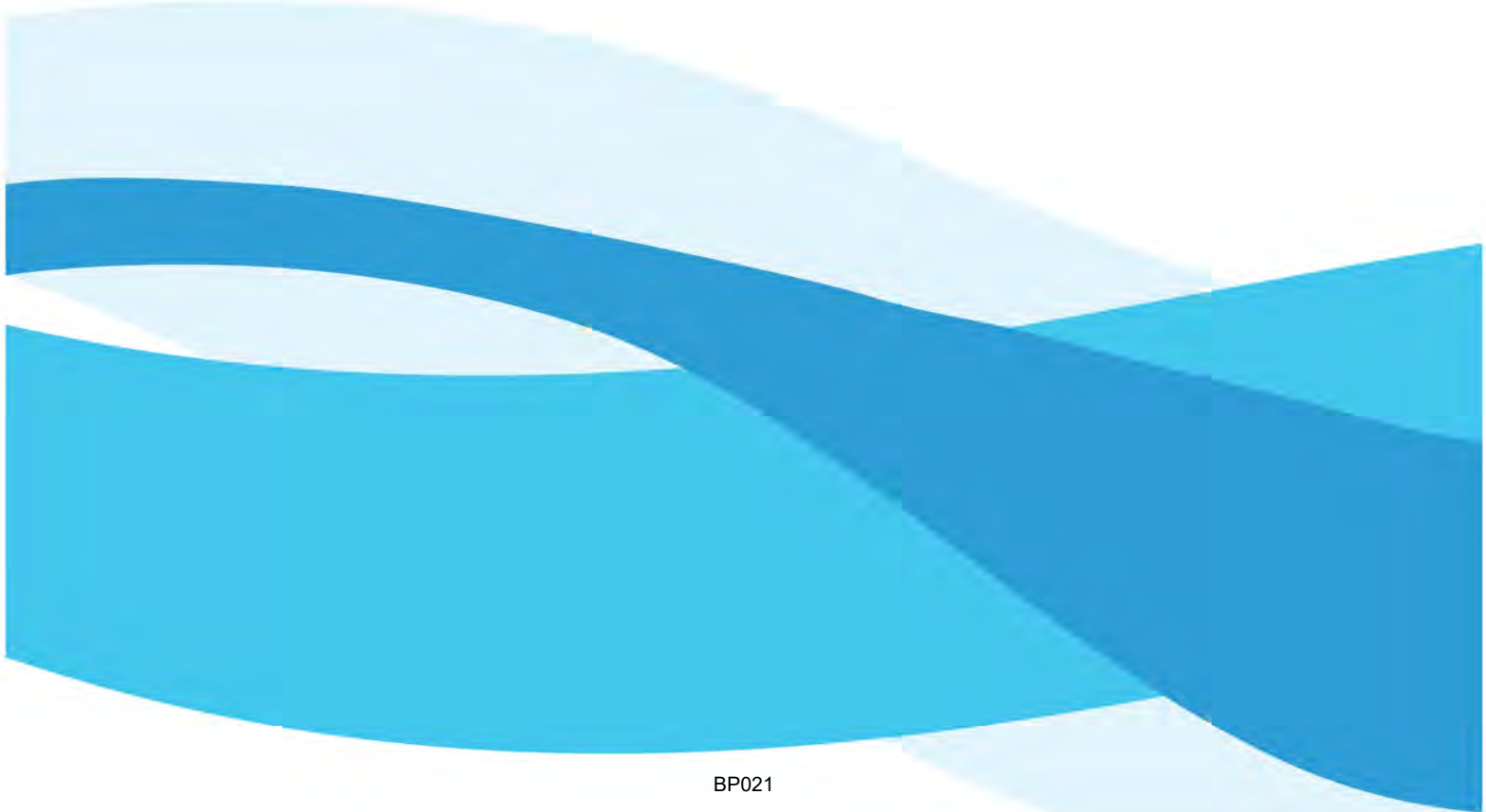


Tab **2**

Engineering Committee report





Consider approval of sole source procurement

Background:

State Code 63G-6a-802 permits procurement without engaging in a standard procurement process if there is only one source for the procurement item or transitional costs are a significant consideration in selecting the procurement item.

Metro Water utilizes Endress + Hauser level and flow instruments in its daily operations. Rust Automation is the only factory-authorized distributor of Endress + Hauser in Utah. The IA&E Department budget includes \$50,000 annually to purchase and maintain these instruments. Because the instrumentation must integrate with existing Metro Water control systems and infrastructure, utilizing equipment from a different manufacturer would require substantial expense and system downtime.

Because the sole source purchase exceeds \$50,000, a notice was posted on Metro Water's website from May 11 to May 18, 2026 in accordance with state code. No responses or challenges were received. If approved by the board, Rust Automation would be authorized as a sole source vendor for Endress + Hauser for a period of five years.

Committee Activity:

The Engineering Committee discussed this item on June 2, 2026 and recommended approval by the full board.

Recommendation:

Approve sole source procurement for Endress + Hauser equipment from Rust Automation through June 30, 2031.

Last Update: June 8, 2026



Consider approval of purchase of Endress + Hauser equipment

Background:

State Code 63G-6a-802 permits procurement without engaging in a standard procurement process if there is only one source for the procurement item or transitional costs are a significant consideration in selecting the procurement item.

Metro Water utilizes Endress + Hauser level and flow instruments in its daily operations. Rust Automation is the only factory-authorized distributor of Endress + Hauser in Utah. The IA&E Department budget includes \$50,000 annually to purchase and maintain these instruments. Because the instrumentation must integrate with existing Metro Water control systems and infrastructure, utilizing equipment from a different manufacturer would require substantial expense and system downtime.

Because the sole source purchase exceeds \$50,000, a notice was posted on Metro Water's website from May 11 to May 18, 2026 in accordance with state code. No responses or challenges were received. If approved by the board, Rust Automation would be authorized as a sole source vendor for Endress + Hauser for a period of five years.

This is an O&M expense that will be up to \$50,000 annually, up to a total of \$250,000 over five years.

Committee Activity:

The Engineering Committee discussed this item on June 2, 2026 and recommended approval by the full board.

Recommendation:

Approve purchase of up to \$250,000 of Endress + Hauser equipment from Rust Automation through June 30, 2031, pending approval of the sole source contract.

Last Update: June 8, 2026



Consider approval of agreement for uninterruptable power supply equipment services

Background:

Metro Water relies on uninterruptible power supply (UPS) equipment to provide reliable backup power to critical plant communications and chemical feed systems. UPS equipment ranges in size from 10kVA to 375kVA across Metro Water facilities. Metro Water seeks to enter into a five-year agreement for annual preventative maintenance, occasional repairs, and as-needed new installations for its UPS equipment. The current five-year contract with Fidelis Power Solutions will expire on June 30, 2026.

A Request for Proposals was advertised on the Utah Public Procurement Place (U3P) between May 5 and May 18, 2026. One proposal was received from Fidelis Power Solutions. Fidelis has recently merged with Gardner Energy and Reliabl, expanding its capabilities and breadth of services. A selection committee evaluated the proposal against five weighted criteria – technical qualifications, cost, relevant experience, breadth of services, and authorized service provider confirmation – and determined that Fidelis Power Solutions meets Metro Water's needs.

Metro Water has had positive experiences with Fidelis Power Solutions.

Committee Activity:

The Engineering Committee discussed this item on June 2, 2026 and recommended approval by the full board.

Recommendation:

Approve the Agreement for Provision of Goods and Services with Fidelis Power Solutions through June 30, 2031.

Attachments:

- Agreement for Provision of Goods and Services

Last Update: June 8, 2026

AGREEMENT FOR PROVISION OF GOODS AND SERVICES

Uninterruptible Power Supply Services

This Agreement for Provision of Goods and Professional Services (Agreement) is made and entered into by and between the Metropolitan Water District of Salt Lake & Sandy (Metro Water) and Fidelis Power Solutions, a Utah corporation (Vendor).

PURPOSES

The expertise of Vendor is required by Metro Water in order to support Metro Water staff. Vendor was selected through a competitive Request for Proposals process in accordance with Utah Code § 63G-6a-701, et. seq. and Metro Water procurement regulations. The Vendor and its principals and employees are qualified by experience and training to provide, and the Vendor has indicated an interest and a willingness to provide, these goods and services for Metro Water. The parties desire to have in place an agreement which describes the terms and conditions under which Vendor will provide the described goods and professional services.

TERMS

In consideration of the mutual benefits described in this Agreement, the parties agree as follows:

DESCRIPTION OF GOODS AND SERVICES. At the request of Metro Water and through specific written scopes and fees, Vendor is willing and able to provide annual preventive maintenance, occasional repairs, and as-needed new installations for Metro Water's uninterruptable power supply (UPS) equipment.

SALE AND DELIVERY. Goods sold under this Agreement shall be delivered as identified in the applicable Purchase Order.

SERVICES OF VENDOR. Vendor shall provide services to Metro Water as an independent contractor in accordance with the applicable professional standards of care, and in a reasonably timely, efficient, and professional manner, consistent with this Agreement.

RESPONSIBLE STAFF MEMBERS. Responsible principals or staff members of Vendor, and any contractors identified by name in each Order shall be committed to the task. Upon submitting a request for payment for services, Vendor shall provide verification of the names of staff members, their respective rates, and the number of hours worked by each staff member. Responsible principals or staff members, or contractors, who retire, quit, or die shall be replaced by individuals who are equally qualified, each of whom shall be subject to Metro Water's approval under this Agreement. Failure to comply with the requirements of this provision shall be grounds for terminating this Agreement.

ORDER. Metro Water may, at its sole discretion, from time to time during the term of this Agreement issue Purchase Orders for goods and Task Orders for services. Verbal statements describing work shall not be binding. If Vendor accepts the Order, it will be signed by Vendor and returned to Metro Water. Vendor shall receive payment based on the cost of goods and the hourly rates and expenses of services as described in the Order. If the Vendor has any question or concern regarding the Order, the expected completion date, the expenditure limit, etc. the question or concern shall be addressed on a timely basis with Metro Water. Ordinarily, significant clarification should be in writing. No work on Orders by Vendor shall commence unless and until an Order is provided by Metro Water to Vendor.

SCHEDULE OF PAYMENTS. Vendor shall submit reasonably detailed invoices each month for any work performed. Invoices shall refer to Metro Water's project name and number. Metro Water shall remit payment to Vendor within thirty (30) days of receipt of each request for payment that is presented in the proper form.

PERIOD OF SERVICE. This Agreement shall be effective upon signing and shall terminate on June 30, 2031.

METRO WATER'S RESPONSIBILITIES. Metro Water shall provide Vendor with such information as is available to Metro Water and as may be reasonably requested by the Vendor related to the work and Vendor shall, to the extent reasonable under the circumstances, be entitled to use and rely upon all such

information in performing its services. Metro Water will examine all documents submitted by Vendor to Metro Water and, if requested by Vendor, Metro Water will render decisions relative thereto in a timely manner in order to avoid unreasonable delay in the progress of Vendor's services. Metro Water shall provide Vendor access to Metro Water facilities and premises, and act reasonably to provide necessary access to private property, as may be reasonably requested by Vendor.

WARRANTY.

Vendor warrants Goods sold under this Agreement are as described in the applicable Purchase Order and any response or proposal submitted in connection with the applicable Purchase Order. Vendor shall assign any and all manufacturer warranties for Goods to Metro Water upon delivery to and acceptance of the Goods by Metro Water. If Vendor receives notice of a defect or nonconformance during the warranty period described in the Purchase Order, Vendor will, at its option, repair or replace the affected Goods, including labor, shipping and handling, training, and any other costs associated with the repair or replacement at no cost to Metro Water.

Vendor specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

Vendor warrants all Goods provided under this Agreement are sold to Metro Water with good title free from defects in workmanship or materials, free of liens and encumbrances, and free of claims of patent infringement or intellectual property infringement.

SECURITY AND OWNERSHIP OF INFORMATION. Metro Water facilities are critical public infrastructure. Certain information that Metro Water must provide to Vendor for Vendor to perform its work is very security sensitive. The Vendor will strictly comply with Metro Water written security protocols provided by Metro Water to Vendor as these written security protocols may be changed from time to time. Such protocols may include, but are not limited to, restrictions of numbers of copies to be kept in any form by Vendor, the form of the information storage, the security precautions to be followed, restrictions as to who may have access to information, the confidentiality agreement to be signed by individuals before they may be given access, the methods and means by which copies of information will be destroyed upon completion or termination, the methods and means by which destruction will be verified to Metro Water, the steps that will be taken by Vendor in the event of any breach or suspected breach of security or security protocols. Metro Water security protocols and any changes which are provided to Vendor will be immediately complied with by Vendor. If Vendor has concerns or questions regarding such protocols or changes to protocols such concerns will be brought to Metro Water's attention immediately.

Each document and each item of information prepared in the performance of this Agreement, whether in hard copy or electronic form, is the property of Metro Water, including, but not limited to, tracings, drawings, estimates, field notes, investigations, design analyses, studies, computer programs, or other data. Vendor shall sign and affix its professional seal(s) to all final plans, technical specifications, and consulting data prepared in the performance of this Agreement.

COMPLETENESS AND ACCURACY. Vendor shall be solely responsible for the completeness and accuracy of all of its final work product, including, but not limited to, plans, supporting data and technical specifications prepared pursuant to this Agreement. Vendor shall be responsible to Metro Water for any error or omission by any of its employees, subcontractors or suppliers. Vendor shall correct all errors or omissions at its own expense. This provision is not intended to prevent Vendor from seeking reimbursement or indemnity from any employee, subcontractor or supplier. Any additional cost or damages incurred by Metro Water as a result of such errors or omissions shall be the responsibility of Vendor.

RIGHT OF TERMINATION. Metro Water reserves the right, at its discretion, to terminate this Agreement, or to abandon any portion of Project issued hereunder at any time. In the event Metro Water terminates this Agreement or abandons any portion of Project hereunder, Metro Water shall notify Vendor in writing. Immediately upon receipt of such notice, Vendor shall discontinue services as directed by Metro Water and deliver to Metro Water all drawings, technical specifications, hard copy and electronically stored information, computer programs and data, estimates, and any other documents or items of information, in whatever form or media, developed or gathered by Vendor in the performance of this Agreement, whether entirely or partially completed, together with all materials supplied by Metro Water. Vendor shall document its services through the termination date, and submit such documentation to Metro Water for its evaluation. Vendor shall receive compensation for services performed up through the date of termination or abandonment.

INDEMNIFICATION AND INSURANCE. In no event will any fault of Vendor or Vendor's employees or contractors be reapportioned to Metro Water, its officers, Trustees or employees. Vendor will indemnify and hold Metro Water and its officers, Trustees and employees harmless from any such reapportionment of fault.

To the extent that Metro Water is not otherwise indemnified by a policy of insurance, Vendor will indemnify Metro Water from any claim of third parties to the extent caused by Vendor's breach of this Agreement or by the negligence or other fault of Vendor, or that of any of Vendor's employees or subcontractors. Any invalidity of any portion of this indemnification duty will not defeat any remaining portion of this described indemnification duty. This indemnity shall be interpreted to provide Metro Water and its Trustees and employees with indemnity to the greatest extent allowed by law.

Vendor, at its own cost and expense, shall secure and maintain policies of insurance in accordance with Exhibit A.

LIABILITY AND REMEDIES. In the event any Goods sold under this Agreement do not function as warranted and are not repaired or replaced within 40 business days after notice to Vendor, Vendor will reimburse Metro Water for Metro Water's reasonable costs of replacing the Good, including labor for removal and reinstallation. Except as described in the preceding sentence, Vendor disclaims liability for consequential damages.

INSPECTION OF VENDOR'S RECORDS. Vendor shall maintain accounting records in accordance with generally accepted accounting principles and practices to substantiate all costs incurred by Vendor and billed to Metro Water. Vendor shall maintain records necessary to confirm compliance with Metro Water security protocols. Such records shall be available to Metro Water during Vendor's normal business hours for a period of one year following the date of final payment under this Agreement.

WAIVER OF CLAIMS. Prior to acceptance of final payment, Vendor shall submit in writing to Metro Water any known claim that Vendor or any of Vendor's employees or contractors may have against Metro Water or any of its employees. The acceptance of final payment by Vendor will constitute a waiver of any such claim other than those claims previously made in writing and submitted to Metro Water. Vendor shall hold Metro Water harmless from any claims, including costs and attorneys' fees, by any of Vendor's employees or contractors which are not made in writing prior to acceptance of final payment. The tendering of final payment by Metro Water will not constitute a waiver of any claim Metro Water might have against Vendor, whether known or unknown at the time such payment is made.

SUCCESSORS AND ASSIGNS. The services to be provided by Vendor under this Agreement shall not be subcontracted or assigned without the prior written consent of Metro Water. This Agreement shall extend to and be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

NOTICES AND APPROPRIATE LINES OF COMMUNICATION. Except to the extent necessary to respond to emergencies, communications regarding material matters relating to this Agreement shall be deemed given when mailed or delivered to:

If to Metro Water To:
Metropolitan Water District of
Salt Lake & Sandy
Attn: General Manager
3430 East Danish Road
Cottonwood Heights, Utah 84093

If to Vendor To:
Fidelis Power Solutions
Gardner Energy
Attn: Todd Gehring
4899 W 2100 S
Salt Lake City, UT 84120

Each party may change the designation of the addressee or the address for that party to receive notice by sending written notice of the change.

GOVERNING LAW AND JURISDICTION. This Agreement shall be enforced and governed under the laws of the State of Utah, and jurisdiction for any action based on this Agreement, whether brought by Metro Water or Vendor, shall be with the District Court of Salt Lake County, State of Utah.

SPECIAL PROVISIONS. Vendor shall comply with all applicable federal, state and local laws and ordinances, and shall not discriminate against any person on the basis of race, color or national origin in the performance of this Agreement. Any terms which Metro Water, as a governmental entity is mandated

by applicable statute or regulation to include in this Agreement, including any terms which are mandated by applicable provisions of the Utah Procurement Code, shall be considered a part of this Agreement.

PARTIAL INVALIDITY. If any portion of this Agreement is determined to be invalid, the remaining portions of this Agreement shall remain valid and enforceable.

ENTIRE AGREEMENT. This Agreement constitutes the entire understanding and agreement between the parties and cannot be altered except through a written instrument signed by the parties.

NO THIRD-PARTY BENEFITS INTENDED. This Agreement is not intended to create rights in any person or entity who is not a party to this Agreement.

REPRESENTATION OF AUTHORITY. Those persons signing as representatives of the parties warrant and represent, they have been duly authorized to sign on behalf of the party they represent.

IN WITNESS WHEREOF, the parties have executed this Agreement effective the ____ day of June, 2026.

METRO WATER:

Metropolitan Water District of
Salt Lake & Sandy

VENDOR:

Fidelis Power Solutions

By: _____

Annalee Munsey
General Manager

By: _____

Todd Gehring
Division Manager

**INSURANCE AND BOND REQUIREMENTS FOR
PARTIES ENTERING INTO AGREEMENTS WITH
METROPOLITAN WATER DISTRICT OF SALT LAKE & SANDY**

Last Update: August 8, 2023

Vendor shall maintain, at no cost to Metro Water, the following insurance, and provide evidence of compliance satisfactory to Metro Water.

A. MINIMUM LIMITS OF INSURANCE

Except as approved in writing by Metro Water in advance, Vendor and all of Vendor's contractors shall maintain limits no less than:

1. GENERAL LIABILITY (including claims arising from: premises-operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract.):

- i. Combined Single Limit (Bodily Injury and Property Damage):
 - 1. \$2,000,000 Per Occurrence
- ii. Personal Injury (including completed operations and products liability):
 - 1. \$2,000,000 Each Occurrence
- iii. General Aggregate:
 - 1. \$3,000,000
- iv. Products - Comp/OP Aggregate:
 - 1. \$3,000,000
- v. Limits to apply to this project individually.

2. AUTOMOBILE LIABILITY:

- i. \$2,000,000 Per Occurrence
- ii. "Any Auto" coverage required.

3. WORKERS' COMPENSATION and EMPLOYERS LIABILITY:

- i. Workers' compensation statutory limits.
- ii. Employers Liability statutory limits.

4. PROFESSIONAL LIABILITY:

- i. \$2,000,000 Per Claim
- ii. \$3,000,000 Aggregate

B. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions (SIRs) must be declared to and approved by Metro Water in writing. At the option of Metro Water, either; the insurer may be required to reduce or eliminate such deductibles or SIRs as respects Metro Water, its trustees, officers, and employees as additional insureds; or the Vendor may be required to procure a bond or other instrument guaranteeing payment of losses and related investigations, claim distribution, and defense expenses of Metro Water, its trustees, officers, and employees as additional insureds.

Metro Water does not ordinarily approve deductibles in an amount exceeding 2.5% of the required minimum limits described above or \$50,000, whichever is less. Metro Water does not ordinarily approve SIRs in an amount exceeding 1.0% of the required minimum limits described above or \$20,000, whichever is less. With respect to any deductible or SIR, the Vendor shall

pay for costs related to losses, investigations, claim distribution, and defense expenses of Metro Water, its trustees, officers, and employees as additional insureds that would otherwise be covered by an insurer under the coverages described in these insurance requirements if no deductible or SIR existed.

C. OTHER INSURANCE PROVISIONS

The General Liability, Automobile Liability, and Pollution Liability Coverages are to contain, or be endorsed to contain, the following provisions:

1. Metro Water, its trustees, officers, and employees are to be covered as additional insureds as respects: claims arising out of the work of the Vendor, including products completed. The coverage shall contain no special limitations on the scope of protection afforded to Metro Water, its trustees, officers, and employees.
2. Additional insured coverage shall be on a primary basis for ongoing and completed work.

A waiver with respect to Metro Water, its trustees, officers, and employees of Worker's Compensation subrogation shall be provided.

D. ACCEPTABILITY OF INSURERS

Insurance and bonds are to be placed with insurers admitted in the State of Utah with a Bests' rating of no less than A-, IX, and in the limits as listed in this document, unless approved in writing by Metro Water.

E. VERIFICATION OF COVERAGE

Vendor and all of Vendor's contractors shall furnish Metro Water with certificates of insurance and with original endorsements effecting coverage required by this clause. The certificates and endorsements are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be provided on forms acceptable to Metro Water before work commences. Metro Water reserves the right to require complete, certified copies of all required insurance policies, with all endorsements, at any time. Vendor shall provide an insurance certificate and an endorsement evidencing compliance with this provision at least annually. From time-to-time Metro Water may increase the requirement for a liability limit by providing reasonable written notice to Vendor of such a change.



Consider approval of LCWTP Rebuild Project Phase 2 task order

Background:

The Little Cottonwood Water Treatment Plant (LCWTP) Rebuild Project is driven by three primary objectives:

- 1) reconstruct the LCWTP to maintain service during and following a hazard event;
- 2) upgrade the performance of chemical feed, flocculation, sedimentation, and filtration processes; and
- 3) improve electrical and process control systems.

Using a rigorous two-step selection process (SOQ and Interview), Stantec Consulting was selected as the preferred, qualified, and experienced consultant to perform planning, design, procurement, construction, and startup of the LCWTP Rebuild Project. A Professional Services Agreement and scope of work and fee for the Phase 1 Basis of Design effort were approved in June 2025. Phase 1 included project management, financial consulting support, management consulting support, background review, level of service objectives, design support, condition assessment, alternatives, recommendations, project prioritization, management reserve, and a basis of design report. Phase 1 will be finished by June 30, 2026.

Phase 2 is preliminary design and includes project management, financial consulting support, management consulting support, background review, design support, CM/GC support, design management, sustainability, management reserve, and the 30% preliminary design report and drawings. Phase 2 is expected to be complete by June 30, 2027 for \$9,433,148.

The Phase 2 scope includes work that is needed whether the project is funded at \$290 million or \$850 million. This work will ensure the rebuild is appropriately sized, sequenced, and designed to allow construction to be as modular as possible. Modular design will provide the most flexibility for future construction and funding decisions.

The fiscal year 2027 capital budget is \$11M.

Committee Activity:

The Engineering Committee discussed this item on June 2, 2026. The committee asked for time to review the draft Basis of Design Report. Staff has proposed two approval options for the board's consideration.

Recommendation Options:

1. Approve Task Order No. 2 for \$9,433,148 to Stantec Consulting, Inc. for the LCWTP Rebuild Project Phase 2, or
2. Approve Task Order No 2 for \$9,433,148 to Stantec Consulting, Inc. for the LCWTP Rebuild Project Phase 2 with the option for the board to provide additional input on the Task Order prior to full implementation.

Attachments:

- Task Order No. 2 - Phase 2 30% Preliminary Design

Last Update: June 8, 2026



Task Order No. 2

Phase 2 30% Preliminary Design

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 Stantec Consulting Services Inc. (Consultant) dated June 17, 2025.

Services

Refer to Attachment A.

Compensation

Compensation for the services described above is based on the hourly rates and expenses shown on Attachment A and shall not exceed \$_____

Period of Services

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

Deliverables

Refer to Attachment A.

Contact Information

Metro Water's primary contact for this Task Order is

Gardner Olson
LCWTP Rebuild Project Manager
Olson@mwdsls.gov
(801) 942-9667

Acceptance Due Date

This task order must be accepted as soon as possible.

The parties executed this task order effective _____, 2026.

METRO WATER:

Metropolitan Water District of
Salt Lake & Sandy

CONSULTANT:

Stantec Consulting Services Inc.

By: _____
Annalee Munsey, General Manager

By: _____
Mark Graham, Vice President/Project Manager



INITIAL REVIEW DRAFT

2026.05.26

Phase 2 Scope of Work, Schedule and Fee

**Little Cottonwood Water Treatment Plant Rebuild
(MWDSL Project No. LC070)**



Prepared for:
Metropolitan Water District of Salt Lake & Sandy

MMM DD, 2026

Prepared by:
Mark Graham, P.E., PMP
Brad Jeppson, P.E.

Project/File:
181301792

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Appendix A BUDGET 1

Appendix B SCHEDULE 2



Introduction

The Little Cottonwood Water Treatment Plant (LCWTP) is located at the mouth of Little Cottonwood Canyon. The plant is capable of treating 150 million gallons of water per day. Since 1960, the LCWTP has safely delivered clean drinking water to residents in the Salt Lake Valley. Today, treated water from the LCWTP reaches an estimated 450,000 people daily.

To accommodate changing water quality regulations, increased water demand, and aging infrastructure, the LCWTP has undergone various improvements over the years including filter rehabilitation (early 1990s), waste wash water improvements (mid-1990s), electrical upgrades (late 1990s), new chemical storage and feed systems (early 2000s), and upgrades to the inlet and outlet works (mid-2000s). While many areas of the plant have been improved over time, the flocculation and sedimentation basins (including much of the mechanical equipment), filtration complex, and ancillary support buildings are original.

The LCWTP Rebuild Project includes the assessment, planning, prioritization, design, construction, and commissioning of processes, complexes, and systems, including pretreatment, chemical feed, flocculation, sedimentation, filtration, distribution, laboratory, chemical building, instrumentation, electrical, and SCADA at the LCWTP.

The LCWTP Rebuild Project includes three primary project objectives.

- Reconstruct the LCWTP to maintain service during and following a hazard event;
- Upgrade the performance of chemical feed, flocculation, sedimentation, and filtration processes; and
- Improve electrical and process control systems.

Additional objectives may be identified in the assessment phase.

Project funding will initially come from Metro Water's operating budget. Throughout design of the project, Metro Water will aggressively pursue alternative funding mechanisms such as grants and low-interest loans.

The Project is divided into six phases. Detailed scopes of work and fees for each phase of work will be developed and authorized by task order.

Six phases of work are anticipated:

- Phase 1 – Basis of Design
- Phase 2 – Preliminary Design
- Phase 3 – Detailed Design
- Phase 4 – Bidding Services
- Phase 5 – Construction Services



Phase 2 Scope of Work and Budget

1 Project Management

- Phase 6 – Commissioning and Startup

Phase 1 – Basis of Design was previously authorized, and will be complete by June 2026. This scope of work and fee includes only Phase 2 – Preliminary Design.

Unless otherwise noted, the following assumptions apply to all Phase 2 Tasks.

- Technical memoranda (TMs) and reports shall be provided in draft form for Metro Water review.
- Metro Water staff will provide consolidated review comments within ten working days. As mutually agreed, comments may be provided as tracked changes and comments in Microsoft Word, Acrobat or Bluebeam, or tabulated in a separate document.
- Consultant shall incorporate Metro Water comments and produce a final TM or report within ten working days of receiving Metro Water comments. Consultant will provide responses to Metro Water review comments, as responses to Metro Water tracked comments or as a separate document, when submitting the final TM or report.
- Consultant shall provide an agenda and background material for workshops five working days prior to each workshop.
- Consultant shall provide workshop summaries within five working days after each workshop.
- Metro Water staff will provide comments or corrections to workshop summaries within five working days.
- Consultant will provide final workshop summaries within five working days.
- Meetings and workshops will be held at the LCWTP. An option for remote participation by Metro Water and Consultant staff will be provided. Additional meeting space is available at the Consultant's office and may be used as needed.

1 Project Management

Project Management includes work associated with organization, control, monitoring, scheduling, invoice preparation, and other activities inherent with the Consultant's management of in-house and subconsultant work.

1.1 Phase 2 Setup

In collaboration with Metro Water staff, Consultant shall update and revise the plans and procedures developed during Phase 1 for execution of this Phase 2 Scope of Work, producing an updated Project Implementation Plan (PIP). PIP will include the following Sections.

- | | | |
|--------------------------------------|-------------------------|-----------------------------------|
| 1. Introduction | 6. Financial Management | 11. Communication and Knowledge |
| 2. Project Background and Objectives | 7. Project Schedule | 12. Health and Safety |
| 3. Project Charter | 8. Risk Management | 13. Progress Reports and Invoices |
| 4. Project Team | 9. Change Management | |
| 5. Scope of Work | 10. Quality Management | |



Phase 2 Scope of Work and Budget

1 Project Management

As part of the project setup, Consultant shall facilitate a Phase 1 Celebration/Phase 2 Kickoff Workshop (continuing the sessions begun in Phase 1) with project leadership from Metro Water and Consultant.

Assumptions

- Draft PIP shall be provided within two weeks of NTP.
- Final PIP shall be provided one week after receipt of Metro Water comments.
- Celebration/Kickoff Workshop will be in-person, four hours and include up to six Consultant staff, with a facilitator hired by Consultant.

Deliverables and Workshops

- Draft and Final Project Implementation Plan
- Phase 1 Celebration/Phase 2 Kickoff Workshop

1.2 Project Coordination and Direction

Consultant shall coordinate and direct the activities of Consultant (in-house and subconsultant) staff, and manage communications between Consultant staff and other parties, including Metro Water staff.

Consultant shall lead weekly Project Management meetings with Metro Water staff to discuss the status of current activities and urgent issues. The Consultant Project Manager, Deputy Project Manager, and up to two additional Consultant staff shall attend these meetings.

Consultant shall lead monthly Project Status meetings to update Metro Water staff, coordinate information exchange, and discuss the project schedule and budget status, review the Risk, Issue, Decision, and Change Logs, and discuss other strategic or important issues.

The PIP will include logs for collection and tracking of project risks, issues, decisions and changes. Within the first month of the project, Consultant shall conduct a workshop with Metro Water staff to populate these logs. Consultant shall update these logs monthly, and review significant changes, updates and additions with Metro Water staff during the Monthly Project Status Review Meetings.

Assumptions

- Phase 2 duration will be 12 months
- Phase 2 Risk, Issue, Decision and Change Workshop will be hybrid, two hours, and include up to five consultant staff
- Weekly Project Management Meetings will be one hour in duration and include up to three Consultant staff. Consultant shall prepare agenda one day prior to meetings, and notes within two days of meetings.
- Monthly Project Status Review Meetings will be two hours in duration and include up to three Consultant staff. Consultant shall prepare agenda one day prior to meetings, and notes within two days of meetings.



Phase 2 Scope of Work and Budget

2 Financial and Management Consulting Support

- Stantec will support up to three of Metro Water’s Board Updates by providing materials and attending Board Meeting.

Deliverables and Workshops

- Monthly Invoices and Progress Reports
- Weekly Project Management Meetings
- Monthly Project Status Review Meetings
- Board Updates
- Phase 2 Risk, Issue, Decision and Change Workshop
- Monthly updates to Risk, Issue, Decision and Change Logs

1.3 Risk, Issues, Decisions and Change *(not used in Phase 2)*

1.4 Future Planning

Based on decisions made in the 30% design workshops regarding the final scope of the Rebuild Project, Consultant shall develop a detailed proposal for Phase 3 – Detailed Design and more general approaches for subsequent phases.

Assumptions

- An initial, high-level budget for Phase 3 will be provided for use by Metro Water in November 2026 to support early fiscal year budget planning.
- Consultant shall provide a preliminary Phase 3 Budget in April 2027 for Metro Water capital budget planning use.
- Phase 3 Planning Workshop will be in-person, four hours and include up to three Consultant staff.
- Consultant shall provide final Phase 3 scope, budget and schedule in mid-May 2027.

Deliverables and Workshops

- High-level Phase 3 Budget in November 2026
- Preliminary Phase 3 Budget in April 2027
- Phase 3 Planning Workshop
- Draft and final Phase 3 Scope, Budget and Schedule

2 Financial and Management Consulting Support

Consultant shall provide management consulting to support Metro Water’s capital improvement and financial planning, funding, and organizational development.



2.1 Financial Planning

Consultant shall continue the work begun in Phase 1 to support financial planning related to the LCWTP Rebuild project in the context of Metro Water’s overall financial position. This will include using the Financial Analysis and Management System (FAMS) to dynamically model various project funding scenarios to understand the influence on revenue requirements or capital improvement program delivery. Consultant will work closely with Metro Water to adjust various assumptions and criteria to demonstrate how changes in LCWTP Rebuild scope, costs, and phasing affect overall organizational financial planning—both revenue sources and capital planning decisions.

This effort consists of understanding the revenue requirement and organizational cash-flow differences based on project size and schedule, hierarchy of funding sources, and market conditions. Using FAMS, the Consultant will test the outcomes of different revenue plan assumptions—either in rate or property tax adjustments—and the impacts to end customers. The Consultant will also integrate decisions regarding bonds, WIFIA and SRF loans, and grants to evaluate outcomes against Metro Water’s debt policies and bond ratings. Alternative to revenues, the Consultant may also use FAMS to dynamically model adjustments to CIP execution and the effects of various expenditure plans for the LCWTP Rebuild and other projects.

Consultant has allocated budget for additional services indirectly related to the LTCP Rebuild, which Metro Water may request subject to the limitations listed in the Subtask Assumptions. These services may include the following.

- Support with partner agency and public communication.
- Project-level financial planning, such as encumbrance and expenditure schedules, and funding source allocations and timing.
- Scoping framework and data needed to develop a future Benefit-Cost or Return on Investment analysis for various LCWTP Rebuild project alternatives, monetizing the risk or consequence of project scope that is deferred or eliminated.

These tools will provide Metro Water with a clear picture of the financial-related impacts of, and decisions attributable to, the LCWTP Rebuild and other capital needs, with the goal of arriving at an optimized project cost that achieves both project objectives and affordability.

Assumptions

- Financial planning work will use Stantec’s Financial Analysis & Management System (FAMS) dynamic digital planning tool to support the LCWTP Rebuild Project CIP. During the course of Phase II, the information may be migrated to a web-based FAMS platform to facilitate Metro Water’s future financial planning efforts. This migration, and license(s) for Metro Use of the FAMS platform, would be provided under a separate authorization.



Phase 2 Scope of Work and Budget

2 Financial and Management Consulting Support

- Up to four distinct model adjustments to incorporate or sensitivity-test various scenario assumptions
- Consultant will utilize Metro Water's revenue and capital improvement plans as inputs to the financial model. Metro Water will provide quarterly updates on Financial Information, which Consultant will integrate into the current FAMS model.
- This task does not include developing a financial model for other Metro Water projects (if desired, this effort can be included with additional funding from Management Reserve).
- After each FAMS model run that incorporates Metro Water's revised information and any scenario updates, Consultant will lead a 2-hour, remote meeting to discuss the outputs.
- Consultant shall provide up to 80 hours of support for financial consulting indirectly related to Rebuild project development.

Deliverables and Workshops

- Quarterly FAMS updates, including meetings to discuss update.
- Up to four FAMS model outputs and summary technical memos
- Summary Financial Planning TM that includes optimized LCWTP financial plan in alignment with project cost at preliminary design.

2.2 Funding Support

The Consultant shall assist Metro Water in the execution of the overall funding strategy determined to support the LCWTP Rebuild Project. This involves:

- On-going monitoring, evaluation, and strategic consulting on the opportunities to seek federal and state grants and loans with applicability to the LCWTP Rebuild project and financial plan. The Consultant will update the detailed list of applicable funding sources considering scope eligibility criteria, schedule alignment related to project milestones and application deadlines, award capacities and financial requirements, and any administrative conditions. The Consultant will create a Go/No-Go template to facilitate decision-making and next steps, convening and participating in meetings to determine grant and/or loan pursuits,
- Support funding opportunity schedule management, compiling of application calendars and deadlines, and support and advise on alignment with the project schedule.
- Serve as a liaison between funding agencies and Metro Water, including drafting and managing communications, attending meetings, and other needs as they arise. This may involve examining funding changes and development within the State of Utah Unified Water Infrastructure Plan (UWIP) and working on Metro Water's behalf on the Utah Project Portal.
- At the direction of Metro Water, and with additional budget authorized from the Management Reserve, the Consultant may support application development for state and federal grant and loan opportunities.



Phase 2 Scope of Work and Budget
2 Financial and Management Consulting Support

- This could be either in an advisory capacity or directly serving as the grant or loan application project manager.
- Application development includes drafting letters of intent/interest; assembling application narrative components; assistance with grant or loan project cost, schedule, and budget documents; benefit-cost analysis; and assistance with letter or support or application submittal as appropriate.
- The level of effort for developing grant applications varies significantly depending on the funding program and application requirements.
- Assistance with the application of federal requirements, including:
 - Review and consulting on development of procurement methods and documents
 - Development of trackers and organizational workflows for future compliance.

Assumptions

- Pursuit of federal funding remains a possibility
- Application development is not included in this Subtask, but may be separately authorized from the management reserve budget.

Deliverables and Workshops

- Funding Go/No-Go meeting agenda and decision template
- Funding “roadmap” overlaid on project schedule.
- Participation in meetings and summary memorandums/briefs
- Application development, upon request

2.3 Organizational and Technology Consulting

Continuing the work begun during Phase 1, the Consultant shall provide Organizational Development Methods and Tools and consulting support as determined in collaboration with Metro Water. Consultant shall lead an initial Organizational and Technology Needs workshop to establish the specific activities for this Phase.

Possible consulting services during Phase 2 include the following:

- Organizational levels of service determination
- Support for Phase 1 Action Plans
- Development of Metro Water Organization Chart and Staffing Plan to support CM/GC delivery of the LCWTP Rebuild Project
- Safety and Security Program
- Leadership team development



Phase 2 Scope of Work and Budget

3 Background

- Work Environment / Culture Development
- Organizational Change Management
- Communication Plan Development
- Assist in leveraging industry best practices and performance improvement frameworks to drive operational improvements.
- Guide comprehensive reviews and perform facilitated workshops to improve existing processes and systems.

Assumptions

- As requested, Consultant Task Lead will participate in management calls with Metro Water to address questions related to management and technology task work and report to Metro Water on deliverable progress.
- Up to 80 hours of consultation, including workshops, deliverables, and informal discussions will be provided.

Deliverables and Workshops

- Organizational and Technology Needs Workshop
- Workshop and meeting minutes and action items
- Consulting Service Workplan(s)
- Management Calls and Updates
- Other Deliverables and Workshops as Mutually Agreed

3 Background

3.3 Plant Tours

Consultant shall organize and lead tours for Metro Water staff of drinking water treatment plants and other relevant facilities. Tour locations will be selected to provide Metro Water staff with exposure to the challenges and opportunities faced by other utilities that have undertaken, or are in the process of undertaking, the design, rebuild, or construction of a major water treatment plant.

Assumptions

- Consultant will lead up to six tours – three local (within the State) and three non-local (outside of Utah).
- Up to ten key Metro Water staff will attend each tour.
- Up to four Consultant staff will attend each non-local tour, and up to five will attend each local tour.
- Tours will include facilities relevant to large WTP construction, laboratory design, and IT/OT engineering and implementation.
- Each non-local tour will include two half-days of travel and an overnight stay.



Phase 2 Scope of Work and Budget

4 Level of Service (Not Used in Phase 2)

- Local tours along the Wasatch Front will not require overnight stays.
- Metro Water will coordinate travel arrangements and cover costs for Metro Water staff.

Deliverables and Workshops

- Draft and final proposal for tour locations, objectives, and timing
- Background material and agendas for tours
- Travel and accommodation planning for tours
- Ground transportation while at tour location
- Post-tour debriefing meeting and tour summary document

4 Level of Service *(Not Used in Phase 2)*

5 Design Support

5.1 Project Engineering Guidelines

Consultant shall use the Design Engineering Guidelines (DEGs) developed in Phase 1 to advance the design of the LCWTP Rebuild projects. As Phase 2 design work progresses, Consultant shall develop and maintain a log of potential changes or additions to the DEGs. DEGs will eventually be updated as part of a future Phase of work, based on information maintained in the DEG comment logs.

Consultant shall update the Electrical, Instrumentation, and Control (EI&C) DEG that was developed in Phase I of the Project. The update shall focus on defining industry standards for IT and OT facilities and equipment, and SCADA/HMI/PLC integration. Consultant shall lead a series of up to six workshops focused on relevant topics including industry standards for IT/OT equipment, network separation, the Purdue model, and cybersecurity. Chapters of the DEG corresponding to the workshop topic will be developed in parallel with the workshops and submitted for Metro's review prior to finalization.

Assumptions

- EI&C DEG workshops shall be in-person, two hours each, with up to two Consultant staff attending.
- SCADA HMI Standards DEG will be developed under a separate authorization, in coordination with the work included in this document. It will be completed to a 90% level by December 2026, and completed after Metro Water staff have toured relevant facilities.

Deliverables

- DEG change log
- Draft and Final EI&C DEG



5.2 Seismic Design Guidelines (Not Used in Phase 2)

Not used in Phase 2.

5.3 Project Delivery Alternatives (Not Used in Phase 2)

Not used in Phase 2.

5.4 Member City and Partner Coordination

As requested, Consultant shall coordinate with Metro Water's member cities and regional partners to communicate with Project stakeholders regarding the Project objectives, findings, and recommendations.

Work under this subtask may include preparing presentations, attending meetings and workshops, and preparing technical memoranda.

Communication with stakeholders shall be done in coordination with Metro Water's public outreach consultant.

Assumptions

- Up to 160 hours of support from Consultant staff will be provided

Deliverables and Workshops

- Meetings, analysis, and technical memoranda as requested by Metro Water

5.5 Permitting & Regulatory Support

Consultant shall update the matrix of local, state and federal permits developed in Phase 1, and prepare a permitting schedule for integration with the overall project schedule. Consultant shall maintain and update the permit matrix and schedule as information is generated.

Consultant shall submit the Phase 1 Basis of Design Report (BODR) to Division of Drinking Water (DDW) and facilitate a review workshop. Consultant shall respond to DDW's comments on the BODR and resubmit, if required. Consultant shall also facilitate a review workshop with DDW to review the 30% design as an informational update (a formal review is not anticipated).

To preserve the option to use federal funding for construction, required permitting activities for NEPA, Section 106 (cultural resources) and Section 7 (endangered species) will be initiated during this Phase.

Assumptions

- Permitting and regulatory requirements that are associated with use of federal funding will be identified and included in the Permit Matrix and Schedule.



Phase 2 Scope of Work and Budget

5 Design Support

- Permit applications will not be prepared or submitted during Phase 2.
- Permitting matrix will specifically identify requirements that apply only to projects receiving federal funding.
- DDW BODR Review workshop will be in-person, up to two hours in duration, with up to four Consultant staff attending.
- Cottonwood Heights is the AHJ for Building Permits and SLEDS
- Up to twelve meetings with Cottonwood Heights and other local AHJs to review permitting process. Up to three Consultant staff (including geotechnical subconsultant) will attend each meeting.
- Up to 750 hours of federal permitting work will be provided.

Deliverables

- Project size and permitting and inspection needs presentation to AHJs
- Updated Permit Matrix and Schedule
- Meetings with Cottonwood Heights
- Progress Meetings with DDW
- 30% Review Workshop with DDW
- Federal permitting documentation for NEPA, Section 106, and Section 7 (as required)

5.6 Geotechnical Engineering

Geotechnical engineering work during Phase 2 will provide detailed design criteria and guidance for development of Contract documents. It shall also assess the slope stability beneath existing structures above Little Cottonwood Creek.

5.6.1 Field Study

Complete a field study to supplement existing LCWTP subsurface data (to be provided by Metro Water) in order to characterize site conditions and provide data for analyses and subsequent development of recommendations.

5.6.2 Laboratory Study

Complete a laboratory study to evaluate engineering properties of soils and provide data to inform analyses and subsequent recommendations.

5.6.3 Dynamic Slope Deformation Analysis

Develop estimations of slope deformation using dynamic numerical modeling that are more robust than those developed as part of the project's Phase 1 study.



5.6.4 Analysis, Recommendations and Reporting

Perform analyses to develop geotechnical design recommendations and construction considerations for the project and present such in a written document (geotechnical report).

5.6.5 Meetings and Project Development

Support project team through participation in project meetings and with project management.

Assumptions

- The actual number, depth, and location of test holes are approximate and may change based on site conditions, overhead and underground utilities, permitting, access or other considerations.
- Up to 120 hours of effort for meetings and project development will be provided

Deliverables and Workshops

- Geotechnical field study plan
- Draft and Final Geotechnical Report

5.7 Subsurface Utility Investigation

Using existing record drawings and recent location and mapping as a guide, Consultant shall coordinate with Metro Water during an on-site meeting and site walk to identify critical buried utilities for verification during Phase I. Consultant shall prepare a map and hire a subsurface utility investigation contractor to conduct potholing.

Assumptions

- Work will be coordinated with other recent topographic mapping and Metro Water subsurface investigations.
- Up to two days of field time with a single mobilization for potholing is assumed, allowing approximately 8 potholes.
- Potholes shall be backfilled with flowable fill to restore surface condition in paved areas.
- Work will be coordinated with topographic surveying.
- Subsurface investigation report will include potholing information, utility identification, and verified utility location.

Deliverables and Workshops

- Subsurface Investigation Site Walk
- Subsurface Investigation Plan
- Subsurface Investigation Report



5.8 Topographic Survey

Consultant shall provide additional topographic survey work to increase the level of detail or confirm ambiguous or conflicting information.

Consultant shall provide limited 3D point cloud collection and model development to support design of demolition and connections to existing structures,

Assumptions

- Up to 100 hours of field and office survey effort will be provided.
- Additional survey work will be coordinated with and approved by Metro Water.
- 3D Scanning effort will be tailored to the budget allocated.

Deliverables and Workshops

- Topographic survey and 3D information collection plan
- Additional survey files and models of existing structures

5.9 BIM Model Development *(Not Used in Phase 2)*

5.10 Architectural Support *(Not Used in Phase 2)*

5.11 Coordination with Other Metro Water Projects

Consultant shall coordinate with other Metro Water project teams including, but not limited to, the Cottonwood Connections project, Raw Water Little Cottonwood Conduit (LCC) Replacement Project, Finished Water Optimization Project, and the Conduit and Fiber Discovery Project, on an as-needed basis to share information, and coordinate interrelated components. This coordination will generally consist of meetings between project teams to coordinate findings and recommendations, and identify efficiencies related to schedule and project delivery.

Assumptions

- Task does not include technical review of other projects' deliverables for quality control purposes.
- Consultant shall attend up to six meetings to coordinate with other project teams. Each meeting will be hybrid, two hours, with up to three Consultant staff attending.
- Task includes up to 40 hours of Consultant time, in addition to the meetings above.

Deliverables and Workshops

- Coordination Meeting Attendance
- Project Information Presentations



5.12 Value Engineering

Consultant shall lead a value engineering study to identify opportunities to reduce cost, optimize schedule, avoid risk, and improve the performance of the project. Results of the VE process will be reviewed by Metro Water to determine which recommendations should be considered for incorporation into the project.

Assumptions

- Consultant will lead VE study following completion of the draft Preliminary Design Report and construction cost estimating.
- VE workshop shall be a full day
- CM/GC staff will participate in VE study.
- Metro Water may invite independent experts to participate in VE workshop, outside of Consultant's contract.
- Up to six Consultant Team members will participate in VE workshop.

Deliverables

- Information packet for VE Workshop Participants
- VE Report
- Responses to VE Report Recommendations

5.13 Construction Cost Estimating

During development of Preliminary Design documents, Consultant's cost estimators shall provide cost estimating as requested to support alternatives evaluation.

Consultant shall develop a Basis of Estimate (BOE) Report that establishes pricing assumptions that will be used by the Consultant and CM/GC to prepare and reconcile the cost estimates. The BOE Report will also include design information that supplements the 30% Construction Documents, containing information that does not necessarily represent a design recommendation, but establishes a common basis for cost estimating.

Consultant shall provide a full cost estimate at the 30% milestone that will be compared to the 30% Guaranteed Maximum Price (GMP) provided by the CM/GC. Consultant will review the CM/GC estimate and prepare a memo documenting comments for submittal to Metro Water. Consultant will attend a GMP review workshop to discuss comments with the CM/GC and Metro Water.

Assumptions

- Work shall be performed in accordance with the Association for the Advancement of Cost Engineering (AACE) guidelines, project-specific estimating policies, and standard Consultant estimating procedures. The 30% estimate shall conform to AACE Class 3 guidelines.



Phase 2 Scope of Work and Budget
5 Design Support

- During Phase 2 design development, Consultant will obtain budgetary pricing from vendors and suppliers. Consultant will coordinate with CM/GC to confirm appropriate use of vendor quotes in cost estimating.
- Consultant and CM/GC will develop a common structure for cost estimating and define approach to estimate reconciliation. Decisions will be documented in the BOE Report
- Up to 100 hours of cost estimating support will be provided during design development
- Reconciliation workshop will be approximately 3 hours in duration, in-person, with up to four Consultant staff participating.

Deliverables and Workshops

- Informal cost estimates for alternative development and analysis
- Estimating Protocol Workshop
- Draft and Final Basis of Estimate Report
- 30% OPCC
- Quantity Reconciliation Workshop
- Cost Reconciliation Workshop
- Cost Estimate Reconciliation Report

5.14 Water Quality and Treatment Evaluations

Consultant shall support Metro Water's water quality and treatment evaluations, with the overall goals of:

- Finalizing the design criteria for process facilities included in the LCWTP Rebuild Project,
- Defining design criteria for projects deferred until after completion of the LCWTP Rebuild Project,
- Performing testing needed to satisfy regulatory requirements,
- Recommending operational changes to LCWTP and Point of the Mountain Water Treatment Plant (POTMWTP) for implementation during construction of the LCWTP Rebuild Project.

Desktop studies (WaterPro or RTW Model) will be used to evaluate theoretical changes to water quality including doses for pH adjustment chemicals and coagulation chemicals. Results from desktop studies will not be a separate deliverable, but will be used to support other tasks such as bench scale testing, pilot testing and development of design criteria. If relevant, model results will be included in test plans or results TMs.

5.14.1 Testing Plan

Consultant shall prepare a Water Quality and Treatment Evaluation Plan that describes the work to be performed under this Subtask, with a detailed activity schedule (including regular water quality lab testing schedule) and table of roles and responsibilities for implementing the work.

A preliminary testing outline for future Phases (i.e., Detailed Design, Construction, and Commissioning and Startup), will also be prepared. The outline will provide an overview of anticipated activities and roles and responsibilities but will not include a detailed schedule.



Phase 2 Scope of Work and Budget
5 Design Support

Deliverables:

- Phase 2 Water Quality and Treatment Evaluation Plan
- Future Phase Testing Outline.

5.14.2 Bench Testing

Bench testing (jar testing) will be used to evaluate performance of alternative coagulants, pH adjustment and their impact on finished water quality.

A kickoff meeting will define the detailed scope of testing (specific coagulants and coagulant aids, specific analyses to be performed). At the conclusion of testing, results will be presented in a Findings Workshop and documented in a final TM.

Assumptions

- Roles:
 - Metro will provide jar test equipment
 - Consultant will write the Testing and Sampling Plan
 - Consultant will be onsite for jar tests, 7 days per test period, both to perform the testing and to train Operations staff on the procedures
 - Metro will assist with jar tests while Consultant is onsite, and perform additional jar tests if needed
 - Consultant will host daily check-ins evaluate previous performance and determine that day's testing protocol
 - Metro will perform water quality testing
 - Bench analyzers available to Metro staff include chlorine, pH, turbidity, UV254, zeta potential
 - Lab tests will include total organic carbon, alkalinity, chloride, and sulfate
 - The methodology for testing disinfection byproducts (TTHMs, HAA5s) will be determined during the development of the test plan, with the goal to appropriately utilize direct and surrogate (e.g. UV254) test methods that will provide useful results while minimizing impacts to the lab and duration of jar tests.
 - Metro's Water Quality Lab cannot accommodate testing for disinfection byproducts in the first month of the quarter, due to regulatory sampling schedules.
 - Metro will collect and analyze water quality data
 - Consultant will write the Bench Test Results TM
- Three periods of jar testing will be performed to capture various water quality conditions:
 - Fall warm water/algal event
 - Spring runoff (low alkalinity, high turbidity)
 - "Summer (peak flow)" operation
- Jar tests will be performed on combined raw water that has been ozonated but before any other chemical addition



Phase 2 Scope of Work and Budget

5 Design Support

- Three coagulants will be evaluated
- The existing plant coagulant aid will be used
- Jar tests will determine the optimal pH range for each coagulant / coagulant aid combination.

Deliverables and Workshops

- Bench Test and Sampling Plan (Draft and Final)
- Bench Test Kick-off Meeting (Agenda and Minutes)
 - To be held after submittal of the Draft Test and Sampling Plan, before submittal of the final Test and Sampling Plan
- Bench Test Results Memo (Drafts and Final)
 - Drafts will be provided after each cohort of testing (3).
 - The final report will be comprehensive of all bench testing and include recommendations to meet the goals described in 5.14.
- Bench Test Results Workshop (Agenda and Minutes)
 - To be held after the draft of the final cohort of tests, before submittal of the final memo.

5.14.3 Pilot Testing

Pilot testing will be used to evaluate filter media performance with the intent of validating increased filtration rates above 6 gallons per minute per square foot.

A kickoff meeting will define the detailed scope of testing (e.g., media type and depth, backwash procedure) and a test plan will be developed to document design criteria, water quality analysis and success factors. A results TM will be produced by Stantec summarizing the results of testing for submittal to DDW.

Assumptions

- Roles
 - Consultant will purchase and deliver to the site a pilot skid with four filter columns (6" diameter) complete with media, backwash and air scour systems, sample taps, flow meters, turbidimeters, and pressure transmitters
 - Consultant will provide recommendations for media configuration for each trial (anthracite and silica sand only)
 - Metro will be responsible for installation of the pilot equipment, in a location protected from inclement weather and sunlight.
 - Metro will be responsible for supplying power, settled water, drainage, chemicals, lighting, SCADA and data historian, operations, sampling, laboratory analysis, and related utilities to allow full pilot plant functionality
 - Metro will be responsible for permitting, if necessary
 - Metro will be responsible for pilot plant decommissioning
 - Consultant will be onsite for 3 weeks (15 working days) per test period for pilot startup and initial operation



Phase 2 Scope of Work and Budget

5 Design Support

- Metro will perform the remaining piloting activities
- Consultant will host daily check-in meetings to discuss previous performance and determine future testing protocol
- Consultant will write the Pilot Testing Results Memo
- Each test period will include 30 days of stable (not necessarily continuous) operation
 - Spring runoff (low alkalinity, high turbidity)
 - Peak flow (July)
 - Fall warm water/algal event
- The source water for the pilot will be the existing settled water. The water quality will be similar to or more challenging than the expected settled water after the rebuild project has been executed.
- Biologically active filtration will not be evaluated

Deliverables and Workshops

- Pilot Test Plan (Draft and Final)
- Pilot Test Kick-off Meeting (Agenda and Minutes)
 - To be held after submittal of the Draft Pilot Test Plan, before submittal of the Final Pilot Test Plan
- Pilot Test Results Memo (Drafts and Final)
 - Drafts will be provided after each cohort of testing (3).
 - The final report will be comprehensive of all pilot testing and include recommendations to meet the goals described in 5.14.
- Pilot Test Results Workshop (Agenda and Minutes)
 - To be held after the draft of the final cohort of tests, before submittal of the final memo.
- Two Presentations to the Department of Drinking Water
 - Pilot Test Plan meeting
 - Pilot Test Results meeting

5.14.4 Process Recommendations

Based on the results of the Bench and Pilot Testing, Consultant shall prepare a report documenting recommendations for treatment process design and operation during construction and post-construction. Report will include the following.

- Recommended design criteria
- Recommend operation strategies

Deliverables

- Process Recommendations Workshop
- Process Recommendations



5.15 Physical Security

Consultant shall review and assess the current status of physical security measures at the LCWTP. Work shall include review of existing documents and a site assessment of the existing physical security systems.

In collaboration with Metro Water staff, Consultant shall define a desired physical security Level of Service and make prioritized recommendations for addressing deficiencies and vulnerabilities as follows:

- Near-term recommendations for implementation prior to or during Rebuild construction
- Recommendations for temporary implementation during construction
- Recommendations for permanent features included into Rebuild construction
- Long-term recommendations for consideration after completion of Rebuild.

Assumptions

- Kickoff meeting and site visit will be 4 hours in duration, with up to four Consultant staff attending.
- Other workshops will be hybrid, two hours in duration, with two consultant staff in person and two attending remotely.

Deliverables and Workshops

- Security kickoff meeting and site visit
- Security LOS Review Workshop
- Security Recommendations Workshop
- Implementation Plan Workshop
- Recommendations and Implementation Report

5.16 Public Engagement

Consultant shall support public outreach and public involvement efforts led or approved by Metro Water, such as providing technical information and attending public meetings.

Consultant shall attend monthly Public Engagement & Communications Update meetings led by Metro Water.

Assumptions

- Monthly Public Engagement Update Meetings will be 1 hour with up to 2 Consultant staff attending, either in-person or remotely. Metro Water will lead these meetings.
- Up to 80 hours of support shall be provided for generation of materials and meeting attendance (other than monthly update meetings) as requested



Deliverables

- Monthly Public Engagement Calls
- Technical content for public information and outreach materials

5.17 Sustainability and Energy Planning

Consultant shall collaborate with Metro Water to evaluate opportunities to improve the sustainability of the entire LCWTP campus, with specific emphasis on the facilities and infrastructure included in the Rebuild. This effort will establish a conceptual long-term plan for integrating sustainability into campus planning, design, and operations so that sustainability objectives are considered alongside resilience, reliability, operability, maintainability, constructability, and cost.

Stantec will host three two-hour interdisciplinary collaborative Sustainability Workshops to clearly define sustainability goals and identify opportunities for improving sustainable performance while reducing design conflicts. The three workshops will be held with the three key team members: the Owner (Metro Water), the Designer (Stantec), and the CM/GC. The Sustainability Workshops will provide an overview of the Envision process, review each relevant credit for potential Envision achievement, and discuss potential opportunities or barriers to addressing the Envision requirements.

Utilizing feedback provided by the key Project Team members and the results of the background documentation review, Stantec will develop an Envision Feasibility Study outlining the credits and points anticipated to be pursued for the Project. The Study will also identify additional sustainability opportunities aligned with Project priorities that could be incorporated into future design phases.

The Envision Feasibility Study will include an Envision V3 Scorecard, which is a credit-by-credit analysis identifying the applicability of the credit, estimated levels of achievement, and the projected overall Award level (Verified, Silver, Gold, or Platinum). The Study will recommend a suitable Verification level, outlining whether additional studies may be necessary to advance to the desired level of performance.

Upon submission of the Draft Envision Feasibility Study, Stantec will host a 1-hour meeting with Metro Water to present the results and to achieve a consensus on the credit strategy. Feedback received during the meeting will be incorporated into the Final Envision Feasibility Study, which will establish the recommended sustainability strategy for the Project.

For non-process structures such as administration, laboratory, maintenance, warehouse, and other occupied support buildings, Consultant shall evaluate the cost and benefits of defining project-specific LEED goals using the LEED BD+C framework, and work with Metro Water to establish a target certification level, if any.

Assumptions

- Sustainability Workshops will be attended by up to four Consultant staff. Each workshop will be approximately two hours in duration.
- Envision Feasibility Study Review Meeting will be one hour in duration.

Deliverables and Workshops

- Sustainability Workshops



Phase 2 Scope of Work and Budget

6 Condition Assessment (Not Used in Phase 2)

- Envision Feasibility Study

6 Condition Assessment *(Not Used in Phase 2)*

7 Alternatives *(Not Used in Phase 2)*

8 BODR *(Not Used in Phase 2)*

9 CM/GC Support

Consultant shall provide support as requested for procurement and administration of the CM/GC Contract.

9.1 Selection Support

As requested, Consultant shall support Metro Water's efforts to select and enter into a contract with a CM/GC. Work may include, but is not limited to, the following activities.

- Review draft Proposal Documents and Front-End Contract Documents
- Review Proposals received by Metro Water from CM/GCs and create a consolidated table of information comparing proposers against Metro Water's qualification requirements and evaluation criteria.
- Observe Interviews
- Support Contract Negotiation

Assumptions

- Rebuild project procurement and contract documents will be based largely on the documents used by Metro Water for the Little Cottonwood Conduit project.

Deliverables and Workshops

- Comments on draft procurement documents
- Summary of proposal information
- Comments on CM/GC proposals



9.2 Preconstruction Services Management Support

After Metro Water brings a CM/GC under contract, Consultant shall support management of the preconstruction services. Services will be provided as requested, and may include, but are not limited to, the following:

- Project management support, working as staff augmentation under Metro Water direction.
- Review of CM/GC work products

This subtask will also initiate quarterly partnering workshops with the CM/GC, beginning with an Onboarding Workshop in January 2027 and continuing with the first Quarterly Partnering Workshop in April 2027.

Assumptions

- The initial CM/GC Onboarding and Partnering Workshop will be a full day, with up to six Consultant staff attending.
- Quarterly Partnering Workshop will be a half-day, with up to four Consultant staff participating
- Consultant will engage an outside facilitator for Partnering Workshops
- Consultant shall provide half-time project management support for management of CM/GC contract, after CM/GC NTP.

Deliverables and Meetings

- CM/GC Onboarding/Partnering Workshop
- Quarterly Partnering Workshop

9.3 CM/GC Collaboration

Consultant shall collaborate with the CM/GC throughout Preconstruction Services. During Phase 2, this effort will include Design Orientation Workshops within the first month of the CM/GC's Preconstruction Services, and ongoing Collaboration Workshops for the remaining duration of Phase 2.

Design Orientation Workshops will bring Design Discipline and CM/GC field staff together to provide CM/GC staff with a baseline understanding of the work leading up to the BODR, allow CM/GC staff to ask questions and express their initial ideas for improving project outcomes, and establish channels for ongoing communications. Design Orientation Workshops may include the following.

- Site Layout and Construction Sequencing
- Electrical, Instrumentation and Control
- Process and Operations
- Structural and Geotechnical



Phase 2 Scope of Work and Budget

10 Design Management

Collaboration Workshops will be held approximately monthly to review design progression, design model development, constructability concepts, potential early construction packages, development of costs, and other topics as suggested by Consultant, Metro Water or the CM/GC.

As requested, Consultant shall participate in up to 80 hours of additional collaborative activities.

Assumptions

- Consultant, CM/GC and Metro Water shall collectively define topics for Design Orientation Workshops
- Consultant shall organize up to five half-day Design Orientation Workshops. Up to six Consultant staff shall participate, with up to three traveling.
- Consultant shall organize up to four Collaboration Workshops. Up to six Consultant staff shall participate, with up to two traveling.

Deliverables and Meetings

- Design Orientation Workshops
- Monthly Collaboration Workshops

10 Design Management

Consultant shall provide technical oversight and direction for detailed design, implement the Design Quality Management Plan (DQMP), and coordinate overall technical efforts.

10.1 Design Coordination & Oversight

At the start of detailed design, Consultant shall prepare a Design Production Manual (DPM). The DPM will define the design production workflow including anticipated content (primarily drawings, specifications and calculations), by discipline, for each milestone deliverable. The DPM will incorporate the CADD/BIM Manual and City and Program standards. The design manual will include a description of the document and review comment management procedures to be employed.

The DPM will include a schedule of technical collaboration meetings that cover major design topics. Meetings will be held approximately every two weeks, with agenda and background materials provided one week in advance. Meetings may cover multiple topics, and meeting attendance will vary based on the topic(s) covered. Additional technical focus meetings will be scheduled as needed to coordinate specific technical issues.

The DPM will incorporate the CADD/BIM Implementation Plan and Design Quality Management Plan described in other Subtasks.



Phase 2 Scope of Work and Budget

10 Design Management

Assumptions

- Technical Coordination workshops will be coordinated with Decision Log
- The DPM will include detailed lists of contents for design deliverables by Discipline and Phase.
- The DPM will describe the information to be connected to BIM

Deliverables

- Draft and Final Design Production Manual
- Schedule of technical collaboration meetings

10.2 Design Quality Management

Consultant shall define design quality management procedures and document them in a Design Quality Management Plan (DQMP).

During design work, Consultant shall monitor quality management activities, assure compliance with the DQMP, and prepare a Quality Assurance Report for the Preliminary Design Documents.

Assumptions

- The DQMP will be address the full design process through production of Issued for Construction (IFC) Documents.
- The DQMP will supplement the general Project Quality Management Plan.

Deliverables

- Draft and Final Design Quality Management Plan.
- Quality Assurance Report

10.3 BIM Management

Prior to initiating detailed design, Consultant shall establish a detailed plan for the development of electronic models and design drawings. The plan will define software used by each discipline, data exchange and extraction procedures, and drawing production procedures. Electronic file formats to be provided at each milestone deliverable will be defined.

Assumptions

- Consultant may select BIM authoring tools.
- Facilities will be modeled to a 350 Level of Development (LOD 350) as defined by the Building Information Modeling Protocol Form G202-2017.
- Final deliverables will conform to Metro Water standards.



Phase 2 Scope of Work and Budget

11 Preliminary Design (30%)

- BIM content will ultimately be shared with CM/GC, but virtual design and construction (VDC) data and file format requirements will be established in collaboration with Metro Water and CM/GC after production of 30% Construction Documents.

Deliverables

- Draft and Final CADD/BIM Management Plan

11 Preliminary Design (30%)

During Preliminary Design, Consultant shall advance the design to approximately a 30% level. The objective of this phase is to obtain approval from Metro Water on the general arrangement of the proposed design. It also develops the overall process configuration from a schematic and spatial configuration. This includes completion of all major Process, Electrical and Instrumentation schematics and diagrams, completion of major process calculations. Civil, Structural, Architectural and Process Mechanical models of all major process areas will be developed.

Design Milestone Workshops. At each milestone deliverable, Consultant shall facilitate a workshop to present and discuss the contents of the design. Consultant's presentation materials shall focus on key questions and decisions and include 3D renderings of facilities to facilitate review by Metro staff.

The scope, schedule and budget for this Task are based on an assumption that there will be no significant changes in the design criteria and decisions documented in the BODR. If potential changes are identified, they will be reviewed under the Change Management workflow.

11.1 Workshops and Technical Memoranda

Consultant shall coordinate design development and decision making through a series of technical collaboration workshops. Workshops will likely cover the topics listed below, with additional workshops identified during initial Phase 2 planning efforts. These workshops may be supplemented by Technical Memoranda (TMs) prepared as background information or as follow-up documents.

- Workshop Planning and Coordination
- Process Design Criteria
- Site Layout, including temporary and permanent changes to site access
- Plant and System Hydraulics
- Civil Design
- Corrosion Control
- Electrical Design
- I&C Design
- Architectural Design
- Resilience



Phase 2 Scope of Work and Budget

11 Preliminary Design (30%)

- Operations & Maintenance
- Visualization Implementation
- Design Safety
- Construction Sequence and Schedule
- Sustainability, including renewable power
- Temporary Construction Access and Laydown
- Central Heating System Replacement
- Project Evaluation and Prioritization
- Project Selection and Recommendations
- Site Entrance and Off-site Roadway Improvements

Consultant shall also provide up to 12 informal “brownbag” workshops to discuss topics of general interest (e.g., coagulation, ozone dosing) to provide Metro Water staff with background or educational information.

Assumptions

- Up to 24 technical collaboration workshops will be held on a regular schedule, approximately every two weeks during detailed design. The agenda for these meetings will include general design progress, inter-discipline coordination, and design and change management. Meetings will last up to 3 hours. Consultant attendance at technical collaboration meetings will include PM and/or DPM, and up to four additional Consultant staff. Two of the workshops will include 3D walkthroughs using VR goggles.
- Up to 10 Technical Memoranda will be prepared providing detailed information or analysis on a topic, typically as background material for a workshop or as follow-up to a workshop. Technical Memoranda may be left in draft form, if no significant changes are needed, or revised to reflect Metro Water comments.
- Copies of presentation materials for “brownbag” workshops will be provided. Consultant will not produce meeting summaries. Metro Water may record presentations.
- Up to 12 approximately monthly “brown bag” workshops on topics of interest to be determined.

Deliverables

- Agenda, background materials and summaries for technical collaboration workshops
- Technical Memoranda

11.2 Design Documents

Consultant shall produce 30% Design Documents based upon the project as established in the BODR. Design Documents will include Contract Documents (Drawings and Specifications) and supporting documents including calculations and technical memoranda.



Phase 2 Scope of Work and Budget

11 Preliminary Design (30%)

The 30% Deliverable will include the content shown in Table 1. Detailed descriptions of deliverable content and the level of completeness to be provided will be included in the Design Production Manual. Where specifications are identified, these will be preliminary and subject to further refinement during later design phases. An estimate of the drawing count by discipline and area is provided in Table 2.

Table 1. Design content for 30% Deliverable.

Discipline	Drawings	Specifications	Calculations
General	<ul style="list-style-type: none"> Cover Sheet Vicinity Map and Location Map List of Drawings Abbreviations Symbols Pipe Schedule Process Flow Diagrams – Main Process and Residuals Hydraulic Profiles Design Criteria 	<ul style="list-style-type: none"> Table of Contents 01 31 30 Schedule and Construction Constraints 	<ul style="list-style-type: none"> Facility HGL Chemical Storage and Usage
Civil	<ul style="list-style-type: none"> Survey & Base Mapping <ul style="list-style-type: none"> Existing piping and ductbanks Site Layout <ul style="list-style-type: none"> Existing Utilities and Relocations Staging Areas Preliminary Surface Grades Roads and Paved Areas Pipelines (12" and larger) Pipeline Corridors (<12") Drainage and Stormwater Management Features Domestic Wastewater Features New Utility Services Ductbank Corridors 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Stormwater and Drainage Pipe sizing Cut and fill quantities
Landscape Architectural	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None
Architectural	<ul style="list-style-type: none"> Code compliance Floor plans Sections Elevations 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None
Structural	<ul style="list-style-type: none"> Plans: Foundation, intermediate and top Sections 	<ul style="list-style-type: none"> 03 31 00 Cast-in-Place Concrete 	<ul style="list-style-type: none"> Preliminary stability Preliminary element sizing Preliminary loads
Process Mechanical	<ul style="list-style-type: none"> Plans showing locations of major equipment, exposed piping > 12" in diameter Major equipment list 	<ul style="list-style-type: none"> As identified for early procurement 	<ul style="list-style-type: none"> Solid and Liquid Flow Balance Process Equipment Sizing Pump Sizing



Phase 2 Scope of Work and Budget
11 Preliminary Design (30%)

Discipline	Drawings	Specifications	Calculations
Building Mechanical	<ul style="list-style-type: none"> Campus heating strategy Plans showing locations of major plumbing & HVAC equipment 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> HVAC Equipment Sizing HVAC Control Strategy
Instrumentation & Control	<ul style="list-style-type: none"> Process & Instrumentation Drawings Plant Control System Block Diagram 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None
Electrical	<ul style="list-style-type: none"> One-Line Diagrams Electrical Site Plan Preliminary Electrical Room Layout 	<ul style="list-style-type: none"> As identified for early procurement 	<ul style="list-style-type: none"> Preliminary Load Calculations

Table 2. Drawing Count by Discipline and Area.

Discipline	Area												Total
	General	00 - Non-Proc. Bldgs.	05 - Mixers	07 - Floc/Sed	10 - Filters	12 - Waste Washwater	13 - Utility Water	15 - Chem Feed	16 - DCB	17 - Electrical Systems	21 - Ozone Contact	22 - Ozone Destruct	
General	24	0	0	0	0	0	0	0	0	0	0	0	24
Demo	4	12	4	4	4	2	3	6	2	4	2	0	47
Civil	6	56	0	0	0	0	0	0	0	0	0	0	62
Landscape Architecture	3	12	0	0	0	0	0	0	0	0	0	0	15
Architectural	0	102	0	6	6	0	6	12	0	6	0	0	138
Structural	7	34	0	14	13	0	0	8	7	2	5	0	90
Process Mechanical	8	0	2	16	19	4	2	19	6	0	4	2	82
IT, Security & Fire Alarms	6	0	0	0	0	0	0	0	0	0	0	0	6
Instrumentation & Control	6	0	2	12	17	2	2	28	4	6	4	2	85
Electrical	7	17	3	5	4	4	2	8	0	9	0	0	59
Building Mechanical	16	61	2	9	6	2	2	4	0	0	0	3	105
Total	87	294	13	66	69	14	17	85	19	27	15	7	713

Assumptions

- Technical specifications will follow the 2004 MasterFormat Construction Specifications Institute (CSI) specification format.
- Drawings will be produced in Revit and Civil 3D

Deliverables

- Specifications
- Contract Drawings
- Calculations



Phase 2 Scope of Work and Budget

11 Preliminary Design (30%)

- 3D PDFs of Major Structures for use during Collaboration Workshops

11.3 Preliminary Design Report

Consultant shall prepare a Preliminary Design Report (PDR) which describes design progression from the BODR, highlighting any changes to assumptions and criteria, description of resolved and outstanding issues, and a discussion of field work, investigations, and shut-down operations. Consultant will provide an updated design schedule and identify projects for inclusion in each phase of construction and recommendations for implementation of long-term capital and maintenance projects identified and evaluated, but not included in within the scope of this Rebuild.

In addition to the narrative content of the PDR, Consultant shall prepare visualizations (3D models) of the project in a PDF format that can be manipulated by the user with Adobe Acrobat Reader.

Preliminary Design Report Table of Contents

1. Executive Summary
 2. Project Evaluation and Prioritization
 - a. Alternatives Development
 - b. Evaluation and Prioritization
 - c. Recommendations
 3. Discipline Design Narratives
 - a. General
 - b. Civil
 - c. Landscape Architectural
 - d. Architectural
 - e. Structural
 - f. Process Mechanical
 - g. Building Mechanical
 - h. Instrumentation & Control
 - i. Electrical
 - j. Sustainability
 4. Project Schedule
 5. Opinion of Probable Construction Cost
- Appendices
- A. 3D Visualizations
 - B. Value Engineering Report

Figure 1. Preliminary Design Report Table of Contents

The Draft PDR will include design and performance information about each of the Rebuild projects, including construction and O&M costs, providing a basis for alternative evaluation and prioritization. Following the PDR Review Workshop, Consultant shall organize an Project Prioritization Workshop, following the protocols established in Phase 1, to update the overall project rankings. Consultant shall use these updated rankings, the reconciled project-level construction cost estimates, and the results of the



Phase 2 Scope of Work and Budget

99 Management Reserve

financial planning work to develop preliminary recommendations for which projects to implement as part of the Rebuild. These recommendations will be presented in a Recommendations Workshop. Feedback from all of these workshops will be incorporated into a Draft Final Preliminary Design Report. Final comments on the second Draft PDR will be incorporated into a Final Preliminary Design Report.

Results of the Value Engineering Workshop and Report will be addressed in the Draft Final PDR, but any changes to project design or configuration will be made during Phase 3.

Assumptions

- The PDR Review workshop will be a half-day, and include up to eight Consultant staff

Deliverables

- Draft PDR
- PDR Review Workshop
- Project Prioritization Workshop
- Recommendations Workshop
- Draft Final PDR
- Final PDR

99 Management Reserve

In addition to the work described above, Consultant may provide services which are unplanned, urgent and/or critical to maintaining the project schedule and progress of the work. The work of this task must be specifically scoped, agreed to, and authorized in writing by Metro Water Project Manager prior to performing the work. Work areas may include but not be limited to:

- Incorporation of significant changes to the project configuration described in the BODR
- Additional surveying and geospatial measurement
- Additional financial and management consulting support
- Additional Bench or pilot testing
- Additional coordination with community and member city stakeholders
- Additional WTP tours

Deliverables and Workshops

- To be defined during authorization of additional services.



Appendix A BUDGET

- Fee Summary
- Rate Schedule



WBS	Task Name	Hours	Labor	Expense	Subs	Total
1	Project Management	2,288	\$635,490	\$13,750	\$0	\$649,240
1.01	Phase 2 Setup	224	\$59,186	\$13,000	\$0	\$72,186
1.02	Project Coordination and Direction	1,938	\$540,020	\$750	\$0	\$540,770
1.04	Future Planning	126	\$36,284	\$750	\$0	\$37,034
2	Financial Management and Consulting Support	656	\$184,098	\$7,500	\$0	\$191,598
2.01	Dynamic CIP & Financial Planning	280	\$78,348	\$750	\$0	\$79,098
2.02	Funding Support	200	\$53,670	\$4,350	\$0	\$58,020
2.03	Organizational and Technology Consulting	176	\$52,080	\$2,400	\$0	\$54,480
3	Background	472	\$130,556	\$24,000	\$0	\$154,556
3.03	Plant Tours	472	\$130,556	\$24,000	\$0	\$154,556
5	Design Support	7,085	\$1,431,534	\$439,750	\$264,550	\$2,135,834
5.01	Project Engineering Guidelines	104	\$27,084	\$750	\$0	\$27,834
5.04	Member City and Partner Coordination	160	\$40,106	\$1,500	\$0	\$41,606
5.05	Permitting & Regulatory Support	910	\$198,522	\$3,000	\$0	\$201,522
5.06	Geotechnical Engineering	1,163	\$10,336	\$0	\$246,950	\$257,286
5.07	Subsurface Utility Investigation	20	\$5,584	\$20,000	\$0	\$25,584
5.08	Topographic Survey	360	\$64,480	\$50,000	\$17,600	\$132,080
5.11	Coordination with Other District Projects	80	\$19,840	\$30,000	\$0	\$49,840
5.12	Value Engineering	216	\$57,596	\$2,750	\$0	\$60,346
5.13	Construction Cost Estimating	1,860	\$440,820	\$1,500	\$0	\$442,320
5.14	Water Quality and Treatment Evaluations	1,520	\$386,242	\$325,000	\$0	\$711,242
5.15	Physical Security	180	\$45,160	\$1,500	\$0	\$46,660
5.16	Public Engagement	152	\$43,344	\$1,500	\$0	\$44,844
5.17	Sustainability & Energy Planning	360	\$92,420	\$2,250	\$0	\$94,670
9	CM/GC Support	1,234	\$334,436	\$46,250	\$13,200	\$393,886
9.01	Selection Support	328	\$90,176	\$0	\$0	\$90,176
9.02	Preconstruction Services Management Support	494	\$136,504	\$23,750	\$6,600	\$166,854
9.03	CM/GC Collaboration	412	\$107,756	\$22,500	\$6,600	\$136,856
10	Design Management	2,952	\$755,612	\$0	\$0	\$755,612
10.01	Design Coordination & Oversight	1,520	\$408,052	\$0	\$0	\$408,052
10.02	Design Quality Management	220	\$57,928	\$0	\$0	\$57,928
10.03	BIM Management	1,212	\$289,632	\$0	\$0	\$289,632
11	Preliminary Design	19,502	\$4,199,922	\$91,750	\$0	\$4,291,672
11.01	Workshops & TMs	2,442	\$571,380	\$63,000	\$66,000	\$700,380
11.02	Design Documents	16,320	\$3,465,990	\$22,750	\$44,000	\$3,532,740
11.03	Preliminary Design Report	620	\$162,552	\$6,000	\$0	\$168,552
99	Management Reserve	3,024	\$750,000	\$0	\$0	\$750,000
99.01	Unauthorized Budget	3,024	\$750,000	\$0	\$0	\$750,000
Total		37,093	\$8,421,648	\$623,750	\$387,750	\$9,433,148



Billing Level	Billing Rate
Level 03	137.00
Level 04	145.00
Level 05	163.00
Level 06	170.00
Level 07	184.00
Level 08	191.00
Level 09	201.00
Level 10	210.00
Level 11	225.00
Level 12	238.00
Level 13	248.00
Level 14	268.00
Level 15	282.00
Level 16	300.00
Level 17	310.00
Level 18+	311.00

The above unit prices include payroll taxes, insurance costs, fringe benefits, general overhead and consultant profit. Rates valid through December 31, 2026 Rates will be adjusted in January of every subsequent year.

OTHER DIRECT PROJECT COSTS

Travel within Salt Lake County will not be billed. For travel outside the County, vehicle mileage is billed at prevailing IRS rate. Up to the allowable fee amount, reasonable employee's expenses, including meals and lodging incurred during authorized travel, are billed at actual cost. Automobile rental and airfare costs will be invoiced at actual cost. Health & safety, field and construction equipment will be invoiced according to Stantec's standard unit rates. Subcontractors, printing/graphic services, freight and courier services and use of outside vendors for supplies, materials and services will be billed at cost + 10%.

OTHER TERMS AND CONDITIONS

Unless specified otherwise, Stantec invoices will be submitted net of all federal, state and local taxes (excluding payroll related taxes and taxes against Stantec net income) as well as assessments, levies, imposts, excises and licenses.

Interest will be charged at one and one-half (1½) percent per month on the unpaid balance for late payments. A payment is late if received later than the contract-specified payment period or, if not so specified, more than 30 days after receipt of invoice by client.

Appendix B SCHEDULE

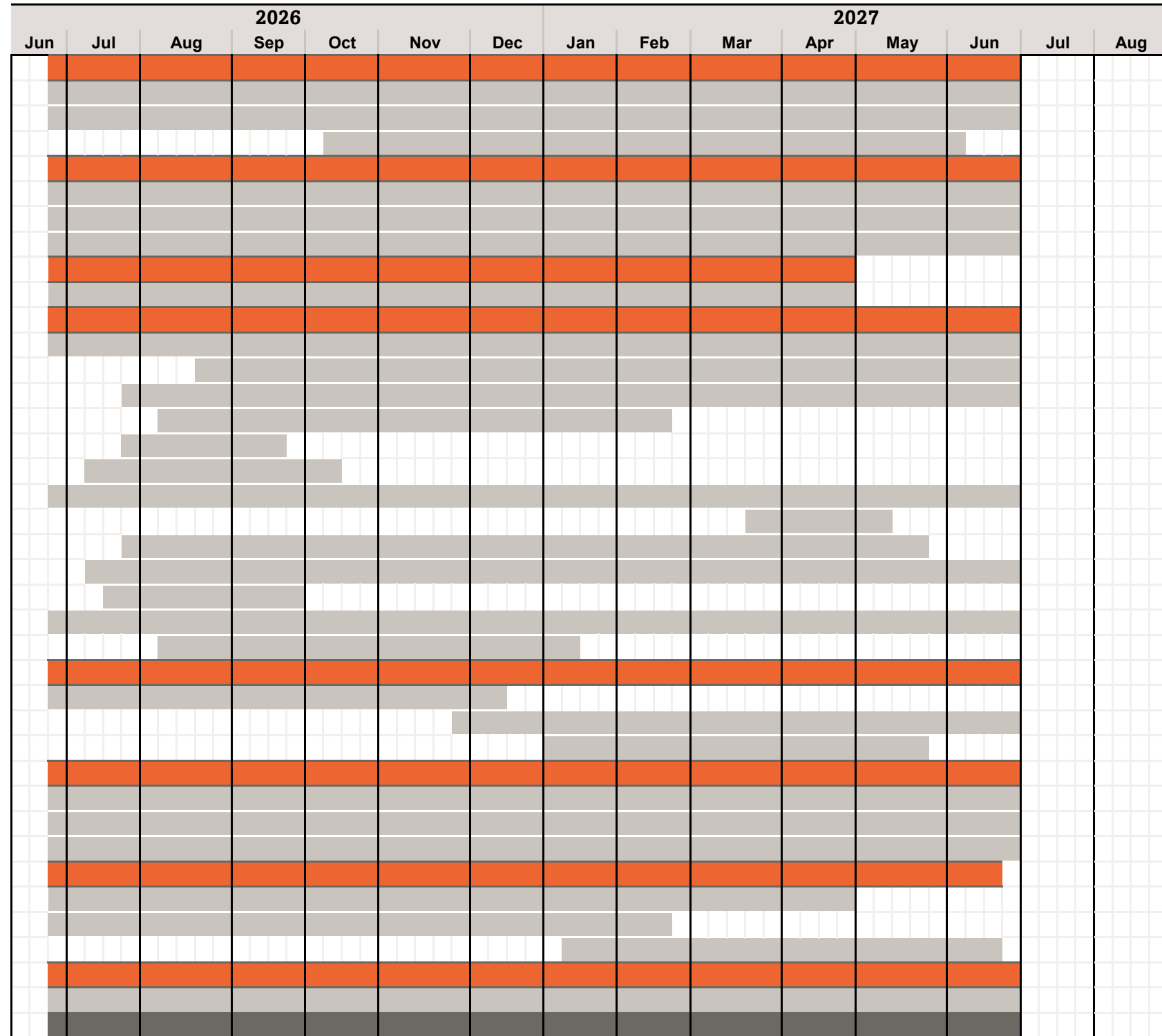
- Phase 2 Task Schedule
- Overall LCWTP Rebuild Project Schedule



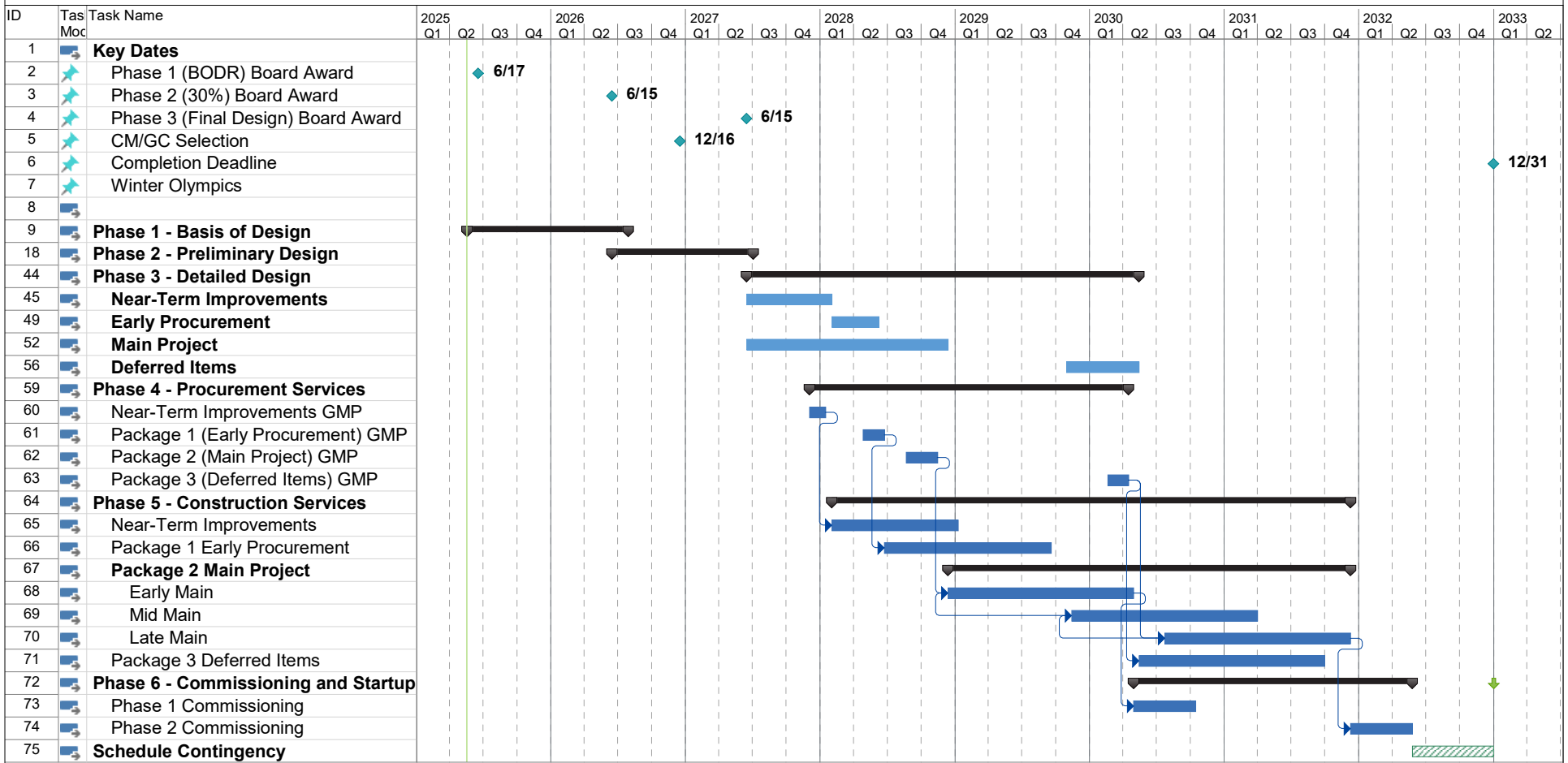
SCHEDULE

Little Cottonwood WTP Rebuild - Phase 2

WBS	Task Name	Duration (work days)	Start	Finish
1	Project Management	261	7/1/2026	6/30/2027
1.01	Phase 2 Setup	261	7/1/2026	6/30/2027
1.02	Project Coordination and Direction	261	7/1/2026	6/30/2027
1.04	Future Planning	170	10/16/2026	6/10/2027
2	Financial Management and Consulting Support	261	7/1/2026	6/30/2027
2.01	Dynamic CIP & Financial Planning	261	7/1/2026	6/30/2027
2.02	Funding Support	261	7/1/2026	6/30/2027
2.03	Organizational and Technology Consulting	261	7/1/2026	6/30/2027
3	Background	214	7/1/2026	4/26/2027
3.03	Plant Tours	214	7/1/2026	4/26/2027
5	Design Support	261	7/1/2026	6/30/2027
5.01	Project Engineering Guidelines	261	7/1/2026	6/30/2027
5.04	Member City and Partner Coordination	218	8/30/2026	6/30/2027
5.05	Permitting & Regulatory Support	239	7/31/2026	6/30/2027
5.06	Geotechnical Engineering	131	8/15/2026	2/15/2027
5.07	Subsurface Utility Investigation	37	7/31/2026	9/21/2026
5.08	Topographic Survey	65	7/15/2026	10/13/2026
5.11	Coordination with Other District Projects	261	7/1/2026	6/30/2027
5.12	Value Engineering	39	3/23/2027	5/14/2027
5.13	Construction Cost Estimating	216	7/31/2026	5/28/2027
5.14	Water Quality and Treatment Evaluations	251	7/15/2026	6/30/2027
5.15	Physical Security	51	7/21/2026	9/29/2026
5.16	Public Engagement	261	7/1/2026	6/30/2027
5.17	Sustainability & Energy Planning	110	8/15/2026	1/16/2027
9	CM/GC Support	261	7/1/2026	6/30/2027
9.01	Selection Support	119	7/1/2026	12/14/2026
9.02	Preconstruction Services Management Support	152	12/1/2026	6/30/2027
9.03	CM/GC Collaboration	105	1/4/2027	5/28/2027
10	Design Management	261	7/1/2026	6/30/2027
10.01	Design Coordination & Oversight	261	7/1/2026	6/30/2027
10.02	Design Quality Management	261	7/1/2026	6/30/2027
10.03	BIM Management	261	7/1/2026	6/30/2027
11	Preliminary Design	258	7/1/2026	6/25/2027
11.01	Workshops & TMs	218	7/1/2026	5/1/2027
11.02	Design Documents	164	7/1/2026	2/15/2027
11.03	Preliminary Design Report	115	1/16/2027	6/25/2027
99	Management Reserve	261	7/1/2026	6/30/2027
99.01	Unauthorized Budget	261	46,204	6/30/2027
Total		261	46,204	6/30/2027



LCWTP Rebuild Project Schedule



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

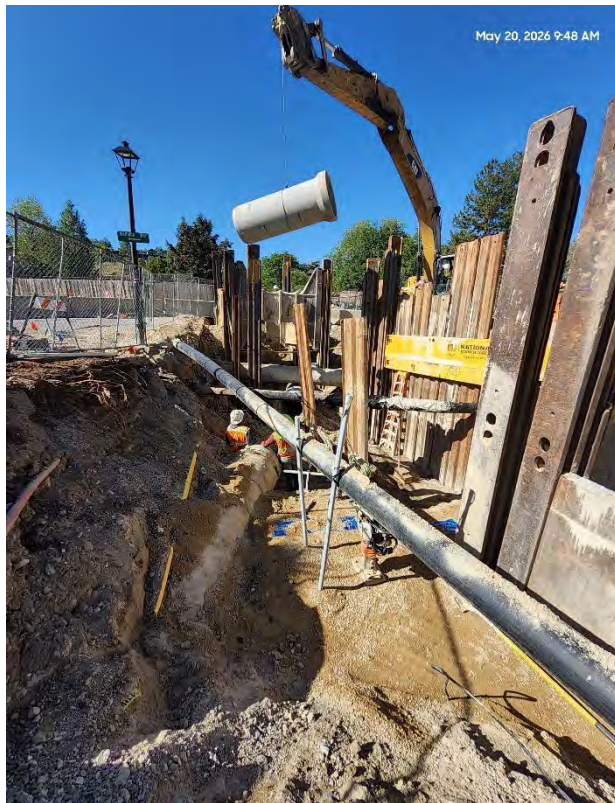
New pipeline to connect LCWTP and BCWTP and for Reach 1 of SLAR.

Status

Design Status: 100%
Construction Status (Schedule A/B): 100%
Construction Status (Schedule C): 65%

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

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



Utility relocations at the McEntire vault in Nutree Dr.



Fiber conduit install above SLAR in Danish Rd.



The McEntire Vault was installed in Nutree Dr. This vault includes piping for a future turnout from the SLAR.



SLAR installation north of the Little Cottonwood Water Treatment Plant

FY2026 Capital Projects Report
 April 22 – May 20, 2026

Budget

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

Activity	Est. Budget	Encumbered	Total Spent	FY25-Spent	FY26 Spent
ROW Acquisition	\$4,205,000	\$3,971,063	\$3,627,563	\$3,388,284	\$239,279
Total	\$4,205,000	\$3,971,063	\$3,627,563	\$3,388,284	\$239,279
Annual Allocation					\$500,000

Construction (Metro Water, 1802C-10)

Activity	Est. Budget	Encumbered	Total Spent	FY25-Spent	FY26 Spent
Design	\$2,280,114	\$2,280,114	\$2,280,114	\$2,280,114	\$-
Construction (A/B)	\$-	\$-	\$-	\$-	\$-
Construction (C)	\$43,413,192	\$45,005,040	\$24,477,887	\$9,619,980	\$16,828,098
ESDC	\$2,054,727	\$2,054,727	\$1,269,348	\$657,309	\$669,762
Public Involvement	\$308,875	\$181,842	\$103,264	\$76,789	\$40,446
Utility Relocation	\$744,711	\$666,979	\$482,350	\$276,869	\$163,150
Contingency ¹	\$4,341,319				
Total	\$53,142,938	\$50,188,702	\$28,612,963	\$12,991,060	\$17,701,456
Annual Allocation					\$22,400,000

¹ Contingency is tracked with construction encumbrance.

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

Activity	Est. Budget	Encumbered	Total Spent	FY25-Spent	FY26 Spent
Design	\$1,277,736	\$1,270,445	\$1,270,445	\$1,277,736	\$-
Construction (A/B)	\$10,552,997	\$10,552,997	\$10,552,997	\$8,575,203	\$1,977,794
Construction (C)	\$16,057,295	\$15,191,366	\$18,203,437	\$3,293,954	\$5,388,431
ESDC	\$1,489,750	\$1,489,750	\$1,239,857	\$900,877	\$358,262
Public Involvement	\$191,125	\$155,584	\$63,897	\$47,515	\$25,027
Utility Relocation	\$755,289	\$755,886	\$671,811	\$606,431	\$51,911
Contingency ¹	\$2,661,029				
Total	\$32,985,221	\$29,416,028	\$32,002,444	\$14,701,716	\$7,801,425
Annual Allocation					\$9,356,897

¹ Contingency is tracked with construction encumbrance.

FY2026 Capital Projects Report
 April 22 – May 20, 2026

Change Orders

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

Change	Submitted	Description	Cost		
			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	Cost		
			Total	Metro Water	SLCDPU/ Cottonwood Heights
CO-C01	19-Feb-25		\$ 84,075		\$ 84,075
WCD-C01		Pothole LCC	\$ 47,956		
WCD-C03		Additional LCC pothole	\$ 36,118		
CO-C02	6-Feb-25		\$ 148,951		\$ 148,951
WCD-C02		LCC replace valve	\$ 148,951		
CO-C03	18-Mar-25		\$ 116,300	\$ 88,228	\$ 28,072
WCD-C04		Replace additional block wall	\$ 116,300		
CO-C04	18-Mar-25		\$ 430,219	\$ 326,373	\$ 103,846
WCD-C07		Time extension / delays	\$ 430,219		
CO-C05	18-Mar-25		\$ 27,336	\$ 20,737	\$ 6,598
WCD-C05		CARV modifications	\$ 25,000		
WCD-C06		LCC potholing	\$ 2,336		
CO-C06	17-Jul-25		\$ 196,050	\$ 148,727	\$ 47,322
WCD-C14		Turnout vault modifications	\$ 196,050		
CO-C07	28-Jul-25		\$ 34,930		\$ 34,930
WCD-C10		LCC access change	\$ 34,930		
CO-C08	28-Jul-25		\$ 113,906	\$ 86,411	\$ 27,495
WCD-C08		Credit for coatings	\$ (61,554)		
WCD-C09		Added sewer casings	\$ 19,542		
WCD-C11		Lumen fiber relocation	\$ 20,377		
WCD-C12		Lumen fiber standby	\$ 48,653		
WCD-C13		Additional PI support	\$ 67,861		

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WCD-C15		Storm drain replacement	\$ 19,027		
CO-C09	24-Sep-25		\$ 25,060	\$ 19,011	\$ 6,049
WCD-C16		SLAR CC-2 vault changes	\$ 3,595		
WCD-C17		IO card upgrades	\$ 7,028		
WCD-C18		Gate valve installation	\$ 16,544		
WCD-C19		Power line relocation	\$ 40,722		
WCD-C20		Danish Hills owner-restoration	\$ (42,829)		
CO-C10	24-Sep-25		\$ 303,733	\$ 230,418	\$ 73,315
WCD-C21		Turnout delays	\$ 303,733		
CO-C11	29-Oct-25		\$ (39,602)	\$ (30,043)	\$ (9,559)
WCD-C22		Meter setters on Deer Creek	\$ 9,478		
WCD-C23		Fiber optic vault changes	\$ 29,645		
WCD-C24		Insurance clause update	\$ -		
WCD-C25		Electrical scope change	\$ 61,135		
WCD-C26		Sewer relocation at 26+81	\$ (37,800)		
WCD-C27		Sewer relocation at 87+30	\$ (102,060)		
CO-C12	29-Oct-25		\$ 138,873	\$ 105,352	\$ 33,521
WCD-C28		Sewer relocation at 107+00	\$ 138,873		
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	\$ -	\$ -
CO-C15					
<i>Pending</i>		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
		Total	\$ 2,226,354	\$ 898,614	\$ 1,367,741
		Percent of Contract	3.71%	1.97%	9.43%

Finished Water Strategic Conveyance Plan

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

Project Description

This project has three major objectives:

- Design to 30% the infrastructure assets to move the SLAR pipeline to Phase 3 (finished water) operations.
- Complete a comprehensive hydraulic model of all finished water conveyance assets north of LCWTP, including SLCDPU assets.
- Establish a strategic vision to optimize the delivery of finished water through operational configurations and capital investment.

Status

Design Status: 16%
 Construction Status: 0%

Workshop 2 was held on May 4 with Metro Water, Salt Lake City, and Sandy City staff present. The workshop defined operational scenarios to be hydraulically assessed. This effort allows Metro Water and its member cities to sync capital planning efforts.

Budget

Activity	Est. Budget ¹	Encumbered	Total Spent	FY25-Spent	FY26 Spent
Design	\$1,200,000	\$948,882	\$152,608	\$124,470	\$27,868
Construction	\$7,000,000	\$-	\$-	\$-	\$-
ESDC	\$280,000	\$-	\$-	\$-	\$-
Public Involvement	\$5,000	\$-	\$-	\$-	\$-
Contingency ²	\$1,000,000	\$-	\$-	\$-	\$-
Total	\$9,485,000	\$948,882	\$152,608	\$124,470	\$27,868
Annual Allocation ¹					\$400,000

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.

Salt Lake Aqueduct Replacement Reaches 2 and 3 (SA063)

Metro Water Project Manager: Kelly Stevens
Design Engineer: Kimley-Horn

Project Description

An alignment study for the extension of the SLAR finished water aqueduct to the terminal reservoirs.

Status

Design Status: 75%

A stakeholder meeting was held on April 28. The consultant submitted a class 5 cost estimate, pipe alignment options, hydraulic analysis, and continued field investigation. The project is expected to be completed by June 30.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY25 Spent	FY26 Spent
Design	\$500,000	\$500,000	\$376,110	\$-	\$376,110
Total	\$500,000	\$500,000	\$376,110	\$-	\$376,110
Annual Allocation				\$-	\$500,000

Change Orders

None.

Salt Lake Aqueduct Hardening (SA062)

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

Project Description

Preliminary design for replacement and/or slip-line of the FW SLA for seismic stability.

Status

Design Status: 100%

The Preliminary Design report and associated 30% design drawings are complete. System hydraulic work that overlaps with the Finished Water Strategic Conveyance Plan was completed in May.

Budget

Activity	Est. Budget	Encumbered	Total	FY25-	FY26
Design	\$2,000,000	\$2,000,000	\$1,873,906	\$1,124,470	\$749,436
Total			\$1,873,906	\$1,124,470	\$749,436
Annual Allocation				\$2,000,000	\$1,000,000

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: 9%

The team met on April 28 to discuss construction packaging, sequencing, and maintenance of plant operations during construction. A scope of work and fee was finalized for preliminary design services (Phase 2) that will be presented to the board in June. Permitting, project schedules, and plan review requirements were discussed with the Division of Drinking Water and Cottonwood Heights City. Staff is developing an organization chart to take the project into construction, and procurement and contract documents to bring on a construction manager / general contractor in early 2027.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY25- Spent	FY26 Spent
Design	\$36,150,000	\$1,511,028	\$1,299,497	\$-	\$1,299,497
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	\$1,511,028	\$1,299,497	\$-	\$1,299,497
Annual Allocation					\$1,650,000

¹ Contingency is tracked with construction encumbrance.

Change Orders

None.

Raw Water Little Cottonwood Conduit Replacement (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: 60%

The first preconstruction meeting with the design team and CM/GC was held May 5, coinciding with the completion of 60% design. The first design workshop and public involvement kick-off meetings were held in late May. The first cost model workshop is scheduled for June 3. Staff is currently applying for grant funding opportunities for construction.

Budget

ROW Acquisition

Activity	Est. Budget	Encumbered	Total Spent	FY25 Spent	FY26 Spent
ROW Acquisition	\$400,000	\$29,000	\$-	\$-	\$-
Total	\$400,000	\$29,000	\$-	\$-	\$-
Annual Allocation					\$-

Construction

Activity	Est. Budget	Encumbered	Total Spent	FY25 Spent	FY26 Spent
Design	\$1,500,000	\$1,406,695	\$606,591	\$238,550	\$368,041
Construction	\$20,000,000	\$-	\$-	\$-	\$-
ESDC	\$800,000	\$-	\$-	\$-	\$-
Public Involvement	\$10,000	\$10,000	\$-	\$-	\$-
Contingency ¹	\$2,000,000				
Total	\$24,310,000	\$1,416,695	\$606,591	\$238,550	\$368,041
Annual Allocation					\$1,100,000

¹ Contingency is tracked with construction encumbrance.

Change Orders

None.

Little Cottonwood Water Treatment Plant Administration Campus
Improvements (LC071)

Metro Water Project Manager: Augusto Robles
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: 60%
Construction Status: 25%

Electrical work is in progress and pushing to be complete by June 30. Staff expects to receive the 90% HVAC design drawings and specifications in June. The portable office building is expected to arrive on June 5.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY25- Spent	FY26 Spent
Design	\$240,000	\$242,063	\$114,121	\$42,393	\$71,728
Construction	\$800,000	\$724,750	\$159,753	\$-	\$159,753
ESDC	\$60,000	\$-	\$-	\$-	\$-
Total	\$1,100,000		\$273,873	\$42,393	\$231,481
Annual Allocation					\$1,050,000

Change Orders

None.

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Fleet Program Replacement

Metro Water Project Manager: Michael Carter

Project Description

Replace a fork lift.

Status

The forklift was received in early July.

Budget

Activity	Annual Allocation	Encumbered	Total Spent
Fork Lift	\$50,000	\$41,090	\$41,090
Total	\$50,000	\$41,090	\$41,090

Little Dell Dam Improvements

Metro Water Project Manager: Ammon Allen

Project Description

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

Status

Fiscal year 2026 expenses are complete.

Budget

Activity	Annual Allocation	Encumbered	Total Spent
Little Dell Dam Improvements	\$150,000	\$148,797.64	\$148,797.64
Total	\$150,000	\$148,797.64	\$148,797.64

Repair and Replace

Project Description

Routine repair and replace non-capacity capital investments.

Status and Budget

Activity	Annual Allocation ¹	Project Manager	Total Encumbered	Total Spent	Update
LCWTP EQ Basin Improvements	\$150,000	Andy Reidling	\$109,643	\$100,075	The pump building roof was coated and a skylight ordered. The project is nearing completion.
POMFWP RVSS	\$150,000	Alex Reidling	\$50,350	\$-	Staff ordered the soft start. Timing constraints suggest it will be installed next fiscal year.
Replace Fuel Monitoring and Dispensing System	\$150,000	Michael Carter	\$90,241	\$89,977	The new system is in service.
Replace Cationic Polymer and Thiosulfate System Pumps	\$125,000	Andy Reidling	\$17,355	\$6,412	Staff is preparing the old fluoride building to house cationic polymer.
Annual Network Server Replacement	\$70,000	Darin Klemin	\$197,082	\$49,263	Two servers have been received. Three more are on order, including the two backup servers approved at the May board meeting.
Ultrasonic Flow Meter Replacement	\$60,000	Alex Reidling	\$-	\$-	Procurement was approved at the March board meeting.
Portable Microbiology Testing System	\$50,000	Jeff Matheson	\$41,631	\$41,631	The equipment is functioning.
Replace Chemical Transfer Pumps	\$50,000	Andy Reidling	\$49,875	\$-	Pumps are on order.
LCWTP Ozone Control Valve Replacement	\$16,000	Alex Reidling	\$12,701	\$12,701	The valve was received.
Miscellaneous	\$100,000				
Replace pipe gallery UPS		Alex Reidling	\$58,094	\$-	The UPS is expected to arrive in June.
Total	\$921,000		\$626,852	\$350,199	

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

Capacity Improvement Projects

Managed Aquifer Recharge Pilot Testing and Phase 1 (LC063)

Metro Water Project Manager: Ammon Allen
 Design Engineer: Hansen Allen and Luce
 Contractor (Wells): Hydro Resources
 Contractor (Basins): COP Construction

Project Description

Metro Water 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.

Status

The project is complete. Water was introduced on March 26, 2026.

Budget

Activity	Est. Budget	Encumbered	Total Spent	FY25-Spent	FY26 Spent
Implementation Plan	\$96,000	\$78,488	\$78,488	\$78,488	\$-
Design (incl. ESDC)	\$965,500	\$961,937	\$934,912	\$849,206	\$85,706
Construction (Wells)	\$3,858,163	\$3,352,991	\$3,352,991	\$3,352,991	\$-
Construction (Basins)	\$5,828,221	\$5,601,873	\$5,601,873	\$5,533,873	\$68,000
Other District Purchases ¹	\$94,500	\$43,030	\$31,369	\$11,029	\$20,340
Total	\$10,842,384	\$10,038,319	\$9,999,632	\$9,825,587	\$174,045
Annual Allocation					\$180,000

¹ Other District Purchases includes system integration, network equipment, and chemical testing.

Change Orders

Wells

Change	Submitted	Description	Total
1		Reduce monitoring well casing size	\$(11,225)
2		Add 50' to monitoring wells	\$25,515
3		Extend wells to 6' above grade	\$42,331
4		Monitoring well adjustments	\$36,920
5	13-Jul-23	ASR well casing adjustment	\$29,580
6	22-Nov-23	ASR well chemical treatment	\$(142,903)
7	1-Apr-24	Injection testing	\$1,625
8	23-Jul-24	Units adjustment	\$(303,293)
		Total	\$(321,450)
		Percent of Contract	-8.75%

Basins

Change	Submitted	Description	Total
1		Pipe alignment and bracing adjustments	\$(11,728)
2		ASR pump, motor, and transformer adjustments	\$62,914
		Total	\$51,186
		Percent of Contract	0.9%

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 Reaches 1 – 4, 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. Projects identified for fiscal year 2026 include:

Rehabilitation or Replacement of Existing Facilities

• JVWTP Replace Filter Media	\$ 430,857
• Normal Small Capital Improvements	\$ 276,234
• JA Normal, Extraordinary Maintenance and Replacement	\$ 223,571
• JVWTP Normal, Extraordinary Maintenance and Replacement	\$ 389,957
• TR Normal Maintenance and Replacement	\$ 19,336
• 150 th South Pipe Normal Maintenance and Replacement	\$ 10,000

New Non-Capacity Facilities (Compliance/Functional Upgrade)

• Electrical Generators and Site Modifications Phase 2	\$ 31,802
• JVWTP Filter and Chemical Feed Upgrades	\$ 1,259,506
• JVWTP Floc/Sed 1-2 Seismic Upgrade	\$ 45,116
• New Equipment and Emergency Response Building	\$ 54,000
• Jordan Aqueduct Seismic Resiliency	\$ 61,430

JVWTP Project Management Expenses \$ 50,000

Total Request FY2026: \$ 2,851,809

The following report is taken from JVWCD's April 2026 board packet and covers February 12 to March 12, 2026. A capital projects report was not included with the May 2026 board packet.

Whitaker Construction is installing new joint bonds inside the Jordan Aqueduct Reach 1 to increase cathodic protection. Interior butt straps will be installed in April.

Nelson Brothers Construction was awarded the Jordan Aqueduct Reach 2 Flow Control Structure Improvements project. The contractor is scheduling electrical work. The valve and meter replacement is scheduled to be performed in late 2026.

JVWTP Chemical Buildings HVAC Upgrades project is substantially complete; the contractor is finalizing controls on the chlorine dioxide building.

Concrete cylinders were cored from the 1580 West 3860 South Pipeline Maintenance, Equipment, and Parts Storage Facility to determine material strength as part of the seismic evaluation and retrofit design.

The contractor will mobilize in April for the JA-4 and AA-3 Cathodic System Upgrade project.

JVWCD will solicit feedback on Jordan Aqueduct Seismic Resiliency Study from CUWCD, USBR, PRWUA, and Metro Water in April.

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. Foundation work is complete with significant reinforcing steel to meet modern seismic standards.