

Tab 4

Agenda Item: Consider approval of Amendment No. 4 to SLAR-CC Project

Objective: Approve Amendment No. 4 to Hazen and Sawyer for the Salt Lake Aqueduct Replacement – Cottonwoods Connection Project.

Background: On June 13, 2022 the Board approved a professional services agreement for \$2,355,136 to Hazen and Sawyer to design the Salt Lake Aqueduct Replacement – Cottonwoods Connection (SLAR-CC) Project.

- The Board approved Amendment No. 1, which included right-of-way (ROW) support and additional engineering, for \$611,162 on January 23, 2023.
- The Board approved Amendment No. 2, which included additional geotechnical support and additional engineering, for \$129,385 on June 12, 2023.
- The Board approved Amendment No. 3, which included additional design support and engineering, for \$406,550 on September 18, 2023.

District staff is acting as the project manager, with Salt Lake City Department of Public Utilities (SLCDPU) staff assisting. SLCDPU is paying the consultant directly after invoice review and payment recommendation by District staff.

Various additional work efforts have been identified. The draft Amendment 4 was received on September 5, 2023 and has been reviewed by District and Salt Lake City staff.

Task 300: Design Management \$4,400

Additional effort to adjust MWDSL Division 00 (front end) documents to align with the use of Engineers Joint Contract Documents Committee (EJCDC) documents.

Task 300: Little Cottonwood Conduit Replacement Extension \$13,080

It has been determined that the CC-2 pipeline’s connection with the LCWTP will be best accomplished by constructing a small segment of the Little Cottonwood Conduit replacement pipeline as part of the SLAR-CC project. This will add approximately 100 to 150 feet of welded steel pipe to the SLAR-CC project.

Task 700: Right-of-Way Acquisition Support \$156,868

As a result of SLCDPU obtaining federal funding for their portion of the project, the SLAR-CC design must conform to federal guidelines for easement acquisition. This requires that all easements valued at more than \$10,000 be appraised. Previously only 20% of the properties were to be appraised.

Total \$174,348

The following table summarizes how each task will be paid by MWDSLS and SLCDPU. These shared costs are obtained by assigning each task an algorithm for sharing. These algorithms include:

- (B) a sharing agreement between SLCDPU and MWDSLS made on October 10, 2022 to share the cost as 60.3% MWDSLS and 39.7% as SLCDPU.
- (C) a sharing arrangement based exclusively on capacity sharing (35 mgd exclusive to SLCDPU of the total 145 mgd capacity of the SLAR pipeline) as 75.9% MWDSLS and 25.1% SLCDPU.
- (M) exclusively MWDSLS costs.
- (S) exclusively SLCDPU costs.

SLAR-CC Amendment No. 4 Cost Sharing

| Description | Share: <i>by Cost</i> | | | <i>by Percent</i> | | |
|--|-----------------------|----------------|---------------|-------------------|---------------|--------------|
| | Code | MWDSLS | SLCDPU | Total | MWDSLS | SLCDPU |
| 1- Design | | 159,521 | 14,827 | 174,348 | 91.5% | 8.5% |
| 3- Pipeline Design | | 2,653 | 14,827 | 17,480 | 15.2% | 84.8% |
| a. Project Management and Coordination | B | 2,653 | 1,747 | 4,400 | 60.3% | 39.7% |
| b. Pipeline Design | S | - | 13,080 | 13,080 | 0.0% | 100.0% |
| 7- ROW Acquisition Support | | 156,868 | - | 156,868 | 100.0% | 0.0% |
| b. ROW Acquisition Support | M | 156,868 | - | 156,868 | 100.0% | 0.0% |
| Grand Total | | 159,521 | 14,827 | 174,348 | 91.5% | 8.5% |

where share code:

| | MWDSLS | SLCDPU |
|----------------------------------|--------|--------|
| <i>B</i> by agreement 10/10/2022 | 60.3% | 39.7% |
| <i>C</i> by capacity 35/145 mgd | 75.9% | 24.1% |
| <i>M</i> by MWDSLS | 100.0% | 0.0% |
| <i>S</i> by SLCDPU | 0.0% | 100.0% |

Committee Activity: The Engineering Committee discussed this amendment on September 27, 2023.

Recommendation: The Engineering Committee forwards a positive recommendation to amend the SLAR-CC professional services project scope to include \$174,348 for the Amendment No. 4 tasks.

Attachment:

- Amendment No. 4 scope

Metropolitan Water District of Salt Lake & Sandy
Board Meeting Packet
Last Update: October 11, 2023

Agenda Item: Consider approval of award for Cottonwoods Connection Welded Steel Pipe preselection contract

Objective: Award preselection of pipe for the Cottonwoods Connection project.

Background: The Salt Lake Aqueduct Replacement – Cottonwoods Conduits project, collectively “Cottonwoods Connection,” includes more than 21,000 feet of new pipe ranging from 36 inches in diameter to 72 inches in diameter.

Pipe suppliers report a lead time of approximately 20 weeks from submittal approval until delivery, consisting of 8 weeks to procure material and 12 weeks to fabricate the pipe. Submittals add another 8 to 12 weeks.

The Cottonwoods Connection project is anticipated to bid beginning January 2, 2024, with award at the (tentative) February 26, 2024 board meeting. The first portion of the project (known as CC-1 East) to be constructed is within Big Cottonwood Road east of Wasatch Boulevard. This pipe must be installed before June 30, 2024 due to a UDOT resurfacing project.

The first construction milestone conflicts with pipe procurement lead time. It is in the best interest of the District and Salt Lake City Department of Public Utilities (SLCDPU) to preselect the pipe manufacturer for the project. This will allow submittals to be completed and pipe fabrication material ordered prior to construction award. The project schedule requires the pipe for CC-1 East be ordered in December. The pipe will be received and paid for by the selected contractor. This order carries some risk in that, if the project is not awarded, the District and/or SLCDPU will be obligated to receive and pay for that ordered pipe. Remaining pipe will be ordered directly by the selected contractor.

Two pipe options were considered. The base bid is for a concrete mortar lined and coated pipe. The alternative bid is a cement mortar lined and polyurethane coated pipe. Both pipes have 100-year life expectancies and respond similarly to seismic events, if installed correctly. The two options were bid to provide the District a variety of options and costs for pipe procurement.

A notice inviting bids for pipe preselection was advertised between September 6 and 26, 2023. The timing of addenda and the bid date did not provide sufficient time for suppliers to respond. The project was therefore rebid between September 27 and October 5, 2023. Two bid(s) were received.

| Vendor | Concrete mortar lined and coated pipe | Concrete mortar lined and polyurethane coated pipe |
|------------------------|--|---|
| Northwest Pipe Company | \$13,232,720 | \$12,407,040 |
| Thompson Pipe Group | \$11,931,564 | \$10,327,695 |

The bids are in line with the Engineer's estimate of \$12M to \$14M. The project consultant and SLCDPU were consulted about the pipe; both agreed the polyurethane coating is acceptable. It is recommended award be made to Thompson Pipe Group for \$10,327,695.

Committee Activity: The Engineering Committee discussed this item on September 27, 2023 and supports the rebidding due to insufficient time to prepare a bid after last addenda.

Recommendation: Staff recommends award of the Cottonwoods Connection Welded Steel Pipe Preselection contract to Thompson Pipe Group for \$10,327,695.

Agenda Item: Consider approval of Resolution 1928 approving FEMA BRIC grant application

Objective: Adopt Resolution 1928 to apply for FEMA BRIC grants.

Background: The Federal Emergency Management Agency (FEMA) administers mitigation project grant money through the Building Resilient Infrastructure and Communities (BRIC) program. BRIC grants are available for two types of projects – planning and construction. To be eligible for funding, projects must

- Be cost effective;
- Reduce or eliminate risk and damage from future natural hazards;
- Meet current, relevant, consensus-based codes, specifications, and standards;
- Align with an accepted hazard mitigation plan; and
- Meet all Environmental and Historic Preservation requirements.

The District desires to apply for grant monies as a sub-applicant to the State of Utah for two projects during the 2023 Notice of Funding Opportunity.

Planning: The first application is for a planning grant to confirm the alignment and hydraulics of the Salt Lake Aqueduct Replacement between Fort Union Boulevard and Terminal Reservoir. This effort is anticipated to cost \$500,000 and would fall under a 75% federal / 25% District cost share (i.e., a grant of up to \$350,000).

Construction: An application for construction of the currently-in-design \$10M Little Cottonwood Conduit – Raw Water replacement project. The District is eligible for a construction grant of up to \$7M (70% of the project; District portion of project is \$3M).

These applications require a resolution from the Board of Trustees to commit the District to fund the District’s cost share and to commit to meeting project deadlines established with FEMA, should award be issued. Notice of award is typically not provided until August of the year following application. The District would be required to commit to fund \$150,000 of the planning project as part of its fiscal year 2025 budget and \$3M of the construction project as part of its fiscal year 2026 budget.

Committee Activity: The Engineering Committee discussed this item on September 27, 2023.

Recommendation: The Engineering Committee forwards a positive recommendation to adopt Resolution 1928 to commit District funding and meet project deadlines if selected for either or both FEMA BRIC grants, as described above.

Attachments:

1. Resolution 1928

METROPOLITAN WATER DISTRICT OF SALT LAKE & SANDY

RESOLUTION NO. 1928

WHEREAS, this District is a water supplier to its member cities, Salt Lake City and Sandy City, responsible for ensuring reliable water treatment, storage, and transmission for the area; and

WHEREAS, water is a critical resource to the health, safety, and economical welfare of its member cities; and

WHEREAS, this District sees the need to identify and mitigate potential hazards that may jeopardize reliable water treatment, delivery, and storage; and

WHEREAS, this District is currently completing a comprehensive Multi-hazard Mitigation Plan (MMP) that considers all of this District's assets including the Little Cottonwood Water Treatment Plant, Salt Lake Aqueduct, Raw Water Little Cottonwood Conduit, Point of the Mountain Water Treatment Plant, Point of the Mountain Aqueduct, Terminal Reservoir, 10 Million Gallon Reservoir, and Jordan Narrows Pump Station as well as other ancillary facilities; and

WHEREAS, this District desires to obtain grant funding from the Federal Emergency Management Agency (FEMA) through the Building Resilient Infrastructure and Communities (BRIC) program for the development and construction of mitigation projects including the Salt Lake Aqueduct Replacement Reaches 2 and 3 Project Scoping and the Little Cottonwood Supply Reliability Project.

NOW THEREFORE, it is hereby **RESOLVED** by the Board of Trustees of the Metropolitan Water District of Salt Lake & Sandy as follows:

1. The Board of Trustees approves and supports the grant applications; and
2. This District is capable of providing the amount of funding specified in the grant application up to \$150,000 for the Salt Lake Aqueduct Replacement Reaches 2 and 3 Project Scoping and up to \$3,000,000 for the Little Cottonwood Supply Reliability Project; and
3. If selected for the grant, this District will work with FEMA to meet established deadlines as this District executes the project.

This **RESOLUTION** was duly adopted by the Board of Trustees of the Metropolitan Water District of Salt Lake & Sandy at a meeting duly noticed and held on the 16th day of October, 2023.

Tom Godfrey
Chair of the Board of Trustees

Metropolitan Water District of Salt Lake & Sandy
Board Meeting Information
Last Update: October 2, 2023

Agenda Item: Consider approval of Resolution 1929 adoption of 2023 Multi-hazard Mitigation Plan

Objective: Adopt the 2023 Multi-hazard Mitigation Plan.

Background: The District completed hazard assessment for the Salt Lake Aqueduct and the Little Cottonwood Water Treatment Plant in 2022. These assessments were folded into a comprehensive Multi-hazard Mitigation Plan (MMP) that includes all of the District's infrastructure. The draft comprehensive plan was submitted to the state on April 14, 2023. State comments were addressed by the project team. The document was submitted to FEMA on June 1, 2023.

FEMA comments required the plan be advertised again for public comment. A redacted plan was available for public review between August 1 and August 10 at a website that was advertised in local newspapers, on the District's website, and through the social media of participating cities. Over the 10-day review period, the site received 26 views and the document was downloaded 7 times. No comments were received.

The MMP was updated to include results from the public comment period and to address additional notes from FEMA. It was resubmitted to the state on September 8, 2023. On September 20, 2023 the District was notified FEMA approved the plan pending adoption.

Board adoption of the document is required prior to final submission to FEMA for approval. Once approved by FEMA, the District will be positioned to seek federal grants through the Building Resilient Infrastructure and Communities (BRIC) program. BRIC funding is part of the District's overall funding strategy for capital projects over the next several decades.

The hazards assessment is a living document that will be updated every five years to maintain relevance, identify projects, and obtain future construction funding grants.

Committee Activity: The Engineering Committee discussed this item on September 27, 2023.

Recommendation: The Engineering Committee forwards a positive recommendation to the board to approve Resolution 1929 and adopt the 2023 Multi-hazard Mitigation Plan.

METROPOLITAN WATER DISTRICT OF SALT LAKE & SANDY

RESOLUTION NO. 1929

**ADOPTING THE METROPOLITAN WATER DISTRICT SALT LAKE & SANDY
HAZARD MITIGATION PLAN**

WHEREAS, the Metropolitan Water District of Salt Lake & Sandy (District) operates a large water distribution system to supply drinking water to its wholesale member cities; and

WHEREAS, the District water distribution system consists of a variety of infrastructure including treatment plants, pump stations, storage reservoirs, large diameter aqueducts and buildings; and

WHEREAS, a population of over 450,000 people reside within the District service area and that population relies upon the District to operate and maintain its water distribution system infrastructure in a reliable and resilient condition; and

WHEREAS, the District recognizes the threat that natural hazards pose to people and property neighboring the District water distribution system; and

WHEREAS, the District has prepared a multi-hazard mitigation plan, hereby known as the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, as amended; and the National Dam Safety Program Act, as amended; and

WHEREAS, the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to water supply, people, and property neighboring the District water distribution system or within the District service area from the impacts of future hazards and disasters; and

WHEREAS, adoption by the District Board of Trustees demonstrates its commitment to hazard mitigation and achieving the goals outlined in the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan, recognizing that this commitment does not authorize any specific project identified in the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan, which remain subject to the budgeting process.

NOW THEREFORE, it is hereby **RESOLVED** by the Board of Trustees of the Metropolitan Water District of Salt Lake & Sandy, that:

The Board of Trustees adopts the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan. While background information content related to the District may require revisions to meet the plan approval requirements, such changes occurring after adoption will not require the District to re-adopt any further iterations of the plan. Subsequent plan

updates following the approval period for this plan will require separate adoption resolutions. Adoption of the Metropolitan Water District of Salt Lake & Sandy Utility-Wide Multi-Hazard Mitigation Plan does not authorize any specific project identified in that plan, which remain subject to the budgeting process.

This **RESOLUTION** was duly adopted by the Board of Trustees of the Metropolitan Water District of Salt Lake & Sandy at a meeting duly noticed and held on the 16th day of October, 2023.

Tom Godfrey
Chair of the Board of Trustees

Metropolitan Water District of Salt Lake & Sandy
Board Meeting Packet
Last Update: October 2, 2023

Agenda Item: Consider approval to submit a Section 408 application to the U.S. Army Corps of Engineers on behalf of Salt Lake County

Objective: Seek authorization to submit a Section 408 application to the U.S. Army Corps of Engineers on behalf of Salt Lake County for a boat launch within the District’s riparian mitigation easement.

Background: Little Dell Dam is a U.S. Army Corps of Engineers (USACE) project constructed between 1987 and 1993 for flood control and municipal water supply. It was sponsored by the District and Salt Lake County under a June 10, 1986 agreement.

An interlocal agreement (dated June 10, 1986) between the District, Salt Lake County, and Salt Lake City described operation, maintenance, and rehabilitation of the project. A supplemental agreement dated September 6, 1994 provides 60.85 acres of Salt Lake County land along the Jordan River for riparian mitigation. This land was required for “the mitigation of riparian impacts resulting from the construction, operation and maintenance of the Project.”

In March of 2023, Salt Lake City notified the District that Salt Lake County had filed a stream alteration permit to install boat portages along the Jordan River at 3900 South Street; the proposed north ramp is within the riparian mitigation area. In May 2023, USACE stated a Section 408 Permit is required for the proposed boat portage. The application for that permit must go through the District as the sponsoring agency for the mitigation area. In addition to submitting the application on behalf of the county, the District is required to provide a Statement of No Objection for the project.

Salt Lake County provided a license application and Section 408 permit application for the permit on June 28, 2023. The 164-page document appears to meet the requirements to submit the application. Staff, both at the District and at Salt Lake City, have no objection to the proposed boat portage provided appropriate permission is first received from USACE.

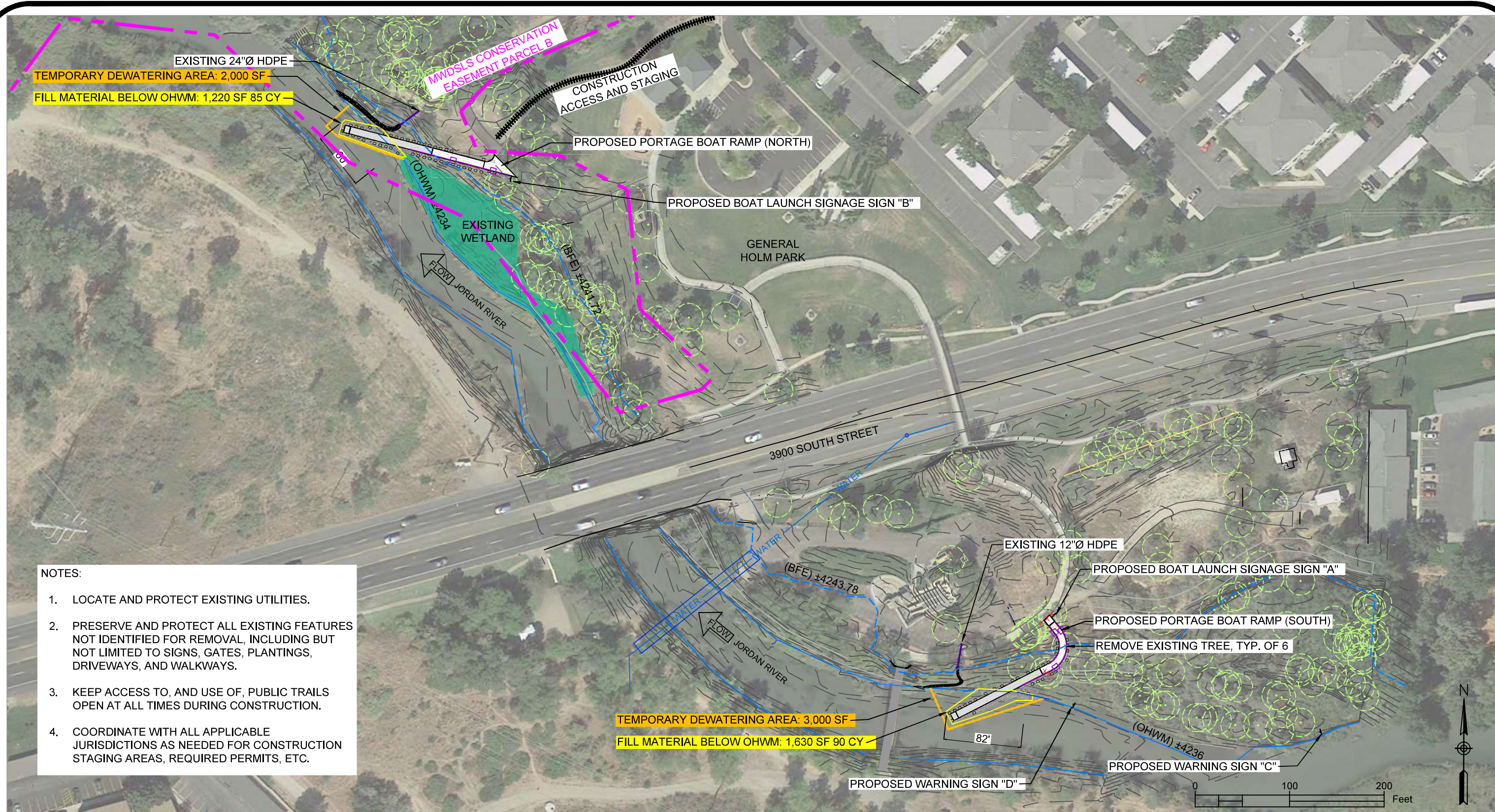
As a non-corridor license application the Policies & Procedures Chapter 16 does not apply to the county’s request and requires board direction.

Committee Activity: The Engineering Committee discussed this item on September 27, 2023.

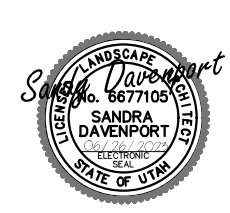
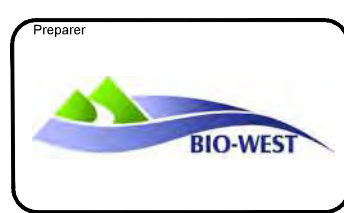
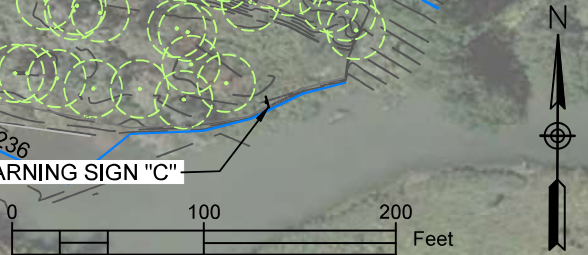
Recommendation: The Engineering Committee forwards a positive recommendation to submit the Section 408 permit on behalf of Salt Lake County for the subject project.

Attachment:

- Overall Site Plan



- NOTES:
1. LOCATE AND PROTECT EXISTING UTILITIES.
 2. PRESERVE AND PROTECT ALL EXISTING FEATURES NOT IDENTIFIED FOR REMOVAL, INCLUDING BUT NOT LIMITED TO SIGNS, GATES, PLANTINGS, DRIVEWAYS, AND WALKWAYS.
 3. KEEP ACCESS TO, AND USE OF, PUBLIC TRAILS OPEN AT ALL TIMES DURING CONSTRUCTION.
 4. COORDINATE WITH ALL APPLICABLE JURISDICTIONS AS NEEDED FOR CONSTRUCTION STAGING AREAS, REQUIRED PERMITS, ETC.



Project Title
**3900 South Bridge Portage
 Jordan River Water Trail**
 Millcreek and South Salt Lake, Utah

| | |
|---|----------------|
| Sheet Title OVERALL SITE PLAN | |
| Drawn By SD | Sheet |
| Checked By CS | LS 100 |
| Date June, 2023 | Binding Order: |

Metropolitan Water District of Salt Lake & Sandy
FY2024 CAPITAL PROJECTS REPORT
October 2023

Last updated: September 27, 2023

Routine Non-Capacity Improvement Projects

SCS Hardware and Software Replacement Project (LC067)

Purpose: Replace and update security control system hardware at LCWTP and POMWTP.

Update: The contractor continues to work on punch list items.

| | | |
|-----------------------------------|----------------------|--------------|
| District Project Manager: | Darin Klemin | |
| Design Engineer / Contractor: | Avtec | |
| Final Completion Date: | September 30, 2023 | |
| Project Budget: | \$600,000.00 | |
| Contract Amount: | \$584,126.40 | |
| Change Orders / Percent: | \$0.00 / 0.0% | |
| | FY23 | FY24 |
| FY Budget: | \$600,000.00 | \$100,000.00 |
| Spent to Date: | \$409,529.29 | \$0.00 |
| District Purchases: | \$4,813.50 | \$0.00 |
| Expenses to Date / Percent Spent: | \$414,342.79 / 69.1% | |

LCC Replacement and Intake Modifications

Purpose: Replace the raw water Little Cottonwood Conduit and modify the lower intake structure. This is a multi-year project (through FY2026).

Update: The contractor begins geotechnical exploration in October 2023. We are coordinating with property owners.

| | |
|--|------------------------|
| District Project Manager: | Gardner Olson |
| Design Engineer: | Bowen Collins & Assoc. |
| Preliminary Design Completion Date: | June 30, 2024 |
| FY2024 Budget: | \$200,000.00 |
| FY2024 Contract Amount: | \$200,000.00 |
| Change Orders / Percent: | \$0.00 / 0.0% |
| Spent to Date: | \$0.00 |
| District Purchases: | \$0.00 |
| FY2024 Expenses to Date / Percent Spent: | \$0.00 / 0.0% |

POMWTP PC/S Hardware Replacement Project

Purpose: Replace and update Process Control / SCADA system hardware at POMWTP.

Update: Equipment is on order. This is the second year of a two-year project.

| | | |
|-----------------------------------|----------------------|---------------|
| District Project Manager: | Gardner Olson | |
| Design Engineer / Contractor: | SKM | |
| Final Completion Date: | June 30, 2024 | |
| | FY23 | FY24 |
| FY Budget: | \$200,000.00 | \$250,000.00 |
| Contract Amount: | \$182,358.73 | \$207,888.80 |
| Change Orders / Percent: | \$0.00 / 0.0% | \$0.00 / 0.0% |
| Spent to Date: | \$156,665.00 | \$0.00 |
| District Purchases: | \$4,813.50 | \$265.00 |
| Expenses to Date / Percent Spent: | \$156,930.00 / 34.9% | |

Fleet Program Replacement:

Purpose: Purchase two trucks and two SUVs.

Update: Two trucks were received in August 2023. Staff is preparing to purchase two SUVs.

| | |
|---------------------------|---------------------|
| District Project Manager: | Michael Carter |
| Project Budget: | \$200,000.00 |
| Project Spent to date: | \$97,290.74 / 48.6% |

Little Dell Dam Improvements:

Purpose: Salt Lake City plans to replace a control panel in FY24.

Update: No progress reported to date.

| | |
|---------------------------|--------------------|
| District Project Manager: | Bernard Mo, SLCDPU |
| Project Budget: | \$400,000.00 |
| Project Spent to date: | \$0.00 / 0.0% |

Repair and Replace

LCWTP Ozone Control Valve Replacement

Purpose: Control valves on the LCWTP ozone system were inspected in 2021. The valves are wearing from use, with five of the eleven valves identified for replacement over the next four years, beginning with ozone destruct.

Update: Staff is preparing quotes.

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

LCWTP Update Fuel Tank and Dispenser Monitoring Hardware

Purpose: The District's fuel tank and dispenser monitoring hardware was installed in 2011. The equipment is at the end of its life and the software is no longer supported. This project will replace both with a more current, reliable, and supported system.

Update: Staff plans to prepare an RFP to procure this item.

| | |
|---------------------------|----------------|
| District Project Manager: | Michael Carter |
| Contractor: | TBD |
| Final Completion Date: | June 30, 2024 |
| Project Budget: | \$65,000.00 |
| Contract Amount: | TBD |
| Project Spent to date: | \$0.00 / 0.0% |

LCWTP Flash Mix Replacement

Purpose: The LCWTP flash mixers introduce and mix chemical into water upstream of flocculation. One flash mixer gear box was replaced in FY23. The second will be replaced in FY24.

Update: Staff is obtaining quotes.

| | |
|---------------------------|---------------|
| District Project Manager: | Andy Reidling |
| Project Budget: | \$50,000.00 |
| Project Spent to date: | \$0.00 / 0.0% |

POMFWP RVSS Replacement

Purpose: The Point of the Mountain Finished Water Pump Station has five pumps - two are operated with variable frequency drives (VFD) and three with reduced-voltage soft starts (RVSS). The equipment has reached the end of its design life and is experiencing increased maintenance and operation issues. One RVSS was replaced in FY22 and the two VFDs were replaced in FY23. Staff plans to replace the remaining two RVSS, one each in FY24 and FY25.

Update: Equipment is on order.

| | |
|---------------------------|----------------|
| District Project Manager: | Scot Collier |
| Contractor: | EMC |
| Final Completion Date: | June 30, 2024 |
| Project Budget: | \$110,000.00 |
| Contract Amount: | \$87,285.16.00 |
| Spent to Date: | \$0.00 |
| Other Costs: | \$0.0 |
| Project Spent to date: | \$0.0 / 0.0% |

CCTV Hardware Replacement

Purpose: The District's closed circuit television (CCTV) security system is 20 years old at LCWTP and 14 years old at POMWTP. The equipment has exceeded its expected life and is no longer supported by the manufacturer. The remaining two years of this project will split camera replacement at POMWTP.

Update: Equipment is on order.

| | |
|---------------------------|---------------|
| District Project Manager: | Brian Pehrson |
| Contractor: | Avtec |
| Final Completion Date: | June 30, 2024 |
| Budget: | \$130,000.00 |
| Contract Amount: | \$116,836.02 |
| Change Orders / Percent: | \$0.00 / 0/0% |
| Spent to Date: | \$0.00 |
| District Purchases: | \$0.00 |
| Project Spent to Date: | \$0.00 / 0.0% |

UPS Replacement

Purpose: Two UPS systems at the LCWTP are scheduled for replacement.

Update: Equipment is on order.

| | |
|--|---------------|
| District Project Manager: | Scot Collier |
| Project Budget: | \$60,000.00 |
| Project Spent to date / Percent Spent: | \$0.00 / 0.0% |

Lab Equipment Replacement

Purpose: The lab department requires replacement of an organics laboratory dishwasher, auto titrator, microscope, and inductively coupled plasma mass spectrometry (ICP/MS) instrument. The purge and trap and autosampler installed in FY23 experienced issues, were returned, and will be replaced.

Update: The ICP/MS, microscope, and purge and trap and autosampler are installed. The autotitrator is on order. Staff is obtaining quotes for an organics laboratory dishwasher.

| | |
|--|----------------------|
| District Project Manager: | Jeff Matheson |
| Project Budget: | \$283,500.00 |
| Project Spent to date / Percent Spent: | \$185,917.67 / 65.6% |

Annual Network Server Replacement

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

Update: Staff are reviewing servers and obtaining quotes.

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

FY23 Carryover – Caustic Recirculation Pump: The pump was received in FY23. No further activity is anticipated for this line item.

| | |
|--|---------------|
| District Project Manager: | Steve Slack |
| Project Budget: | \$20,373.00 |
| Project Spent to date / Percent Spent: | \$0.00 / 0.0% |

Miscellaneous: No activity to date.

| | |
|--------------------------------|---------------|
| District Project Manager: | Ammon Allen |
| Project Budget ¹ : | \$50,000.00 |
| Project Spent / Percent Spent: | \$0.00 / 0.0% |

Non-Routine O&M (Selected Projects)

LCWTP Arc Flash Coordination

Purpose: LCWTP Arc Flash Coordination: The National Fire Protection Association (NFPA) Standard for Electrical Safety in the Workplace mandates reviewing the arc flash study of a facility a maximum of every five years. Recent changes at the LCWTP make this effort timely.

Update: A kickoff meeting was held. Work is in progress.

| | |
|---------------------------|---------------|
| District Project Manager: | Gardner Olson |
| Contractor: | Powmation |
| Final Completion Date: | June 30, 2024 |
| Project Budget: | \$200,000.00 |
| Contract Amount: | \$149,700.00 |
| Project Spent to date: | \$0.00 / 0.0% |

Financial Strategist

Purpose: Application assistance for WIFIA funding for MWDSLS long term Capital Finance program.

Update: No activity to date.

| | |
|---------------------------|---------------|
| District Project Manager: | Wayne Winsor |
| Contractor: | TBD |
| Final Completion Date: | June 30, 2024 |
| Project Budget: | \$100,000.00 |
| Contract Amount: | TBD |
| Project Spent to date: | \$0.00 / 0.0% |

IT Master Plan

Purpose: The Information Technology department has many project needs. A master plan will be developed to prioritize and define these projects.

Update: The project table of contents / index is created. Assessment of the District's server rooms / data centers is underway.

| | |
|---------------------------|-------------------|
| District Project Manager: | Ryan Nicholes |
| Contractor: | Hazen and Sawyer |
| Final Completion Date: | June 30, 2024 |
| Project Budget: | \$150,000.00 |
| Contract Amount: | \$149,905.00 |
| Project Spent to date: | \$5,760.00 / 3.8% |

MWDSLS Multi-hazard Mitigation Plan

Purpose: A facility-wide hazard mitigation plan will identify the effect of natural and non-natural hazards on District facilities, and will make the District eligible for federal planning and construction grants.

Update: The plan was approved by FEMA pending adoption by the Board of Trustees.

| | | | |
|--|-------------------------|--------------|-------------|
| District Project Manager: | Wayne Winsor | | |
| Design Engineer: | Elwell Consulting Group | | |
| Final Completion Date: | December 31, 2023 | | |
| Project Budget: | \$207,323.00 | | |
| Fiscal Year: | 2022 | 2023 | 2024 |
| Spent: | \$35,218.69 | \$162,855.99 | \$12,920.00 |
| Project Spent to date / Percent Spent: | \$210,994.68/ 101.8% | | |

Capacity Improvement Projects

Managed Aquifer Recharge Pilot Testing and Phase 1 (LC063)

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

Update: Drilling for the ASR well was completed on September 10, 2023. The casing and gravel pack were completed on September 13, 2023. Well development is under way and could take up to three months.

The surface infiltration basin contractor began mass excavation on August 14. The north basin is fully excavated. The south basin is anticipated to be complete in early October. Equipping of the well and construction of the well house is on hold to ensure the pump and electrical equipment is appropriately sized for the well (this will be determined during development).

Public input continues to increase with several requests to tour the project. The project website was updated to shift focus from the well to the basins.



September 20: Overall site progress.



September 13: The gravel pack was installed around the ASR well.



September 26: Excavation on the south surface infiltration basin.

| Design | | | |
|-------------------------------------|------------------------|--------------|-------------|
| District Project Manager: | Ammon Allen | | |
| Design Engineer: | Hansen, Allen and Luce | | |
| Final Completion Date: | December 31, 2024 | | |
| Implementation Plan Spent (FY21): | \$78,487.55 | | |
| Engineering Design Contract Amount: | \$961,937.15 | | |
| Fiscal Year: | 2022 | 2023 | 2024 |
| Spent to date: | \$78,431.03 | \$420,598.75 | \$52,967.25 |
| Engineering Design Spent to date: | \$551,997.03 / 57.4% | | |

| Wells Construction | | |
|---------------------------|------------------------|--------|
| Contractor: | Hydro Resources | |
| Final Completion Date: | October 31, 2023 | |
| Contract Amount: | \$3,674,441.00 | |
| Change Orders / Percent: | \$123,121.00 / 3.4% | |
| | 2023 | 2024 |
| Wells Spent to date | \$2,504,420.15 | \$0.00 |
| Total Spent to date: | \$2,504,420.15 / 65.9% | |

| SIB and Infrastructure Construction | |
|--|----------------------|
| Contractor: | COP Construction |
| Final Completion Date: | February 16, 2024 |
| Contract Amount: | \$5,550,687.00 |
| Change Orders / Percent: | \$0.00 / 0.0% |
| SIB and Infrastructure Spent to date: | \$767,650.00 / 13.8% |

| Other Project Costs | |
|----------------------------------|-------------------|
| Contractor: | SKM |
| Final Completion Date: | March 30, 2024 |
| Budget: | \$94,500.00 |
| Contract Amount: | TBD |
| Change Orders / Percent: | \$0.00 / 0.0% |
| SKM Spent to date: | \$0.00 / 0.0% |
| District Purchases | \$1,204.00 |
| Total Other Costs Spent to date: | \$1,204.00 / 1.3% |

| | |
|------------------------------------|------------------------|
| Total Project Budget: | \$10,821,309.10 |
| ARPA Grant: | \$3,000,000.00 |
| ASR Reserve (as of June 30, 2022): | \$4,115,104.90 |
| Non-ASR Reserve: | \$3,706,204.20 |
| Total Project Spent to date: | \$3,903,758.73 / 36.1% |

Other Capital Improvement Projects

Salt Lake Aqueduct Resiliency - Cottonwoods Conduit (SLAR-CC):

Purpose: The Big Cottonwood Water Treatment Plant (BCWTP) is in need of replacement. The SLAR-CC is a pipeline that connects the BCWTP and the Little Cottonwood Water Treatment Plant (LCWTP) to bring raw water from Big Cottonwood Creek to the LCWTP for treatment. Without this infrastructure the District will incur an additional demand of up to 24,000 ac-ft annually during the BCWTP replacement.

Update: The 90% project design was received and is under review. Pipe preselection documents advertised between September 6 and 26, 2023 and will be rebid between September 27 and October 5, 2023 due to insufficient time for vendor response to last addenda. Bidder prequalification documents are under review for advertisement in October. Design contract Amendment 4 will go to the board on October 16, 2023. The amendment includes two additions:

- easement acquisition costs due to appraisals being done on all parcels appraised over \$10,000, and
- design drawings to the tie-in point with the Little Cottonwood Conduit Replacement upstream of the grit basin header.

Appraisals are under review and are actively being performed for the new SLAR easement. We also began negotiations on the first parcel.

Staff is also working with our financial strategist to procure project funding.

| Design | | | |
|----------------------------|------------------|-------------------------|--------------|
| District Project Manager: | Kelly Stevens | | |
| Design Engineer: | Hazen and Sawyer | | |
| Final Completion Date: | 30-Jun-24 | | |
| Original Contract Amount: | \$ 2,355,137.00 | | |
| Contract Amendments: | \$ 1,095,050.30 | | |
| Total Contract Amount: | \$ 3,450,187.30 | | |
| Fiscal Year: | 2022 | 2023 | 2024 |
| Spent to Date: | \$ 36,856.25 | \$ 2,166,609.19 | \$ 28,130.75 |
| Engineering Spent to Date: | | \$ 2,231,596.19 / 64.7% | |

| Public Engagement | | | |
|---------------------------|-----------------------|----------------------|-------------|
| District Project Manager: | Kelly Stevens | | |
| Design Engineer: | Wall Consulting Group | | |
| Final Completion Date: | 30-Jun-24 | | |
| Original Contract Amount: | \$ 108,388.75 | | |
| Contract Amendments: | \$ - | | |
| Total Contract Amount: | \$ 108,388.75 | | |
| Fiscal Year: | 2022 | 2023 | 2024 |
| Spent to Date: | \$ 4,455.46 | \$ 35,322.16 | \$ 7,369.47 |
| Engagement Spent to Date: | | \$ 47,147.09 / 43.5% | |

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

The District is responsible for 2/7 of Jordan Aqueduct (JA) system improvements which include JA Reaches 1 – 4, Jordan Valley Water Treatment Plant (JVWTP), and the JA Terminal Reservoir. The District is responsible for one half of improvements associated with the 150th South pipeline. Projects identified for FY2024 include:

Major Rehabilitation or Replacement of Existing Facilities

| | |
|---|------------|
| • JA Normal, Extraordinary Maintenance and Replacement | \$ 142,857 |
| • 150 th South Pipe Normal Maintenance and Replacement | \$ 62,500 |
| • JA TR Basins 3, 4 Roof Deck Joint Sealant Replacement | \$ 142,857 |
| • JVWTP Normal, Extraordinary Maintenance and Replacement | \$ 342,857 |
| • JVWTP Floc/Sed Basins 3-6 Mechanical Equipment Replacement | \$ 385,714 |
| • JVWTP Floc/Sed Basins 1-2 Mechanical Equipment Replacement | \$ 285,714 |

New Non-Capacity Facilities (Compliance/Functional Upgrade)

| | |
|---|------------|
| • JVWTP Filter and Chemical Feed Upgrades | \$ 885,714 |
| • JVWTP Floc/Sed 1-2 Seismic Upgrade | \$ 662,143 |
| • Jordan Aqueduct Seismic Resiliency | \$ 14,286 |

JVWTP Project Management Expenses \$ 50,000

Total Request FY2024: \$2,974,643

This report is taken from JVWCD’s September 2023 board packet and covers June 14, 2023 to July 14, 2023.

The JVWTP Filter and Chemical Feed Upgrade project is working toward 30% design. Technical memos were delivered on ozone, chemical feed improvements, and filter improvements.

The consultant is preparing 90% drawings for the Sedimentation Basins 1-2 Seismic and Capacity Upgrades project. JVWCD staff is recommending an engineering amendment to include a new pump station with this project for efficiency reasons. The project did not receive BRIC funding.

The Sedimentation Basins 3-6 Equipment Replacement is proving successful. Plate settlers are in operation and settled water quality has been increased by two thirds (1 ntu vs. 3 ntu). Performance testing is scheduled for later this month.