



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

**BOARD MEETING
OF THE BOARD OF TRUSTEES
JUNE 7, 2023**

January 11, 2023

February 8, 2023

March 8, 2023

April 12, 2023

May 10, 2023

June 7, 2023

July 12, 2023

August 9, 2023

September 13, 2023

October 11, 2023

November 8, 2023

December 6, 2023

JORDAN VALLEY WATER CONSERVANCY DISTRICT

ACRONYMS AND ABBREVIATIONS

ACRONYM OR ABBREVIATION	DEFINITION
ACH	Automated Clearing House
AF	acre-feet or acre-foot
ASR	Aquifer Storage and Recovery
AWWA	American Water Works Association
AWWAIMS	American Water Works Association Intermountain Section
BABs	Build America Bonds
BCWTP	Bingham Canyon Water Treatment Plant
CDA	Community Development Area
Cfs	cubic feet per second
CID	Copperton Improvement District
CFO	Chief Financial Officer
CRA	Community Reinvestment Area
CRWUA	Colorado River Water Users Association
CUP	Central Utah Project
CUPCA	Central Utah Project Completion Act
CUWCD	Central Utah Water Conservancy District
CWP	Central Utah Water Development Project
CWS	Community Water Systems
DBP	disinfection by-product
DDW	Utah Division of Drinking Water
DEIS	Draft Environmental Impact Statement
DEQ	Utah Department of Environmental Quality
DNR	Utah Department of Natural Resources
DOI	Department of Interior
DWQ	Utah Division of Water Quality
DWRe	Utah Division of Water Resources
DWRi	Utah Division of Water Rights
EA	Environmental Assessment
EIS	Environmental Impact Statement
EOC	Emergency Operations Center
EMOD	Experience Modification Factor
EPA	United States Environmental Protection Agency
ERP	Emergency Response Plan

JORDAN VALLEY WATER CONSERVANCY DISTRICT

ACRONYMS AND ABBREVIATIONS

ACRONYM OR ABBREVIATION	DEFINITION
ERU	Equivalent Residential Unit
ET	evapotranspiration
FEMA	Federal Emergency Management Agency
GHID	Granger-Hunter Improvement District
GIS	Geographic Information System
gpcd	gallons per capita per day
gpm	gallons per minute
GWR	Groundwater Rule
HET	high-efficiency toilet
HMI	Human-machine interface
HUD	U.S. Department of Housing and Urban Development
HVAC	Heating, Ventilation and air conditioning
IAP	Incident Action Plan
IC	Incident Commander
ICS	Incident Command System
IFA	Impact Fee Act
I-15	Interstate 15
JA	Jordan Aqueduct
JA-4	Jordan Aqueduct Reach 4
JBWRF	Jordan Basin Water Reclamation Facility
JRC	Jordan River Commission
JIC	Joint Information Center
JNPS	Jordan Narrows Pump Station
JTAC	Jordanelle Technical Advisory Committee
JVWCD	Jordan Valley Water Conservancy District
JVWTP	Jordan Valley Water Treatment Plant
KID	Kearns Improvement District
kW	kilowatt
KUC	Kennecott Utah Copper
KLC	Kennecott Land Company
LO	Liaison Officer
LYRB	Lewis Young Robertson & Burningham
MGD	million gallons per day
MG	million gallons

JORDAN VALLEY WATER CONSERVANCY DISTRICT

ACRONYMS AND ABBREVIATIONS

ACRONYM OR ABBREVIATION	DEFINITION
mg/L	milligrams per liter
MIDA	Military Installation Development Authority
M&I	Municipal and Industrial
MOU	Memorandum of Understanding
MVC	Mountain View Corridor
MWD	Magna Water District
MWDSLS	Metropolitan Water District of Salt Lake & Sandy
NEPA	National Environmental Policy Act
O&M	Operation and Maintenance
O,M&R	Operation, maintenance and repair/replacement
OSHA	Occupational Safety and Health Administration
PIO	Public Information Officer
POC	Point of Contact
POMA	Point of the Mountain Aqueduct
POMWTP	Point of the Mountain Water Treatment Plant
ppm	parts per million
PRA	Provo River Aqueduct
PRC	Provo Reservoir Canal
PRP	Provo River Project
PRWC	Provo River Watershed Council
PRWUA	Provo River Water Users Association
PRWUC	Provo Reservoir Water Users Company
PTIF	Public Treasurers Investment Fund
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
RFP	Request for Proposal
RMP	Rocky Mountain Power
RTU	Remote Telemetry Unit
SR-92	State Road 92
SCADA	Supervisory Control and Data Acquisition system
SDWA	Safe Drinking Water Act
SERWTP	Southeast Regional Water Treatment Plant
SLHBA	Salt Lake Home Builders Association
SLVHD	Salt Lake Valley Health Department

JORDAN VALLEY WATER CONSERVANCY DISTRICT

ACRONYMS AND ABBREVIATIONS

ACRONYM OR ABBREVIATION	DEFINITION
SO	Safety Officer
SOQ	Statement of Qualification
SVSD	South Valley Sewer District
SWA	Southwest Aqueduct
SWGWTP	Southwest Groundwater Treatment Plant
SWJVGWP	Southwest Jordan Valley Groundwater Project
TBID	Taylorsville Bennion Improvement District
TCR	Total Coliform Rule
TDS	total dissolved solids
TEC	Taxing Entity Committee
UASD	Utah Association of Special Districts
UDC	Utah Data Center
UDOT	Utah Department of Transportation
UIC	Underground injection control
ULFT	ultra low flush toilet
ULS	Utah Lake Drainage Basin Water Delivery System
ULWUA	Utah Lake Water Users Association
UPDES	Utah Pollutant Discharge Elimination System
USBR	United States Bureau of Reclamation
UTA	Utah Transit Authority
UWCF	Utah Water Conservation Forum
UWUA	Utah Water Users Association
WCWCD	Washington County Water Conservancy District
WBWCD	Weber Basin Water Conservancy District
WJWUC	Welby Jacob Water Users Company
WUCC	West Union Canal Company
WCWID	White City Water Improvement District

COMMON CONSENT ITEMS

**MINUTES OF THE PUBLIC HEARING/BOARD MEETING OF THE
BOARD OF TRUSTEES OF JORDAN VALLEY WATER CONSERVANCY DISTRICT**

(Unapproved and subject to change)

Held May 10, 2023

A Public Hearing/Board meeting of the Board of Trustees of the Jordan Valley Water Conservancy District was held in person and electronically on Wednesday, May 10, 2023, at 6:00 p.m. at JWCD's administration building located at 8215 South 1300 West, West Jordan, Utah.

This meeting was conducted electronically in accordance with the Utah Open and Public Meetings Act (Utah Code Ann. (1953) §§ 52-4-1 et seq.) and Chapter 7.12 of the Administrative Policy and Procedures Manual ("Electronic Meetings").

Trustees Present:

Corey L. Rushton, Chair
A. Reed Gibby
Zach Jacob
Karen D. Lang
Sherrie L. Ohrn
Dawn R. Ramsey
Mick M. Sudbury
Barbara L. Townsend
John H. Taylor

Staff Present:

Alan Packard, General Manager
Jacob Young, Deputy General Manager
Shazelle Terry, Assistant General Manager
Gordon Batt, Operations Department Manager
Jason Brown, Information Systems Department Manager
Brian Callister, Maintenance Department Manager
Shane Swensen, Engineering Department Manager
Mark Stratford, General Counsel
David Martin, Chief Financial Officer/Treasurer
Kurt Ashworth, Human Resources Manager
Beverly Parry, Executive Assistant
Mindy Keeling, Administrative Assistant
Alicia Sekiller, Administrative Assistant
Martin Feil, Database Administrator (electronic)
Kelly Good, Communications Division Manager
Cynthia Bee, Public Information Officer
Jeanette Perry, Customer Services Supervisor (electronic)

Also Present:

Mark Chalk, General Manager, Taylorsville-Bennion Improvement District (electronic)
Shawn Koorn, Associate Vice President, HDR
Randy Long, 8610 Kings Hill Dr., Cottonwood Heights, UT
Brien Maxfield, Senior Engineer, Draper City (electronic)
Nancy Nielsen, 1217 E 629 S, Murray, UT
Ana Paz, Associate Engineer, South Jordan City (electronic)
Wayne Winsor, Assistant General Manager/Chief Engineer, Metropolitan Water District of Salt Lake and Sandy

Call to order and introduction of visitors

Mr. Corey Rushton, Chair, convened the public hearing of the Jordan Valley Water Conservancy District Board of Trustees at 6:01 p.m. on Wednesday, May 10, 2023, in the JWCD administration building located at 8215 South 1300 West in West Jordan, Utah. Mr. Rushton introduced the members of the Board and visitors who joined the meeting in person and electronically. Mr. Rushton stated this public hearing was being held to receive public comments regarding the fiscal year (FY) 2023/2024 tentative financial plan and budget, proposed fee changes, and the tentative wholesale and retail water rates.

Public Hearing on the tentative financial plan and budget for fiscal period July 1, 2023, to June 30, 2024, proposed fee changes, and the tentative wholesale and retail water rates for fiscal period July 1, 2023, to June 30, 2024

Verification of legal notification requirements

Mr. Rushton asked Mr. Mark Stratford, General Counsel, to report on verification of legal notification requirements for the public hearing. Mr. Stratford stated that a notice was posted at the District office for this public hearing for the proposed retail and wholesale water rates, changes in fees for services, and the tentative FY 2023/2024 budget and financial plan. An affidavit was provided by staff indicating mailed notice of the public hearing was sent to all JWCD retail customers. He stated that all requirements were met for legal notification as required by the Utah Code.

Motion to open public hearing

Mr. Rushton called for a motion to open the public hearing. Ms. Karen Lang moved to open the public hearing. Following a second by Ms. Barbara Townsend, the motion was unanimously approved as follows:

- | | |
|--------------------|-------------------|
| Mr. Gibby – aye | Mr. Jacob – aye |
| Ms. Lang – aye | Ms. Ohrn – aye |
| Ms. Ramsey – aye | Mr. Rushton – aye |
| Mr. Sudbury – aye | Mr. Taylor – aye |
| Ms. Townsend - aye | |

Comments from the Finance Committee Chair

Mr. John Taylor, Finance Committee Chair, expressed appreciation to staff for the effort that has gone into preparing the proposed budget.

Staff Presentation

Mr. David Martin, Chief Financial Officer/Treasurer, was asked to review the schedule of Board actions and give an overview of the tentative financial plan and budget for FY 2023/2024 and proposed changes in fees.

Review schedule of Board actions

Mr. Martin said staff began preparation of the budget in January 2023. He reviewed the schedule of Board actions which included two Finance Committee meetings; the water rate analysis and calculation by JWCD's consultant; the April 12, 2023, Board meeting where the Board tentatively approved the tentative FY 2023/2024 budget and water rates; today's public hearing; and the June 7, 2023, Board meeting where the tentative budget, the proposed tax rate, the proposed fee changes, and the final water rates will be

adopted to be effective as of July 1, 2023. He said a Truth-in-Taxation public hearing will also be planned for August 9, 2023.

Overview of tentative financial plan and budget

Mr. Martin reviewed the sources and uses of funds totaling \$177,434,615. He stated the increase in the budgeted water sales revenue is due to a proposed 5.0% water rate increase, and the property tax revenue increase is attributed to taxes from new growth and the proposed property tax rate increase. The remaining sources of funds include interest income, bond proceeds for capital projects, \$5.6 million from the Revenue Stabilization Fund, and other miscellaneous revenue.

Regarding the uses of funds, the largest portion of the budget is the operations and maintenance budget at \$59.7 million, an increase of 7.5% over last year. Mr. Martin said there are eight bonds outstanding totaling approximately \$285 million, and one new bond will be issued during FY 2023/2024 in the amount of approximately \$100 million, which bonds have \$25.4 million of budgeted debt service payments. The conservation programs line item is the largest increase of the operations and maintenance budget, at approximately \$1.5 million, which will be funded by a grant from the Salt Lake County Municipal Grant Program. Personnel expenses include four new positions and a 6.5% pay increase. Other increases to the operations and maintenance budget are a result of inflation.

Mr. Martin reviewed the general equipment budget, which totals approximately \$1.4 million and is made up of items costing \$10,000 or more, have a useful life of more than one year, and which are recorded as assets and depreciated. He reviewed the capital projects budget, which totals approximately \$61.2 million and is divided into four categories. Mr. Martin identified the largest projects in the different categories.

Mr. Martin said a property tax rate increase is included in the FY 2023/2024 tentative budget of approximately 9%, or enough to generate \$2,313,000 of tax revenue. He reviewed proposed fee changes. Mr. Martin stated the annual Member Agency meeting was held on April 26, 2023, at which staff reviewed with JVVCD's Member Agencies the tentative water rates. After the April Board meeting, a letter was mailed to retail customers that included the tentative retail water rates, proposed fee changes, and public hearing information.

Tentative retail and wholesale water rates presentation

Mr. Martin introduced Shawn Koorn, Associate Vice President of HDR. Mr. Koorn reviewed the methodology used to determine JVVCD's water rates. The process includes three steps: determining the revenue requirement, performing a cost of service analysis, and rate design. Mr. Koorn said that at the March Finance Committee meeting, the Board directed HDR to develop the water rate analysis with a 5.0% overall system rate adjustment for FY 2023/2024, develop a cost of service analysis, and develop proposed rates based on cost of service results.

Mr. Koorn said JVVCD updates its water rates on an annual basis to ensure the rates reflect each agency's use and cost of service. He explained how each Member Agency's cost of service varies according to its peak day and peak hour demands. He then reviewed in detail how the revenue requirement, cost of service analysis, and rate design were used to determine FY 2023/2024 tentative water rates. He summarized by saying there is an overall

revenue adjustment increase of 5.0% in FY 2023/2024, cost of service results show minor differences in water rate adjustments among Member Agencies overall, proposed rates reflect overall revenue needs and cost of service results for retail and individual wholesale member agencies, and rates will be implemented July 1, 2023, if approved by the Board.

Questions from Trustees

Mr. Rushton asked staff to analyze the retail tier rate schedule to determine if it is encouraging water conservation.

Invitation for public comments

Mr. Martin summarized three comments received from retail customers as follows:

Acknowledgement of public comments received

- Alec Miller (retail customer), lives in Murray, emailed that “Water prices should be much higher than they are. Please raise rates to encourage water conservation. Thanks for doing the work!”
 - Roger Terry (retail customer), lives in unincorporated area of Sandy, called and commented that some of the fee increases seem too high, with 100% increases. This is higher than current inflation rates.
 - Charles Kulp (retail customer), lives in Murray, sent a letter describing his observation and opinion that the retail water rate increases seem to decrease as water use increases. If proposed rates were changed slightly, the rates would become progressive.
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Comments from visitors

Mr. Randy Long, lives in Cottonwood Heights, expressed his displeasure with animals being allowed in Millcreek and said it should be designated as part of the watershed protective area.

Close public comment session

Mr. Rushton closed the public comment session.

Staff response and summary

Mr. Alan Packard, General Manager, explained that JVVCD does not have any water rights in Millcreek. He said that JVVCD would be willing to work with partner agencies should they be interested in exploring restriction options in Millcreek for water supply purposes.

Motion to close public hearing

Mr. Rushton called for a motion to close the public hearing. Mr. Mick Sudbury moved to close the public hearing. Following a second by Ms. Sherrie Ohrn, the motion was unanimously approved as follows:

- | | |
|--------------------|-------------------|
| Mr. Gibby – aye | Mr. Jacob – aye |
| Ms. Lang – aye | Ms. Ohrn – aye |
| Ms. Ramsey – aye | Mr. Rushton – aye |
| Mr. Sudbury – aye | Mr. Taylor – aye |
| Ms. Townsend - aye | |
-

Consider scheduling approval at the June 7, 2023, Board meeting, to be held at 8215

Mr. Rushton called for a motion to consider scheduling approval at the June 7, 2023, Board meeting of the adoption of the FY 2023/2024 tentative financial plan and budget; determining and fixing a proposed tax rate; and final adoption of wholesale and retail water rates. Ms. Sherrie Ohrn moved to schedule approval of these items at the June 7, 2023, Board meeting.

South 1300 West in West Jordan, Utah, of the following items for fiscal year July 1, 2023, to June 30, 2024: adoption of the tentative financial plan and budget; determining and fixing a proposed tax rate; and final adoption of wholesale and retail water rates

Following a second by Mr. Mick Sudbury, the motion was unanimously approved as follows

Mr. Gibby – aye
Ms. Lang – aye
Ms. Ramsey – aye
Mr. Sudbury – aye
Ms. Townsend - aye

Mr. Jacob – aye
Ms. Ohrn – aye
Mr. Rushton – aye
Mr. Taylor – aye

Approval of common consent items

Mr. Rushton presented the minutes of the Executive Committee meeting held April 10, 2023, and the regular Board meeting held April 12, 2023. He also presented the April Trustees' Expenses Report. Mr. Rushton called for a motion. Ms. Karen Lang moved to approve the minutes of the April 10 and April 12 meetings and the April Trustees' Expenses Report. Following a second by Ms. Dawn Ramsey, the motion was unanimously approved as follows:

Mr. Gibby – aye
Ms. Lang – aye
Ms. Ramsey – aye
Mr. Sudbury – aye
Ms. Townsend - aye

Mr. Jacob – aye
Ms. Ohrn – aye
Mr. Rushton – aye
Mr. Taylor – aye

Consider establishing a water supply availability level

Mr. Packard said that each year during the May Board meeting, staff presents a recommendation to the Board to establish a Water Supply Availability Level in accordance with the JWCD Drought Contingency Plan (DCP). The DCP identifies mitigation measures to become more resilient against future droughts and provides a framework for the implementation of response actions corresponding to various water supply availability levels. The DCP identifies criteria to be considered when establishing a water supply availability level and the target demand reduction for each level. The process used includes convening a Drought Monitoring Committee which consists of one voting member from each of the 17 wholesale member agencies and one voting member from JWCD staff. The Committee reviewed expected water supply availability and 8 voted to recommend a Water Supply Availability Level 0 and 7 voted to recommend that JWCD establish Water Supply Availability Level 1. Since the Committee voted, the water supply forecast has improved significantly. Mr. Packard provided information on past water supply utilization as well as planned future water supply utilization. He reviewed water supply availability messaging that has been prepared by staff for Level 0 (full supply condition) and Level 1 (initial action level in response to low supply conditions). Mr. Packard recommended the Board approve Water Supply Availability Level 0 be established for the remainder of the calendar year 2023.

Ms. Dawn Ramsey said one anomalous year does not change the continuing drought, and she supports establishing a Water Supply Availability Level 1 as

a long term strategy for water conservation. She said establishing a Level 1 would put JVVCD more in alignment with what the Utah legislature is trying to accomplish regarding water conservation.

Mr. Zach Jacob agreed with Ms. Ramsey and pointed out that the water supply availability messaging for Level 1 is almost identical to Level 0. He supports establishing a Water Supply Availability Level 1. He also questioned if the criteria being used for establishing the Water Supply Availability Level is objective or subjective and how that affects the role of the Trustees.

Mr. Packard said the three criteria for establishing the Water Supply Availability Level are objective but there is allowance for the Drought Monitoring Committee to use judgment and take into consideration the next year's water supply outlook to make their recommendation.

Ms. Barbara Townsend said she supports a Water Supply Availability Level 0 due to the credibility factor. After the record snowfall this year, she said the public would have a hard time accepting that we are still in a drought situation. She said we need to be where we actually are, and the great snow year should be acknowledged.

Ms. Sherrie Ohrn said JVVCD is not establishing a drought level but rather a water supply availability level. By establishing Level 0, JVVCD is stating that there is enough water supply available for the upcoming year. She said JVVCD's messaging should not be about drought, but conservation. She also felt JVVCD could lose credibility with the public if we continue with drought messaging when we have had a great snowpack year. According to the DCP, JVVCD's water supply availability is Level 0. Ms. Ohrn pointed out that the establishment of a water availability level can be revisited if the public response to conservation messaging changes. She said JVVCD needs to get away from drought messaging and concentrate on conservation messaging.

Mr. Reed Gibby said he supports a Water Supply Availability Level 0 because of the credibility factor. He said the messaging should include "we've had a great winter, but we also had great conservation last summer." Mr. Gibby said the precipitation in Draper for April and May has been significantly below average. He also said messaging needs to make it clear that this only applies to JVVCD service area as other areas in the state are still in a drought situation. Mr. Gibby suggested considering changing the Level 0 Water Demand Reduction Target from none to five percent. Ms. Ramsey and Ms. Ohrn agreed.

Mr. John Taylor said JVVCD is establishing a water availability level, not a drought level. He agreed that conservation messaging needs to remain strong, but the great water year needs to also be celebrated also.

Mr. Corey Rushton said he has confidence that staff can use the appropriate conservation messaging at the appropriate time. He said there needs to be flexibility in Member Agency contracts to allow for conservation. He supports establishing a Water Availability Level 0.

Mr. Rushton called for a motion on Mr. Packard's recommendation to establish a Water Supply Availability Level 0. Ms. Karen Lang moved to establish Water Supply Availability Level 0 and asked staff to look at making

the suggested changes to the Drought Contingency Plan. Following a second by Mr. Mick Sudbury, the motion was approved as follows:

Mr. Gibby – aye	Mr. Jacob – nay
Ms. Lang – aye	Ms. Ohrn – aye
Ms. Ramsey – nay	Mr. Rushton – aye
Mr. Sudbury – aye	Mr. Taylor – aye
Ms. Townsend - aye	

Engineering activities

Consider approval of Master Agreement with UDOT for Bangerter Highway South Interchanges Project

Mr. Jacob Young, Deputy General Manager, said the Master Agreement for the Board’s consideration is related to relocation of a 30-inch water main located at the intersection of 13400 South and Bangerter Highway in connection with the UDOT Bangerter Highway South Interchanges Project. The Master Agreement sets forth terms and conditions regarding the relocation, and UDOT will bear all costs associated with relocation of the existing pipeline. Mr. Young recommended approval of a Master Agreement with UDOT for Bangerter Highway South Interchanges Project and authorize the General Manager, General Counsel, and Deputy General Manager to make necessary revisions and execute the agreement.

Mr. Rushton called for a motion on the recommendation. Ms. Dawn Ramsey moved to approve a Master Agreement with Utah Department of Transportation for Bangerter Highway South Interchanges Project and authorize the General Manager, General Counsel, and Deputy General Manager to make necessary revisions and execute the agreement. Following a second by Ms. Barbara Townsend, the motion was unanimously approved as follows:

Mr. Gibby – aye	Mr. Jacob – aye
Ms. Lang – aye	Ms. Ohrn – aye
Ms. Ramsey – aye	Mr. Rushton – aye
Mr. Sudbury – aye	Mr. Taylor – aye
Ms. Townsend - aye	

Upcoming meetings

Mr. Rushton reviewed the upcoming meetings for June including the Conservation Committee meeting, Monday, June 5 at 3:00 p.m.; Executive Committee meeting, Monday, June 5 at 3:30 p.m.; and regular Board meeting, Wednesday, June 7 at 3:00 p.m.

Adjourn

Mr. Rushton called for a motion to adjourn. Ms. Barbara Townsend moved to adjourn. Following a second by Mr. Mick Sudbury, the meeting adjourned at 7:53 p.m.

Corey L. Rushton, Chair of the Board of Trustees

Alan E. Packard, Clerk

**JORDAN VALLEY WATER CONSERVANCY DISTRICT
TRUSTEES EXPENSES REPORT**

MAY 2023

Meeting		Board Tour April 10, 2023	Public Hearing/Board Meeting April 12, 2023	Per Diem To Date for 2023 (Maximum 12)	Total Miles	Mileage \$.62 per mile	Total Per Diem	Total Amount
Trustee								
Gibby, Reed		X	X	9	50	31.00	\$ 60.00	\$91.00
Jacob, Zach		X	X	0	39	24.18	\$ -	\$24.18
Lang, Karen			X	3	21	13.02	\$ 60.00	\$73.02
Ohrn, Sherrie		X	X	4	47	29.14	\$ 60.00	\$89.14
Ramsey, Dawn			X	2	20	12.40	\$ 60.00	\$72.40
Rushton, Corey		X	X	0	40	24.80	\$ -	\$24.80
Sudbury, Mick			X	0	29	17.98	\$ -	\$17.98
Taylor, John			X	0	8.6	5.33	\$ -	\$5.33
Townsend, Barbara		X	X	0	40	24.80	\$ -	\$24.80
							Total	\$ 422.65

CORE MISSION REPORTS

WATER SUPPLY UPDATE

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Monthly Summary of Water Deliveries in Acre Feet

May 2023

Municipal and Industrial (M&I) Water Deliveries

Wholesale System	This Month	Previous Year	% Change	YTD	YTD Prev Year	YTD % Change	Fiscal YTD	Fiscal YTD Prev Year	Fiscal YTD % Change
Bluffdale City	362.12	343.63	5%	906.60	950.77	-5%	2,895.33	2,873.01	1%
Copperton Improvement District	0.00	0.00		0.00	0.00		29.23	1.45	1916%
Draper City	412.76	406.84	1%	957.86	1,000.45	-4%	3,595.06	3,585.93	0%
Granger-Hunter Improvement District	1,856.06	1,616.91	15%	5,199.62	5,296.23	-2%	16,713.31	16,012.69	4%
Herriman City ³	522.49	600.84	-13%	1,141.24	1,248.05	-9%	4,760.83	4,244.51	12%
Hexcel Corporation	81.69	76.85	6%	390.81	305.28	28%	844.66	580.63	45%
Kearns Improvement District	658.35	636.12	3%	1,974.68	2,067.53	-4%	6,380.24	6,248.75	2%
Magna Water District	69.42	67.33	3%	341.67	329.74	4%	732.30	734.48	0%
Midvale City	311.26	230.50	35%	814.87	627.72	30%	2,936.59	2,418.68	21%
Riverton City	519.27	446.29	16%	1,854.78	1,684.30	10%	4,634.99	4,210.43	10%
South Jordan City ³	1,683.11	1,599.36	5%	3,878.40	3,898.84	-1%	14,176.55	12,966.35	9%
City of South Salt Lake	132.81	101.65	31%	534.28	438.47	22%	956.01	954.36	0%
Taylorville-Bennion Improvement District	390.03	373.89	4%	2,084.48	2,051.58	2%	4,505.52	4,341.60	4%
Utah Div. of Fac. Const. and Mgmt.	15.49	43.27	-64%	84.48	207.22	-59%	195.99	410.66	-52%
WaterPro, Inc.	88.60	108.18	-18%	258.99	455.08	-43%	961.18	1,255.03	-23%
City of West Jordan ³	1,816.11	1,873.45	-3%	5,101.45	5,304.70	-4%	17,814.64	16,031.01	11%
White City Water Improvement District	0.00	0.00		0.00	0.00		0.00	0.00	
Willow Creek Country Club ⁶	42.18	27.44	54%	45.77	40.64	13%	250.82	212.75	18%
Wholesale System Subtotal	8,961.74	8,552.55	5%	25,569.97	25,906.59	-1%	82,383.25	77,082.32	7%
Retail System ²	573.28	576.92	-1%	1,854.62	1,866.95	-1%	6,256.73	6,096.73	3%
Total Wholesale & Retail	9,535.02	9,129.47	4%	27,424.59	27,773.54	-1%	88,639.98	83,179.04	7%

Other M&I Deliveries

MWDSLS (Treated and Transported) ⁴	845.12	652.51	30%	1,818.07	2,407.15	-24%	9,042.12	9,472.81	-5%
District Use (Non-revenue) ⁵	57.21	54.78	4%	164.55	166.64	-1%	531.84	499.07	7%
Other M&I Subtotal	902.33	707.29	28%	1,982.61	2,573.79	-23%	9,573.96	9,971.88	-4%
Total M&I Deliveries	10,437.35	9,836.76	6%	29,407.20	30,347.33	-3%	98,213.93	93,150.93	5%

Irrigation and Raw Water Deliveries

Welby Jacob Water Users	3,482.91	4,509.16	-23%	3,482.91	4,528.11	-23%	17,574.80	20,030.98	-12%
Total Irrigation and Raw Water	3,482.91	4,509.16	-23%	3,482.91	4,528.11	-23%	17,574.80	20,030.98	-12%
Total Deliveries	13,920.26	14,345.92	-3%	32,890.11	34,875.43	-6%	115,788.73	113,181.91	2%

¹ The City of South Salt Lake contract is based on a fiscal year. All other contracts are based on a calendar year.

² Retail deliveries are finalized after billing. Preliminary estimates using AMI data are made for the month previous to today.

³ Contract amount is minimum purchase plus remediated water.

⁴ Water treated and transported for MWDSLS by JVWCD is delivered to Salt Lake City at 2100 South.

⁵ District Use (Non-revenue) includes water consumed in breaks, reservoir washing, fires, irrigation and facility potable water.

⁶ Willow Creek Country Club average annual usage is estimated at 350 acre-feet.

Jordan Valley Water Conservancy District

Wholesale Contract Progress (af)

May 2023

■ Actual % of Contract
■ Projected³ % of Contract

Agency Name	Contract Type	Actual % of Contract	Projected ³ % of Contract	Contract Value (af)	Actual Value (af)	Actual %	Projected Value (af)	Projected %
Bluffdale City	Conventional	25%	95%	3,600	907	25%	3,413	95%
	Deferred Water ⁴	0%		71	0	0%		
Draper City	Conventional	25%	116%	3,800	958	25%	4,419	116%
Granger-Hunter Improvement District	Conventional	28%	103%	18,500	5,200	28%	19,010	103%
Herriman City	Conventional	19%	96%	5,200	980	19%	5,010	96%
	Deferred Water ⁴	0%		8	0	0%		
	Remediated ²	24%	78%	667	161	24%	517	78%
Hexcel Corporation	Conventional	54%	113%	720	391	54%	814	113%
Kearns Improvement District	Conventional	26%	103%	7,500	1,975	26%	7,699	103%
Magna Water District	Conventional	41%	99%	800	330	41%	796	99%
	Deferred Water ⁴	100%		11	11	100%		
Midvale City	Conventional	26%	103%	3,085	815	26%	3,171	103%
Riverton City	Conventional	46%	126%	4,000	1,855	46%	5,043	126%
South Jordan City	Conventional	24%	105%	15,000	3,556	24%	15,704	105%
City of South Salt Lake ¹	Remediated ²	24%	78%	1,333	322	24%	1,034	78%
	Conventional	94%	98%	1,020	956	94%	1,000	98%
Taylorsville-Bennion Improvement District	Conventional	44%	99%	4,700	2,084	44%	4,634	99%
	Deferred Water ⁴	100%		0	0	100%		
Utah Division of Facilities Construction and Management	Conventional	15%	54%	548	84	15%	297	54%
	Deferred Water ⁴	0%		82	0	0%		
WaterPro, Inc.	Conventional	27%	134%	950	259	27%	1,274	134%
City of West Jordan	Conventional	26%	103%	18,500	4,739	26%	19,048	103%
	Remediated ²	24%	78%	1,500	363	24%	1,163	78%

¹All contracts are on a calendar year except for City of South Salt Lake which is on a fiscal year.

²Remediated water is credited first as it becomes available.

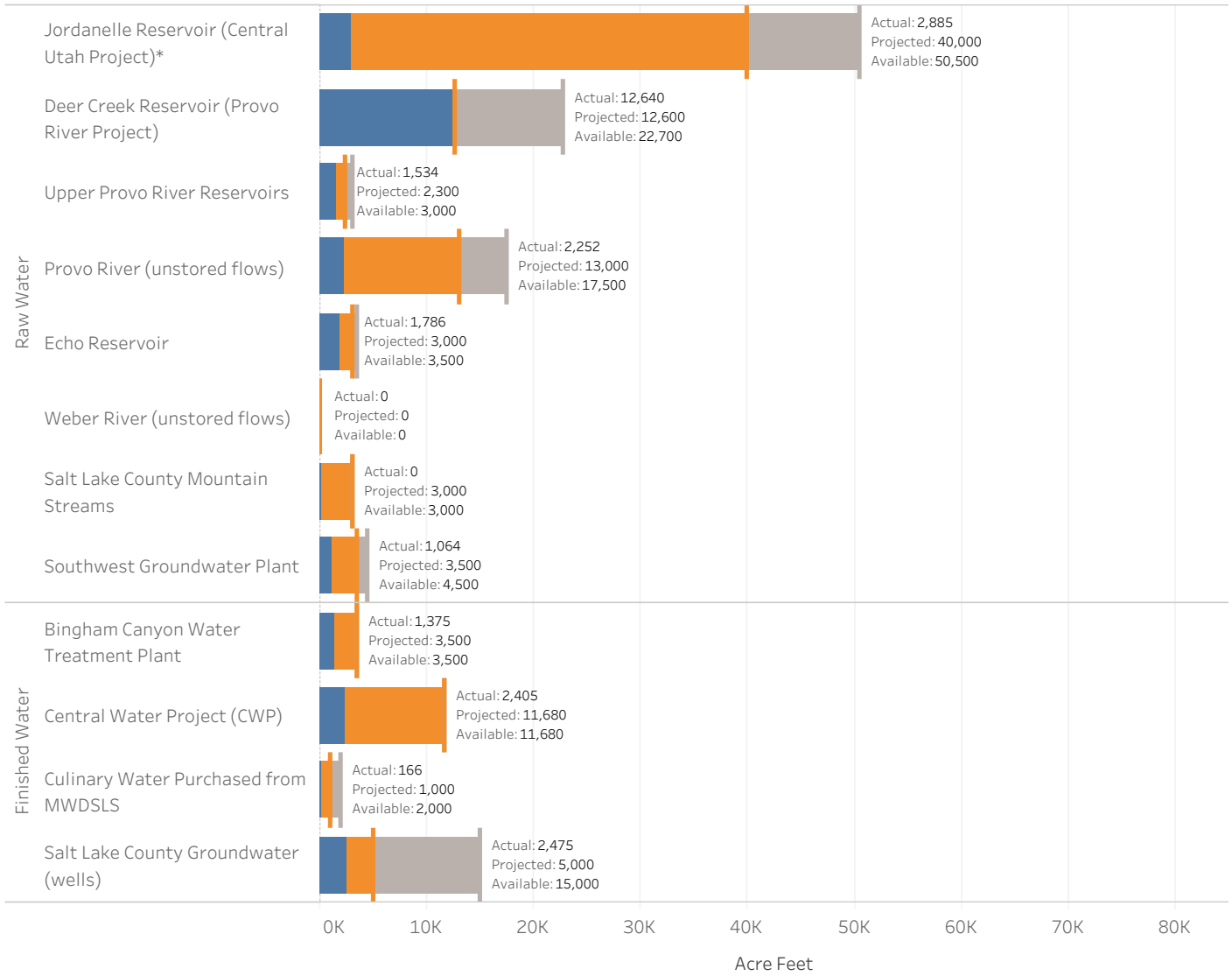
³Projected deliveries are calculated as an average monthly delivery over the previous three years for months left in the contract year.

⁴Non-delivered portion of minimum purchase contract that may be deferred to future years as outlined in Section 1.8 of the Rules and Regulations for Wholesale Water Service.

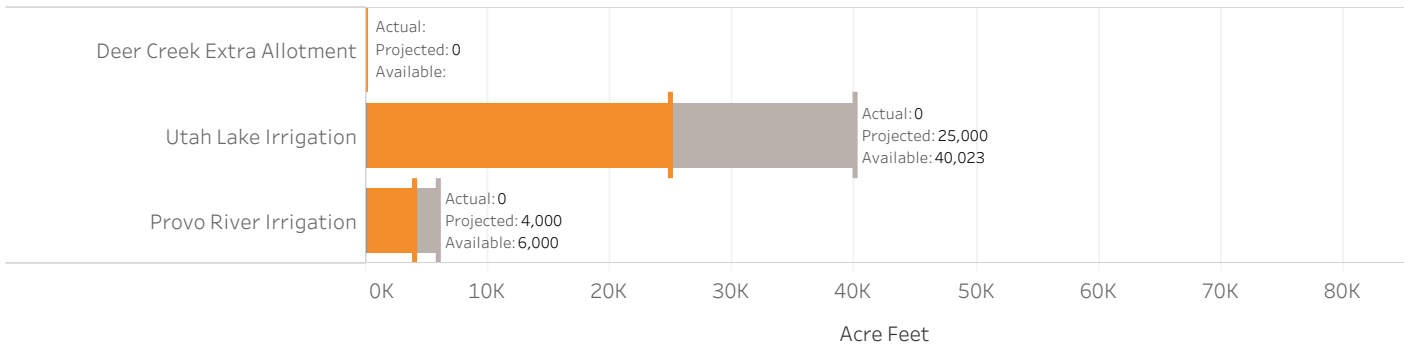
Jordan Valley Water Conservancy District

M&I Water Sources (April 30, 2023)
Water Year 2023 (November 1, 2022 - October 31, 2023)

Actual
Projected
Available



Irrigation Water Sources (April 30, 2023)
Irrigation Season 2023 (April 15, 2023 - October 15, 2023)



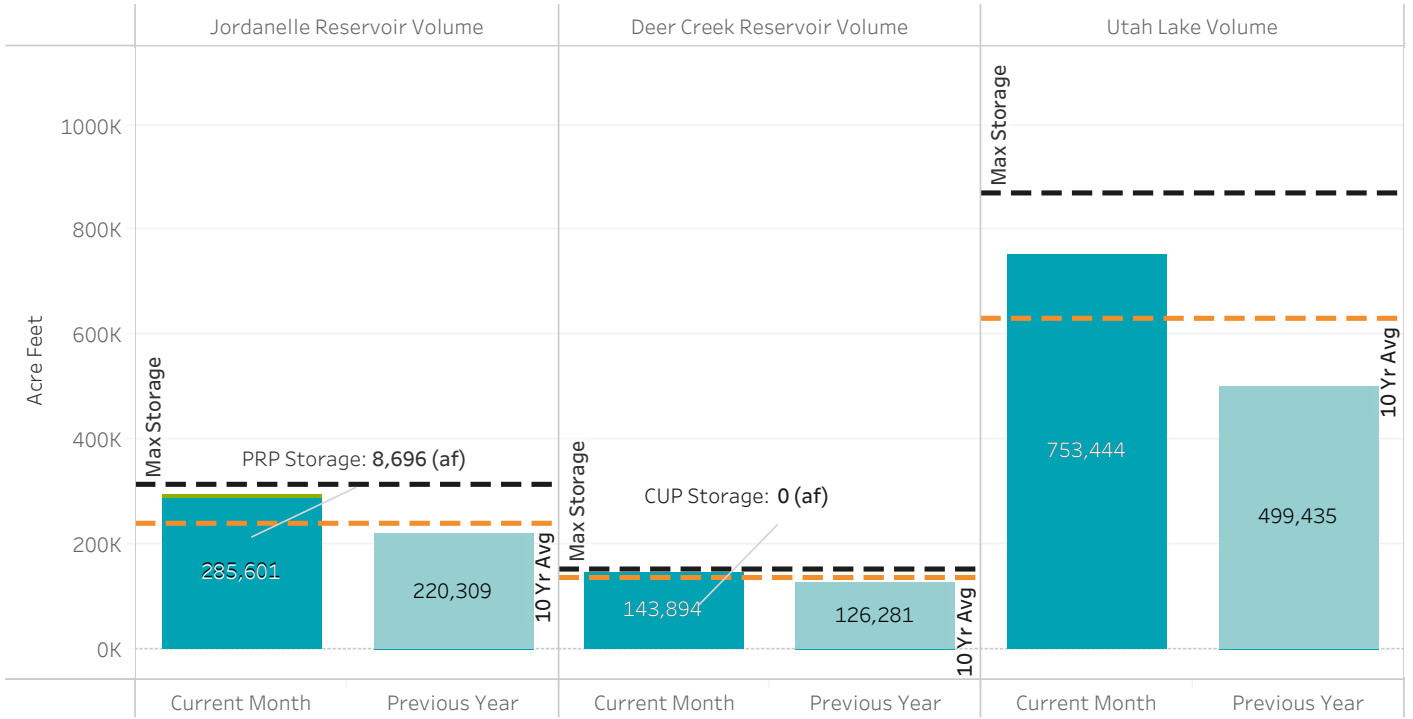
*Central Utah Project may include holdover water from the previous year.

Jordan Valley Water Conservancy District

Provo River Reservoirs Update

May 31, 2023

- Current Month
- Other Storage
- Previous Year



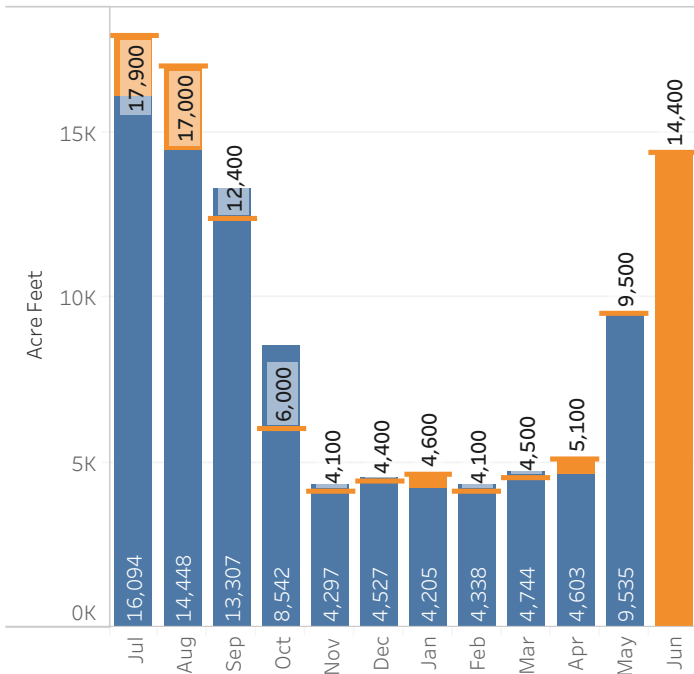
10 Yr Avg for Jordanelle Reservoir may not include all ten years. The available data for Jordanelle Reservoir begins with April, 2014.

Wholesale + Retail Actual & Projected Deliveries

FY 2023

Through May 2023

- Actual
- Projected

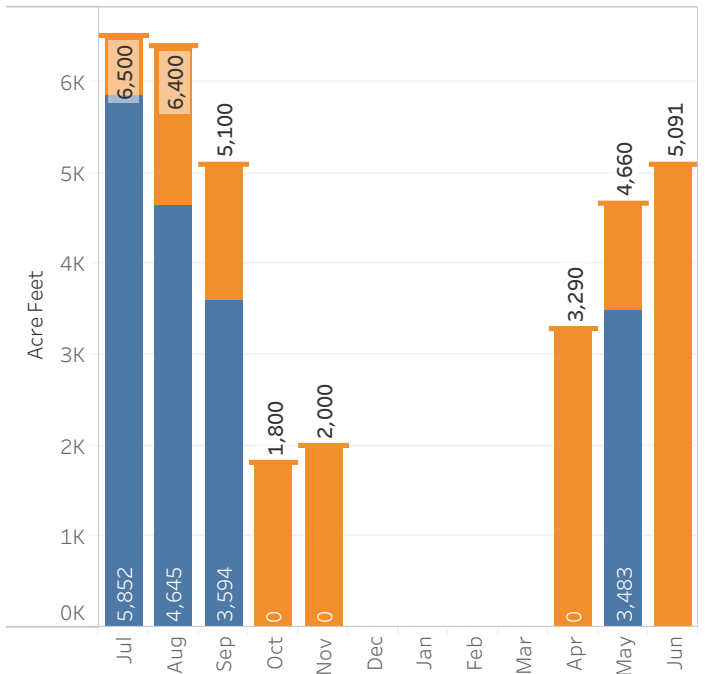


Irrigation Actual & Projected Deliveries

FY 2023

Through May 2023

- Actual
- Projected

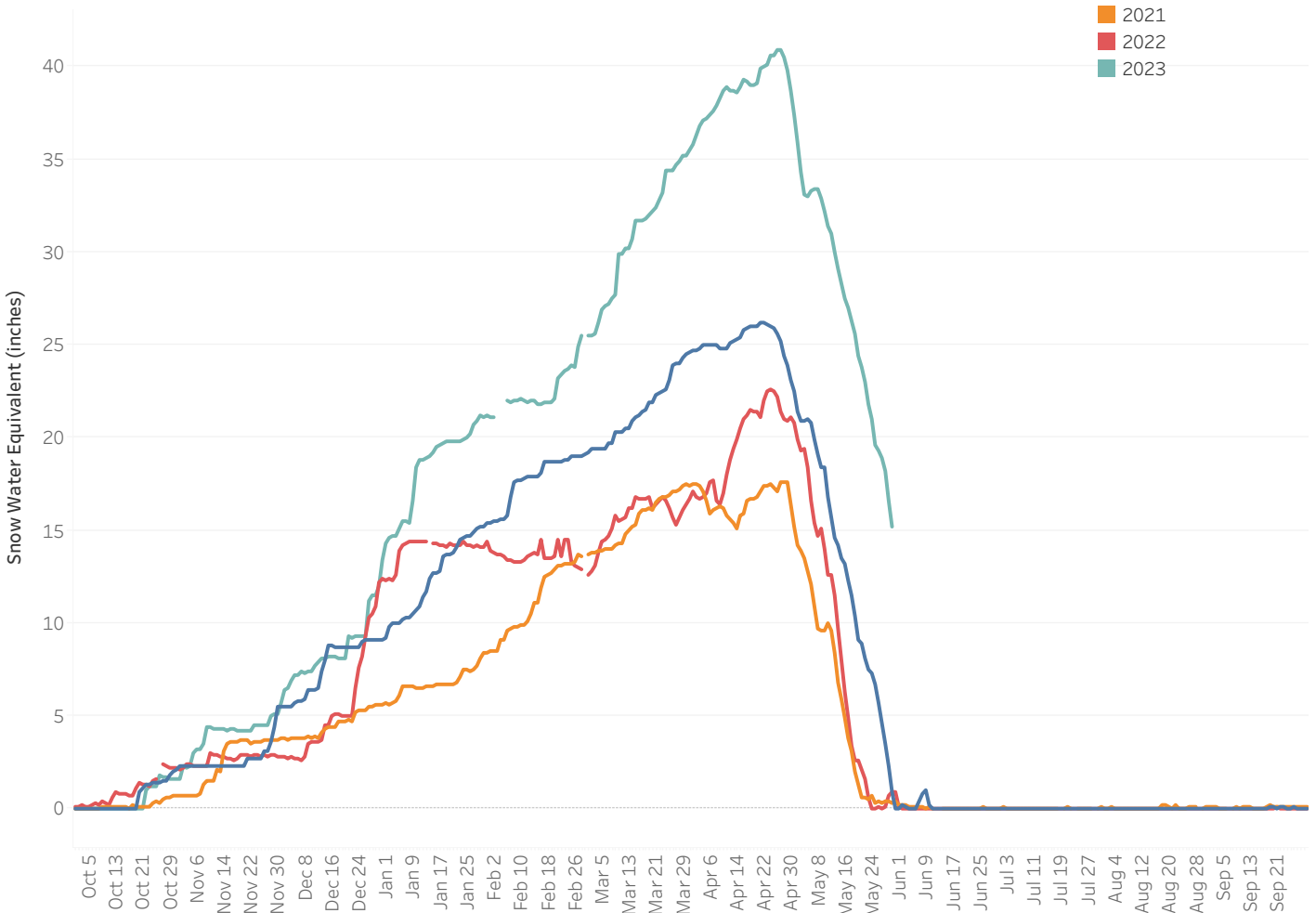


Jordan Valley Water Conservancy District

Trial Lake Snow Pack Accumulation

Water Year

- 2020
- 2021
- 2022
- 2023



Jordan Valley Water Conservancy District

Beaver Divide Snow Pack Accumulation

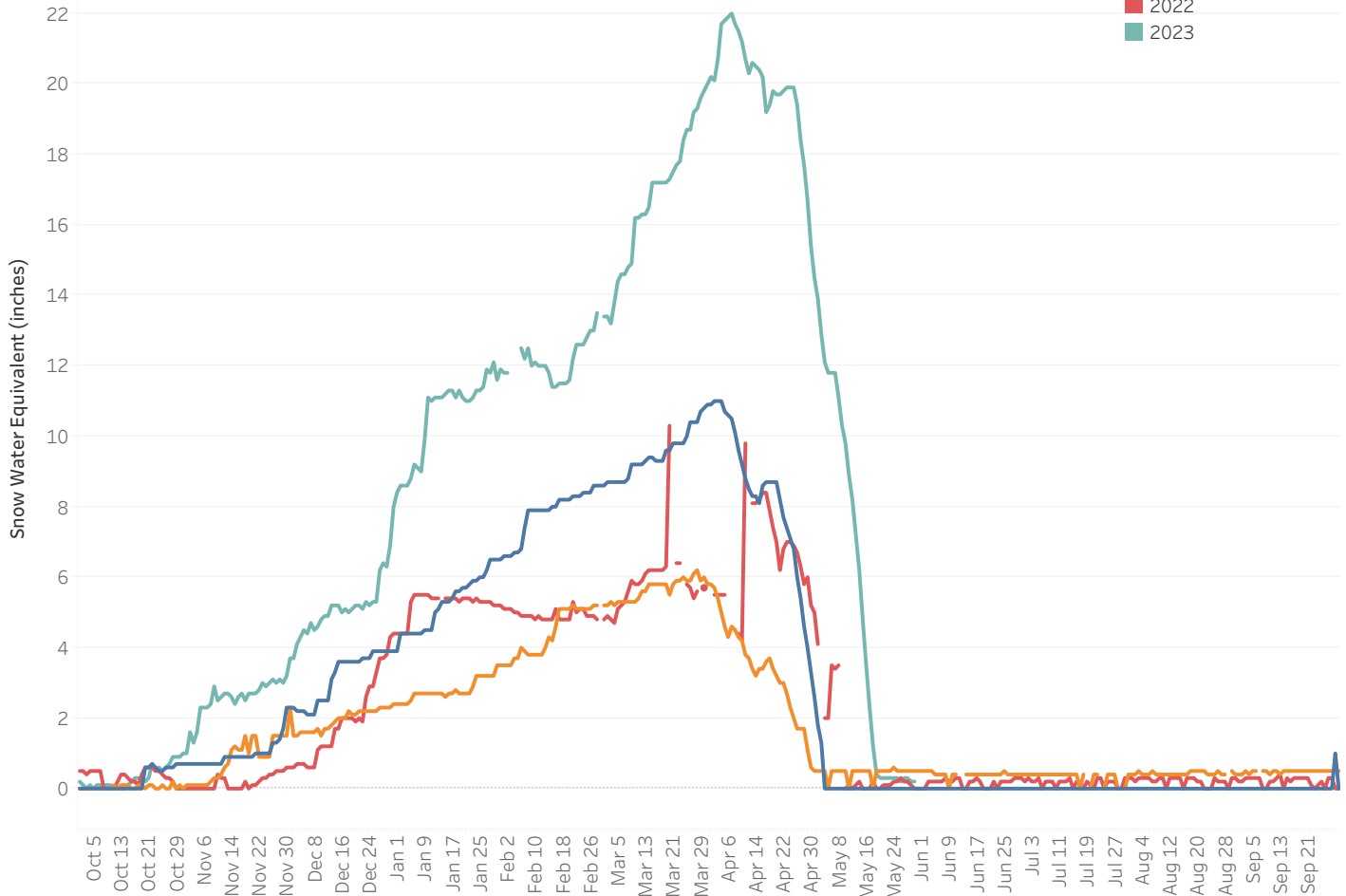
Water Year

2020

2021

2022

2023



WATER QUALITY UPDATE

Water Quality Update

Laboratory Analyst Certification
Requirements



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Board Meeting
June 7, 2023



Jordan Valley Laboratory

- 1 Lab Manager
- 1 Technical Supervisor
- 1 Lab Analyst 3
- 1 Lab Analyst 2
- 1 Lab Analyst 1



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

JORDAN VALLEY LABORATORY
15305 South 3200 West | Herriman, UT 84065
801-446.2020



- NELAP Certified (National Environmental Laboratory Accreditation Program).
- NELAP is a voluntary program to develop consensus national standards for environmental laboratory accreditation.
- Specific certification requirements for individual analysts.



Individual Certification Requirements:

- Education and experience
- Instrument Training and Familiarization
- Establish MRL (Minimum Reporting Level)
- Proficiency Testing
- Initial Demonstration of Capability



Education and Experience



Lab Director, Technical Supervisor, Lab Analyst 3:

- Minimum of Bachelor's degree in chemical, environmental, biological, or physical sciences (Minimum of 24 credit hours in chemistry).
- 2 – 4 years of experience in environmental analysis.



Education and experience

Lab Analyst 2:

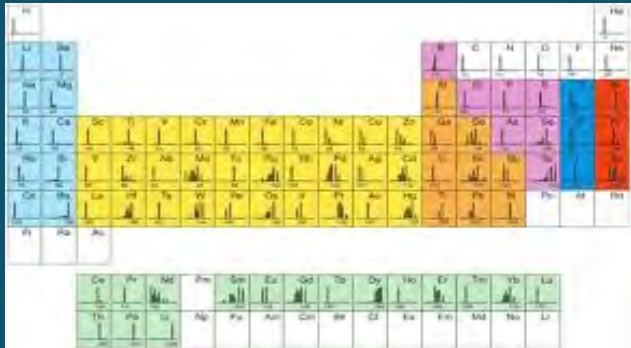
- Associate degree (or equivalent) in chemical, environmental, biological, or physical sciences.
- 2 years of experience in environmental analysis.

Lab Analyst 1:

- High school diploma or equivalent (some college preferred)
- Experience in an environmental lab



Instrument Training





Instrument Training Requirements



- Training requirements set by Lab management.
- Analyst must be able to completely run instrument by themselves.
- Difficulty of training varies on instrument-to-instrument basis.



Initial Demonstration of Capability



Laboratory analysts are required to demonstrate proficiency to perform any method:

- Analyze and pass the QC criteria for at least 4 “blanks”.
- A blank is a spiked sample that has been fortified with a known concentration of sample.



MRL (Minimum Reporting Level)



Establish MRL (Minimum Reporting Level)

- Smallest measured concentration of a substance that can be reliably measured by using a given analytical method.
- It is the “less-than” value reported when an analyte either is not detected or is detected at a concentration less than the MRL.



Proficiency Testing

PT samples are “blind” or unknown samples from a certified agency. The lab must run the samples, report their results, and meet the acceptance criteria.

After being certified, the analyst is required to analyze and report PT samples every 6 months to retain certification.





TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date
WS Nitrite (cat# 594, lot# S319-695)								
1840	Nitrite as N	mg/L	1.33	1.31	1.11 - 1.51	Acceptable	SM 4110 B-2011 2011	3/13/2023

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date
WS Hardness (cat# 555, lot# S319-693)								
1035	Calcium	mg/L	71.4	72.9	62.0 - 83.8	Acceptable	SM 3500-Ca B-2011 2011	3/10/2023
1085	Magnesium	mg/L		3.38	2.87 - 3.89	Not Reported		
1155	Sodium	mg/L		27.0	23.0 - 31.0	Not Reported		
1550	Calcium Hardness as CaCO3	mg/L		182	155 - 209	Not Reported		
1755	Total Hardness as CaCO3	mg/L	192	196	167 - 225	Acceptable	SM 2340 C-2011 2011	3/10/2023



Microbiology

For microbiological analysis, we use a certified quality control sample similar to a PT sample.

Colilert® Test Reactions



Clear is negative for total coliforms and E. coli.

Yellow is positive for total coliforms.

Fluorescent is positive for E. coli.

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date
WS MicrobE™ (Coliforms) (cat# 080A, lot# S319-085A) (Continued)								
2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 8	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9223 B (Colilert®)-1997	3/8/2023



Questions?

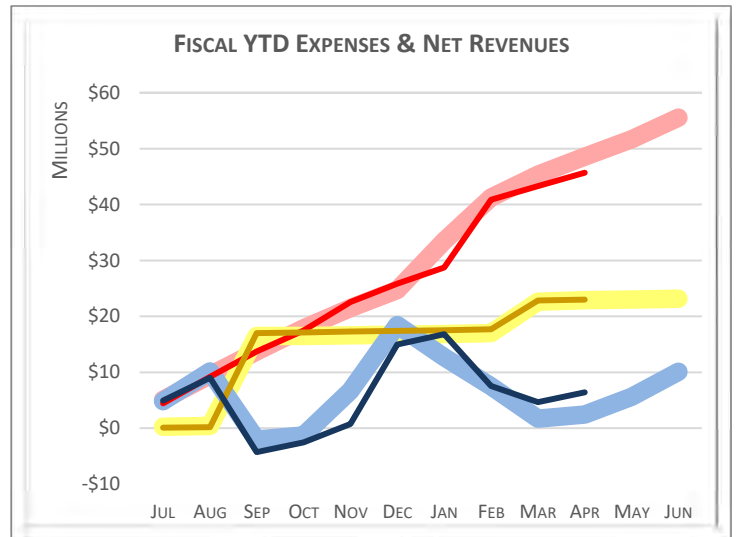
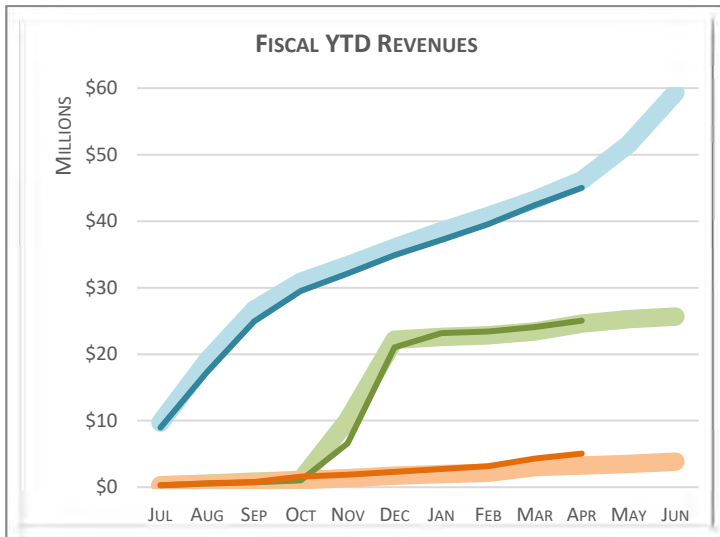
STANDING COMMITTEE REPORTS

FINANCE UPDATE

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FINANCIAL REPORT SUMMARY – APRIL 2023

MONTHLY AND YEAR-TO-DATE OPERATING SUMMARY

	Legend	APRIL 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET
REVENUES				
Water Sales Revenue	—	\$ 2,595,278	\$ 45,011,691	\$ 59,313,072
Property Tax Revenue	—	977,300	25,041,383	25,650,346
All Other Revenue	—	728,725	5,054,522	3,842,393
		4,301,302	75,107,596	88,805,811
EXPENSES				
Operating Expenses	—	2,413,049	45,697,635	55,552,984
Bond Debt Service	—	150,513	23,007,530	23,164,500
Net Revenues after Debt Service	—	\$ 1,737,741	\$ 6,402,432	\$ 10,088,327

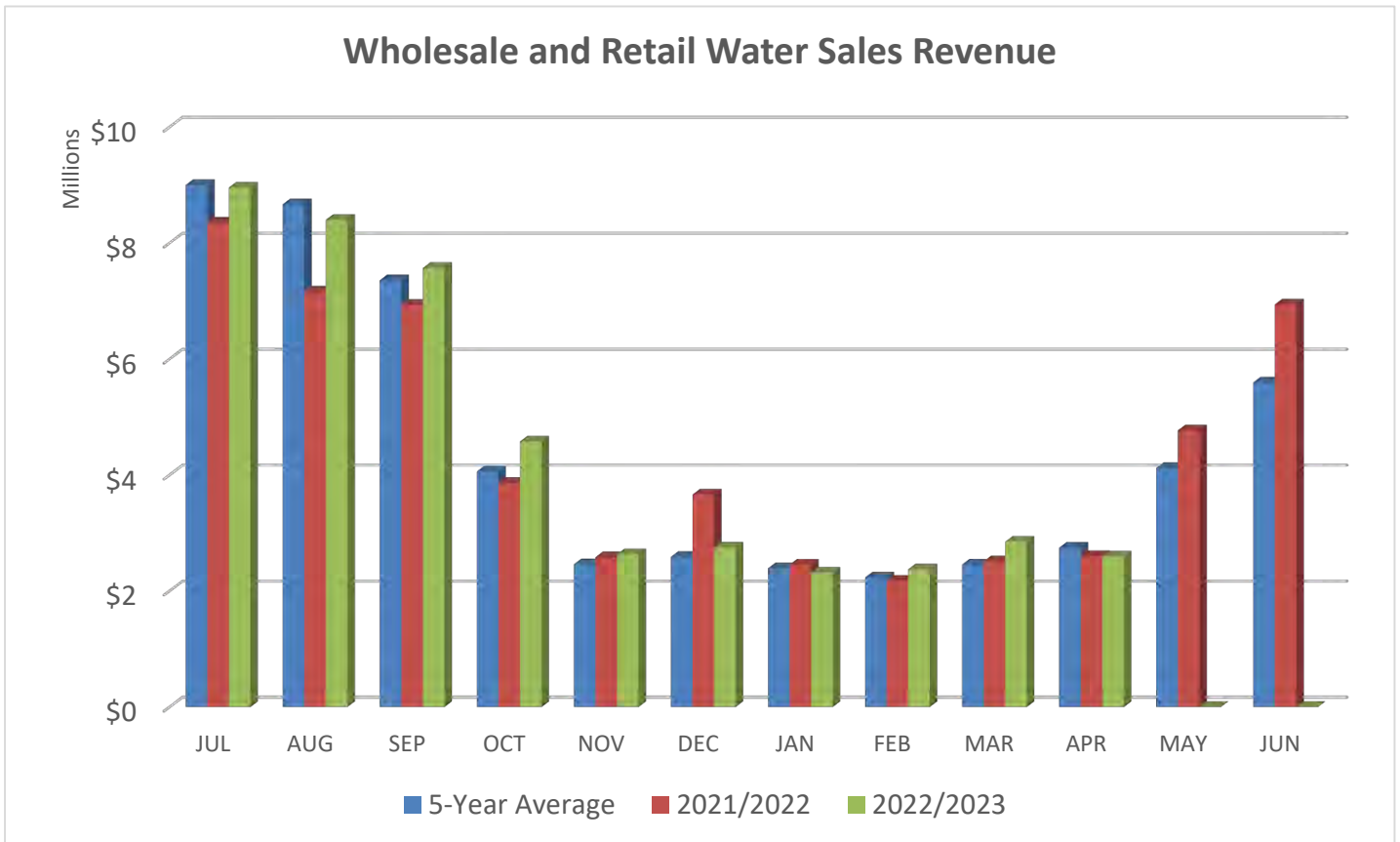


OTHER FINANCIAL HIGHLIGHTS

FUND BALANCES	
Revenue	\$ 9,525,093
Operation & Maintenance	17,503,049
General Equipment	477,313
Retail Deposit Account	203,080
Bond Proceeds	19,454,469
Capital Projects	2,000,979
Replacement Reserve	19,221,358
Development Fee	388,007
Other Reserves	14,188,039
Bond Reserves	5,089,741
	\$ 88,051,129

LONG-TERM DEBT INFORMATION	
Outstanding Bonds and Notes Payable - 04/30/2023	\$ 312,532,852
<u>Average Annual Debt Payments Next 10-Years</u>	
Principal Payments	\$ 14,738,515
Interest Payments	16,516,500
	\$ 31,255,015
<u>Projected Next Future Bond Issue</u>	
Bond Issue Date	January 2024
Bond Issue Amount	\$ 100,000,000

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FINANCIAL REPORT SUMMARY – APRIL 2023



JORDAN VALLEY WATER CONSERVANCY DISTRICT
INCOME STATEMENT - APRIL 2023 (83%)

MODIFIED ACCRUAL BASIS - UNAUDITED

	APRIL 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET	% OF BUDGET	APRIL 2022	FY 21/22 Y-T-D	FY 21/22 BUDGET	% OF BUDGET
REVENUES								
Metered Sales of Water								
- Wholesale	\$ 2,331,060	\$ 39,475,832	\$ 52,554,723	75%	\$ 2,339,953	\$ 36,923,254	\$ 51,303,595	72%
- Retail	264,218	5,535,860	6,758,349	82%	260,774	5,370,811	7,514,783	71%
Impact Fees	-	203,053	512,000	40%	-	151,612	407,000	37%
General Property Tax	977,300	25,041,383	25,650,346	98%	1,022,207	23,206,452	23,230,051	100%
Other - Investment Income, etc.	345,387	2,748,771	1,087,300	253%	52,351	405,841	548,900	74%
Other - Misc.	383,338	2,102,699	2,243,093	94%	205,814	1,499,933	1,605,000	93%
Total Revenues	4,301,302	75,107,596	88,805,811	85%	3,881,100	67,557,903	84,609,329	80%
OPERATING EXPENSES *								
Water Purchases	157,631	17,651,285	18,615,784	95%	790,350	17,696,313	17,672,551	100%
Operations and Maintenance	546,627	8,195,710	11,621,168	71%	443,894	7,097,402	10,678,691	66%
General and Administrative	238,760	4,288,073	5,728,341	75%	356,169	3,986,935	4,874,489	82%
Payroll Related	1,470,031	15,562,566	19,587,691	79%	1,463,988	14,879,959	17,949,637	83%
Total Operating Expenses	2,413,049	45,697,635	55,552,984	82%	3,054,402	43,660,609	51,175,368	85%
Net Revenues Available for Debt Service	1,888,253	29,409,961	33,252,827	88%	826,697	23,897,294	33,433,961	71%
Bond Debt Service	150,513	23,007,530	23,164,500	99%	106,773	22,341,484	22,357,783	100%
Net Revenues after Debt Service	1,737,741	6,402,432	10,088,327		719,924	1,555,810	11,076,178	
Transfer of Revenue Stabilization Funds	-	8,402,108	8,402,108	100%	-	5,590,263	5,590,263	100%
Net Revenues	\$ 1,737,741	\$ 14,804,540	\$ 18,490,435		\$ 719,924	\$ 7,146,073	\$ 16,666,441	
* See Exhibit 2 for summary of expenses by line item.								
NON-OPERATING EXPENSES (REVENUES)								
Capital Replacement Projects	\$ 180,718	\$ 7,125,380	\$ 21,837,862	33%	\$ 695,819	\$ 3,899,183	\$ 16,275,869	24%
Capital Projects	1,891,788	25,026,869	32,456,659	77%	874,651	6,940,062	14,240,579	49%
Development Fee	128,973	538,365	512,000	105%	-	-	407,000	0%
General Equipment	42,648	549,098	903,100	61%	125,213	588,215	727,510	81%
Self Insurance Claims	(200)	7,901	100,000	8%	1,747	61,112	100,000	0%
Bond Cost of Issuance	-	-	250,000		-	560,548	350,000	
Subtotal	2,243,927	33,247,613	56,059,621	59%	1,697,430	12,049,120	32,100,958	38%
Cap Proj Grants & Other Contrib	-	(1,037,239)	(2,849,431)	36%	(150,916)	(899,968)	(2,281,758)	39%
(Gain) / Loss on Sale of Assets	-	(1,584,281)	-		-	(43,070)	-	
Bond Cost of Issuance Proceeds	-	-	(250,000)		-	(560,548)	(350,000)	
Subtotal	-	(2,621,520)	(3,099,431)	85%	(150,916)	(1,503,586)	(2,631,758)	57%
Total Non-operating Expenses (Revenues)	\$ 2,243,927	\$ 30,626,093	\$ 52,960,190		\$ 1,546,514	\$ 10,545,534	\$ 29,469,200	36%

JORDAN VALLEY WATER CONSERVANCY DISTRICT
OPERATING EXPENSES SUMMARY - APRIL 2023 (83%)

MODIFIED ACCRUAL BASIS - UNAUDITED

DESCRIPTION	APRIL 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET	% OF BUDGET	APRIL 2022	FY 21/22 Y-T-D	FY 21/22 BUDGET	% OF BUDGET
Water Purchases	\$ 152,317	\$ 16,423,465	\$ 17,402,067	94%	\$ 790,350	\$ 16,515,008	\$ 16,656,830	99%
Water Stock Assessments	5,314	1,227,820	1,213,717	101%	-	1,181,305	1,015,721	116%
Total Water Purchases	157,631	17,651,285	18,615,784	95%	790,350	17,696,313	17,672,551	100%
Building & Grounds Maint	36,511	274,643	389,512	71%	32,189	241,797	398,254	61%
General Property & Leases	11,215	101,961	210,482	48%	360	68,485	206,732	33%
Repair & Replacement	32,806	947,509	1,230,499	77%	53,342	607,964	1,194,680	51%
Scheduled Maintenance	16,027	298,997	552,539	54%	7,554	403,560	557,766	72%
Tools & Supplies	22,088	241,670	338,911	71%	42,327	194,513	257,794	75%
Treatment - Chemicals	166,575	1,639,149	2,780,169	59%	89,595	1,090,658	2,028,470	54%
Treatment - Lab, Studies & Quality	10,347	418,118	607,499	69%	24,983	228,622	587,195	39%
Utilities - JVWTP	56,413	295,600	347,460	85%	26,243	279,243	307,740	91%
Utilities - SERWTP	12,566	104,768	118,842	88%	9,818	95,353	107,044	89%
Utilities - SWGWTP & RO Wells	29,377	370,055	734,702	50%	35,246	377,101	772,776	49%
Utilities - Wells	27,976	1,117,478	1,334,878	84%	32,014	1,332,670	1,130,331	118%
Utilities - Boosters	73,079	1,417,900	1,663,712	85%	44,231	1,215,832	1,875,568	65%
Utilities - JNPS & JA	5,420	520,252	784,314	66%	4,598	557,878	785,514	71%
Utilities - Other	14,999	171,591	203,549	84%	18,030	173,835	196,198	89%
Utility Location (Blue Stakes)	2,838	26,489	28,050	94%	-	18,923	28,050	67%
Vehicle & Gen. Equip. - Fuel	18,814	181,583	180,060	101%	14,725	130,588	143,690	91%
Vehicle & Gen. Equip. - Parts	9,578	67,946	115,990	59%	8,641	80,381	100,889	80%
Total Operations & Maintenance	546,627	8,195,710	11,621,168	71%	443,894	7,097,402	10,678,691	66%
Bond Fees	68,401	379,624	424,000	90%	7,042	307,660	409,500	75%
Computer Supplies	20,404	576,531	822,775	70%	126,826	689,808	828,026	83%
Conservation Programs	33,242	1,053,352	1,567,873	67%	80,151	706,237	970,200	73%
General & Administrative	16,355	197,863	211,950	93%	13,274	173,046	192,955	90%
General Insurance	-	1,114,009	1,031,351	108%	-	964,879	876,114	110%
Legal & Auditing Fees	26,275	336,897	481,650	70%	28,671	348,214	482,650	72%
Office / Mailing / Safety	18,438	200,121	277,858	72%	13,513	190,873	256,686	74%
Professional Consulting Services	31,980	190,962	316,350	60%	12,301	228,813	276,000	83%
Public Relations	4,056	31,756	192,925	16%	54,030	198,574	194,635	102%
Training & Education	19,609	206,960	401,609	52%	20,362	178,831	387,723	46%
Total General & Administrative	238,760	4,288,073	5,728,341	75%	356,169	3,986,935	4,874,489	82%
Payroll Related	1,470,031	15,562,566	19,587,691	79%	1,463,988	14,879,958	17,949,637	83%
Total Operating Expenses	\$ 2,413,049	\$ 45,697,635	\$ 55,552,984	82%	\$ 3,054,402	\$ 43,660,609	\$ 51,175,368	85%

JORDAN VALLEY WATER CONSERVANCY DISTRICT
METERED SALES OF WHOLESALE WATER - APRIL 2023

MODIFIED ACCRUAL BASIS - UNAUDITED

WHOLESALE MEMBER AGENCY	CURRENT MONTH			FISCAL YTD		
	APRIL 2023	APRIL 2022	INCREASE / (DECREASE)	APRIL 2023	APRIL 2022	INCREASE / (DECREASE)
Bluffdale	\$ 88,613	\$ 96,991	\$ (8,379)	\$ 1,491,083	\$ 1,376,101	\$ 114,982
Div of Fac Const & Mgnt	4,627	15,463	(10,836)	151,337	193,691	(42,354)
Draper	77,945	88,400	(10,454)	1,701,717	1,638,435	63,282
Granger-Hunter	536,407	535,391	1,016	8,371,142	8,428,576	(57,434)
Herriman	131,975	108,269	23,706	2,872,593	2,382,536	490,057
Hexcel Corporation	34,556	29,954	4,602	316,769	262,251	54,518
Kearns	197,484	205,171	(7,687)	3,363,405	3,192,700	170,704
Magna	28,449	26,761	1,687	280,132	274,465	5,668
Midvale	58,373	55,991	2,382	1,324,281	990,899	333,382
Riverton	178,826	159,991	18,835	2,230,305	1,873,248	357,057
South Jordan	347,985	368,047	(20,061)	6,306,362	6,782,959	(476,597)
South Salt Lake	42,522	44,587	(2,066)	339,215	358,134	(18,919)
Taylorsville-Bennion	115,530	114,321	1,209	1,695,571	1,592,481	103,090
WaterPro, Inc.	-	-	-	277,340	295,969	(18,629)
West Jordan	487,328	489,624	(2,296)	8,739,457	7,557,908	1,181,548
White City	50	50	-	500	500	-
Willow Creek Country Club	391	942	(551)	14,623	18,369	(3,746)
TOTALS	<u>\$ 2,331,060</u>	<u>\$ 2,339,953</u>	<u>\$ (8,893)</u>	<u>\$ 39,475,832</u>	<u>\$ 37,219,223</u>	<u>\$ 2,256,609</u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FUND BALANCES - APRIL 2023

CASH BASIS - UNAUDITED

	Operating Funds			
	Revenue	Operation and	General	Retail
	Fund *	Maintenance	Equipment	Deposit
		Fund *	Fund	Account
Beginning Cash Balance	\$ 8,191,477.11	\$ 17,871,244.32	\$ 517,855.68	\$ 203,080.00
<u>CASH RECEIPTS:</u>				
Operations	2,460,949.66	996,466.18	-	-
Interest	31,625.10	73,709.98	2,105.20	-
Bond	-	-	-	-
Transfers	-	<u>1,000,000.00</u>	-	-
Total Cash Receipts	<u>2,492,574.76</u>	<u>2,070,176.16</u>	<u>2,105.20</u>	<u>-</u>
<u>CASH DISBURSEMENTS:</u>				
Operations	8,445.68	2,438,371.21	-	-
Capital	-	-	42,648.08	-
Debt Service	150,512.77	-	-	-
Other	-	-	-	-
Transfers	<u>1,000,000.00</u>	-	-	-
Total Disbursements	<u>1,158,958.45</u>	<u>2,438,371.21</u>	<u>42,648.08</u>	<u>-</u>
Net Change in Cash	<u>1,333,616.31</u>	<u>(368,195.05)</u>	<u>(40,542.88)</u>	<u>-</u>
Ending Cash Balance	<u>\$ 9,525,093.42</u>	<u>\$ 17,503,049.27</u>	<u>\$ 477,312.80</u>	<u>\$ 203,080.00</u>
* Minimum Balance or Reserve	<u>\$ 5,791,125.00</u>	<u>\$ 7,400,000.00</u>	<u>\$ -</u>	<u>\$ -</u>

**JORDAN VALLEY WATER CONSERVANCY DISTRICT
FUND BALANCES - APRIL 2023**

CASH BASIS - UNAUDITED

Capital Funds		
Capital Replacement Reserve Fund	Capital Projects Fund	Bond Projects Fund

Beginning Cash Balance \$ 19,323,520.82 \$ 4,391,892.30 \$ 19,375,468.66

CASH RECEIPTS:

Operations	-	-	-
Interest	78,554.56	17,854.05	79,000.76
Bond	-	-	-
Transfers	-	-	-
Total Cash Receipts	<u>78,554.56</u>	<u>17,854.05</u>	<u>79,000.76</u>

CASH DISBURSEMENTS:

Operations	-	-	-
Capital	180,717.75	2,020,760.90	-
Debt Service	-	-	-
Other	-	-	-
Transfers	-	-	-
Total Disbursements	<u>180,717.75</u>	<u>2,020,760.90</u>	<u>-</u>

Net Change in Cash (102,163.19) (2,002,906.85) 79,000.76

Ending Cash Balance \$ 19,221,357.63 \$ 2,388,985.45 \$ 19,454,469.42

* Minimum Balance
or Reserve \$ - \$ - \$ -

JORDAN VALLEY WATER CONSERVANCY DISTRICT FUND BALANCES - APRIL 2023

CASH BASIS - UNAUDITED

	Reserve Funds		Restricted Funds		Total
	Other Reserve Funds *	Self Insurance Fund *	Revenue Stabilization Fund	Total Bond Debt Service Reserve Funds *	Total All Funds *
Beginning Cash Balance	\$ 387,574.04	\$ 5,170,032.05	\$ 8,572,790.00	\$ 5,087,315.77	\$ 89,092,250.75
<u>CASH RECEIPTS:</u>					
Operations	-	4,599.54	-	-	3,462,015.38
Interest	1,575.58	21,017.38	34,850.36	2,425.61	342,718.58
Bond	-	-	-	-	-
Transfers	-	-	-	-	1,000,000.00
Total Cash Receipts	1,575.58	25,616.92	34,850.36	2,425.61	4,804,733.96
<u>CASH DISBURSEMENTS:</u>					
Operations	-	4,399.73	-	-	2,451,216.62
Capital	-	-	-	-	2,244,126.73
Debt Service	-	-	-	-	150,512.77
Other	-	-	-	-	-
Transfers	-	-	-	-	1,000,000.00
Total Disbursements	-	4,399.73	-	-	5,845,856.12
Net Change in Cash	1,575.58	21,217.19	34,850.36	2,425.61	(1,041,122.16)
Ending Cash Balance	\$ 389,149.62	\$ 5,191,249.24	\$ 8,607,640.36	\$ 5,089,741.38	\$ 88,051,128.59
* Minimum Balance or Reserve	<u>\$ 389,149.62</u>	<u>\$ 5,191,249.24</u>	<u>\$ -</u>	<u>\$ 5,089,741.38</u>	<u>\$ 23,861,265.24</u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT

FUND BALANCES - APRIL 2023

INVESTMENT SUMMARY

	Institution/Account	Fund	Date Invested	Maturity Date	Interest Rate	Principal Invested	
Operating Funds	Zions Bank - Checking/Sweep Account	Revenue	04/01/23	04/30/23	4.51%	\$ 2,390,059.59	
	Paypal Account - Garden Revenue	Revenue	04/01/23	04/30/23	0.00%	7,901.52	
	Wells Fargo Bank - Savings Account	Revenue	04/01/23	04/30/23	0.10%	391,236.72	
	Express Bill Pay Deposit Account	Revenue	04/01/23	04/30/23	0.00%	69,687.75	
	CUWCD Series B-4 Revenue Bonds	Revenue	06/20/13	10/01/34	5.11%	1,670,000.00	
	Public Treasurers Investment Fund	Revenue	04/01/23	04/30/23	5.01%	4,996,207.84	
	Subtotal - Revenue Funds						9,525,093.42
	Zions Bank - Checking/Sweep Account	O&M	04/01/23	04/30/23	4.51%	829,967.69	
	Public Treasurers Investment Fund	O&M	04/01/23	04/30/23	5.01%	16,673,081.58	
	Subtotal - O&M Funds						17,503,049.27
	Public Treasurers Investment Fund	General Equipment	04/01/23	04/30/23	5.01%	477,312.80	
	Retail Deposit Account	Retail Deposit	04/01/23	04/30/23	0.00%	203,080.00	
Total Operating Funds						\$ 27,708,535.49	
Capital Funds	Public Treasurers Investment Fund	Capital Replacement Reserve	04/01/23	04/30/23	5.01%	\$ 19,221,357.63	
	Public Treasurers Investment Fund	Capital Projects	04/01/23	04/30/23	5.01%	2,000,978.93	
	Public Treasurers Investment Fund	Bond Project Funds	04/01/23	04/30/23	5.01%	19,454,469.42	
	Public Treasurers Investment Fund	Development Fee	04/01/23	04/30/23	5.01%	388,006.52	
	Total Capital Funds						\$ 41,064,812.50
Reserve Funds	Public Treasurers Investment Fund	Self Insurance	04/01/23	04/30/23	5.01%	\$ 5,191,249.24	
	Public Treasurers Investment Fund	JVWTP Maintenance	04/01/23	04/30/23	5.01%	94,448.29	
	Public Treasurers Investment Fund	Bond R&R	04/01/23	04/30/23	5.01%	170,684.47	
	Public Treasurers Investment Fund	JA Maintenance	04/01/23	04/30/23	5.01%	124,016.86	
	Public Treasurers Investment Fund	Revenue Stabilization	04/01/23	04/30/23	5.01%	8,607,640.36	
	Total Reserve Funds						\$ 14,188,039.22
Restricted Funds	Zions Bank (Trustee) - US Treasury Notes	B-1 Bond Debt Serv Res	Varies	Varies	0.57%	\$ 4,928,297.34	
	Zions Bank (Trustee) - US Treasury Notes	2009C Bond Debt Serv Res	Varies	Varies	0.57%	161,444.04	
	Total Restricted Funds						\$ 5,089,741.38
TOTAL ALL FUNDS						\$ 88,051,128.59	

JORDAN VALLEY WATER CONSERVANCY DISTRICT
BALANCE SHEET - APRIL 2023

MODIFIED ACCRUAL BASIS - UNAUDITED

	APRIL 2023	APRIL 2022
ASSETS		
<i>Current Assets:</i>		
Cash & Cash Equivalents (Note 1)	\$ 63,510,076	\$ 61,070,753
Accounts Receivable	4,414,402	3,131,644
Inventory	<u>654,868</u>	<u>615,769</u>
Total Current Assets	68,579,346	64,818,166
<i>Restricted Assets:</i>		
Cash & Investments	24,544,211	48,910,662
<i>Long-Term Assets:</i>		
Long-Term Receivables	-	-
Other Assets	8,565,423	2,753,730
Property, Plant & Equipment (Net)	<u>580,762,813</u>	<u>556,719,341</u>
Total Long-Term Assets	<u>589,328,236</u>	<u>559,473,071</u>
Total Assets	<u>\$ 682,451,793</u>	<u>\$ 673,201,899</u>
LIABILITIES & FUND EQUITY		
<i>Current Liabilities:</i>		
Accounts Payable	\$ 0	\$ 21,444
Other Current Liabilities	<u>1,510,846</u>	<u>1,664,430</u>
Total Current Liabilities	1,510,846	1,685,874
<i>Long-Term Liabilities:</i>		
Bonds and Notes Payable	312,532,852	322,141,033
Other Long-Term Liabilities	<u>8,247,331</u>	<u>10,330,783</u>
Total Long-Term Liabilities	<u>320,780,183</u>	<u>332,471,816</u>
Total Liabilities	322,291,029	334,157,689
Total Net Position	<u>360,160,763</u>	<u>339,044,210</u>
Total Liabilities & Net Position	<u>\$ 682,451,793</u>	<u>\$ 673,201,899</u>

Note 1: Cash and cash equivalents totalling \$35,886,545 have been committed for; replacement reserve \$19,221,358, capital projects \$2,000,979, development fee \$388,007, general equipment \$477,313, self insurance reserve \$5,191,249 and revenue stabilization fund \$8,607,640.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
IMPACT FEE SUMMARY - APRIL 2023

CASH BASIS - UNAUDITED

Date Payee Subdivision/Lot# Area Amount

Total Fees Collected April

\$ -

Total Fees Collected Fiscal YTD

\$ 203,053.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CHECK REGISTER - REVENUE ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

CHECK NO.	CHECK DATE	VENDOR NAME	CHECK AMOUNT
71974	4/6/23	BECTON DICKINSON	\$1,318.31
71975	4/6/23	BRUBAKER CONSTRUCTION INC	17.00
71976	4/6/23	DEELSTRA, KIMBERLY J	10.97
71977	4/6/23	SCHARDINE, CHRIS T.	0.88
71978	4/6/23	YOAKUM, MORGEN	25.00
71979	4/12/23	WARE, W KENNETH	254.98
71980	4/19/23	BOWEN, ASHLIE	17.42
71981	4/19/23	BROWN, VALENE	24.00
71982	4/19/23	FIELDING, RICHARD K	16.10
71983	4/19/23	INMAN, WAYNE	17.00
71984	4/19/23	KRAUS, HEIDE	19.00
71985	4/19/23	LUCIO, MICHEL BLAIR	12.68
71986	4/19/23	PETERSEN, VONISE	20.84
71987	4/19/23	SCHRUM, CARL	0.34
71988	4/19/23	WHITAKER, CORBIN	37.68
REPORT TOTAL:			<u><u>\$1,792.20</u></u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178686	4/5/23	ALPHA COMMUNICATIONS SITES INC 91000570 5530	SITE LEASE	182.33	\$182.33
178687	4/5/23	APCO INC 90000650 5290	PLC PROGRAMMING TRAINING	1,440.00	1,440.00
178688	4/5/23	BLUE STAR GAS 81000570 5340	PROPANE FOR FORK LIFTS	48.89	48.89
178689	4/5/23	BONNEVILLE INDUSTRIAL SUPPLY COMPANY 83000570 5350	ZIP TIES FOR TYING SANDBAGS	193.63	193.63
178690	4/5/23	CHILD SUPPORT SERVICES 11000200 2135	PAYROLL 033123	529.00	529.00
178691	4/5/23	CONELY COMPANY 82000570 5380	6" SCH 80 PVC FITTINGS FOR AIR	87.24	87.24
178692	4/5/23	CONSOLIDATED WATER SOLUTIONS 73073570 5360	RO MEMBRANES	6,213.00	6,213.00
178693	4/5/23	CRS CONSULTING ENGINEERS INC 11000180 6010 4213	SWGWTP DEEP WELL ASSESSMENT	5,338.33	5,338.33
178694	4/5/23	DESERT DIAMOND INDUSTRIES 82000570 5310	8- 14" DI & CONCRETE PIPE SAW	1,820.00	1,820.00
178695	4/5/23	DOMINION ENERGY 51000650 5420 73000590 5420 75500590 5420 75500590 5420	8215 S TEMPLE DR 8215 S TEMPLE DR 3200 W 6200 S 5820 S 3600 W	7,814.29 1,953.57 73.36 729.88	10,571.10
178696	4/5/23	ERIKS NORTH AMERICA 81000570 5330	HOSE REAL FOR VALVE TRAILER.	4.35	4.35
178697	4/5/23	GENERAL COMMUNICATIONS INC 90000650 5230	EARWORN MICROPHONE FOR EDUCATI	374.85	374.85
178698	4/5/23	HYDRAPAK SEALS INC 82000570 5360	GASKETS FOR FIRE HYDRANT NOZZL	315.00	315.00
178699	4/5/23	JACOB YOUNG 51000650 5290	UTILITY MANAGEMENT CONFERENCE	1,530.94	1,530.94
178700	4/5/23	JONES PAINT & GLASS INC 83000570 5350	FLOOR PAINT AND TOP COAT FOR N	1,698.36	1,698.36
178701	4/5/23	JUSTIN CRACROFT 80000570 5290	RWUA	502.08	502.08
178702	4/5/23	LEWIS YOUNG ROBERTSON & BURNINGHAM, INC 51000650 5286	B1 BOND SBPA EXTENSION FA CONS	8,500.00	8,500.00
178703	4/5/23	MATT HINCKLEY 75000590 5290	AWWA	626.17	626.17
178704	4/5/23	NAPA GENUINE AUTO PARTS COMPANY 81000570 5330	BATTERY, OIL, BRAKE SHOES, OIL	177.50	177.50

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT# DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178705	4/5/23	NATIONAL BENEFIT SERVICES HRA 11000200 2135 ADMIN FEES	416.00	\$416.00
178706	4/5/23	NATIONAL BENEFIT SERVICES HRA 11000200 2135 PAYROLL 033123	2,363.66	2,363.66
178707	4/5/23	PBC FLEET LITES & PARTS 81000570 5330 HUBCAP O-RING SEALS	150.54	150.54
178708	4/5/23	POSTMASTER 60000650 5250 ANNUAL FEE FOR PERMIT#54 PI ST	290.00	290.00
178709	4/5/23	POSTMASTER 60000650 5250 PUBLIC HEARING LETTER POSTAGE	3,913.00	3,913.00
178710	4/5/23	REED GIBBY 51000660 5290 UWUW	429.80	429.80
178711	4/5/23	REPUBLIC SERVICES INC 51000650 5350 ADMIN 62000570 5350 EDUCATION 71071570 5350 JWVTP 72072570 5350 SERWTP 73073570 5350 SWGWTP 83000570 5350 MAINTENANCE	200.41 1,189.93 374.14 244.57 329.31 508.54	2,846.90
178712	4/5/23	ROCKY MOUNTAIN POWER 51000650 5410 377120460037 71000590 5410 175509260287 73000590 5410 377120460037 75212590 5410 311522760553 75215590 5410 311522760579 75300590 5430 253216260013 75303590 5410 333819860011 75305590 5410 175509260139 75306590 5410 333119160013 75314590 5410 333107260015 75316590 5410 175509260055 75316590 5410 1755609260048 75320590 5410 326716960017 75324590 5410 175509260121 75325590 5410 911749030019 75332590 5410 333110760050 75507590 5410 175509260196 75601590 5410 217351760012 75607590 5410 175509260352 75608590 5410 175509260394 75611590 5410 311522760025 75615590 5410 377120460094 75618590 5410 311522760066 75623590 5410 311522760165 75624590 5410 311522760173 75625590 5410 311522760041 75634590 5410 311522760629 75701590 5410 253216260013 80000570 5410 377120460037	2,945.03 22,140.47 21,718.00 1,656.13 3,512.10 72.00 165.33 17.58 89.04 10.86 61.78 156.72 69.65 608.48 198.52 80.34 5,097.63 15.80 32.25 30.43 14.98 18.52 15.45 22.87 13.60 15.45 14.40 10.86 2,945.03	61,749.30
178713	4/5/23	SAFETY SUPPLY & SIGN COMPANY INC 82000570 5310 TRAFFIC CONES	213.60	213.60

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178714	4/5/23	SANDY CITY			\$1,997.36
		72000590 5440	11574 WYNDCASTLE	1,886.96	
		75300590 5430	2580 E 9800 S	110.40	
178715	4/5/23	TRAVIS CHRISTENSEN			267.32
		52000650 5290	UWUW	267.32	
178716	4/5/23	US BANK FINANCIAL			28,481.62
		11000200 2132	PCARDS 022823-032723	28,481.62	
178717	4/5/23	UTAH COMMUNICATIONS INC			80.00
		91000570 5530	MAINTENANCE CONTRACT	80.00	
178718	4/5/23	UTAH DIVISION OF WATER RIGHTS			2,177.38
		70000510 5820	2023 WATER DIST ASSESS ACCT NO	2,177.38	
178719	4/5/23	UTAH DIVISION OF WATER RIGHTS			2,517.83
		70000510 5820	2023 WATER DIST ASSESS ACCT NO	2,517.83	
178720	4/5/23	UTAH DIVISION OF WATER RIGHTS			618.63
		70000510 5820	2023 WATER DIST ASSESS ACCT NO	618.63	
178721	4/5/23	VERIZON WIRELESS			3,895.29
		90000650 5230	VERIZON AMI BILL	50.12	
		90000650 5230	VERIZON WIRELESS IPAD BILL	670.71	
		90000650 5230	VERIZON WIRELESS PHONE & DATA	2,877.93	
		90071650 5230	VERIZON AMI BILL	25.00	
		90071650 5230	VERIZON WIRELESS PHONE & DATA	65.06	
		90072650 5230	VERIZON AMI BILL	25.00	
		90072650 5230	VERIZON WIRELESS PHONE & DATA	25.05	
		90077650 5230	VERIZON WIRELESS PHONE & DATA	84.28	
		90101650 5230	VERIZON AMI BILL	25.00	
		90101650 5230	VERIZON WIRELESS PHONE & DATA	47.14	
178722	4/5/23	WADE TUFT			400.58
		70000590 5290	UTAH WATER USERS WORKSHOP	400.58	
178723	4/5/23	WASATCH BARRICADE			386.40
		82000570 5380	TRAFFIC CONTROL FOR 3325 S STA	386.40	
178724	4/14/23	AAF INTERNATIONAL			185.40
		81072570 5360	AIR FILTERS HVAC	185.40	
178725	4/14/23	ACCURINT			225.00
		51000650 5170	MONTHLY PEOPLE SEARCH SERVICE	225.00	
178726	4/14/23	ALAN E PACKARD			594.17
		51000650 5290	AWWA 23	594.17	
178727	4/14/23	ALEX MITCHELL			218.00
		73000590 5290	HARN RO	218.00	
178728	4/14/23	ALLSTREAM			2,138.39
		51000650 5450	8215 S 1300 W	1,055.74	
		70100590 5410	15305 S 3200 W	65.82	
		71000590 5450	15305 S 3200 W	950.35	
		72000590 5430	15305 S 3200 W	66.48	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178729	4/14/23	CASEY CANNON 75000590 5290	RWAU	45.76	\$45.76
178730	4/14/23	CLIFTON SMITH 60000650 5290	TABLEAU 2023	171.00	171.00
178731	4/14/23	CONSTRUCTION TESTING & ENGINEER INC 11000188 6010 4204	ZONE "D" CHEMICAL FEED FACILIT	510.00	510.00
178732	4/14/23	CRS CONSULTING ENGINEERS INC 11000180 6010 4213	DW6/DW8 WELL REPAIRS	235.00	235.00
178733	4/14/23	CRUS OIL INC 81000570 5320	OIL AND WASHER FLUID	1,974.05	1,974.05
178734	4/14/23	ERIKS NORTH AMERICA 81000570 5380	HOSE FOR WASH BAY WAND	101.04	101.04
178735	4/14/23	GENEVA ROCK PRODUCTS INC 82000570 5380	CONCRETE & ROADBASE	1,752.59	1,752.59
178736	4/14/23	HAZEN & SAWYER, P. C 11000182 6010 4255	JVWTP BASINS 1-2 SEISMIC AND C	120,370.15	120,370.15
178737	4/14/23	HERRIMAN CITY 62000570 5670	MEMBER AGENCY GRANT - HERRIMAN	10,078.00	10,078.00
178738	4/14/23	HOLLIDAY WATER COMPANY 52000570 5400	2129 E 4800 S	81.69	81.69
178739	4/14/23	HOSE & RUBBER SUPPLY LLC 82000570 5380	COPPER TUBING FITTINGS & BALL	66.15	66.15
178740	4/14/23	INTERIOR SOLUTIONS 83000570 5350	JEFF B. OFFICE MODIFICATIONS	8,034.76	8,034.76
178741	4/14/23	INTERMOUNTAIN FARMERS ASSOCIATION 71000590 5260	RUBBER SAFETY BOOTS	372.27	372.27
178742	4/14/23	ISABELLAS CATERING 62000570 5270	QWEL CLASS CATERING	2,262.71	2,262.71
178743	4/14/23	JORDAN TOMSIC 90000650 5290	IWCE	864.26	864.26
178744	4/14/23	KEN GARFF WEST VALLEY FORD 81000570 5330	VALVE COVER FOR 703	74.87	74.87
178745	4/14/23	KYLE CHAPMAN 90000650 5290	IWCE	900.22	900.22
178746	4/14/23	LEHI CITY CORPORATION 70101590 5410 70101590 5410	1250 E SR 92 NE CORNER SR 92	30.41 34.47	64.88
178747	4/14/23	MARGARET DEA 51000650 5290	TYLER CONNECT 2023	158.00	158.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178748	4/14/23	MARK STRATFORD 51000650 5290	ATTORNEYS ASSOCIATION	147.00	\$147.00
178749	4/14/23	MIMIR WATER 62000570 5280	COMMERCIAL WATER ASSESSMENT TR	12,192.53	12,192.53
178750	4/14/23	KEVIN J MULVEY 52000570 5400	RIGHT-OF-WAY & PROPERTY SERVIC	5,890.00	5,890.00
178751	4/14/23	NAPA GENUINE AUTO PARTS COMPANY 81000570 5330 81000570 5330	ABS SPEED SENSOR WIPERS,DISC BRAKES,CALIPERS,CI	79.27 666.04	745.31
178752	4/14/23	PERFORMANCE TRUCK COUNTRY 81000570 5330	REPAIRS DONE ON 706 AT PERFORM	5,085.27	5,085.27
178753	4/14/23	PITNEY BOWES INC 51000650 5250	MAIL SUPPLIES	1,005.00	1,005.00
178754	4/14/23	POSTMASTER 60000650 5250	SEMI-ANNUAL REPORT POSTAGE SPR	2,275.00	2,275.00
178755	4/14/23	RAY QUINNEY & NEBEKER 51000650 5284	MATTER 15038-91	1,098.00	1,098.00
178756	4/14/23	READY MADE CONCRETE 51000000 6210	CONCRETE TO FIX VAULT LID HIT	360.00	360.00
178757	4/14/23	RENAISSANCE AT TRIMBLE CREEK HOMEOWNERS ASSO 62000570 5670	LANDSCAPE LEADERSHIP GRANT PRO	5,985.27	5,985.27
178758	4/14/23	TOOLSHED INC 81071570 5360 81071570 5360 82000570 5380 82101570 5380	PROPANE FOR THE CHLORINE BUILD PROPANE FOR TREATMENT HEATER 2X4X12" MINE WEDGES FOR VALVES 2X4X12" MINE WEDGES FOR VALVES	281.18 152.15 108.35 50.86	592.54
178759	4/14/23	ROCKY MOUNTAIN POWER 70101590 5410 72211590 5410 72211590 5410	557994860012 321644760019 913799040088	1,618.74 48.80 13.22	1,680.76
178760	4/14/23	SALT LAKE VALLEY CHRYSLER DODGE JEEP RAM 81000198 6010	PURCHASE OF A 1/2 TON TRUCK	39,996.00	39,996.00
178761	4/14/23	SOUTH VALLEY SEWER DISTRICT 71000590 5430 72000590 5430 72000590 5430	15305 s 3200 w 11574 WYNDCASTLE NEW 11574 WYNDCASTLE OLD	113.20 34.00 25.00	172.20
178762	4/14/23	STANDARD PLUMBING SUPPLY 81000570 5380	GREASE AND VACUM BREAKER FOR G	8.85	8.85
178763	4/14/23	THERMO ORION INC 73073570 5380	CALCIUM HARDNESS ANALYZER CONS	2,347.63	2,347.63
178764	4/14/23	UTAH BUREAU OF CRIMINAL IDENTIFICATION 51000650 5170	EMPLOYEE BACKGROUND CHECK	99.75	99.75

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178765	4/14/23	UTAH DEPT OF WORKFORCE SERVICE 51000650 5165	UNEMPLOYMENT INSURANCE-CONTRIB	225.40	\$225.40
178766	4/14/23	UTAH WATER USERS ASSOCIATION 51000650 5170	UWUA 2023 ANNUAL MEMBERSHIP DU	1,500.00	1,500.00
178767	4/14/23	VALLEY DESIGN & CONSTRUCTION 11000160 6010 4014	OLD BINGHAM HWY EQUIPMENT STOR	108,190.20	108,190.20
178768	4/14/23	VEHICLE LIGHTING SOLUTIONS INC 81000198 6010 81000570 5330	# 761 NEW VEHICLE LIGHTS RAM, LAPTOP MOUNT	2,516.93 300.89	2,817.82
178769	4/14/23	WASATCH BARRICADE 51000000 6210	TRAFFIC CONTROL BARRICADES	890.10	890.10
178770	4/14/23	WASATCH PROPANE 81000570 5340	PROPANE FOR THE TERMINAL STORA	2,324.29	2,324.29
178771	4/14/23	WE CARE! - HANDYMAN 52000570 5400 52000570 5400	MATERIAL COSTS FOR REPAIRS TO REPAIRS TO RENTAL PROPERTY	2,600.00 1,380.00	3,980.00
178772	4/14/23	WIDDISON WELL SERVICES INC. 11000180 6010 4242	WELL REDEVELOPMENT & TEST PUMP	122,787.50	122,787.50
178773	4/14/23	ZAYO GROUP LLC 90000650 5230	8215 S 1300 W	1,577.91	1,577.91
178774	4/19/23	ALPHA COMMUNICATIONS SITES INC 91000570 5530	SITE LEASE	182.33	182.33
178775	4/19/23	BOLT & NUT SUPPLY COMPANY 91000570 5310	SELF TAPPERS FOR PANELS	18.90	18.90
178776	4/19/23	CALIN PERRY 80000570 5290	ASSP CONFERENCE	697.79	697.79
178777	4/19/23	CHILD SUPPORT SERVICES 11000200 2135	PAYROLL	529.00	529.00
178778	4/19/23	COTTONWOOD IMPROVEMENT DISTRICT 75300590 5430 75300590 5430 75300590 5430	10190 NEWBURY 1526 E 8600 S 9390 SOLENA WAY	60.00 60.00 60.00	180.00
178779	4/19/23	CRS CONSULTING ENGINEERS INC 11000180 6010 4213	SWGWTWP DEEP WELL ASSESSMENT	5,021.25	5,021.25
178780	4/19/23	CRSA 11000160 6010 4014	WATER TRAILERS STORAGE	2,313.00	2,313.00
178781	4/19/23	DOMINION ENERGY 75300590 5420 75500590 5420	4770 NANILOA 4400 S 4800 W REAR	95.79 105.40	201.19
178782	4/19/23	DRAPER CITY 75300590 5430	108 E 11400 S	7.00	7.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT# DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178783	4/19/23	HAZEN & SAWYER, P. C 11000182 6010 4255 JVVTP BASINS 1-2 SEISMIC AND C	233,379.54	\$233,379.54
178784	4/19/23	JOLLEY PHOTOGRAPHY 51000660 5220 TRUSTEE PROTRAIT - ZACH JACOB	150.00	150.00
178785	4/19/23	REPMASTERS INC 75002570 5380 HYDRANT METER REGISTERS	306.23	306.23
178786	4/19/23	ROCKY MOUNTAIN POWER		42,268.71
		52000570 5400 311522760405	17.65	
		75101590 5410 261824160012	2,095.19	
		75201590 5410 175509260113	22.25	
		75208590 5410 175509260014	13.83	
		75209590 5410 175509260253	66.58	
		75218590 5410 311522760546	330.22	
		75302590 5410 333821260010	185.39	
		75304590 5410 175509260162	130.35	
		75304590 5410 333110060014	161.33	
		75307590 5410 175509260204-032723	29.72	
		75315590 5410 175509260105	264.82	
		75321590 5410 326716260012	1,580.44	
		75326590 5410 913799040013	12,806.92	
		75331590 5410 175509260337	429.14	
		75336590 5410 261824160053	3,859.89	
		75341590 5410 311522760603	220.26	
		75503590 5410 235992060014	12,944.99	
		75505590 5410 175509260295	1,931.64	
		75506590 5410 175509260238	1,767.97	
		75509590 5410 259822160018	1,719.30	
		75516590 5410 227856660146	1,015.44	
		75602590 5410 227856660013	27.75	
		75609590 5410 175509260022	27.24	
		75612590 5410 377131660021	14.52	
		75613590 5410 227856660039	40.53	
		75620590 5410 227856660138	310.00	
		75621590 5410 311522760157	20.01	
		75622590 5410 311522760181	15.34	
		75631590 5410 311522760462	19.11	
		75635590 5410 377131660047	15.94	
		75702590 5410 364292260015	50.93	
		75703590 5410 322497360014	3.24	
		75706590 5410 31152275	28.66	
		75744590 5410 377120460060	16.49	
		75745590 5410 311522760504	35.89	
		75771590 5410 557994860020	49.74	
178787	4/19/23	SANDY CITY		86.86
		52000570 5400 579 W 9400 S	8.98	
		75300590 5430 1147 E WEBSTER DR	8.98	
		75300590 5430 1443 E 9400 S	17.96	
		75300590 5430 1784 CREEK RD	14.98	
		75300590 5430 1787 CREEK RD	8.98	
		75300590 5430 7618 S 700 E	26.98	
178788	4/19/23	SIGMA-ALDRICH INC 78000590 5720 HAAS SOLVENT	189.95	189.95

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178789	4/19/23	SOUTH JORDAN CITY			\$64.80
		52000570 5400	10305 S 3200 W	32.80	
		75501590 5430	10932 2700 WAY	30.00	
		75501590 5430	9911 S 2700 W LAND	2.00	
178790	4/19/23	SOUTH VALLEY SEWER DISTRICT			200.00
		75501590 5410	10932 S 2700 W	25.00	
		75501590 5430	10621 S 1300 W	25.00	
		75501590 5430	11059 S 1300 W	25.00	
		75501590 5430	3145 W 11400 S	25.00	
		75501590 5430	3257 W CURRENT CREEK	25.00	
		75501590 5430	9816 S 1300 W	25.00	
		75501590 5430	9816 S 1300 W 1	25.00	
		75501590 5430	9911 S 2700 W	25.00	
178791	4/19/23	TK ELEVATOR CORP.			3,222.25
		83071570 5380	ELEVATOR REPLACEMENT CONTROL M	3,222.25	
178792	4/19/23	UTAH DIVISION OF GOV. OPERATIONS			16,440.79
		81000570 5340	MARCH FLEET FUEL BILL	16,440.79	
178793	4/19/23	UTAH STATE TAX COMMISSION			42,078.50
		11000200 2240	PAYROLL	42,078.50	
178794	4/19/23	UTAH TRANSIT AUTHORITY			3,529.00
		11000188 6010 4190	3300 SOUTH PIPELINE REPLACEMENT	3,529.00	
178795	4/19/23	WEST VALLEY CITY			186.00
		75300590 5430	VARIOUS LOCATIONS	186.00	
178796	4/19/23	ZIONS BANK			46,435.12
		51000650 5286	B1 BOND QUARTERLY LIQUIDITY AG	46,435.12	
178797	4/26/23	BRIAN MCCLEARY			443.36
		51000650 5290	UGFOA	443.36	
178798	4/26/23	CENTURYLINK / LUMEN			3,076.85
		90000650 5230	VARIOUS LOCATIONS	485.57	
		90071650 5230	VARIOUS LOCATIONS	485.57	
		90072650 5230	VARIOUS LOCATIONS	962.68	
		90101650 5230	VARIOUS LOCATIONS	1,143.03	
178799	4/26/23	CHRISTENSEN & JENSEN PC			525.00
		51000650 5284	GENERAL ADJUDICATION	525.00	
178800	4/26/23	CYNTHIA BEE			486.32
		60000650 5290	UTAH LEAGE OF CITIES AND TOWNS	486.32	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178801	4/26/23	DOMINION ENERGY			\$20,678.52
		70100590 5420	17040 S 985 W	1,574.99	
		71000590 5420	15305 S 3200 W	10,613.81	
		72000590 5420	11574 WYNDCASTLE ACTI	1,915.18	
		72000590 5420	11574 WYNDCASTLE FILT	3,767.81	
		75300590 5420	1200 E 9400 S	66.28	
		75300590 5420	1845 CREEK RD	103.13	
		75300590 5420	8153 S 700 E	124.30	
		75300590 5420	8200 S 1000 E	113.73	
		75300590 5420	8663 S 1300 E	347.46	
		75300590 5420	2300 E 9800 S	409.80	
		75300590 5420	2400 CREEK RD	53.20	
		75300590 5420	7618 S 700 E	254.28	
		75300590 5420	7700 S 700 E	190.51	
		75300590 5420	7781 S 1300 E	150.12	
		75300590 5420	7800 S 1000 E	136.67	
		75500590 5420	110 E 11400 S	857.25	
178802	4/26/23	HOUSE OF PUMPS			985.02
		71071570 5350	SUBMRSIBLE PUMPS	141.75	
		71071570 5380	SUBMRSIBLE PUMPS	315.00	
		81000570 5380	SUMP PUMP FOR 118th 3200w	528.27	
178803	4/26/23	LAYTON CITY			79.80
		52000570 5400	997 W GENTILE ST	79.80	
178804	4/26/23	LEGAL SHIELD			1,313.80
		11000200 2135	PAYROLL 041523	1,313.80	
178805	4/26/23	NATHAN TALBOT			650.96
		75000590 5290	AWWA	650.96	
178806	4/26/23	RAY QUINNEY & NEBEKER			5,089.00
		51000650 5284	15038-162	2,399.00	
		51000650 5284	15038-91	2,690.00	
178807	4/26/23	RHINO PUMPS			12,790.69
		11000180 6010 4281	COLLEGE STREET WELL REPAIR	12,790.69	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178808	4/26/23	ROCKY MOUNTAIN POWER			\$79,083.08
		71000590 5410	175509260287	23,545.04	
		72000590 5410	175509260188	4,808.82	
		75202590 5410	287176760018	24.65	
		75203590 5410	175509260063	11.34	
		75301590 5410	333822660010	29.70	
		75308590 5410	175509260386	29.72	
		75317590 5410	175509260170	105.13	
		75317590 5410	311522760017	150.13	
		75330590 5410	913799040047	604.77	
		75335590 5410	261824160038	679.09	
		75337590 5410	261824160046	848.41	
		75339590 5410	311522760298	388.81	
		75340590 5410	311522760074	742.37	
		75501590 5410	175509260030	212.64	
		75504590 5410	266289460013	11,715.42	
		75512590 5410	175509260360	6,188.86	
		75514590 5410	227856660120	8,283.25	
		75515590 5410	175509260410	20,342.85	
		75517590 5410	329228560010	67.82	
		75605590 5410	175509260246	14.40	
		75619590 5410	311522760470	18.98	
		75626590 5410	311522760033	19.52	
		75629590 5410	3777220560033	19.81	
		75630590 5410	311522760363	22.99	
		75632590 5410	311522760454	30.98	
		75704590 5410	175509260261	19.47	
		75773590 5410	227856660021	158.11	
178809	4/26/23	SANDY CITY			119.91
		75300590 5410	2580 E 9800 S	119.91	
178810	4/26/23	SELECTHEALTH			242,135.70
		11000200 2135	PAYROLL 041523	242,135.70	
178811	4/26/23	SHANE SWENSEN			847.30
		51000650 5290	AWWA	847.30	
503742 EFT	4/7/23	ACTION LOCKSMITH			89.85
		81000570 5360	CONTRACTOR CORE PAD LOCKS	89.85	
503743 EFT	4/7/23	BARRETT BUSINESS SERVICES, INC			4,467.31
		52000650 5280	GARDEN TEMP EMPLOYEES	1,887.02	
		62000570 5350	GARDEN TEMP EMPLOYEES	2,580.29	
503744 EFT	4/7/23	BOWEN COLLINS & ASSOCIATES			1,409.00
		11000140 6010 4150	JA-1 AND SECL CONDITION ASSESS	591.00	
		11000175 6010 4257	JA-1 AND SECL CONDITION ASSESS	818.00	
503745 EFT	4/7/23	BUCHANAN ACCESS SYSTEMS LLC			139.00
		81072570 5380	HUB COVER FOR GATE OPENER	139.00	
503746 EFT	4/7/23	CDW GOVERNMENT INC			4,463.17
		90000650 5230	GFI LANGUARD AND EMAIL ARCHIVE	3,275.00	
		90000650 5230	IT SUPPLIES RESTOCK	480.37	
		90000650 5230	SPARE HARD DRIVE FOR HPE OFFLI	707.80	
503747 EFT	4/7/23	CORE & MAIN			222.18
		82000570 5380	7-3/4" X 1" CTS COMPRESSION FI	222.18	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503748	EFT 4/7/23	DELL MARKETING LP 90000650 5230	DELL USB-C TRAVEL CHARGERS 65W	287.96	\$287.96
503749	EFT 4/7/23	FOLIAGE, INC 51000650 5350	PLANT SERVICES	400.00	400.00
503750	EFT 4/7/23	GRAYBAR ELECTRIC COMPANY INC 91000570 5310	REPLACE POWER SUPPLIES	393.60	393.60
503751	EFT 4/7/23	SARAH JEAN HALTERMAN 60000650 5280	GRAPHIC DESIGN WORK FY 2022-20	4,455.00	4,455.00
503752	EFT 4/7/23	INTERNATIONAL DIOXIDE INC 71000590 5710	JVWTP SODIUM CHLORITE FOR FY23	26,727.52	26,727.52
503753	EFT 4/7/23	KILGORE COMPANIES, LLC 83000570 5350	BULK SALT FOR SNOW AND ICE REM	1,125.54	1,125.54
503754	EFT 4/7/23	LAINA MCGINTY 51000650 5180	TUITION REIMBURSEMENT	3,775.00	3,775.00
503755	EFT 4/7/23	MARCUS G FAUST PC 51000650 5284	PROFESSIONAL CONSULTING SERVIC	3,000.00	3,000.00
503756	EFT 4/7/23	MCGUIREWOODS LLP 51000650 5286	B1 BOND SBPA EXTENSION LEGAL W	5,600.00	5,600.00
503757	EFT 4/7/23	MICHELLE RIDD 62000570 5670	LOCALSCAPES REWARDS PAYMENT	3,377.81	3,377.81
503758	EFT 4/7/23	MOUNTAIN WEST PIPE & SUPPLY 71071570 5360	1" ball check for PEA north fe	110.08	110.08
503759	EFT 4/7/23	MOUNTAINLAND SUPPLY COMPANY 75002570 5380 81072570 5380 81072570 5380	1 INCH EXPANSION NUTS BALL VALVES, GAUGES AND PIPES BUSHING AND NIPPLE FOR SAMPLE	251.78 175.55 14.87	442.20
503760	EFT 4/7/23	NATALIE BOYACK 62000570 5170	UNIFORM REIMBURSEMENT	177.09	177.09
503761	EFT 4/7/23	OLYMPUS SAFETY & SUPPLY LLC 71000590 5260	NITRILE GLOVES FOR LAB	51.00	51.00
503762	EFT 4/7/23	STAPLES BUSINESS ADVANTAGE 51000650 5220 80000570 5220	OFFICE SUPPLIES OFFICE SUPPLIES	932.91 156.55	1,089.46
503763	EFT 4/7/23	STEVE REGAN COMPANY 83000570 5350 83071570 5350 83072570 5350	SPRING FERTILIZER,BROMACIL AND SPRING FERTILIZER,BROMACIL AND SPRING FERTILIZER,BROMACIL AND	1,500.00 700.00 752.88	2,952.88
503764	EFT 4/7/23	SWIRE COCA-COLA USA 51000650 5170	COKE PRODUCTS	120.34	120.34

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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503765	EFT 4/7/23	THATCHER COMPANY			\$84,259.60
		71000590 5710	JVWTP CHLORINE FOR FY23	20,000.00	
		71000590 5710	JVWTP PACL FOR FY23	33,086.38	
		72000590 5710	PURCHASE OF CHLORINE FOR FISCA	14,505.92	
		72000590 5710	PURCHASE OF PACL FOR FISCAL YE	16,667.30	
503766	EFT 4/7/23	TIRE WORLD			227.98
		81000570 5330	TIRES FOR PRESSURE WASHER, TIR	227.98	
503767	EFT 4/7/23	UNIVAR USA INC			4,644.49
		73000590 5710	SWGWTP SODIUM HYDROXIDE	4,644.49	
503768	EFT 4/7/23	WAXIE SANITARY SUPPLY			2,496.54
		83000570 5350	CARPET CLEANING SOLUTION AND F	407.74	
		83000570 5350	JANITORIAL SUPPLIES PAPER PROD	522.80	
		83071570 5350	JANITORIAL SUPPLIES PAPER PROD	522.00	
		83072570 5350	JANITORIAL SUPPLIES PAPER PROD	522.00	
		83073570 5350	JANITORIAL SUPPLIES PAPER PROD	522.00	
503769	EFT 4/7/23	WINMARK STAMP & SIGN INC			32.60
		83000570 5350	OFFICE NAME PLATE FOR SPENCER	32.60	
503770	EFT 4/7/23	WW GRAINGER			757.14
		81000570 5380	ADMIN BOILER MOTOR AND CAPACIT	219.85	
		81000570 5380	MOTOR FOR THE ADMIN BOILER AND	197.47	
		82000570 5310	MANHOLE LID LIFTER	47.80	
		82101570 5310	1- 2 9/16" DEEP IMPACT SOCKET	292.02	
503771	EFT 4/14/23	ADVANCED ENGINEERING & ENVIRONMENTAL SERVICES			46,210.65
		11000184 6010 4199	10200 S 3600 W PUMP STATION	46,210.65	
503772	EFT 4/14/23	AMERICAN POWER SYSTEMS			3,000.00
		91000570 5310	SITES JA1, JA2, JA4 A TOTAL O	3,000.00	
503773	EFT 4/14/23	BARRETT BUSINESS SERVICES, INC			6,379.43
		52000650 5280	GARDEN TEMP EMPLOYEES TIME	1,933.05	
		62000570 5350	GARDEN TEMP EMPLOYEES TIME	4,446.38	
503774	EFT 4/14/23	BLUE STAKES OF UTAH			2,837.70
		82000570 5390	BLUE STAKES OF UTAH	2,837.70	
503775	EFT 4/14/23	BOWEN COLLINS & ASSOCIATES			20,364.50
		11000180 6010 4286	ETIENNE WAY & MURRAY HOLLADAY	6,577.50	
		11000186 6010 4231	5200 WEST 6200 SOUTH RESERVOIR	13,787.00	
503776	EFT 4/14/23	CHEMTECH-FORD INC			3,572.00
		77000590 5770	WATER QUALITY ANALYSIS	300.01	
		77071590 5770	WATER QUALITY ANALYSIS	367.00	
		77072590 5770	WATER QUALITY ANALYSIS	32.03	
		77073590 5770	WATER QUALITY ANALYSIS	1,766.97	
		77075590 5770	WATER QUALITY ANALYSIS	1,105.99	
503777	EFT 4/14/23	CORE & MAIN			3,475.63
		51000000 6210	FIRE HYDRANT TO REPLACE HYDRAN	3,149.63	
		82101570 5380	12"X 20' PIPE FOR 14400 S 3200	326.00	
503778	EFT 4/14/23	CORRIO CONSTRUCTION, INC.			408,407.24
		11000188 6010 4204	ZONE D CHEMICAL FEED FACILITY	408,407.24	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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503779	EFT 4/14/23	DEL TECHNOLOGIES INC 72000590 5710	B-POLY CHEMICAL	7,910.03	\$7,910.03
503780	EFT 4/14/23	EA ENGINEERING SCIENCE & TECHNOLOGY INC 77073590 5770	2023 1ST QUARTER WET TESTING	1,000.00	1,000.00
503781	EFT 4/14/23	FASTENAL COMPANY 81000570 5330	INSERTS FOR BOLTS	36.94	36.94
503782	EFT 4/14/23	FERGUSON ENTERPRISES LLC 82000570 5310	3-3/4" FREEZE MACHINE BUSHING	259.50	259.50
503783	EFT 4/14/23	GRAYBAR ELECTRIC COMPANY INC 91000570 5310	REPLACE POWER SUPPLIES	2,263.19	2,263.19
503784	EFT 4/14/23	HACH COMPANY 73000590 5720 73000590 5720	ANALYZER SOLUTIONS FOR LAB HANDHELD CONDUCTIVITY, PH, TDS	171.22 1,023.04	1,194.26
503785	EFT 4/14/23	HANSEN ALLEN & LUCE INC 11000186 6010 4276	11800 S ZONE D RESERVOIR SITE	1,920.25	1,920.25
503786	EFT 4/14/23	INDUSTRIAL SUPPLY 75000590 5260	RAIN GEAR	361.19	361.19
503787	EFT 4/14/23	IVORY HOMES 62000570 5670	LANDSCAPE LEADERSHIP GRANT	12,243.33	12,243.33
503788	EFT 4/14/23	JEANETTE PERRY 51000650 5170	MARK S AND ALICIA S SVC AWARD	55.84	55.84
503789	EFT 4/14/23	KWIK KOPY PRINTING 60000650 5250	RETAIL STATEMENT SHELLS	95.00	95.00
503790	EFT 4/14/23	MOUNTAINLAND SUPPLY COMPANY 75002570 5380	3/4 INCH YOKE SETTER EXTENSION	155.64	155.64
503791	EFT 4/14/23	OWEN EQUIPMENT 82000570 5380	REPLACEMENT PARTS VACTOR TRUCK	1,200.47	1,200.47
503792	EFT 4/14/23	ROYAL WHOLESALE ELECTRIC 91000570 5310 91000570 5310 91000570 5310	REPAIR PLC AT BLUFFDALE PUMP S RTU PARTS FOR ROSECREST CHLORI TOUCH SCREEN FOR NEW 36 & 102	2,538.60 3,129.74 3,695.02	9,363.36
503793	EFT 4/14/23	SALARY.COM 51000650 5170	SALARY SURVEY- ONLINE DATA	5,000.00	5,000.00
503794	EFT 4/14/23	UNITED FENCE 11000186 6010 4231	5200 WEST 6200 SOUTH RESERVOIR	4,742.50	4,742.50
503795	EFT 4/14/23	UTAH BARRICADE COMPANY INC 82000570 5380	TRAFFIC CONTROL	2,779.15	2,779.15
503796	EFT 4/14/23	UTAH LAKE WATER USERS ASSOCIATION INC 70000510 5810	ULWUA MARCH 2023 MAINTENANCE	1,807.49	1,807.49
503797	EFT 4/14/23	VANCON INC 11000184 6010 4199	10200 S 3600 W PUMP STATION	398,340.70	398,340.70

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503798	EFT 4/14/23	VANGUARD CLEANING SYSTEMS OF UTAH			\$7,105.20
		83000570 5360	JANITORIAL SERVICES (FISCAL YE	4,628.25	
		83071570 5360	JANITORIAL SERVICES (FISCAL YE	1,502.25	
		83072570 5360	JANITORIAL SERVICES (FISCAL YE	577.80	
		83073570 5360	JANITORIAL SERVICES (FISCAL YE	396.90	
503799	EFT 4/14/23	VWR INTERNATIONAL INC			606.50
		77000590 5750	WATER QUALITY FIELD EQUIPMENT	606.50	
503800	EFT 4/14/23	WEST WIND LITHO			871.00
		62000570 5270	ACTIVITY BOOKS	871.00	
503801	EFT 4/21/23	ADVANCED ENGINEERING & ENVIRONMENTAL SERVICES			28,067.27
		11000182 6010 4284	SERWTP B-POLYMER SYSTEM IMPROV	10,118.75	
		11000184 6010 4199	10200 S 3600 W PUMP STATION	17,948.52	
503802	EFT 4/21/23	BARRETT BUSINESS SERVICES, INC			5,328.41
		52000650 5280	TEMP GARDEN EMPLOYEES TIME	1,518.82	
		62000570 5350	TEMP GARDEN EMPLOYEES TIME	3,809.59	
503803	EFT 4/21/23	BIZWEAR			2,732.64
		51000650 5170	UNIFORMS FOR ADMIN	1,261.50	
		62000570 5170	CONSERVATION PROGRAMS UNIFORMS	1,471.14	
503804	EFT 4/21/23	BOWEN COLLINS & ASSOCIATES			68,269.92
		11000140 6010 4150	JA-1 AND SECL CONDITION ASSESS	494.85	
		11000175 6010 4257	JA-1 AND SECL CONDITION ASSESS	1,421.15	
		11000180 6010 4242	WELL DEVELOPMENT & TEST PUMPIN	6,185.25	
		11000180 6010 4286	ETIENNE WAY & MURRAY HOLLADAY	31,942.85	
		11000186 6010 4193	FOUR RESERVOIRS REPAIRS PROJEC	72.50	
		11000188 6010 4190	3300 SOUTH PIPELINE REPLACEMEN	28,153.32	
503805	EFT 4/21/23	CDW GOVERNMENT INC			125.31
		90000650 5230	HEADSET FOR CHEYENNE	125.31	
503806	EFT 4/21/23	CENTRAL UTAH WATER CONSERVANCY DISTRICT			150,509.20
		70000510 5810	CUWCD CWP WATER DELIVERIES MAR	150,509.20	
503807	EFT 4/21/23	CHEMTECH-FORD INC			1,733.00
		77073590 5770	WATER QUALITY ANALYSIS	1,733.00	
503808	EFT 4/21/23	CONSOR NORTH AMERICA, INC			679.50
		52000570 5400	OBTAIN SURVEY FOR 10&78 WELL P	679.50	
503809	EFT 4/21/23	CORRIO CONSTRUCTION, INC.			411,883.10
		11000184 6010 4209	11800 S PUMP STATION UPGRADES	194,025.62	
		11000184 6010 4283	11400 S REDWOOD SOUTH JORDAN M	5,551.91	
		11000188 6010 4204	ZONE D CHEMICAL FEED FACILITY	212,305.57	
503810	EFT 4/21/23	ENDRESS + HAUSER INC			1,072.75
		91072570 5310	REPLACE BPOLY LEVEL TRANSMITTE	1,072.75	
503811	EFT 4/21/23	ENERGY MANAGEMENT CORPORATION			2,810.78
		11000184 6010 4220	EMERGENCY GENERATORS PHASE 2	2,810.78	
503812	EFT 4/21/23	FERGUSON ENTERPRISES LLC			7,993.76
		82000570 5380	12" C900 FOR JA3 B.O & HYDRANT	2,655.36	
		82000570 5380	3/4" SETTERS	4,313.40	
		82101570 5380	12" C900 FOR JA3 B.O & HYDRANT	1,025.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503813	EFT 4/21/23	FOLIAGE, INC 51000650 5350	PLANT SERVICES	750.00	\$750.00
503814	EFT 4/21/23	HANSEN ALLEN & LUCE INC 11000180 6010 4280 11000184 6010 4205 11000184 6010 4241 11000188 6010 4204	EQUIPPING OF 76&7 AND 78&10 WE EIGHT VAULT IMPROVEMENT PROJEC 2022-23 VAULT IMPROVEMENT PROJ ZONE D CHEMICAL FEED FACILITY	5,863.75 1,138.50 437.38 30,006.95	37,446.58
503815	EFT 4/21/23	INFINITY CORROSION GROUP INC 82000570 5380 82101570 5380 82140570 5380	CATHODIC PROTECTION REPAIR REP CATHODIC PROTECTION REPAIR REP CATHODIC PROTECTION REPAIR REP	4,650.00 4,450.00 470.00	9,570.00
503816	EFT 4/21/23	JACOBS ENGINEERING GROUP INC 11000186 6010 4276	11800 SOUTH ZONE C RESERVOIR	22,497.47	22,497.47
503817	EFT 4/21/23	K.O.H. MECHANICAL CONTRACTORS, INC 11000182 6010 4279	JVWTP BOILERS REPLACEMENT PROJ	11,870.44	11,870.44
503818	EFT 4/21/23	LES OLSON COMPANY 90000650 5230 90071650 5230 90072650 5230 90073650 5230 90078650 5230 90101650 5230	PRINTING QT MAINTENANCE PRINTING QT MAINTENANCE PRINTING QT MAINTENANCE PRINTING QT MAINTENANCE PRINTING QT MAINTENANCE PRINTING QT MAINTENANCE	1,222.81 424.87 46.91 13.43 0.77 3.54	1,712.33
503819	EFT 4/21/23	MEGAN MULLOY GUMMERSALL 62000570 5670	LOCALSCAPES REWARDS PAYMENT	1,528.27	1,528.27
503820	EFT 4/21/23	MICRONET COMMUNICATIONS, INC 70000590 5360	FULL-SERVICE LICENSING FOR MIC	1,200.00	1,200.00
503821	EFT 4/21/23	MOUNTAINLAND SUPPLY COMPANY 75002570 5380 82000570 5380	SENSUS: 4 AND 6 INCH METER REG 2-12" X 12" & 4-12" X 24" REPA	791.68 3,476.64	4,268.32
503822	EFT 4/21/23	MOWER MEDIC 83000570 5350	BACKPACK TANK SPRAYER TO SPRAY	129.99	129.99
503823	EFT 4/21/23	SCHULTZ VENTURES, LLC 51000650 5280	PROFESSIONAL CONSULTING SERVIC	9,993.40	9,993.40
503824	EFT 4/21/23	READING TRUCK EQUIPMENT,LLC 81000570 5330	VIBERATOR FOR SALTER	178.34	178.34
503825	EFT 4/21/23	SPRINKLER SUPPLY COMPANY 82000570 5380	4" SCH80 COUPLERS AIR VAC VENT	260.45	260.45
503826	EFT 4/21/23	STAPLES BUSINESS ADVANTAGE 71000590 5220 78000590 5720 80000570 5220	OFFICE SUPPLIES OFFICE SUPPLIES OFFICE SUPPLIES	66.79 588.42 48.89	704.10

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503827	EFT 4/21/23	STEVE REGAN COMPANY			\$2,836.88
		83000570 5350	HERBICIES,KILLZALL,TRIPLET AND	1,000.00	
		83071570 5350	HERBICIES,KILLZALL,TRIPLET AND	500.00	
		83072570 5350	HERBICIES,KILLZALL,TRIPLET AND	686.88	
		83100570 5350	HERBICIES,KILLZALL,TRIPLET AND	500.00	
		83140570 5350	HERBICIES,KILLZALL,TRIPLET AND	150.00	
503828	EFT 4/21/23	SWIRE COCA-COLA USA			32.82
		51000650 5170	COKE PRODUCTS	32.82	
503829	EFT 4/21/23	THATCHER COMPANY			32,202.18
		71000590 5710	JVWTP FLUORIDE FOR FY23	15,135.18	
		71000590 5710	JVWTP PACL FOR FY23	16,660.00	
		72000590 5710	PURCHASES OF FLUORIDE FOR THE	407.00	
503830	EFT 4/21/23	THE DATA CENTER			1,864.35
		60000650 5250	APRIL '23 BILLING	1,864.35	
503831	EFT 4/21/23	TIRE WORLD			598.60
		81000570 5330	TIRES FOR 712	598.60	
503832	EFT 4/21/23	UTAH YAMAS CONTROLS INC			1,294.70
		90000650 5230	SECURITY CAMERA REPAIRS AT EDU	142.50	
		90000650 5230	SECURITY SYSTEM REPAIRS AT ADM	389.70	
		90073650 5230	SECURITY CAMERA REPAIRS AT SWG	190.00	
		90073650 5230	SECURITY SYSTEM REPAIRS AT SWG	310.00	
		90101650 5230	SECURITY SYSTEM REPAIRS AT THE	262.50	
503833	EFT 4/21/23	VALERIE MILLETTE			174.00
		62000570 5170	UNIFORM REIMBURSEMENT	174.00	
503834	EFT 4/21/23	VANCON INC			310,196.43
		11000184 6010 4199	10200 S 3600 W PUMP STATION	213,735.75	
		11000184 6010 4205	2022 VAULT IMPROVEMENT PROJECT	96,460.68	
503835	EFT 4/21/23	WINMARK STAMP & SIGN INC			28.60
		83000570 5350	NAME PLATE FOR KYLE ALLCOTT	28.60	
503836	EFT 4/21/23	WNA SERVICES CO.			150.00
		51000650 5170	UTAH NEWS TRACKER READING CHAR	150.00	
503837	EFT 4/21/23	WW GRAINGER			242.81
		72000590 5260	(2) OUTDOOR CHEMICAL SAFETY SI	100.00	
		82000570 5310	1-23/32" DRILL BIT & 1- THREAD	142.81	
503838	EFT 4/28/23	DIAMOND CUTTING, LLC			691.70
		82101570 5380	6-12" & 6- 24" GASKETS FOR JA2	478.20	
		82101570 5380	JA2, 2- 30" MANWAY GASKETS 620	213.50	
503839	EFT 4/28/23	FINLINSON & FINLINSON PLLC			16,563.00
		51000650 5284	PREP 60	16,563.00	
503840	EFT 4/28/23	GRITTON & ASSOCIATES			240.00
		81000570 5360	SEAL FOR BOILER CIRCULATION PU	240.00	
503841	EFT 4/28/23	MANLEY BROS OF INDIANA INC			10,830.74
		72000590 5710	22 TONS OF SILICA SAND FOR ACT	10,830.74	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503842	EFT 4/28/23	MOUNTAINLAND SUPPLY COMPANY			\$12,532.74
		82000570 5380	3/4" SETTERS	3,425.38	
		82000570 5380	4", 6", & 8" REPAIR CLAMPS	9,107.36	
503843	EFT 4/28/23	MURRAY CITY CORPORATION			444.25
		75309590 5410	350 E 4500 S	444.25	
503844	EFT 4/28/23	RYAN JEFFS			355.50
		51000650 5180	TUITION REIMBURSEMENT	355.50	
503845	EFT 4/28/23	SMITH & EDWARDS			159.95
		80000570 5260	NEW HIRE SAFETY BOOTS	159.95	
503846	EFT 4/28/23	TANNER PALMER			324.66
		51000650 5180	TRAINING REIMBURSEMENT	324.66	
503847	EFT 4/28/23	WW GRAINGER			279.97
		75000570 5380	LOCK OUT TAG OUT LOCKS	279.97	
REPORT TOTAL:					\$3,681,006.43

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYROLL CHECKS, ACH & WIRE TRANSFER REGISTER - O&M ACCOUNT

For the Period April 01, 2023 Through April 30, 2023

PAYMENT DATE	PAYMENT TYPE	VENDOR NAME	DESCRIPTION	PAYMENT AMOUNT
4/4/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	204.00
4/5/2023	ACH	EMPLOYEE	EMPLOYEE DIRECT DEPOSITS	367,018.97
4/5/2023	ACH	IRS	FEDERAL & MEDICARE TAXES	54,713.72
4/5/2023	ACH	URS	STATE RETIREMENT	90,463.79
4/5/2023	ACH	HEALTHQUITY	EMPLOYEE H.S.A. CONTRIBUTIONS	13,783.05
4/5/2023	ACH	CIGNA HEALTHCARE	EMPLOYEE DENTAL & LIFE INS	17,058.43
4/5/2023	ACH	FIDELITY	SUB SOCIAL SECURITY CONTRIB.	56,833.94
4/11/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	1,082.00
4/11/2023	ACH	EMPLOYEES	TERMINATED EMPLOYEES CASHOUT	346.58
4/19/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	740.00
4/20/2023	ACH	EMPLOYEE	EMPLOYEE DIRECT DEPOSITS	358,067.24
4/20/2023	ACH	IRS	FEDERAL & MEDICARE TAXES	54,289.83
4/20/2023	ACH	URS	STATE RETIREMENT	89,226.43
4/20/2023	ACH	HEALTHQUITY	EMPLOYEE H.S.A. CONTRIBUTIONS	13,853.05
4/20/2023	ACH	CIGNA HEALTHCARE	EMPLOYEE DENTAL & LIFE INS	17,076.35
4/20/2023	ACH	FIDELITY	SUB SOCIAL SECURITY CONTRIB.	56,345.50
REPORT TOTAL:				\$ 1,191,102.88

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/3/2023	TERESA ATKINSON	AMZN MKTP US*HS2GS23A0	AMAZON ORDER #111-1498887-7911431 DAVID GREGORY - ETHERNET PORTS \$20.70	90000650 5230	20.70
4/3/2023	JEFFREY BETTON	AMZN MKTP US*HY2C261B2 AM	BLOOD PRESSURE MONITORS FOR FIRST AID CABINETS (REQUEST FROM WELLNESS COMMITTEE)	51000650 5260	151.94
4/3/2023	TERESA ATKINSON	FACEBK QCLLHQKMJ2	META ADS - LOCALSCAPES #10154939523334825 \$255.16	62000570 5270	255.16
4/3/2023	CORY COLLINS	OTC BRANDS INC	TOY PRIZES FOR GARDEN SCAVANGER HUNTS	62000570 5350	59.97
4/3/2023	TERESA ATKINSON	GOOGLE ADS6474187733	MARCH 2023 UWS GOOGLE ADS RECEIPT\$29.69	62000570 5270	29.69
4/3/2023	LAINA MCGINTY	AMAZON.COM*HS7XP6CQ0	ERIK WERMEL 1 YEAR SERVICE AWARD	51000650 5170	45.23
4/3/2023	LAINA MCGINTY	AMAZON.COM*HS92S3AI0	ERIK WERMEL 1 YEAR SERVICE AWARD	51000650 5170	15.99
4/3/2023	LAINA MCGINTY	AMAZON.COM*HY8160UX1	ERIK WERMEL 1 YEAR SERVICE AWARD	51000650 5170	32.40
4/3/2023	EPIMENIO TRUJILLO	AMZN MKTP US*HS1XV2FW0	RUBBER BUMPERS FOR TRUCK BEDS	81000570 5330	17.94
4/3/2023	MICHAEL LORENC	SPEED'S POWER EQUIPMENT	SHARPENING FOR HEDGE TRIMMER	62000570 5350	59.95
4/3/2023	JACKIE BUHLER	PITNEY BOWES PI	PAYMENT FOR INVOICE #1022698157	51000650 5220	247.32
4/3/2023	ALISHA KIMMERLE	STAPLES	OFFICE SUPPLIES FOR JVWTP	71000590 5220	57.45
4/3/2023	JACKIE BUHLER	AMZN MKTP US AMZN.COM/BIL	RETURNED ADDING MACHINE	51000650 5220	-61.96
4/4/2023	KYLE CHAPMAN	AMZN MKTP US*HY8WN37X2	FIBER OPTIC CLEANING SUPLIES	91000570 5310	51.89
4/4/2023	CORY COLLINS	SMITHS MRKTPL #4495	ICE FOR QWEL	62000570 5350	5.98
4/5/2023	TIMOTHY RAINBOLT	SMITHS MRKTPL #4495	KEELING AWARDS PROGRAM 040323	11000200 2290	125.00
4/5/2023	JORDAN TOMSIC	AMZN MKTP US*HS0P05VQ0	CAT 6 JACKS AND FACEPLATES FOR THE CUBICLE MOVE (FISHBOWL)	91000570 5310	66.81
4/5/2023	SHAUN MOSER	DISPLAYS2GO	A FRAME SIGN	62000570 5350	298.04
4/5/2023	ALISHA KIMMERLE	UNIFIED FIRE AUTHORITY	TIER II HAZMAT PERMIT	71000590 5260	350.00
4/5/2023	KYLE CHAPMAN	LOWES #01133*	MADE 3 ADDITIONAL KEYS FOR THE COPPERTON PUMP HOUSE	91000570 5310	12.81
4/5/2023	BEVERLY PARRY	VILLAGE BAKER INC	WEBER BASIN WATER CONSERVANCY DISTRICT LUNCH	51000650 5170	14.85
4/5/2023	JACKIE BUHLER	PB LEASING	PAYMENT FOR INVOICE #3317315505	51000650 5220	423.09
4/5/2023	DANIEL CLAYPOOL	THE HOME DEPOT #8566	PAINT AND LAG SCREWS FOR RIVER BOOM	81100570 5380	34.02
4/6/2023	JORDAN TOMSIC	THE HOME DEPOT #4410	PARTS FOR THE VAULT AT 94TH AND 12TH EAST ELECTRICAL	91000570 5310	108.98
4/6/2023	CORY COLLINS	AMZN MKTP US*HS0W64GB1	WORK SHIRTS FOR AMANDA	62000570 5170	30.18
4/6/2023	EPIMENIO TRUJILLO	AMZN MKTP US*HS17Q90Z1 AM	MARKER GUIDES FOR BOSS SNOW PLOWS	81000570 5330	79.98
4/6/2023	CORY COLLINS	AMZN MKTP US*HS1GS5332	WORK SHIRTS FOR AMANDA	62000570 5170	29.52

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/6/2023	PAUL MATTINSON	LABCONCO CORPORATION	NEW DOOR SEALS FOR LABCONCO GLASSWARE WASHER	78000590 5720	111.30
4/6/2023	BRADLEY BOREN	NOR*NORTHERN TOOL	CREDIT FOR TANK SPRAYER	83000570 5350	-214.50
4/6/2023	TIMOTHY RAINBOLT	SMITHS MRKTPL #4495	BRUSCH AWARDS PROGRAM 040423	11000200 2290	100.00
4/7/2023	LAINA MCGINTY	SURETY BONDS.COM	SURETY NOTERY BOND FOR AUBREY MENON	51000650 5170	50.00
4/7/2023	TERESA ATKINSON	FACEBK EBWBHNKFF2	FACEBOOK CGP Transaction ID 5969709373142440-12086412 \$80.08	62000570 5270	81.08
4/7/2023	DANIEL CLAYPOOL	THE HOME DEPOT #4410	DUCT TAPE, SPRAY PAINT, LAG SCREWS	81000570 5360	46.19
4/7/2023	DANIEL CLAYPOOL	HARBOR FREIGHT TOOLS 292	JACKS TO REPAIR AND INSTALL THE BOOM BACK IN THE RIVER AT THE NARROWS PUMP STATION	81100570 5380	319.98
4/10/2023	MINDY KEELING	AMERICAN SOCIETY OF SA	ASSP CONFERENCE REGISTRATION - CALIN PERRY	80000570 5290	879.00
4/10/2023	HAYDEN COZIAR	THE HOME DEPOT #4410	PARTS TO MAKE BASE FOR NEW TANK SPRAYER	83000570 5350	44.72
4/10/2023	HAYDEN COZIAR	THE HOME DEPOT #4410	SCREWS AND CHAIN FOR TANK SPRAYER	83000570 5350	12.38
4/10/2023	RYAN JEFFS	THE HOME DEPOT #4410	PAINT MIXING PADDLE FOR PAINT MIXING	83000570 5350	10.98
4/10/2023	JACKIE BUHLER	UPS*BILLING CENTER	PAYMENT FOR INVOICES 0000A3278X123 & 0000A3278X103	51000650 5250	160.13
4/10/2023	LAINA MCGINTY	LT. GOVERNOR - ONLINE	NOTERY FEE FOR AUBREY MENON	51000650 5170	95.00
4/10/2023	JEREMY TOONE	THE HOME DEPOT #8566	MICROWAVE FOR 3RD FLOOR	71071570 5350	119.00
4/10/2023	LAINA MCGINTY	ALS SPORTING GOODS	RYLAN WALKER 5 YEARS SERVICE AWARD	51000650 5170	160.48
4/10/2023	JACKIE BUHLER	AMZN MKTP US*HS5KY5211	MOUSE PAD AND KEYBOARD REST FOR FRONT DESK	51000650 5220	17.88
4/10/2023	MICHAEL LORENC	BIZWEAR CONSULTING	EMBROIDERY FOR SHIRTS FOR MIKE AND NATALIE	62000570 5170	159.00
4/10/2023	JUSTIN CRACROFT	HIGH OCTANE RENTALS	SNOW MOBILE RENTAL FOR PROJECT	11000175 6010	92.81
4/10/2023	LAINA MCGINTY	AMZN MKTP US*HJ2GX2CS0	DUST OFF COMPRESSED GAS	51000650 5220	17.99
4/10/2023	CORY COLLINS	AMZN MKTP US*HS4ZH4I41	WORK SHIRTS FOR MADDIE	62000570 5170	97.95
4/10/2023	LISA KASTELER	AMZN MKTP US*HS5811MU2	TABLE FOR INCOMING DELIVERY PACKAGES	80000570 5220	93.49
4/11/2023	JUSTIN CRACROFT	HIGH OCTANE RENTALS	SNOW MOBILE RENTAL FOR PROJECT	11000175 6010	216.56
4/11/2023	JEFFREY BETTON	AMZN MKTP US*HJ8P75FP1	BLOOD PRESSURE MONITOR FOR FIRST AID CABINET	51000650 5260	21.99
4/11/2023	TERESA ATKINSON	AMZN MKTP US*HS2BD6WW2	AMAZON ORDER # 111-2650798-862822 - DIGITAL BUSINESS CARD STICKERS - KYLE \$15.99	60000650 5270	15.99
4/11/2023	JEFFREY BETTON	AMZN MKTP US*HS51S5UH2	USB TO ETHERNET ADAPTER FOR MY LAPTOP TO DIRECT CONNECT TO INTERNET WHILE PRESENTING	51000650 5260	15.59
4/11/2023	MINDY KEELING	MGM GRAND - ADV DEP	TABLEAU CONFERENCE HOTEL DEPOSIT - CLIFTON SMITH	60000650 5290	235.83

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/11/2023	TERESA ATKINSON	MICROSOFT#G021282551	AZURE MARCH 2023 G021282551 \$707.67	90000650 5230	707.67
4/11/2023	LAINA MCGINTY	SMITHS MRKTPL #4495	BOARD MEETING REFRESHMENTS	51000660 5220	119.92
4/11/2023	LAINA MCGINTY	MCGEES STAMP AND TROPHY	NOTERY STAMPS FOR AUBREY MENON	51000650 5170	30.03
4/12/2023	TERESA ATKINSON	AMZN MKTP US*HS90C9YP2	AMAZON ORDER # 111-0442147-6247461 - DIGITAL BUSINESS CARDS - KYLE \$16.99	60000650 5270	16.99
4/12/2023	MINDY KEELING	DELTA AIR 0062376557335	FLIGHT FOR LUCITY/ENGAGE CONFERENCE - MICHELE GUY	80000570 5290	637.80
4/12/2023	JARED BRACE	DRIVER LIC WEST VALLEY	CDL LICENSE RENEWAL - JARED BRACE	80000570 5290	52.00
4/12/2023	YVETTE AMPARO	OPENSESAME	REASONABLE SUSPICION TRAINING FOR ALCOHOL AND SUBSTANCE ABUSE	51005650 5290	112.00
4/12/2023	LAINA MCGINTY	ALS SPORTING GOODS	TAX REFUND FOR RYLAN WALKER SERVICE AWARD	51000650 5170	-10.50
4/12/2023	MICHAEL LORENC	SPEED'S POWER EQUIPMENT	GAS POWERED BLOWER	62000570 5350	689.99
4/13/2023	JOSHUA SHREWSBURY	AMZN MKTP US*HJ1C80PH1	KNEE PADS	72000590 5260	170.94
4/13/2023	MINDY KEELING	DELTA AIR 0062376559821	FLIGHT FOR ASSP SAFETY CONFERENCE - JEFF BETTON	51000650 5290	697.80
4/13/2023	TIMOTHY RAINBOLT	SMITHS MRKTPL #4495	KEELING AWARD PROGRAM 041223	11000200 2290	50.00
4/13/2023	BEVERLY PARRY	SMITHS MRKTPL #4495	BOARD MEETING SUPPLIES	51000660 5220	9.99
4/13/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - LOCALSCAPES.COM ONE YEAR \$40.34	90000650 5230	40.34
4/13/2023	ALLEN CURTIS	THE HOME DEPOT #8566	FITTINGS FOR THE SLUDGE PUMP JVWTP	81071570 5380	8.76
4/13/2023	NICK MCDONALD	THE HOME DEPOT 8566	MATERIALS FOR BUILDING CORE BOXES FOR INSPECTION FOR PREDESIGN	11000182 6010	82.90
4/13/2023	LAINA MCGINTY	VILLAGE BAKER INC	BOARD MEETING REFRESHMENTS	51000660 5220	198.00
4/13/2023	SHANE SWENSEN	VILLAGE BAKER INC	ENGINEERING DEPT SWOT ANALYSIS LUNCH	52000650 5290	15.14
4/13/2023	SHANE SWENSEN	VILLAGE BAKER INC	ENGINEERING DEPT SWOT ANALYSIS LUNCH	52000650 5290	156.75
4/14/2023	MICHAEL LORENC	SPRINKLER SUPPLY	EDGING FOR PATHWAY CLASS	62000570 5350	293.01
4/14/2023	JORDAN TOMSIC	GRAYBAR ELECTRIC	FIBER PARTS FOR THE CAMERAS IN THE ADMIN PARKING LOT	91000570 5310	325.15
4/14/2023	JORDAN TOMSIC	THE HOME DEPOT 4410	PARTS FOR THE FIBER CABINET IN THE ADMIN PARKING LOT	91000570 5310	90.08
4/14/2023	JORDAN TOMSIC	THE HOME DEPOT 4410	PARTS FOR THE FIBER BOX INSTALL IN THE ADMIN PARKING LOT	91000570 5310	88.14
4/14/2023	KYLE CHAPMAN	AMZN MKTP US*HJ3UO4RX0	OPTICAL CAMERA FOR FIBER OPTIC INSPECTIONS	91000570 5310	559.00
4/14/2023	SHANE SWENSEN	DAYLIGHT DONUTS SANDY	SOUTH JORDAN CITY MEETING DOUGHNUTS	52000650 5290	24.49
4/14/2023	TIMOTHY RAINBOLT	MEGAPLEX AT JORDAN COMMON	KEELING AWARD PROGRAM 041223	11000200 2290	25.00
4/17/2023	SHAUN MOSER	AMZN MKTP US*HJ7NZ8WD0	SAFETY GOGGLES	62000570 5170	69.85

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/17/2023	CORY COLLINS	AMZN MKTP US*HV09Y2421	CORKBOARDS UWS	62000570 5670	21.90
4/17/2023	JACKIE BUHLER	AMZN MKTP US*HV1LU5EC0		51000650 5220	82.30
4/17/2023	CORY COLLINS	AMZN MKTP US*HV5EI20B0	HOOKS FOR CORKBOARDS UWS	62000570 5670	7.89
4/17/2023	LAINA MCGINTY	AMZN MKTP US*HV9DM5NT0	GYM SUPPLY. ROMAN CHAIR BACK EXTENSION MACHINE	51000650 5130	119.00
4/17/2023	LAINA MCGINTY	HOBBY LOBBY # 440	HR TEAM BUILDING ACTIVITY SUPPLIES	51000650 5170	68.99
4/17/2023	LAINA MCGINTY	WALGREENS #9237	HR TEAM BULDING ACTIVITY SUPPLIES	51000650 5170	84.90
4/17/2023	ALISHA KIMMERLE	AMERICAN WATER WORKS ASSO	AWWA MEMBERSHIP STEVE BLAKE	71000590 5290	255.00
4/17/2023	PAUL MATTINSON	LABCONCO CORPORATION	PARTS AND SEAL FOR THE GLASSCLEANER - LABCONCO	78000590 5720	63.51
4/17/2023	CORY COLLINS	THE HOME DEPOT #4410	MATERIAL FOR PATHWAY CLASS	62000570 5350	17.96
4/17/2023	MICHAEL LORENC	THE HOME DEPOT #4410	EDGING FOR PATHWAYS CLASS	62000570 5350	130.88
4/17/2023	JACKIE BUHLER	UPS*BILLING CENTER	PAYMENT FOR INVOICE #0000A3278X133	51000650 5250	30.95
4/17/2023	CORY COLLINS	BGNURSERIES	CHAT MATERIAL FOR PATHWAY CLASS	62000570 5350	25.00
4/18/2023	LISA KASTELER	WM SUPERCENTER #3232	REFRESHMENTS FOR CRAM FOR THE EXAM - APRIL 2023	80000570 5170	55.20
4/18/2023	GORDON BATT	FRANZ BAKERY - DUNFORD	REFRESHMENTS FOR MULTI AGENCY COORDINATION MEETING	70000590 5170	28.82
4/18/2023	ALISHA KIMMERLE	SMITHS MRKTPL #4495	DRINKS FOR MAC MEETING	70000590 5170	9.38
4/18/2023	JACKIE BUHLER	AMZN MKTP US*HV8LM2P80	COAT HOOK FOR OFFICE	51000650 5220	17.60
4/18/2023	KYLE CHAPMAN	REAMS #15	BATTERIES PURCHASED FOR ELECTRICAL TESTER	91000570 5310	12.32
4/19/2023	DAVID HYDE	AMAZON.COM*HV00T16X0	WATER VALVE FOR ICE MACHINE IN CONSTRUCTION	81000570 5360	49.78
4/19/2023	BRYAN SMITH	AMAZON.COM*HV8A51E01	DISHWASHER TABS	72000590 5220	18.07
4/19/2023	JORDAN TOMSIC	AMZN MKTP US*HV0ZV03U2	FIBER PATCH CABLES FOR THE CAMERAS AND RTU AT 98TH AND 23RD RES.	91000570 5310	123.45
4/19/2023	JORDAN TOMSIC	AMZN MKTP US*HV2NJ6820	FIBER PATCH CABLES FOR CAMERAS AND RTU AT 98TH 23RD RES.	91000570 5310	47.80
4/19/2023	JORDAN TOMSIC	AMZN MKTP US*HV87Z41P1	FIBER PATCH PANELS FOR THE CHEMICAL BUILD AND THE PUMP BUILDING AT 98TH AND 23RD RES	91000570 5310	424.00
4/19/2023	JORDAN TOMSIC	INTERMOUNTAIN FUSE SUPPL	FUSES FOR THE 12 VDC VALVE AT BELL CANYON SITE	91000570 5310	35.75
4/19/2023	TERESA ATKINSON	FIGMA MONTHLY RENEWAL	FIGMA SOFTWARE APR 18 2023 TO MAY 18 2023 \$42.91	60000650 5270	42.91
4/19/2023	LISA KASTELER	WAL-MART #3232	REFRESHMENTS FOR CRAM FOR THE EXAM - APRIL 2023	80000570 5170	19.16
4/20/2023	MINDY KEELING	LT. GOVERNOR - ONLINE	ANNUAL ENTITY REGISTRATION RENEWAL - JWVCD	51000650 5170	25.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/20/2023	DANIEL CLAYPOOL	LOWES #02296*	ANCORS SCREWS AND CHAIN FOR SAFETY SUGESTION AT TREATMENT PLANT	81000570 5310	112.30
4/20/2023	LISA KASTELER	FRANZ BAKERY - DUNFORD	REFRESHMENTS FOR CRAM FOR THE EXAM - APRIL 2023	80000570 5170	28.82
4/20/2023	JACKIE BUHLER	ULINE *SHIP SUPPLIES	MAGNETIC LABELS FOR VAULT	51000650 5220	130.40
4/20/2023	LAINA MCGINTY	AMZN MKTP US*HV5XW8581	NOTARY JOURNAL FOR AUBREY MENON	51000650 5170	40.00
4/20/2023	SHAUN MOSER	UU VISITOR PARKING	CAMPUS PARKING FEE FOR PRESENTATION	62000570 5270	4.27
4/21/2023	TERESA ATKINSON	AMZN MKTP US*HV90O56L0 AM	AMAZON ORDER #111-1055458-9997058 DAVID GREGORY - IPAD SCREEN PROTECTORS \$24.99	90000650 5230	24.99
4/21/2023	DAVID BERATTO	WJ ADMIN SERVICES	ENCROACHMENT AND PERMIT PROCESSING FEES	82000570 5380	875.88
4/21/2023	DAVID BERATTO	ASPHALT SYSTEMS INC	(2) FIVE GALLON PAILS OF CSS	82000570 5380	70.00
4/21/2023	JORDAN TOMSIC	DYKMAN ELECTRICAL	FREIGHT FOR A PURCHASE MADE ON 12/30/23	91000570 5310	23.04
4/21/2023	SHANE SWENSEN	PIE PIZZERIA SOUTH JOR	ENGINEERING DEPARTMENT LUNCH	52000650 5170	90.63
4/21/2023	LAINA MCGINTY	SMITHS MRKTPL #4495	JOB FAIR REFRESHMENTS	51000650 5170	34.95
4/21/2023	HAYDEN COZIAR	THE HOME DEPOT #4410	PARTS TO INSTALL THE THE NEW BOOM SPRAYER ON THE SPRAY TRUCK	83000570 5350	28.02
4/24/2023	HAYDEN COZIAR	THE HOME DEPOT #4410	BLACK SPRAY PAINT AND TAPE MEASURE FOR BOOM SPRAYER FABRICATION	83000570 5350	30.41
4/24/2023	DUSTIN BRUSCH	AMZN MKTP US*HF8LN04F0	REPLACE FLOOD SWITCH SLUDGE VAULT	91000570 5310	294.98
4/24/2023	DAVID HYDE	AMZN MKTP US*HF9U58T10	PHOTO EYE FOR TREATMENT PLANT GATE	81071570 5380	69.90
4/24/2023	LAINA MCGINTY	AMZN MKTP US*HV7IT4WD2	PINGPONG PADDLES SET (REPLACEMENT)	51000650 5130	34.06
4/25/2023	LISA KASTELER	IN *LOUMIS CDL TESTING	CDL DRIVER TEST FEES FOR ROBERTO A. AND VIKIA V.	80000570 5290	496.00
4/25/2023	DANIEL CLAYPOOL	LOWES #02296*	PAINTERS TAPE	81071570 5360	39.48
4/25/2023	ALLEN CURTIS	ACE HDW AT HIDDEN VALLEY	BOLTS AND GLUE FOR SIGNS AT SERWTP	81072570 5380	26.89
4/26/2023	MICHAEL BROWN	THE HOME DEPOT #4410	TOILET SEATS FOR GARDEN RESTROOMS	83000570 5350	126.94
4/26/2023	MINDY KEELING	SMITHS MRKTPL #4495	ICE FOR ANNUAL MEMEBER AGENCY MEETING ON 4-26-23	51000650 5170	5.98
4/26/2023	JORDAN TOMSIC	AMZN MKTP US*HF0RW7SC0	FIBER PATCH PANELS FOR ROSECREST RTU AND SECURITY CAMERAS	91000570 5310	436.00
4/26/2023	JOSHUA SHREWSBURY	AMZN MKTP US*HF0W855Q1	BINDERS AND PAGE DIVIDERS	72000590 5220	46.05
4/26/2023	JOSHUA SHREWSBURY	AMZN MKTP US*HF1HR5PM2	BINDERS AND PAGE DIVIDERS	72000590 5220	11.98
4/26/2023	BEVERLY PARRY	ENVISIONUTAH.ORG	ENVISION UTAH'S 2023 SPRING BREAKFAST SPONSORSHIP	51000650 5170	900.00
4/26/2023	JACKIE BUHLER	LEI00299916	LEI RENEWAL SUBSCRIPTION	51000650 5286	40.00
4/27/2023	JORDAN TOMSIC	AMAZON.COM*HF5H63DG1 AMZN	FIBER PATCH CABLES FOR RTU CABINETS	91000570 5310	58.56

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 4/1/2023 Through 4/30/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
4/27/2023	LISA KASTELER	AMZN MKTP US*HF7R05XX2	11 X 17 3 MIL LAMINATING POUCHES - MAP PROJECT FOR BRAD BOREN	80000570 5220	24.95
4/27/2023	JORDAN TOMSIC	GRAYBAR ELECTRIC	FIBER TOOL BOX AND FIBER BOX FOR ROSE CREST	91000570 5310	243.90
4/27/2023	MICHAEL LORENC	THE HOME DEPOT #4410	VALVE BOX	62000570 5350	19.97
4/27/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - SLOW THE FLOW DOMAIN RENEWAL \$42.34	90000650 5230	42.34
4/27/2023	SHAUN MOSER	GLOVER NURSERY INC	PLANTS FOR GARDEN OPEN HOUSE BOOTH	62000570 5270	475.95
4/28/2023	JORDAN TOMSIC	INTERMOUNTAIN FUSE SUPPL	BASIN 2 STAGE 1 FLOCCULATOR MOTOR HEATERS AT JVWTP	91071570 5310	92.28
4/28/2023	MICHAEL LORENC	LOWES #01613*	BROWN CARPET FOR OPEN HOUSE DISPLAY	62000570 5350	119.52
4/28/2023	MICHAEL LORENC	LOWES #01613*	GRIZZLY GRASS - TO BE REFUNDED AND TAX REMOVED	62000570 5350	128.19
4/28/2023	JACKIE BUHLER	AMAZON.COM*HF37V0QN2 AMZN	BROTHERS TAPE FOR LABELER	51000650 5220	44.52
4/28/2023	JACKIE BUHLER	AMAZON.COM*HM07X2ZU0	PAPER PLATES FOR AMIN LUNCH ROOM	51000650 5220	43.32
4/28/2023	JACKIE BUHLER	AMZN MKTP US*HF1NG1Q52	HEATER FOR EMPLOYEE	51000650 5220	30.95
4/28/2023	EPIMENIO TRUJILLO	AMZN MKTP US*HF6Y51UX1	NERF BARS FOR # 758	81000198 6010	135.15
4/28/2023	LISA KASTELER	AMZN MKTP US*HF9951IO1	LAMINATING POUCHES 5 MIL - FOR BRAD B. MAP PROJECT	80000570 5220	45.99
4/28/2023	LISA KASTELER	AMZN MKTP US*HM6AP3LC0	GORILLA GLUE	80000570 5220	5.99

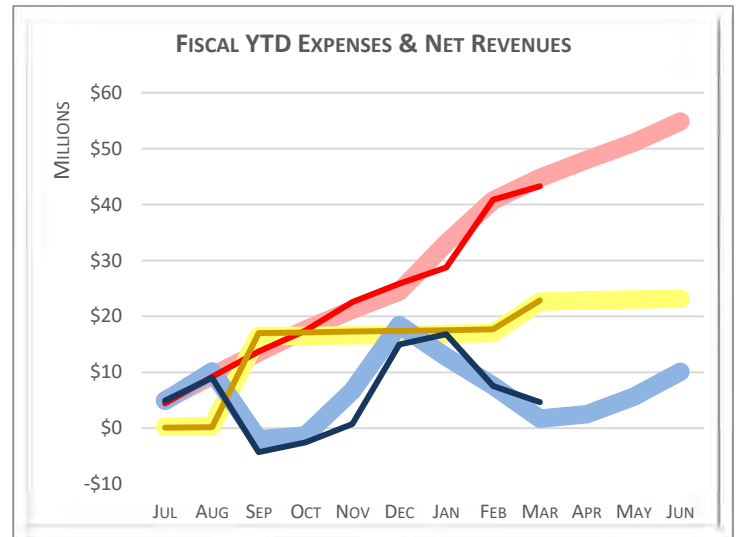
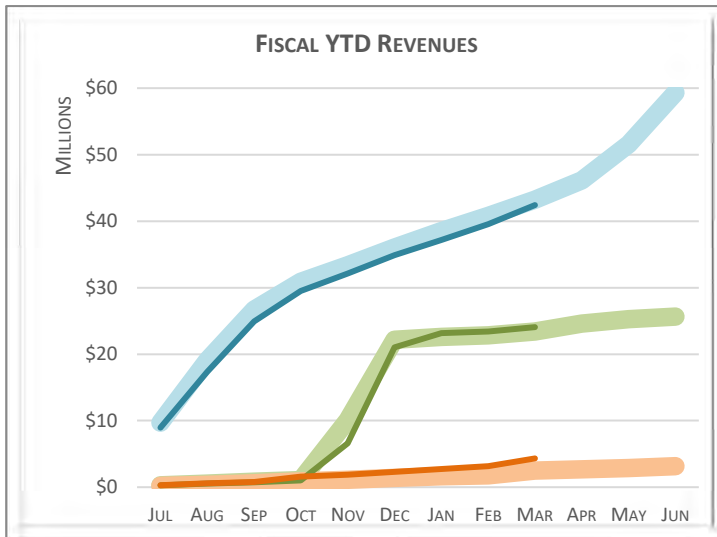
TOTAL # OF TRANSACTIONS: 147

REPORT TOTAL: \$18,136.06

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FINANCIAL REPORT SUMMARY – MARCH 2023

MONTHLY AND YEAR-TO-DATE OPERATING SUMMARY

	Legend	MARCH 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET
REVENUES				
Water Sales Revenue	—	\$ 2,849,266	\$ 42,416,414	\$ 59,313,072
Property Tax Revenue	—	673,486	24,064,083	25,650,346
All Other Revenue	—	1,163,212	4,325,797	3,159,300
		4,685,964	70,806,294	88,122,718
EXPENSES				
Operating Expenses	—	2,395,637	43,284,586	54,869,891
Bond Debt Service	—	5,183,224	22,857,017	23,164,500
Net Revenues after Debt Service	—	\$ (2,892,896)	\$ 4,664,691	\$ 10,088,327

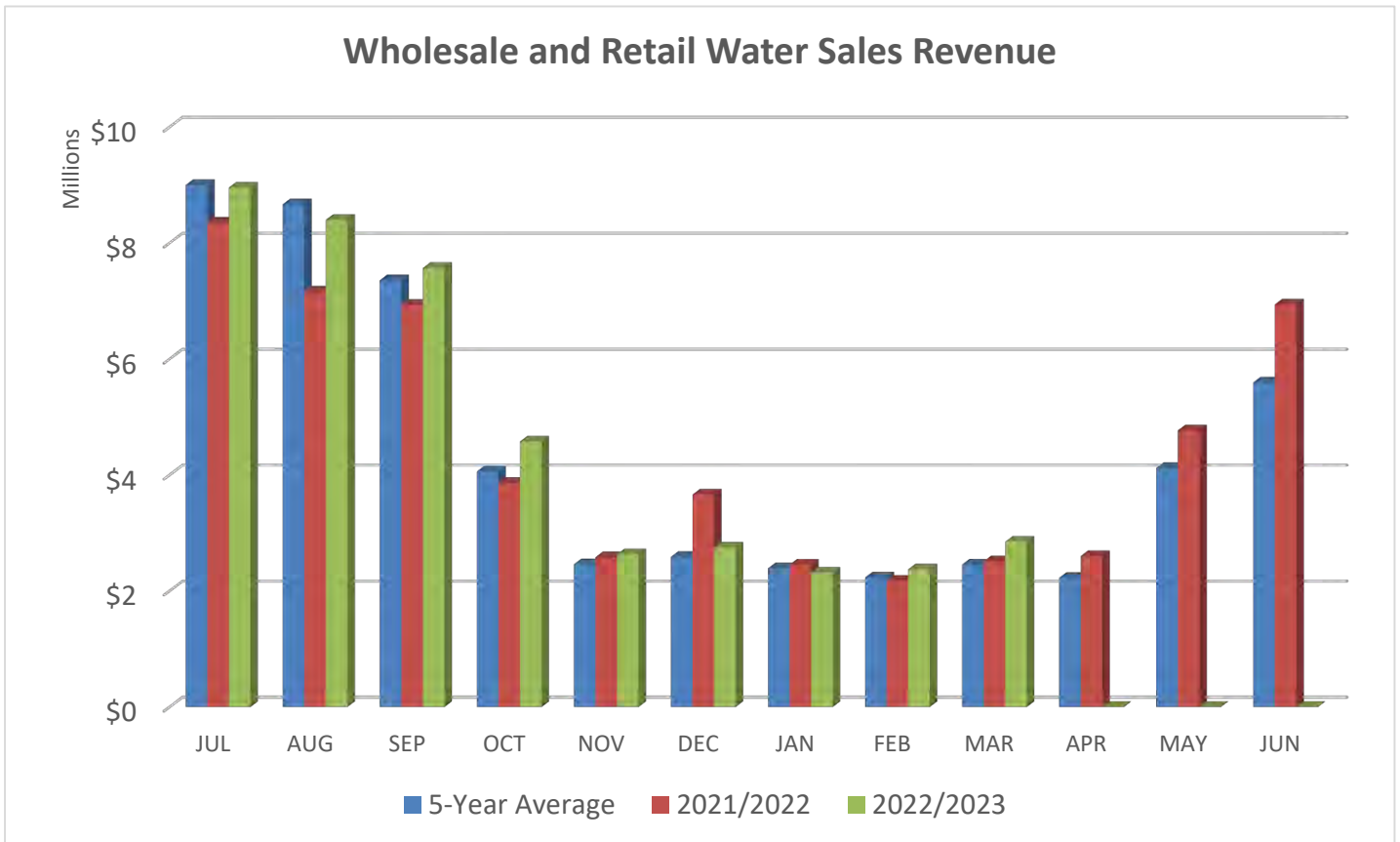


OTHER FINANCIAL HIGHLIGHTS

FUND BALANCES	
Revenue	\$ 8,191,477
Operation & Maintenance	17,871,244
General Equipment	517,856
Retail Deposit Account	203,080
Bond Proceeds	19,375,469
Capital Projects	3,877,006
Replacement Reserve	19,323,521
Development Fee	514,886
Other Reserves	14,130,396
Bond Reserves	5,087,316
	\$ 89,092,251

LONG-TERM DEBT INFORMATION	
Outstanding Bonds and Notes Payable - 03/31/2023	\$ 312,532,852
<u>Average Annual Debt Payments Next 10-Years</u>	
Principal Payments	\$ 14,738,515
Interest Payments	16,516,500
	\$ 31,255,015
<u>Projected Next Future Bond Issue</u>	
Bond Issue Date	January 2024
Bond Issue Amount	\$ 100,000,000

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FINANCIAL REPORT SUMMARY – MARCH 2023



JORDAN VALLEY WATER CONSERVANCY DISTRICT
INCOME STATEMENT - MARCH 2023 (75%)

MODIFIED ACCRUAL BASIS - UNAUDITED

	MARCH 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET	% OF BUDGET	MARCH 2022	FY 21/22 Y-T-D	FY 21/22 BUDGET	% OF BUDGET
REVENUES								
Metered Sales of Water								
- Wholesale	\$ 2,598,604	\$ 37,144,772	\$ 52,554,723	71%	\$ 2,277,419	\$ 34,583,300	\$ 51,303,595	67%
- Retail	250,662	5,271,642	6,758,349	78%	232,908	5,110,036	7,514,783	68%
Impact Fees	76,317	203,053	512,000	40%	57,475	151,612	407,000	37%
General Property Tax	673,486	24,064,083	25,650,346	94%	596,485	22,184,246	23,230,051	95%
Other - Investment Income, etc.	381,389	2,403,383	1,087,300	221%	47,305	353,490	548,900	64%
Other - Misc.	705,507	1,719,361	1,560,000	110%	24,092	1,294,119	1,605,000	81%
Total Revenues	4,685,964	70,806,294	88,122,718	80%	3,235,684	63,676,803	84,609,329	75%
OPERATING EXPENSES *								
Water Purchases	902,959	17,493,655	18,615,784	94%	252,605	16,905,963	17,672,551	96%
Operations and Maintenance	432,616	7,649,083	11,621,168	66%	611,861	6,653,508	10,678,691	62%
General and Administrative	280,987	4,049,313	5,131,328	79%	379,833	3,630,765	4,874,489	74%
Payroll Related	779,075	14,092,535	19,501,611	72%	1,827,370	13,415,971	17,949,637	75%
Total Operating Expenses	2,395,637	43,284,586	54,869,891	79%	3,071,669	40,606,207	51,175,368	79%
Net Revenues Available for Debt Service	2,290,328	27,521,708	33,252,827	83%	164,015	23,070,596	33,433,961	69%
Bond Debt Service	5,183,224	22,857,017	23,164,500	99%	5,367,998	22,234,711	22,357,783	99%
Net Revenues after Debt Service	(2,892,896)	4,664,691	10,088,327		(5,203,983)	835,886	11,076,178	
Transfer of Revenue Stabilization Funds	-	8,402,108	8,402,108	100%	-	5,590,263	5,590,263	100%
Net Revenues	\$ (2,892,896)	\$ 13,066,799	\$ 18,490,435		\$ (5,203,983)	\$ 6,426,149	\$ 16,666,441	
* See Exhibit 2 for summary of expenses by line item.								
NON-OPERATING EXPENSES (REVENUES)								
Capital Replacement Projects	\$ 147,833	\$ 6,944,662	\$ 21,837,862	32%	\$ 966,779	\$ 2,236,585	\$ 16,275,869	14%
Capital Projects	2,794,705	23,135,081	32,456,659	71%	1,142,473	4,922,938	14,240,579	35%
Development Fee	1,707	409,392	512,000	80%	-	-	407,000	0%
General Equipment	89,248	506,450	903,100	56%	75,203	387,799	727,510	53%
Self Insurance Claims	8,981	8,100	100,000	8%	439	58,926	100,000	0%
Bond Cost of Issuance	-	-	250,000		-	560,548	350,000	
Subtotal	3,042,474	31,003,686	56,059,621	55%	2,184,894	8,166,796	32,100,958	25%
Cap Proj Grants & Other Contrib	-	(1,037,239)	(2,849,431)	36%	-	(749,052)	(2,281,758)	33%
(Gain) / Loss on Sale of Assets	-	(1,584,281)	-		-	(43,070)	-	
Bond Cost of Issuance Proceeds	-	-	(250,000)		-	(560,548)	(350,000)	
Subtotal	-	(2,621,520)	(3,099,431)	85%	-	(1,352,670)	(2,631,758)	51%
Total Non-operating Expenses (Revenues)	\$ 3,042,474	\$ 28,382,166	\$ 52,960,190		\$ 2,184,894	\$ 6,814,126	\$ 29,469,200	23%

JORDAN VALLEY WATER CONSERVANCY DISTRICT
OPERATING EXPENSES SUMMARY - MARCH 2023 (75%)

MODIFIED ACCRUAL BASIS - UNAUDITED

DESCRIPTION	MARCH 2023	FY 22/23 Y-T-D	FY 22/23 BUDGET	% OF BUDGET	MARCH 2022	FY 21/22 Y-T-D	FY 21/22 BUDGET	% OF BUDGET
Water Purchases	\$ 900,579	\$ 16,271,149	\$ 17,402,067	94%	\$ 230,449	\$ 15,724,658	\$ 16,656,830	94%
Water Stock Assessments	2,380	1,222,506	1,213,717	101%	22,156	1,181,305	1,015,721	116%
Total Water Purchases	902,959	17,493,655	18,615,784	94%	252,605	16,905,963	17,672,551	96%
Building & Grounds Maint	13,174	238,132	389,512	61%	23,562	209,607	398,254	53%
General Property & Leases	197	90,745	210,482	43%	343	68,125	206,732	33%
Repair & Replacement	49,152	914,703	1,230,499	74%	73,888	554,622	1,194,680	46%
Scheduled Maintenance	16,823	282,970	552,539	51%	15,825	396,006	557,766	71%
Tools & Supplies	16,462	219,583	338,911	65%	17,795	152,186	257,794	59%
Treatment - Chemicals	1,272	1,472,574	2,780,169	53%	49,078	1,001,063	2,028,470	49%
Treatment - Lab, Studies & Quality	14,080	407,771	607,499	67%	28,806	203,639	587,195	35%
Utilities - JVVWTP	33,497	239,188	347,460	69%	75,872	253,000	307,740	82%
Utilities - SERWTP	17,738	92,202	118,842	78%	15,847	85,535	107,044	80%
Utilities - SWGWTP & RO Wells	50,705	340,678	734,702	46%	53,812	341,855	772,776	44%
Utilities - Wells	90,647	1,089,502	1,334,878	82%	106,000	1,300,656	1,130,331	115%
Utilities - Boosters	80,485	1,344,822	1,663,712	81%	111,824	1,171,601	1,875,568	62%
Utilities - JNPS & JA	5,798	514,832	784,314	66%	8,109	553,281	785,514	70%
Utilities - Other	21,893	156,592	203,549	77%	10,393	155,805	196,198	79%
Utility Location (Blue Stakes)	2,056	23,652	28,050	84%	4,163	18,923	28,050	67%
Vehicle & Gen. Equip. - Fuel	14,184	162,769	180,060	90%	11,998	115,863	143,690	81%
Vehicle & Gen. Equip. - Parts	4,454	58,369	115,990	50%	4,545	71,740	100,889	71%
Total Operations & Maintenance	432,616	7,649,083	11,621,168	66%	611,861	6,653,508	10,678,691	62%
Bond Fees	20,342	311,223	424,000	73%	70,100	300,618	409,500	73%
Computer Supplies	101,537	556,126	822,775	68%	124,129	562,983	828,026	68%
Conservation Programs	31,411	1,020,110	1,000,860	102%	8,766	626,086	970,200	65%
General & Administrative	14,367	181,508	211,950	86%	21,338	159,772	192,955	83%
General Insurance	19,500	1,114,009	1,031,351	108%	19,500	964,879	876,114	110%
Legal & Auditing Fees	26,127	310,622	481,650	64%	48,934	319,543	482,650	66%
Office / Mailing / Safety	16,782	181,683	277,858	65%	21,320	177,360	256,686	69%
Professional Consulting Services	15,695	158,982	316,350	50%	36,094	216,512	276,000	78%
Public Relations	514	27,700	162,925	17%	5,802	144,544	194,635	74%
Training & Education	34,712	187,351	401,609	47%	23,851	158,470	387,723	41%
Total General & Administrative	280,987	4,049,313	5,131,328	79%	379,833	3,630,766	4,874,489	74%
Payroll Related	779,075	14,092,535	19,501,611	72%	1,827,370	13,415,970	17,949,637	75%
Total Operating Expenses	\$ 2,395,637	\$ 43,284,586	\$ 54,869,891	79%	\$ 3,071,669	\$ 40,606,207	\$ 51,175,368	79%

JORDAN VALLEY WATER CONSERVANCY DISTRICT
METERED SALES OF WHOLESALE WATER - MARCH 2023

MODIFIED ACCRUAL BASIS - UNAUDITED

WHOLESALE MEMBER AGENCY	CURRENT MONTH			FISCAL YTD		
	MARCH 2023	MARCH 2022	INCREASE / (DECREASE)	MARCH 2023	MARCH 2022	INCREASE / (DECREASE)
Bluffdale	\$ 77,804	\$ 85,696	\$ (7,892)	\$ 1,402,470	\$ 1,279,109	\$ 123,361
Div of Fac Const & Mgnt	10,340	16,881	(6,541)	146,710	178,228	(31,518)
Draper	76,249	75,236	1,013	1,623,772	1,550,035	73,736
Granger-Hunter	512,477	525,863	(13,386)	7,834,735	7,893,185	(58,450)
Herriman	103,101	111,814	(8,713)	2,740,618	2,274,267	466,351
Hexcel Corporation	36,364	26,902	9,461	282,213	232,297	49,916
Kearns	197,300	214,462	(17,162)	3,165,921	2,987,529	178,392
Magna	29,522	27,784	1,738	251,684	247,704	3,980
Midvale	57,515	41,669	15,846	1,265,909	934,908	331,001
Riverton	171,465	151,621	19,844	2,051,479	1,713,257	338,222
South Jordan	305,022	307,828	(2,806)	5,958,377	6,414,912	(456,536)
South Salt Lake	48,171	34,400	13,771	296,694	313,547	(16,853)
Taylorville-Bennion	199,791	194,258	5,533	1,580,041	1,478,160	101,881
WaterPro, Inc.	277,340	295,969	(18,628)	277,340	295,969	(18,629)
West Jordan	495,952	462,516	33,436	8,252,129	7,068,284	1,183,844
White City	50	50	-	450	450	-
Willow Creek Country Club	140	440	(300)	14,231	17,427	(3,196)
TOTALS	<u>\$ 2,598,604</u>	<u>\$ 2,573,388</u>	<u>\$ 25,216</u>	<u>\$ 37,144,772</u>	<u>\$ 34,879,269</u>	<u>\$ 2,265,502</u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT FUND BALANCES - MARCH 2023

CASH BASIS - UNAUDITED

Operating Funds			
Revenue Fund *	Operation and Maintenance Fund *	General Equipment Fund	Retail Deposit Account

Beginning Cash Balance	\$ 10,821,160.21	\$ 19,641,581.78	\$ 604,769.13	\$ 203,080.00
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CASH RECEIPTS:

Operations	3,530,598.70	674,217.80	-	1,500.00
Interest	41,029.19	79,335.27	2,334.33	-
Bond	-	-	-	-
Transfers	-	<u>1,000,000.00</u>	-	-
Total Cash Receipts	<u>3,571,627.89</u>	<u>1,753,553.07</u>	<u>2,334.33</u>	<u>1,500.00</u>

CASH DISBURSEMENTS:

Operations	23,953.06	3,523,890.53	-	1,500.00
Capital	-	-	89,247.78	-
Debt Service	5,177,357.93	-	-	-
Other	-	-	-	-
Transfers	<u>1,000,000.00</u>	-	-	-
Total Disbursements	<u>6,201,310.99</u>	<u>3,523,890.53</u>	<u>89,247.78</u>	<u>1,500.00</u>

Net Change in Cash	<u>(2,629,683.10)</u>	<u>(1,770,337.46)</u>	<u>(86,913.45)</u>	<u>-</u>
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Ending Cash Balance	<u>\$ 8,191,477.11</u>	<u>\$ 17,871,244.32</u>	<u>\$ 517,855.68</u>	<u>\$ 203,080.00</u>
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* Minimum Balance or Reserve	<u>\$ 5,791,125.00</u>	<u>\$ 7,400,000.00</u>	<u>\$ -</u>	<u>\$ -</u>
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**JORDAN VALLEY WATER CONSERVANCY DISTRICT
FUND BALANCES - MARCH 2023**

CASH BASIS - UNAUDITED

Capital Funds

Capital Replacement Reserve Fund	Capital Projects Fund	Bond Projects Fund
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Beginning Cash Balance \$ 19,396,486.39 \$ 7,160,664.66 \$ 19,276,299.80

CASH RECEIPTS:

Operations	-	-	-
Interest	74,867.92	27,639.23	99,168.86
Bond	-	-	-
Transfers	-	-	-
Total Cash Receipts	<u>74,867.92</u>	<u>27,639.23</u>	<u>99,168.86</u>

CASH DISBURSEMENTS:

Operations	-	-	-
Capital	147,833.49	2,796,411.59	-
Debt Service	-	-	-
Other	-	-	-
Transfers	-	-	-
Total Disbursements	<u>147,833.49</u>	<u>2,796,411.59</u>	<u>-</u>
Net Change in Cash	<u>(72,965.57)</u>	<u>(2,768,772.36)</u>	<u>99,168.86</u>

Ending Cash Balance \$ 19,323,520.82 \$ 4,391,892.30 \$ 19,375,468.66

* Minimum Balance
or Reserve \$ - \$ - \$ -

JORDAN VALLEY WATER CONSERVANCY DISTRICT FUND BALANCES - MARCH 2023

CASH BASIS - UNAUDITED

	Reserve Funds		Restricted Funds		Total
	Other Reserve Funds *	Self Insurance Fund *	Revenue Stabilization Fund	Total Bond Debt Service Reserve Funds *	Total All Funds *
Beginning Cash Balance	\$ 386,083.80	\$ 5,159,099.48	\$ 8,539,827.37	\$ 5,084,689.16	\$ 96,273,741.78
<u>CASH RECEIPTS:</u>					
Operations	-	-	-	-	4,206,316.50
Interest	1,490.24	19,913.46	32,962.63	2,626.61	381,367.74
Bond	-	-	-	-	-
Transfers	-	-	-	-	1,000,000.00
Total Cash Receipts	1,490.24	19,913.46	32,962.63	2,626.61	5,587,684.24
<u>CASH DISBURSEMENTS:</u>					
Operations	-	8,980.89	-	-	3,558,324.48
Capital	-	-	-	-	3,033,492.86
Debt Service	-	-	-	-	5,177,357.93
Other	-	-	-	-	-
Transfers	-	-	-	-	1,000,000.00
Total Disbursements	-	8,980.89	-	-	12,769,175.27
Net Change in Cash	1,490.24	10,932.57	32,962.63	2,626.61	(7,181,491.03)
Ending Cash Balance	\$ 387,574.04	\$ 5,170,032.05	\$ 8,572,790.00	\$ 5,087,315.77	\$ 89,092,250.75
* Minimum Balance or Reserve	<u>\$ 387,574.04</u>	<u>\$ 5,170,032.05</u>	<u>\$ -</u>	<u>\$ 5,087,315.77</u>	<u>\$ 23,836,046.86</u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT
FUND BALANCES - MARCH 2023

INVESTMENT SUMMARY

	Institution/Account	Fund	Date Invested	Maturity Date	Interest Rate	Principal Invested	
Operating Funds	Zions Bank - Checking/Sweep Account	Revenue	03/01/23	03/31/23	4.46%	\$ 1,034,436.80	
	Paypal Account - Garden Revenue	Revenue	03/01/23	03/31/23	0.00%	7,901.52	
	Wells Fargo Bank - Savings Account	Revenue	03/01/23	03/31/23	0.10%	391,204.56	
	Express Bill Pay Deposit Account	Revenue	03/01/23	03/31/23	0.00%	111,954.89	
	CUWCD Series B-4 Revenue Bonds	Revenue	06/20/13	10/01/34	4.90%	1,670,000.00	
	Public Treasurers Investment Fund	Revenue	03/01/23	03/31/23	4.80%	4,975,979.34	
	Subtotal - Revenue Funds						8,191,477.11
	Zions Bank - Checking/Sweep Account	O&M	03/01/23	03/31/23	4.46%	1,481,332.61	
	Public Treasurers Investment Fund	O&M	03/01/23	03/31/23	4.80%	16,389,911.71	
	Subtotal - O&M Funds						17,871,244.32
Public Treasurers Investment Fund	General Equipment	03/01/23	03/31/23	4.80%	517,855.68		
Retail Deposit Account	Retail Deposit	03/01/23	03/31/23	0.00%	203,080.00		
Total Operating Funds						\$ 26,783,657.11	
Capital Funds	Public Treasurers Investment Fund	Capital Replacement Reserve	03/01/23	03/31/23	4.80%	\$ 19,323,520.82	
	Public Treasurers Investment Fund	Capital Projects	03/01/23	03/31/23	4.80%	3,877,006.16	
	Public Treasurers Investment Fund	Bond Project Funds	03/01/23	03/31/23	4.80%	19,375,468.66	
	Public Treasurers Investment Fund	Development Fee	03/01/23	03/31/23	4.80%	514,886.14	
	Total Capital Funds						\$ 43,090,881.78
Reserve Funds	Public Treasurers Investment Fund	Self Insurance	03/01/23	03/31/23	4.80%	\$ 5,170,032.05	
	Public Treasurers Investment Fund	JVWTP Maintenance	03/01/23	03/31/23	4.80%	94,065.89	
	Public Treasurers Investment Fund	Bond R&R	03/01/23	03/31/23	4.80%	169,993.41	
	Public Treasurers Investment Fund	JA Maintenance	03/01/23	03/31/23	4.80%	123,514.74	
	Public Treasurers Investment Fund	Revenue Stabilization	03/01/23	03/31/23	4.80%	8,572,790.00	
	Total Reserve Funds						\$ 14,130,396.09
Restricted Funds	Zions Bank (Trustee) - US Treasury Notes	B-1 Bond Debt Serv Res	Varies	Varies	0.57%	\$ 4,926,003.30	
	Zions Bank (Trustee) - US Treasury Notes	2009C Bond Debt Serv Res	Varies	Varies	0.57%	161,312.47	
	Total Restricted Funds						\$ 5,087,315.77
TOTAL ALL FUNDS						\$ 89,092,250.75	

JORDAN VALLEY WATER CONSERVANCY DISTRICT
BALANCE SHEET - MARCH 2023

MODIFIED ACCRUAL BASIS - UNAUDITED

	<u>MARCH 2023</u>	<u>MARCH 2022</u>
ASSETS		
<i>Current Assets:</i>		
Cash & Cash Equivalents (Note 1)	\$ 64,629,956	\$ 62,402,850
Accounts Receivable	3,896,254	2,876,125
Inventory	<u>654,868</u>	<u>615,769</u>
Total Current Assets	69,181,078	65,894,744
<i>Restricted Assets:</i>		
Cash & Investments	24,462,784	48,889,067
<i>Long-Term Assets:</i>		
Long-Term Receivables	-	-
Other Assets	8,565,423	2,753,730
Property, Plant & Equipment (Net)	<u>578,518,686</u>	<u>555,396,225</u>
Total Long-Term Assets	<u>587,084,109</u>	<u>558,149,955</u>
Total Assets	<u>\$ 680,727,971</u>	<u>\$ 672,933,765</u>
LIABILITIES & FUND EQUITY		
<i>Current Liabilities:</i>		
Accounts Payable	\$ 0	\$ 596,629
Other Current Liabilities	<u>1,524,360</u>	<u>1,690,204</u>
Total Current Liabilities	1,524,360	2,286,833
<i>Long-Term Liabilities:</i>		
Bonds and Notes Payable	312,532,852	322,141,033
Other Long-Term Liabilities	<u>8,247,331</u>	<u>10,330,783</u>
Total Long-Term Liabilities	<u>320,780,183</u>	<u>332,471,816</u>
Total Liabilities	322,304,543	334,758,648
Total Net Position	<u>358,423,428</u>	<u>338,175,117</u>
Total Liabilities & Net Position	<u>\$ 680,727,971</u>	<u>\$ 672,933,765</u>

Note 1: Cash and cash equivalents totalling \$37,976,091 have been committed for; replacement reserve \$19,323,521, capital projects \$3,877,006, development fee \$514,886, general equipment \$517,856, self insurance reserve \$5,170,032 and revenue stabilization fund \$8,572,790.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
IMPACT FEE SUMMARY - MARCH 2023

CASH BASIS - UNAUDITED

<u>Date</u>	<u>Payee</u>	<u>Subdivision/Lot#</u>	<u>Area</u>	<u>Amount</u>
03/02/23	Shadow Mountain IV, LTD	3350 S. 500 W.		\$ 8,305.00
03/15/23	University of Utah	3300 S. 900 W.		64,782.00
03/16/23	Richard Morgan	3452 S. 500 W.		16,611.00
03/24/23	Salt Lake Baking Co.	Refund - using a smaller line		(13,381.35)

Total Fees Collected March \$ 76,316.65

Total Fees Collected Fiscal YTD \$ 203,053.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CHECK REGISTER - REVENUE ACCOUNT

For the Period March 01, 2023 Through March 31, 2023

CHECK NO.	CHECK DATE	VENDOR NAME	CHECK AMOUNT
71927	3/3/23	3713 HOLDINGS, LLC AS TRUSTEE	\$27.00
71928	3/3/23	CATAMOUNT PROPERTIES 2018, LLC	36.20
71929	3/3/23	MEAD, MICHAEL K	65.00
71930	3/3/23	ROTHACHER, CONNIE	19.82
71931	3/3/23	SAMPSON, CRAIG & NANCY	24.52
71932	3/3/23	BAXENDELL GREGOR PROPERTIES	19.00
71933	3/3/23	BOARD OF EDUCATION OF THE GRANITE SCI	3.07
71934	3/3/23	GORDON, JOHN M	3.00
71935	3/3/23	KHAN, AHMAD	16.70
71936	3/3/23	NOLAND & SONS CONSTRUCTION	41.86
71937	3/3/23	SALT LAKE EXCAVATING	31.53
71938	3/3/23	WEATHER OR NOT CAR WASH	183.26
71939	3/9/23	CHALLIS, DONALD	7.53
71940	3/9/23	GRANITE SCHOOL DISTRICT	13.06
71941	3/9/23	SOLARI, BRENDA	56.00
71942	3/9/23	CONTI, DOMINIC	6.16
71943	3/9/23	CONTI, DOMINIC	18.84
71944	3/9/23	BAXENDELL GREGOR PROPERTIES	6.00
71945	3/9/23	JCOR PROPERTIES, LLC	14.00
71946	3/9/23	PENTALON CORPORATION	1,443.75
71947	3/9/23	WHITNEY, ROBERT	17.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CHECK REGISTER - REVENUE ACCOUNT

For the Period March 01, 2023 Through March 31, 2023

CHECK NO.	CHECK DATE	VENDOR NAME	CHECK AMOUNT
71948	3/20/23	200210412 IRA, EQUITY TRUST COMPANY CU:	\$21.99
71949	3/20/23	AMERICAN WEST ANALYTICAL LABS	20.00
71950	3/20/23	DOUMA, STEPHEN AUSTIN	15.42
71951	3/20/23	JENSEN, RICHARD TRAVIS	21.26
71952	3/20/23	LEWIS, JEFFERY	19.77
71953	3/20/23	PLATT, LINDA KAY	40.00
71954	3/20/23	PROPERTY SELLER SOLUTIONS	40.00
71955	3/20/23	SHELLEY, ALINDA	38.84
71956	3/24/23	SALT LAKE BAKING COMPANY. C/O JED FOX	13,381.35
71957	3/24/23	JAMESON, JANET	47.00
71958	3/24/23	POWERS, NELSON G	97.00
71959	3/24/23	TRUMP, ETHAN J & JESSICA R	32.26
71960	3/28/23	ARDEN LIMITED PARTNERSHIP	17.00
71961	3/28/23	BENSON - DUNCAN, LINDA	1,089.14
71962	3/28/23	CUMMINGS DOROTHY L	335.43
71963	3/28/23	EAKLE, JARED	13.24
71964	3/28/23	JCOR PROPERTIES, LLC	16.32
71965	3/28/23	PACIFIC CENTURY DEVELOPMENT LLC SERIE	41.26
71966	3/28/23	PERKOVIC, VIKTOR & MARIA	9.71
71967	3/28/23	PMC VENTURES LLC	36.50
71968	3/31/23	JCOR PROPERTIES, LLC	6.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CHECK REGISTER - REVENUE ACCOUNT

For the Period March 01, 2023 Through March 31, 2023

CHECK NO.	CHECK DATE	VENDOR NAME	CHECK AMOUNT
71969	3/31/23	JENSEN, RICHARD TRAVIS	\$8.74
71970	3/31/23	LEWIS, JEFFERY	20.23
71971	3/31/23	RUESCH, MELISSA	100.00
71972	3/31/23	SCHOFIELD, WHITNEY	4.58
71973	3/31/23	WADSWORTH, LAURIE	49.96
REPORT TOTAL:			<u><u>\$17,576.30</u></u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178574	3/8/23	ALLREDS INC 81000570 5380	THERMOSTATS FOR WELL HOUSES	189.30	\$189.30
178575	3/8/23	CHILD SUPPORT SERVICES 11000200 2135	022823	529.00	529.00
178576	3/8/23	DANIEL L CLAYPOOL 80000570 5290	RWUA	502.08	502.08
178577	3/8/23	DOMINION ENERGY	51000650 5420 8215 S TEMPLE DR 75500590 5420 3200 W 6200 S 1 75500590 5420 4400 S 4800 W REAR 75500590 5420 5820 S 3600 W 73000590 5420 8215 S TEMPLE DR	8,208.20 111.15 241.93 763.30 2,052.05	11,376.63
178578	3/8/23	ERIKS NORTH AMERICA 81000570 5360	FITTINGS AND HOSES	66.15	66.15
178579	3/8/23	GENEVA ROCK PRODUCTS INC 82000570 5380	ROADBASE	140.60	140.60
178580	3/8/23	IDENTIFIX 90000650 5230	12 MO. VEHICLE MAINTENANCE & R	1,428.00	1,428.00
178581	3/8/23	MIKE LORENC 62000570 5290	NORTHWEST FLOWER EXPO	789.19	789.19
178582	3/8/23	NAPA GENUINE AUTO PARTS COMPANY 81072570 5380	INNER TUBE FOR SALT SPREADER S	7.76	7.76
178583	3/8/23	NATIONAL BENEFIT SERVICES HRA 11000200 2135	PAYROLL 022823	1,220.01	1,220.01
178584	3/8/23	NATIONAL BENEFIT SERVICES HRA 11000200 2135	ADMIN FEES	460.20	460.20
178585	3/8/23	REAMS FOOD STORES 75000590 5170	SAFETY BOOTS	130.50	130.50
178586	3/8/23	REPUBLIC SERVICES INC	83000570 5350 MAINTENANCE 72072570 5350 SERWTP 73073570 5350 SWGWTP 71071570 5350 JVVTP 51000650 5350 ADMIN 62000570 5350 EDUCATION	513.46 242.83 329.12 374.13 204.27 694.71	2,358.52
178587	3/8/23	TOOLSHED INC 81000570 5310 81071570 5360	BATTERIES FOR THERMOSTATS, PRO PROPANE FOR HEATER	188.22 347.42	535.64

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178588	3/8/23	ROCKY MOUNTAIN POWER			\$90,090.78
		75316590 5410	175509260055	61.78	
		75324590 5410	175509260121	187.58	
		75317590 5410	175509260170	107.35	
		72000590 5410	175509260188	6,485.83	
		75318590 5410	175509260220	210.27	
		75605590 5410	175509260246	14.40	
		75704590 5410	175509260261	19.68	
		71000590 5410	175509260287	22,150.95	
		75328590 5410	175509260329	387.70	
		75607590 5410	175509260352	30.87	
		75308590 5410	175509260386	34.42	
		75608590 5410	175509260394	29.13	
		75601590 5410	217351760012	19.92	
		75773590 5410	227856660021	183.30	
		75514590 5410	227856660120-020923	37,850.44	
		75701590 5410	253216260013	82.86	
		75509590 5410	259822160018	6,902.76	
		75317590 5410	311522760017	150.13	
		75611590 5410	311522760025	15.58	
		75626590 5410	311522760033	21.81	
		75625590 5410	311522760041	15.34	
		75618590 5410	311522760066-022023	14.98	
		75340590 5410	311522760074	604.51	
		75623590 5410	311522760165	2.51	
		75338590 5410	311522760199	684.88	
		75339590 5410	311522760298	536.10	
		75746590 5410	311522760330	28.94	
		75632590 5410	311522760454	34.28	
		75619590 5410	311522760470	19.68	
		75217590 5410	311522760512	5,276.58	
		75634590 5410	311522760629	14.52	
		75517590 5410	325517860012	56.59	
		75320590 5410	326593760019	239.77	
		75517590 5410	329228560010	68.73	
		75332590 5410	333110760050	145.71	
		75301590 5410	333822660010	2,580.67	
		75319590 5410	376190160014	355.88	
		75617590 5410	377120460078	36.15	
		75615590 5410	377120460094	1.43	
		75633590 5410	377120460102	45.89	
		75325590 5410	91174903019	204.82	
		75513590 5410	913799040021	395.25	
		75330590 5410	913799040047	3,780.81	
178589	3/8/23	SALT LAKE CEMENT CUTTING INC			180.00
		82000570 5380	ROADCUTS	180.00	
178590	3/8/23	SALT LAKE COUNTY ENGINEERING			VOID
178591	3/8/23	SANDY CITY			179.91
		75300590 5430	1147 WEBSTER	8.98	
		75300590 5430	1443 E 9400 S	17.96	
		75300590 5430	1784 CREEK RD	14.98	
		75300590 5430	1787 CREEK RD	8.98	
		75300590 5430	2580 E 9800 S	102.03	
		75300590 5430	7618 S 700 E	26.98	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178592	3/8/23	STANDARD PLUMBING SUPPLY 81072570 5380	BRASS NIPPLES BALL VALVE AND G	28.04	\$28.04
178593	3/8/23	UPHOLSTERY WEST INC 81000570 5330	RECOVERED SEAT.	300.00	300.00
178594	3/8/23	UTAH WILDFLOWER CO,LLC 62000570 5670	LOCALSCAPES DESIGNER REWARDS (REPL/	45.84	45.84
178595	3/13/23	ACCURINT 51000650 5170	MONTHLY PEOPLE SEARCH SERVICE	225.00	225.00
178596	3/13/23	AFLAC PREMIUM HOLDING 11000200 2135	PAYROLL	969.08	969.08
178597	3/13/23	ALAN E PACKARD 51000650 5290	NWRA	842.80	842.80
178598	3/13/23	ALLSTREAM 51000650 5450 71000590 5450 72000590 5430 70100590 5450	8215 S 1300 W 15305 S 3200 W 15305 S 3200 W 15305 S 3200 W	1,040.26 933.59 51.00 50.34	2,075.19
178599	3/13/23	BONNEVILLE INDUSTRIAL SUPPLY COMPANY 83000570 5350	NITRILE GLOVES	380.80	380.80
178600	3/13/23	BRIAN MCCLEARY 51000650 5290	UGFOA	471.32	471.32
178601	3/13/23	COTTONWOOD IMPROVEMENT DISTRICT 75300590 5430	9785 EASTDELL DR	60.00	60.00
178602	3/13/23	DAVID BERATTO 80000570 5290	ASSP	497.80	497.80
178603	3/13/23	DRAPER CITY 75300590 5430	108 E 11400 S	7.00	7.00
178604	3/13/23	GENERAL COMMUNICATIONS INC 90000190 6010	EDUCATION CENTER AV UPGRADES	22,075.96	22,075.96
178605	3/13/23	LABORIE 11000188 6010 4225	DISTRIBUTION PIPELINE REPLACEM	3,000.00	3,000.00
178606	3/13/23	LEHI CITY CORPORATION 70101590 5410 70101590 5410	1250 E SR92 NE CORNER SR92	29.30 29.20	58.50
178607	3/13/23	LINDE GAS & EQUIPMENT 78000590 5720	NITROGEN FOR GC	164.90	164.90
178608	3/13/23	MT OLYMPUS IMPROVEMENT DISTRICT 75501590 5430	2981 BRANCH DR	138.00	138.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178609	3/13/23	ROCKY MOUNTAIN POWER			\$118,927.00
		51000650 5410	377120460037	2,907.76	
		75702590 5410	364292260015	37.95	
		75703590 5410	322497360014	175.12	
		75744590 5410	37712460060	15.94	
		75745590 5410	311522760504	37.84	
		75771590 5410	557994860020	61.40	
		80000570 5410	377120460037	2,907.77	
		72211590 5410	321644760019	22.87	
		72211590 5410	913799040088	17.71	
		73000590 5410	377120460037	21,415.03	
		75101590 5410	261824160012	2,055.68	
		75201590 5410	175509260113	23.93	
		75212590 5410	311522760553	1,683.78	
		75213590 5410	311522760223	1,578.40	
		75214590 5410	311522760538	2,749.90	
		75215590 5410	311522760579	3,223.13	
		75216590 5410	311522760561	4,955.83	
		75302590 5410	333821260010	185.39	
		75303590 5410	333819860011	67.42	
		75305590 5410	175509260139	18.05	
		75306590 5410	333119160013	90.60	
		75341590 5410	311522760603	137.30	
		75307590 5410	175509260204	34.42	
		75314590 5410	333107260015	10.86	
		75316590 5410	175509260048	159.54	
		75320590 5410	326716960017	77.53	
		75327590 5410	377120460045	60,112.82	
		75331590 5410	175509260337	301.49	
		75334590 5410	311522760215	596.49	
		70101590 5410	55799486012	1,698.48	
		75336590 5410	261824160053	10,100.55	
		75507590 5410	175509260196	400.51	
		75516590 5410	227856660146	1,050.87	
		75612590 5410	37713166021	14.64	
178610	3/13/23	SOUTH JORDAN CITY			122.80
		75300590 5430	10932 S 2700 WAY	30.00	
		75300590 5430	9911 S 2700 W LAND	60.00	
		52000570 5400	10305 S 3200 W	32.80	
178611	3/13/23	SOUTH VALLEY SEWER DISTRICT			375.32
		75300590 5430	3145 W 11400 S	25.39	
		75300590 5430	3257 W CURRENT CREEK	25.39	
		75501590 5430	10621 S 1300 W	25.39	
		75501590 5430	10932 S 2700 W	25.39	
		75501590 5430	11059 S 1300 W	25.39	
		75501590 5430	9816 S 1300 W	25.39	
		75501590 5430	9816 S 1300 W 1	25.39	
		75501590 5430	9911 S 2700 W	25.39	
		71000590 5430	15305 S 3200 W	113.20	
		72000590 5430	11574 WYNDCASTLE NEW	34.00	
		72000590 5430	11574 WYNDCASTLE OLD	25.00	
178612	3/13/23	T & R CONCRETE			1,537.50
		83072570 5360	SNOW REMOVAL FOR FEBRUARY	1,537.50	
178613	3/13/23	THE BLIND DOCTORS			220.00
		83000570 5350	REPAIR OF BLINDS IN THE ADMINI	220.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178614	3/13/23	UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY 11000186 6010 4276	11800 SOUTH ZONE C RESERVOIR	550.00	\$550.00
178615	3/13/23	UTAH DEPT OF WORKFORCE SERVICE 51000650 5165	UNEMPLOYMENT INSURANCE-CONTRIB	56.35	56.35
178616	3/13/23	VALLEY GLASS COMPANY 83072570 5350	NEW WINDOW FOR OFFICE AT SERWT	1,022.00	1,022.00
178617	3/13/23	WATER SYSTEMS ENGINEERING, INC. 11000180 6010 4076	WELL PERFORMANCE AND CONDITION	570.00	570.00
178618	3/13/23	WEST JORDAN CITY 51000650 5410 51000650 5430 51000650 5430 51000650 5440	8275 S 1300 W 8215 S 1300 W 8275 S 1300 W 8275 S 1300 W	5.22 1,303.97 58.14 1,439.55	2,806.88
178619	3/13/23	WEST VALLEY CITY 75300590 5430	VARIOUS LOCATIONS	186.00	186.00
178620	3/13/23	ZAYO GROUP LLC 90000650 5230	8215 S 1300 W	1,577.91	1,577.91
178621	3/13/23	ZIONS BANK 51000650 5286	QUARTERLY REMARKETING AGREEMEN	9,181.38	9,181.38
178622	3/21/23	AFLAC PREMIUM HOLDING 11000200 2135	PAYROLL	913.79	913.79
178623	3/21/23	ANNETTE MILLS 78000590 5290	RWAU	502.08	502.08
178624	3/21/23	B-S COMPANY INC 81000570 5380	2 20 INCH 300# FLANGES FOR 114	2,300.00	2,300.00
178625	3/21/23	CASEY CANNON 75000590 5290	RWAU	456.32	456.32
178626	3/21/23	CENTURYLINK / LUMEN 90000650 5230 90071650 5230 90072650 5230 90101650 5230	VARIOUS LOCATIONS VARIOUS LOCATIONS VARIOUS LOCATIONS VARIOUS LOCATIONS	485.57 485.57 962.68 1,143.03	3,076.85
178627	3/21/23	CHILD SUPPORT SERVICES 11000200 2135	031523	529.00	529.00
178628	3/21/23	CYNTHIA BEE 60000650 5290	SOCIAL MEDIA CONFERENCE	1,710.64	1,710.64

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178629	3/21/23	DOMINION ENERGY			\$1,791.96
		75300590 5420	1200 E 9400 S	75.10	
		75300590 5420	1845 CREEK RD	122.22	
		75300590 5420	2400 CREEK RD	312.98	
		75300590 5420	4770 NANILOA	96.48	
		75300590 5420	7618 S 700 E	313.19	
		75300590 5420	7700 S 700 E	236.72	
		75300590 5420	7781 S 1300 E	221.44	
		75300590 5420	7800 S 1000 E	139.97	
		75300590 5420	8153 S 700 E	140.41	
		75300590 5420	8200 S 1000 E	133.45	
178630	3/21/23	EDUARDO CRACCHIOLO			502.08
		72000590 5290	RWAU	502.08	
178631	3/21/23	ELLIOTT AUTO SUPPLY COMPANY INC			29.08
		81000570 5330	EVAP VALVE FOR 708	29.08	
178632	3/21/23	GORDON BATT			502.08
		70000590 5290	RWAU	502.08	
178633	3/21/23	JEFF KING			216.00
		70000590 5290	ISC	216.00	
178634	3/21/23	JONATHAN HILBERT			502.08
		77000590 5290	RWAU	502.08	
178635	3/21/23	JORDAN MOWER INC			56.92
		81000570 5330	BELT AND PULLY FOR SNOW BLOWER	56.92	
178636	3/21/23	JORDAN TOMSIC			289.00
		90000650 5290	IWCE	289.00	
178637	3/21/23	KYLE CHAPMAN			289.00
		90000650 5290	IWCE	289.00	
178638	3/21/23	MATT OLSEN			218.00
		51000650 5290	UWUW	218.00	
178639	3/21/23	NAPA GENUINE AUTO PARTS COMPANY			1,606.53
		81000570 5330	AIR AND OIL FILTERS, BATTERY'S	680.96	
		81000570 5330	BATTERY'S, FILTER'S, BRAKE PAD	468.51	
		81000570 5330	PARTS AND SUPPLY'S FROM NAPA	457.06	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178640	3/21/23	ROCKY MOUNTAIN POWER			\$2,166.94
		75635590 5410	377131660047	32.59	
		52000570 5400	311522760132	22.31	
		52000570 5400	311522760405	24.83	
		52000570 5400	31152276124	23.13	
		75202590 5410	287176760018	25.94	
		75203590 5410	175509260063	11.34	
		75208590 5410	175509260014	31.13	
		75209590 5410	175509260253	40.09	
		75321590 5410	326716260012	1,176.85	
		75706590 5410	311522760611	28.90	
		75501590 5410	175509260030	212.64	
		75602590 5410	227856660013	28.65	
		75609590 5410	175509260022	27.35	
		75613590 5410	227856660039	40.42	
		75620590 5410	227856660138	325.69	
		75621590 5410	311522760157	19.12	
		75622590 5410	311522760181	15.94	
		75629590 5410	377220560033	17.46	
		75630590 5410	311522760363	23.46	
		75631590 5410	311522760462	39.10	
178641	3/21/23	RYLAN JAMES WALKER			502.08
		71000590 5290	RWAW	502.08	
178642	3/21/23	SALT LAKE COUNTY ENGINEERING			281.25
		82000570 5380	SALT LAKE COUNTY EXCAVATION PE	281.25	
178643	3/21/23	STAN GRUNDY			669.44
		77000590 5290	RWAW	669.44	
178644	3/21/23	UACPA			370.00
		51000650 5290	ANNUAL MEMBERSHIP DUES - DAVID	370.00	
178645	3/21/23	UTAH BUREAU OF CRIMINAL IDENTIFICATION			66.50
		51000650 5170	EMPLOYEE BACKGROUND CHECK	66.50	
178646	3/21/23	UTAH DIVISION OF WATER RIGHTS			2,379.98
		70000510 5820	2023 WATER DIST ASSESS ACCT NO	2,379.98	
178647	3/21/23	UTAH STATE TAX COMMISSION			42,332.56
		11000200 2240	PAYROLL 031523	42,332.56	
178648	3/21/23	VEHICLE LIGHTING SOLUTIONS INC			2,671.03
		81000198 6010	LIGHTS FOR F-150 #759	2,671.03	
178649	3/29/23	ALAN E PACKARD			267.32
		51000650 5290	UWUW	267.32	
178650	3/29/23	AUTOMATION-X CORPORATION			1,388.36
		91000570 5310	REPLACE RADIO AT 3300 SOUTH ST	1,388.36	
178651	3/29/23	BEVERLY M PARRY			267.32
		51000650 5290	UWUW	267.32	
178652	3/29/23	CHRISTENSEN & JENSEN PC			605.00
		51000650 5284	GENERAL ADJUDICATION	605.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178653	3/29/23	DIVISION OF WATER RIGHTS 52000650 5280	WR #57-3575	1,000.00	\$1,000.00
178654	3/29/23	DIVISION OF WATER RIGHTS 52000650 5280	WR #59-5771	670.00	670.00
178655	3/29/23	DIVISION OF WATER RIGHTS 52000650 5280	WR #59-5772	700.00	700.00
178656	3/29/23	DOMINION ENERGY 75500590 5420 75300590 5420 75300590 5420 71000590 5420 72000590 5420 72000590 5420 70100590 5420	110 E 11400 S 2300 E 9800 S 8663 S 1300 E 15305 S 3200 W 11574 WYNDCASTLE ACTI 11574 WYNDCASTLE FILT 17040 S 985 W	1,061.55 373.14 385.09 11,233.23 1,886.10 3,709.27 1,985.56	20,633.94
178657	3/29/23	DYKMAN ELECTRICAL INC 91000570 5310	BENSHAW SOFT STARTER FOR 57TH&	832.56	832.56
178658	3/29/23	ERIKS NORTH AMERICA 72072570 5380	20' TRANSFER HOSE	88.83	88.83
178659	3/29/23	GENEVA ROCK PRODUCTS INC 82000570 5380	ROADBASE	1,791.53	1,791.53
178660	3/29/23	HERRIMAN CITY 62000570 5670	MEMBER AGENCY GRANT - HERRIMAN	31,254.00	31,254.00
178661	3/29/23	HOUSE OF PUMPS 81072570 5380	SERWTP SAMPLE PUMP	600.54	600.54
178662	3/29/23	JACOB YOUNG 51000650 5290	UWUW	267.32	267.32
178663	3/29/23	JACOB YOUNG 51000650 5170	LICENSE RENEWAL FEE	74.00	74.00
178664	3/29/23	KEN GIKE 51000000 6210	REIMBURSE HOME RENTER FOR SAND	50.90	50.90
178665	3/29/23	LAYTON CITY 52000570 5400	997 W GENTILE	84.80	84.80
178666	3/29/23	LEGAL SHIELD 11000200 2135	PAYROLL 022823	1,313.80	1,313.80
178667	3/29/23	MARK STRATFORD 51000650 5290	UWUW	400.98	400.98
178668	3/29/23	MINDY KEELING 51000650 5290	UWUW	289.80	289.80
178669	3/29/23	NORTHWEST STANDARD CORPORATION 11000160 6010 3910	HEADQUARTERS CAMPUS SITE IMPRO	4,550.00	4,550.00
178670	3/29/23	PFM ASSET MANAGEMENT LLC 51000650 5280	MONTHLY INVESTMENT ADVISOR FEE	584.94	584.94

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178671	3/29/23	POSTMASTER 60000650 5250	RETAIL BILLING POSTAGE	3,800.00	\$3,800.00
178672	3/29/23	RAY QUINNEY & NEBEKER 51000650 5284	MATTER 15038-162	337.00	337.00
178673	3/29/23	RHINO LININGS OF UTAH 81000198 6010	#760 BED LINER, COVER, FLOOR M	1,781.35	1,781.35
178674	3/29/23	ROCKY MOUNTAIN POWER			48,886.15
		75704590 5410	175509260261	20.27	
		75746590 5410	311522760330	57.49	
		75773590 5410	227856660021	214.70	
		72000590 5410	175509260188	5,506.16	
		75213590 5410	311522760223	1,374.97	
		75214590 5410	311522760538	1,298.75	
		75216590 5410	311522760561	4,806.59	
		75301590 5410	333822660010	31.78	
		75308590 5410	175509260386	39.13	
		75317590 5410	175509260170	97.22	
		75317590 5410	311522760017	185.47	
		75318590 5410	175509260220	183.63	
		75319590 5410	376190160014	349.00	
		75320590 5410	326593760019	227.03	
		75327590 5410	377120460045	810.95	
		75328590 5410	175509260329	340.30	
		75338590 5410	311522760199	657.93	
		75339590 5410	311522760298	470.57	
		75340590 5410	311522760074	759.12	
		75504590 5410	266289460013	12,255.17	
		75512590 5410	175509260360	6,112.93	
		75513590 5410	913799040021	388.95	
		75514590 5410	227856660120	8,390.33	
		75515590 5410	175509260410	4,148.60	
		75517590 5410	329228560010	73.17	
		75605590 5410	175509260246	14.16	
		75619590 5410	311522760470	19.22	
		75626590 5410	311522760033	21.01	
		75632590 5410	311522760454	31.55	
178675	3/29/23	SANDY CITY 52000570 5400	579 W 9400 S	8.98	8.98
178676	3/29/23	SAVIDTRI THANASILP 78000590 5290	AGILENT TRAINING	259.00	259.00
178677	3/29/23	SELECTHEALTH 51000650 5135	PAYROLL 022823	246,986.10	246,986.10
178678	3/29/23	SIGMA-ALDRICH INC 78000590 5720	HAAS SOLVENT	181.24	181.24
178679	3/29/23	TROY TUCKER 80000570 5290	RWUA	100.36	100.36
178680	3/29/23	TYLER TECH 90000650 5230	ANNUAL MUNIS SOFTWARE MAINTENA	63,127.48	63,127.48

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
178681	3/29/23	UTAH DIVISION OF GOV.OPERATIONS 81000570 5340	FEBRUARY FUEL BILL	14,184.22	\$14,184.22
178682	3/29/23	VALLEY DESIGN & CONSTRUCTION			VOID
178683	3/29/23	VEHICLE LIGHTING SOLUTIONS INC 81000198 6010	SAFETY LIGHTS FOR #757 DODGE E	2,729.44	2,729.44
178684	3/29/23	WEST JORDAN CITY 51000650 5410 51000650 5430 51000650 5430 51000650 5440	8275 S 1300 W 8215 S 1300 W 8275 S 1300 W 8275 S 1300 W	5.22 1,504.61 58.14 1,439.55	3,007.52
178685	3/29/23	ZIONS BANK 51000650 5286 51000650 5286	2009C BOND ANNUAL TRUSTEE FEE 2019A BOND ANNUAL TRUSTEE FEE	1,500.00 2,000.00	3,500.00
503602 EFT	3/3/23	ACTION LOCKSMITH 81000570 5330	REPLACEMENT KEY OR EXTRA FOR	18.00	18.00
503603 EFT	3/3/23	BATTERY SYSTEMS 91000570 5310 91101570 5310	UPS BATTERY REPLACEMENTS UPS BATTERY REPLACEMENTS	582.60 1,165.20	1,747.80
503604 EFT	3/3/23	BARRETT BUSINESS SERVICES, INC 70000590 5110 52000650 5280	TEMP EMPLOYEE TIME TEMP EMPLOYEE TIME	1,472.80 2,008.66	3,481.46
503605 EFT	3/3/23	BIZWEAR 80000570 5170	UNIFORM ORDERS	51.00	51.00
503606 EFT	3/3/23	BLUE STAKES OF UTAH 82000570 5390	BLUE STAKES OF UTAH LOCATING E	2,204.10	2,204.10
503607 EFT	3/3/23	CARENOW 51000650 5170	DOT, PHYSICAL,RANDOMS & NEW HI	636.00	636.00
503608 EFT	3/3/23	CAROLLO ENGINEERS INC 11000182 6010 4212	JVWTP FILTER PILOTING (JVWTP E	1,910.25	1,910.25
503609 EFT	3/3/23	CDW GOVERNMENT INC 90000650 5230 90000650 5230 90000650 5230	HEADSET FOR JEFF BETTON IT SUPPLIES RESTOCK - DISPLAYP VEEAM BACKUP SOFTWARE SUBSCRIP	125.31 315.52 790.00	1,230.83
503610 EFT	3/3/23	CENTRAL UTAH WATER CONSERVANCY DISTRICT 77000590 5770	FY23 PRWC ANNUAL MEMBER CONTRI	88,000.00	88,000.00
503611 EFT	3/3/23	CHEMTECH-FORD INC 77071590 5770 77073590 5770 77000590 5770 77075590 5770	WATER QUALITY ANALYSIS WATER QUALITY ANALYSIS WATER QUALITY ANALYSIS WATER QUALITY ANALYSIS	150.01 939.99 150.01 2,469.99	3,710.00
503612 EFT	3/3/23	CODALE ELECTRIC SUPPLY INC 82101570 5380	UNI-STRUT & 2" STRUT CLAMPS FO	101.69	101.69

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503613	EFT 3/3/23	CORE & MAIN			\$2,547.00
		82000570 5380	2-2" BRASS CORP STOPS, 4-2" 90	947.40	
		82000570 5380	6" FLG X MJ GATE VALVE, 6" HYD	1,599.60	
503614	EFT 3/3/23	ELECSYS INTERNATIONAL CORPORATION			310.00
		90000650 5230	ELECSYS CATHODIC PROTECTION MO	62.00	
		90101650 5230	ELECSYS CATHODIC PROTECTION MO	248.00	
503615	EFT 3/3/23	FASTENAL COMPANY			946.17
		81000570 5330	FIRST AID KITS AND FIRE EXTING	946.17	
503616	EFT 3/3/23	HACH COMPANY			4,156.28
		91071570 5310	JVWTP SOLITAX PROBES NEED TO B	3,854.92	
		71000590 5720	LAB MATERIALS	176.44	
		72000590 5720	(2) GALLONS BUFFER SOLUTION	124.92	
503617	EFT 3/3/23	IDEXX LABORATORIES INC			5,124.01
		78000590 5720	MICRO SUPPLIES	5,124.01	
503618	EFT 3/3/23	KILGORE COMPANIES, LLC			902.90
		82000570 5380	ASPHALT & SPOILS	902.90	
503619	EFT 3/3/23	LARRY H MILLER FORD			248.85
		81000570 5330	BUMPER PARTS 748, HOSE,SEALS A	248.85	
503620	EFT 3/3/23	LIFE TECHNOLOGIES CORPORATION			152.20
		78000590 5720	LABORATORY SUPPLIES	152.20	
503621	EFT 3/3/23	METROPOLITAN WATER DISTRICT			63,320.15
		70000510 5810	MWDSLS JANUARY 2023 WATER DELI	38,313.95	
		70000510 5810	POM FINISHED WATER RESERVOIR O	25,006.20	
503622	EFT 3/3/23	MOUNTAINLAND SUPPLY COMPANY			3,864.50
		81000570 5380	WATER HEATER FOR JVWTP AND VAL	323.96	
		81071570 5380	WATER HEATER FOR JVWTP AND VAL	3,540.54	
503623	EFT 3/3/23	PECZUH PRINTING			1,264.00
		62000570 5270	YARD SIGNS FOR CONSERVATION PR	1,264.00	
503624	EFT 3/3/23	PILOT THOMAS LOGISTICS			1,814.59
		75000570 5360	500 GALLONS OF DIESEL FOR 32&6	1,814.59	
503625	EFT 3/3/23	SPRINKLER SUPPLY COMPANY			380.46
		82101570 5380	2" & 1 1/2" PVC PIPE & FITTING	380.46	
503626	EFT 3/3/23	SUNRISE ENGINEERING, INC			1,500.00
		62000140 6010	CONSERVATION GARDEN COMPOSITE	1,500.00	
503627	EFT 3/3/23	TALISMAN CIVIL CONSULTANTS			10,487.50
		11000160 6010 3910	HEADQUARTERS CAMPUS SITE IMPRO	10,487.50	
503628	EFT 3/3/23	THE DATA CENTER			1,868.30
		60000650 5250	FEBRUARY '23 BILLING	1,868.30	
503629	EFT 3/3/23	UNION PACIFIC RAILROAD COMPANY			50.00
		51000570 5360	RIGHT OF WAY	50.00	
503630	EFT 3/3/23	UTAH BARRICADE COMPANY INC			25.00
		82000570 5380	TRAFFIC CONTROL PLAN	25.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503631	EFT 3/3/23	VEOLIA WTS SERVICES USA, INC 78000590 5720	DI WATER SUPPLIES	88.65	\$88.65
503632	EFT 3/3/23	WASATCH STEEL 75001570 5380	1 INCH SCH 40 PIPE	34.04	34.04
503633	EFT 3/3/23	WATERFORD SERVICES, LLC 75000590 5710	24 QTY BUCKETS SHIPPED TO JVWC	4,689.41	4,689.41
503634	EFT 3/3/23	WEST WIND LITHO 62000570 5270	2023 SPRING CLASS BILL STUFFER	3,193.35	3,193.35
503635	EFT 3/3/23	WINMARK STAMP & SIGN INC 83000570 5350	NAME PLATES FOR VALERIE AND MA	55.25	55.25
503636	EFT 3/10/23	BARRETT BUSINESS SERVICES, INC 70000590 5110 52000650 5280	TEMP EMPLOYEE TIME TEMP EMPLOYEE TIME	2,393.30 3,419.00	5,812.30
503637	EFT 3/10/23	BIZWEAR 91000570 5170 80000570 5260 70000590 5170 73000590 5170 71000590 5170	EMPLOYEE UNIFORMS NEW HIRE SAFETY SHIRTS EMPLOYEE UNIFORM EMPLOYEE UNIFORMS EMPLOYEE UNIFORMS	15.50 503.50 26.00 102.95 65.75	713.70
503638	EFT 3/10/23	FINLINSON & FINLINSON PLLC 51000650 5284	LEGISLATIVE CONTRACT	22,905.00	22,905.00
503639	EFT 3/10/23	HACH COMPANY 91000570 5310 91071570 5310 91072570 5310 91073570 5310 71000590 5720 72000590 5720	PH SALT BRIDGE FOR PH SENSOR PH SALT BRIDGE FOR PH SENSOR PH SALT BRIDGE FOR PH SENSOR PH SALT BRIDGE FOR PH SENSOR LAB TESTING MATERIALS CHEMICALS FOR LAB TESTING	2,576.78 1,194.18 459.30 459.30 322.73 186.65	5,198.94
503640	EFT 3/10/23	IDEXX LABORATORIES INC 78000590 5720	MICRO SUPPLIES	5,124.01	5,124.01
503641	EFT 3/10/23	KILGORE COMPANIES, LLC 82000570 5380	ASPHALT	705.00	705.00
503642	EFT 3/10/23	OLYMPUS SAFETY & SUPPLY LLC 71071570 5360	SCBA YEARLY MAINTENANCE	540.00	540.00
503643	EFT 3/10/23	ROCKY MOUNTAIN VALVES & AUTOMATION 82000570 5380	2-PRATT BFV GEAR OPERATOR FOR	266.00	266.00
503644	EFT 3/10/23	STATE FIRE 83000570 5360	FIRE EXTINGUISHER PICK UP	40.00	40.00
503645	EFT 3/10/23	TRAILBLAZER CONTROLS CORPORATION 91000570 5310 91000570 5310 91071570 5310 91072570 5310 91073570 5310	FLUORIDE BUFFER SOLUTION FLUORIDE ELECTRODE SENSOR FLUORIDE ELECTRODE SENSOR FLUORIDE ELECTRODE SENSOR FLUORIDE ELECTRODE SENSOR	787.00 429.41 570.87 570.87 570.85	2,929.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503646	EFT 3/10/23	VANGUARD CLEANING SYSTEMS OF UTAH			\$7,105.20
		83071570 5360	JANITORIAL SERVICES (FISCAL YE	1,502.25	
		83072570 5360	JANITORIAL SERVICES (FISCAL YE	577.80	
		83073570 5360	JANITORIAL SERVICES (FISCAL YE	396.90	
		83000570 5360	JANITORIAL SERVICES (FISCAL YE	4,628.25	
503647	EFT 3/10/23	WW GRAINGER			348.54
		75001570 5380	WATERPROOF BOX	348.54	
503648	EFT 3/17/23	ADVANCED ENGINEERING & ENVIRONMENTAL SERVICES			11,402.50
		11000182 6010 4284	SERWTP B-POLYMER SYSTEM IMPROV	11,402.50	
503649	EFT 3/17/23	AMERICAN POWER SYSTEMS			5,238.00
		90078650 5230	UPS BATTERY REPLACEMENT - JVWT	5,238.00	
503650	EFT 3/17/23	BARRETT BUSINESS SERVICES, INC			3,682.53
		70000590 5110	GARDEN & TEMP EMPLOYEES TIME	1,242.68	
		52000650 5280	GARDEN & TEMP EMPLOYEES TIME	1,965.92	
		62000570 5350	GARDEN & TEMP EMPLOYEES TIME	338.32	
		62000570 5350	GARDEN TEMP EMPLOYEE TIME	135.61	
503651	EFT 3/17/23	BENJAMIN ALBERT			668.64
		62000570 5670	LOCALSCAPES REWARDS PAYMENT	668.64	
503652	EFT 3/17/23	BOWEN COLLINS & ASSOCIATES			1,706.50
		11000180 6010 4242	WELL DEVELOPMENT & TEST PUMPIN	1,706.50	
503653	EFT 3/17/23	BROWN AND CALDWELL CORP.			7,168.89
		11000182 6010 4138	JVWTP SEDIMENTATION BASINS EQU	7,168.89	
503654	EFT 3/17/23	CHEMTECH-FORD INC			4,054.00
		77071590 5770	WATER QUALITY ANALYSIS	184.99	
		77072590 5770	WATER QUALITY ANALYSIS	352.99	
		77073590 5770	WATER QUALITY ANALYSIS	3,118.99	
		77000590 5770	WATER QUALITY ANALYSIS	149.99	
		77075590 5770	WATER QUALITY ANALYSIS	247.04	
503655	EFT 3/17/23	CORRIO CONSTRUCTION, INC.			225,093.41
		11000184 6010 4283 11400 S REDWOOD SOUTH JORDAN M		86,486.35	
		11000188 6010 4204 ZONE D CHEMICAL FEED FACILITY		138,607.06	
503656	EFT 3/17/23	ENDRESS + HAUSER INC			5,591.44
		75001570 5380	10 INCH MAG METER REPLACEMENT	5,591.44	
503657	EFT 3/17/23	ENVIRONMENTAL RESOURCE ASSOCIATES			1,737.01
		78000590 5720	WS & WP PT STUDIES FOR AUG 202	1,737.01	
503658	EFT 3/17/23	FERGUSON ENTERPRISES LLC			2,607.20
		82000570 5380	2- 1-1/2" SETTERS & 20- CTS ST	2,607.20	
503659	EFT 3/17/23	GRAYBAR ELECTRIC COMPANY INC			450.74
		91000570 5310	CONNECTORS FOR SD9 RADIOS	450.74	
503660	EFT 3/17/23	HACH COMPANY			120.00
		91073570 5310	WIPER BLADE FOR TURBIDITY CLEA	120.00	
503661	EFT 3/17/23	SARAH JEAN HALTERMAN			3,630.00
		60000650 5280	GRAPHIC DESIGN WORK FY 2022-20	3,630.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503662	EFT 3/17/23	HANSEN ALLEN & LUCE INC			\$20,429.95
		11000180 6010 4280	EQUIPPING OF 76&7 AND 78&10 WE	5,466.00	
		11000180 6010 4281	COLLEGE ST. WELL REPAIR	1,404.00	
		11000188 6010 4204	ZONE D CHEMICAL FEED FACILITY	13,559.95	
503663	EFT 3/17/23	HARRINGTON INDUSTRIAL PLASTICS LLC			227.86
		75000570 5380	MISC. PVC FITTINGS FOR AIR VAC	227.86	
503664	EFT 3/17/23	HEATH ENGINEERING COMPANY			5,635.00
		11000182 6010 4279	JVWTP BOILERS REPLACEMENT	2,160.00	
		11000182 6010 4279	JVWTP HIGH-RISE BOILERS REPLAC	3,475.00	
503665	EFT 3/17/23	HY-KO SUPPLY COMPANY			260.96
		83000570 5350	JANITORIAL SUPPLIES CAN LINERS	260.96	
503666	EFT 3/17/23	INDUSTRIAL SAFETY EQUIPMENT			617.00
		91071570 5310	CHLORINE REPLACEMENT SENSOR	617.00	
503667	EFT 3/17/23	INDUSTRIAL SUPPLY			609.62
		80000570 5260	ANTI-SEIZE, TEFLON TAPE, EARPL	202.80	
		82000570 5360	ANTI-SEIZE, TEFLON TAPE, EARPL	406.82	
503668	EFT 3/17/23	JOHNSON CONTROLS INC			480.13
		81072570 5380	REPAIR ON FIRE ALARM SYSTEM	480.13	
503669	EFT 3/17/23	KILGORE COMPANIES, LLC			1,037.01
		83000570 5350	BULK SALT FOR SNOW AND ICE REM	1,037.01	
503670	EFT 3/17/23	KONECRANES, INC.			1,037.00
		81071570 5380	CRANE REPAIR	1,037.00	
503671	EFT 3/17/23	LARRY H MILLER FORD			859.26
		51000000 6210	COST TO FIX DAMAGES TO VEHICLE	859.26	
503672	EFT 3/17/23	MARCUS G FAUST PC			3,000.00
		51000650 5284	PROFESSIONAL CONSULTING SERVIC	3,000.00	
503673	EFT 3/17/23	PROFESSIONAL PEST CONTROL LLC			320.00
		83073570 5350	PEST CONTROL FOR MARCH	50.00	
		83000570 5350	PEST CONTROL FOR MARCH	185.00	
		83100570 5350	PEST CONTROL FOR MARCH	85.00	
503674	EFT 3/17/23	RUST AUTOMATION & CONTROLS INC			385.79
		81071570 5380	CHLORINE FEEDER VALVE	385.79	
503675	EFT 3/17/23	SHERWIN-WILLIAMS COMPANY			500.00
		83000570 5350	WHITE PAINT FOR EPIES OFFICE	500.00	
503676	EFT 3/17/23	SPRINKLER SUPPLY COMPANY			128.95
		82000570 5380	2-2" X 12" BRASS NIPPLES FOR C	128.95	
503677	EFT 3/17/23	STATE FIRE			2,195.00
		83072570 5360	SERWTP FIRE SPRINKLER INSPECTI	380.00	
		83073570 5360	MAIN CAMPUS FIRE SPRINKLER INS	478.00	
		83000570 5360	MAIN CAMPUS FIRE SPRINKLER INS	957.00	
		83000570 5360	TERMINAL CL2 BLDG SPRINKLER IN	380.00	
503678	EFT 3/17/23	TALISMAN CIVIL CONSULTANTS			1,822.50
		11000160 6010 3910	HEADQUARTERS CAMPUS SITE IMPRO	1,822.50	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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503679	EFT 3/17/23	UINTAH FASTENER & SUPPLY LLC			\$130.00
		82000570 5380	BOLTS FOR 11400 S 700 W VALVE	25.00	
		75001570 5380	BOLTS; AND HEX NUTS	105.00	
503680	EFT 3/17/23	UTAH LAKE WATER USERS ASSOCIATION INC			1,406.44
		70000510 5810	ULWUA FEBRUARY 2023 MAINTENANC	689.19	
		70000510 5810	ULWUA JANUARY 2023 MAINTENANCE	717.25	
503681	EFT 3/17/23	UTAH YAMAS CONTROLS INC			427.98
		90000650 5230	SECURITY SYSTEM REPAIR AT THE	427.98	
503682	EFT 3/17/23	VANCON INC			2,447,776.97
		11000184 6010 4199	10200 S 3600 W PUMP STATION	769,414.50	
		11000182 6010 4277	JVWTP BASINS 3-6 UPGRADES	1,678,362.47	
503683	EFT 3/17/23	VWR INTERNATIONAL INC			954.44
		78000590 5720	LAB SUPPLIES FOR HAAS AND THMS	954.44	
503684	EFT 3/17/23	WATERFORD SERVICES, LLC			1,272.00
		75000590 5710	6 QTY ACCUTAB BUCKETS	1,272.00	
503685	EFT 3/17/23	WHEELER			59,990.00
		81000196 6010	PURCHASE OF THE BACKHOE 416 FR	59,990.00	
503686	EFT 3/17/23	WNA SERVICES CO.			150.00
		51000650 5170	UTAH NEWS TRACKER READING CHAR	150.00	
503687	EFT 3/17/23	WW GRAINGER			326.04
		82000570 5310	FOOD GRADE GEASE FOR FIRE HYD	34.64	
		82000570 5360	FOOD GRADE GEASE FOR FIRE HYD	291.40	
503688	EFT 3/24/23	ACTION LOCKSMITH			67.65
		81000570 5360	LOCK FOR MAN GATE AND CODE CUT	67.65	
503689	EFT 3/24/23	BATEMAN MOBIL 1 LUBE EXPRESS			89.95
		81000570 5360	VEHICLE SERVICE AT BATEMAN'S.V	89.95	
503690	EFT 3/24/23	BATTERY SYSTEMS			537.28
		81000570 5360	BATTERIES FOR STANDBY GENERATO	537.28	
503691	EFT 3/24/23	BIZWEAR			1,257.20
		80000570 5170	EMPLOYEE UNIFORM ORDERS - BACK	215.85	
		80000570 5170	EMPLOYEE UNIFORMS - BACK ORDER	712.00	
		75000590 5170	EMPLOYEE UNIFORM ORDERS	329.35	
503692	EFT 3/24/23	COMFORT SYSTEMS USA			1,425.18
		81000570 5380	REPAIR ROOF TOP UNIT CHLORINE	1,425.18	
503693	EFT 3/24/23	CORE & MAIN			8,548.91
		51000000 6210	FIRE HYDRANT FOR 4035 S 500 W	4,045.73	
		82000570 5380	2-6" MJ x MJ & 2- 6" MJ x FL G	4,503.18	
503694	EFT 3/24/23	ESRI			21,444.00
		90000650 5230	RENEWAL OF ESRI GIS SOFTWARE A	21,444.00	
503695	EFT 3/24/23	HEIDI NILSSON			225.00
		77000590 5290	BACKFLOW TEST REIMBURSEMENT	225.00	
503696	EFT 3/24/23	INDUSTRIAL SUPPLY			24.85
		82000570 5310	1 11/16 X 3/4" DRIVE SOCKET FO	24.85	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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503697	EFT 3/24/23	LARRY H MILLER FORD 81000570 5330	PARTS ANREPAIRS ON 722	792.68	\$792.68
503698	EFT 3/24/23	MICRONET COMMUNICATIONS, INC 70000590 5360	FULL-SERVICE LICENSING FOR MIC	1,200.00	1,200.00
503699	EFT 3/24/23	STOTZ EQUIPMENT 81000570 5330	AIR CLEANER HOUSING	455.54	455.54
503700	EFT 3/24/23	THE DATA CENTER 60000650 5250	MARCH '23 BILLING	1,866.67	1,866.67
503701	EFT 3/24/23	TIRE WORLD 81000570 5330	TIRES.	762.84	762.84
503702	EFT 3/24/23	WATERFORD SERVICES, LLC 91071570 5310	SHIPPING FOR CHLORINE FEEDER 2	15.14	15.14
503703	EFT 3/31/23	ACCUSTANDARD INC 78000590 5720	LAB STANDARDS	201.72	201.72
503704	EFT 3/31/23	AIRGAS USA, LLC 81000570 5310	WELDER PARTS AND SUPPIES	245.48	245.48
503705	EFT 3/31/23	BARRETT BUSINESS SERVICES, INC 70000590 5110 52000650 5280 62000570 5350 62000570 5350	TEMP GARDEN EMPLOYEES TEMP GARDEN EMPLOYEES TEMP GARDEN EMPLOYEE TEMP GARDEN EMPLOYEES	1,311.71 3,724.73 520.74 3,479.72	9,036.90
503706	EFT 3/31/23	BIZWEAR 75000590 5170	RAMOND GARCIA - INV. 107243	43.50	43.50
503707	EFT 3/31/23	BLUE STAKES OF UTAH 82000570 5390	BLUE STAKES OF UTAH FEB 2023	2,055.60	2,055.60
503708	EFT 3/31/23	BUCHANAN ACCESS SYSTEMS LLC 81000570 5380 81072570 5380	REPAIR GATES SERWTP AND CP FLO REPAIR GATES SERWTP AND CP FLO	745.00 105.00	850.00
503709	EFT 3/31/23	CARENOW 51000650 5170	DOT, PHYSICAL, RANDOM & NEW HI	507.00	507.00
503710	EFT 3/31/23	CENTRAL UTAH WATER CONSERVANCY DISTRICT 70000510 5810	CUWCD CWP WATER DELIVERIES FEB	135,441.60	135,441.60
503711	EFT 3/31/23	CINTAS CORPORATION 71000590 5260	FIRST AID CABINET SUPPLIES	435.84	435.84
503712	EFT 3/31/23	ELWELL CONSULTING GROUP, PLLC 11000140 6010 4219	HAZARD MITIGATION PLAN	930.00	930.00
503713	EFT 3/31/23	ENDRESS + HAUSER INC 75001570 5380	ENDRESS HAUSER 400 W TRANSMITT	7,646.12	7,646.12
503714	EFT 3/31/23	EXPRESS AUTO GLASS INC 81000570 5330	WINDSHIELD FOR 714	199.00	199.00

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503715	EFT 3/31/23	FERGUSON ENTERPRISES LLC			\$665.29
		82000570 5380	1 1/2" CTS X CTS & CTS X MIP C	650.37	
		75001570 5380	10 INCH GASKETS	14.92	
503716	EFT 3/31/23	HACH COMPANY			743.33
		78000590 5720	TEST SUPPLIES	202.37	
		91072570 5310	FLOW SENSOR FOR LASER TURBIDIM	180.32	
		91073570 5310	FLOW SENSOR FOR LASER TURBIDIM	180.32	
		91071194 6010	FLOW SENSOR FOR LASER TURBIDIM	180.32	
503717	EFT 3/31/23	HARRINGTON INDUSTRIAL PLASTICS LLC			694.36
		71071570 5360	CAPS FOR CHEMICAL OFFLOAD ST	111.70	
		81000570 5380	PVC PIPE AND FITTINGS FOR FLOR	582.66	
503718	EFT 3/31/23	IDEXX LABORATORIES INC			39.66
		78000590 5720	MICRO SUPPLIES	39.66	
503719	EFT 3/31/23	INFINITY CORROSION GROUP INC			25,794.25
		11000186 6010 4271	8-MG & 2-MG STEEL RESERVOIRS P	25,794.25	
503720	EFT 3/31/23	KILGORE COMPANIES, LLC			509.00
		82000570 5380	SPOILS MAIN LINE BREAK	509.00	
503721	EFT 3/31/23	KONECRANES, INC.			983.00
		81071570 5380	INSPECT NOISE IN CHLORINE HOIS	983.00	
503722	EFT 3/31/23	LES OLSON COMPANY			790.61
		90000650 5230	ADMIN WEST MX-7081 MAINTENANCE	790.61	
503723	EFT 3/31/23	METROPOLITAN WATER DISTRICT			30,271.12
		70000510 5810	MWDSLS FEBRUARY 2023 WATER DEL	30,271.12	
503724	EFT 3/31/23	MIKE LORENC			346.90
		62000570 5170	UNIFORM REIMBURSEMENT - LL BEA	346.90	
503725	EFT 3/31/23	MOUNTAIN WEST PIPE & SUPPLY			730.00
		71071570 5380	CHECK VALVES FOR CHLORINE DIOX	730.00	
503726	EFT 3/31/23	MOUNTAINLAND SUPPLY COMPANY			923.42
		82000570 5380	4" MJ X FL GATE VALVE & MEGALU	923.42	
503727	EFT 3/31/23	OLYMPUS INSURANCE AGENCY			19,500.00
		51000650 5210	2022/2023 INSURANCE BROKER FEE	19,500.00	
503728	EFT 3/31/23	PLATT ELECTRIC SUPPLY INC			167.60
		81000570 5380	BULBS FOR THE EDUCATION CENTER	64.81	
		81072570 5380	LED REPLACEMENT LIGHTS	102.79	
503729	EFT 3/31/23	RESTEK CORPORATION			512.09
		78000590 5720	HAA5 STANDARDS	512.09	
503730	EFT 3/31/23	RYAN HERCO PRODUCTS CORPORATION			1,272.36
		71071570 5360	TUBING AND CONNECTORS FOR CHLO	1,272.36	
503731	EFT 3/31/23	SHAY GREEN			150.00
		80000570 5290	D4 WATER OPERATOR TESTING FEES	150.00	
503732	EFT 3/31/23	SKYLINE ELECTRIC COMPANY			1,929.00
		83000570 5380	LABOR TO INSTALL MISSING PARTS	1,929.00	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYMENT REGISTER - O&M ACCOUNT

For the Period March 1, 2023 Through March 31, 2023

PAYMENT NO.	PAYMENT DATE	VENDOR NAME ACCOUNT#	DESCRIPTION	INVOICE AMOUNT	PAYMENT AMOUNT
503733	EFT 3/31/23	SMITH SYSTEM DRIVER IMPROVEMENT 51000650 5260	SMITH SYSTEM COURSES HELD 2/28	3,452.76	\$3,452.76
503734	EFT 3/31/23	SPRINKLER SUPPLY COMPANY 82000570 5380	1"X3/4" BRASS BUSHINGS, 2" CHE	902.26	902.26
503735	EFT 3/31/23	UINTAH FASTENER & SUPPLY LLC 75001570 5380	ALL THREAD; AND HEX NUTS	193.60	193.60
503736	EFT 3/31/23	UNITED FENCE 51000000 6210	INSTALLATION OF FENCE THAT WAS	3,850.00	3,850.00
503737	EFT 3/31/23	UTAH YAMAS CONTROLS INC 90000650 5230 71071570 5380	SECURITY SYSTEM REPAIRS AT HEA SECURITY CAMERA REPAIR	167.50 6,277.33	6,444.83
503738	EFT 3/31/23	VWR INTERNATIONAL INC 77000590 5750	WATER QUALITY FIELD EQUIPMENT	16.99	16.99
503739	EFT 3/31/23	WASATCH STEEL 82160570 5380 81000570 5360	1-1/4" PIPE FOR THRUST RESTRAI FLAT BAR FOR PIPE AT 114TH	136.92 19.25	156.17
503740	EFT 3/31/23	WEIR MINERAL 72072570 5380	SAND PUMP LINERS AND CASING	2,833.58	2,833.58
503741	EFT 3/31/23	WW GRAINGER 82101570 5310 82000570 5380 72072570 5380 75002570 5380 81000570 5330 81000570 5360 81071570 5380	IMPACT SOCKETS, HANDHELD SPRAY VENT FAN FOR SURGE VAULT 1784 (1) CASE TOILOET PAPER CREDIT BATTERY FOR GENERATOR 021623 021623	167.98 228.88 64.59 -369.70 187.79 778.28 153.77	1,211.59
REPORT TOTAL:					<u><u>\$4,190,515.22</u></u>

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PAYROLL CHECKS, ACH & WIRE TRANSFER REGISTER - O&M ACCOUNT

For the Period March 01, 2023 Through March 28, 2023

PAYMENT DATE	PAYMENT TYPE	VENDOR NAME	DESCRIPTION	PAYMENT AMOUNT
3/3/2023	ACH	EMPLOYEE	EMPLOYEE DIRECT DEPOSITS	353,628.25
3/3/2023	ACH	IRS	FEDERAL & MEDICARE TAXES	52,759.18
3/3/2023	ACH	URS	STATE RETIREMENT	87,956.22
3/3/2023	ACH	HEALTHQUITY	EMPLOYEE H.S.A. CONTRIBUTIONS	13,501.92
3/3/2023	ACH	CIGNA HEALTHCARE	EMPLOYEE DENTAL & LIFE INS	16,785.23
3/3/2023	ACH	FIDELITY	SUB SOCIAL SECURITY CONTRIB.	54,896.86
3/7/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	200.00
3/7/2023	ACH	EMPLOYEES	TERMINATED EMPLOYEES CASHOUT	6,593.51
3/14/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	2,430.00
3/20/2023	ACH	EMPLOYEE	EMPLOYEE DIRECT DEPOSITS	357,488.47
3/20/2023	ACH	IRS	FEDERAL & MEDICARE TAXES	54,774.46
3/20/2023	ACH	URS	STATE RETIREMENT	89,121.99
3/20/2023	ACH	HEALTHQUITY	EMPLOYEE H.S.A. CONTRIBUTIONS	13,503.05
3/20/2023	ACH	CIGNA HEALTHCARE	EMPLOYEE DENTAL & LIFE INS	16,915.92
3/20/2023	ACH	FIDELITY	SUB SOCIAL SECURITY CONTRIB.	57,138.47
3/21/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	1,289.00
3/28/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	236.00
3/28/2023	ACH	EMPLOYEES	EMPLOYEE RECOGNITION / SAFETY	200.00
REPORT TOTAL:				\$ 1,179,418.53

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/1/2023	JORDAN TOMSIC	THE HOME DEPOT #8566	PARTS TO FIX THE LIGHTS IN THE VAULT OFF 11400 S 3200 W	91000570 5310	123.42
3/1/2023	MICHAEL LORENC	GRAINGER	MEASURING WHEELS	62000570 5350	202.28
3/1/2023	MICHAEL LORENC	SPRINKLER SUPPLY	MEASURING WHEEL RETURN	62000570 5350	-214.92
3/1/2023	YVETTE AMPARO	DREAMSTIME.COM	MONTHLY STOCK PHOTO FEE - TRAINING	51005650 5290	25.00
3/1/2023	MICHAEL LORENC	SPEED'S POWER EQUIPMENT	BATTERIES FOR ELECTRIC POWER TOOLS	62000570 5350	121.97
3/2/2023	ALLEN CURTIS	THE HOME DEPOT #8566	DRAIN BLADER PLUG FOR CLEARING DRAINS	81071570 5360	21.97
3/2/2023	BEVERLY PARRY	MICHAELS STORES 8788	FRAME FOR RESOLUTION	51000660 5220	22.99
3/2/2023	BEVERLY PARRY	AWWA EVENTS	AWWA ACE23 REGISTRATION - ALAN PACKARD	51000650 5290	925.00
3/2/2023	BEVERLY PARRY	AWWA EVENTS	AWWA ACE23 REGISTRATION - SHERRIE OHRN	51000660 5290	925.00
3/2/2023	BEVERLY PARRY	AWWA EVENTS	AWWA ACE23 REGISTRATION - BARBARA TOWNSEND	51000660 5290	925.00
3/2/2023	BEVERLY PARRY	AWWA EVENTS	AWWA ACE23 REGISTRATION - DAWN RAMSEY	51000660 5290	925.00
3/2/2023	BRADLEY BOREN	COSTCO WHSE #1019	CORDLESS STICK VACUUMS FOR SWGWTP, THE ADMINISTRATION BUILDING AND THE MAINTENANCE BUILDING	83000570 5350	479.98
3/2/2023	BRADLEY BOREN	COSTCO WHSE #1019	CORDLESS STICK VACUUMS FOR SWGWTP, THE ADMINISTRATION BUILDING AND THE MAINTENANCE BUILDING	83073570 5350	239.99
3/2/2023	JORDAN TOMSIC	WINMARK STAMP & SIGN ECOM	FOR A SIGN TO BE MADE AT 118TH AND 3200 FOR THE NEW MOTOR STARTER. DANGER HIGH VOLTAGE PRESENT	91000570 5310	53.45
3/2/2023	DAVID BERATTO	MILLCREEK CITY PERMITS	EXCAVATION PERMIT FOR 4035 SOUTH 500 WEST	82000570 5380	175.00
3/2/2023	JOSHUA SHREWSBURY	AMAZON.COM*HD09X4HD2	CHEMICAL ABSORBENT PADS	72000590 5260	366.00
3/2/2023	TERESA ATKINSON	AMZN MKTP US*H56A58TW0	AMAZON ORDER # 111-1425494-6516269 - BACKDROP STAND - ALICIA SEKILLER \$45.89	60000650 5270	45.89
3/2/2023	LISA KASTELER	AMZN MKTP US*HD8420DM1 AM	BRIANS LAPTOP BACKPACK	80000570 5220	23.99
3/2/2023	TERESA ATKINSON	AMZN MKTP US*HD8KN1QD2	AMAZON ORDER # 111-2310481-8768266 - WHITE BACKDROP - ALICIA SEKILLER \$24.99	60000650 5270	24.99
3/2/2023	TERESA ATKINSON	FACEBK 8WSAHMKNJ2	FACEBOOK LOCALSCAPES AD 5857740404340162-11798371 \$44.84	62000570 5270	44.84
3/2/2023	TERESA ATKINSON	GOOGLE ADS6474187733	GOOGLE AD- UWS - A17006723227066143 FEB 2023 \$17.68	62000570 5270	17.68
3/2/2023	ALICIA SEKILLER	HYATT PLACE SAINT GEORGE	FIRST NIGHT STAY FOR MATT OLSEN	51000660 5290	167.36
3/2/2023	MINDY KEELING	UTAH MUNICIPAL ATTORNEYS	UMAA MEMBERSHIP/CONFERENCE REGISTRATION - MARK STRATFORD	51000650 5290	200.00
3/3/2023	JEFFREY BETTON	SMITHS MRKTPL #4495	SNACKS FOR MONTHLY SAFETY MEETING HELD ON MARCH 2, 2023	51000650 5260	24.05

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/3/2023	MINDY KEELING	VILLAGE BAKER INC	BUDGET LUNCH - JACOB YOUNG	51000650 5170	27.98
3/3/2023	BEVERLY PARRY	MCGEES STAMP AND TROPHY	PLAQUE FOR OUTGOING TRUSTEE	51000660 5220	85.50
3/3/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - FLIPYOURSTRIP.COM ONE YEAR \$20.17	90000650 5230	20.17
3/3/2023	LAINA MCGINTY	AMAZON.COM*HD6IX47Y2	SPACE HEATER/INDOOR HEATER	51000650 5220	74.99
3/3/2023	TERESA ATKINSON	AMZN MKTP US*HD5C11S12	AMAZON ORDER #111-7810697-5668228 LAPTOP BACKPACK FOR KOLBY \$38.98	90000650 5230	38.98
3/6/2023	MICHAEL BROWN	THE HOME DEPOT #4410	P-TRAP FOR DRINKING FOUNTAIN IN THE MAINTENANCE BUILDING	83000570 5350	39.60
3/6/2023	FUAVAI ETEAKI	THE HOME DEPOT #4403	3" CUT OFF DISC MANDREL FOR VAI'S TRUCK	82000570 5310	6.97
3/6/2023	LAINA MCGINTY	VILLAGE BAKER INC	BOARD MEETING REFRESHMENTS	51000660 5220	204.00
3/6/2023	LISA KASTELER	IN *LOUMIS CDL TESTING	CDL DRIVERS TEST FOR SHAY GREEN	80000570 5290	248.00
3/6/2023	ALICIA SEKILLER	IMI*INFORMATRADESHOW	FIBER OPTICS TRAINING FOR KYLE CHAPMAN	90000650 5290	2,300.00
3/6/2023	ALICIA SEKILLER	IMI*INFORMATRADESHOW	FIBER OPTICS TRAINING FOR JORDAN TOMSIC	90000650 5290	2,300.00
3/6/2023	TERESA ATKINSON	SP OWL LABS	OWLLABS.COM ADAPTER - JASON \$52.55	90000650 5230	52.55
3/6/2023	TERESA ATKINSON	SP OWL LABS	OWLLABS.COM CABLE- JASON \$16.09	90000650 5230	16.09
3/7/2023	BEVERLY PARRY	SMITHS MRKTP #4495	FOOD FOR BOARD MEETING	51000660 5220	55.91
3/7/2023	MICHAEL LORENC	GRAINGER	RETURN OF A WHEEL COVERING	62000570 5670	-28.39
3/7/2023	MICHAEL LORENC	GRAINGER	RETURN OF MEASURING WHEELS	62000570 5670	-508.42
3/7/2023	ALICIA SEKILLER	MCGEES STAMP AND TROPHY C	NAME PLATE FOR ZACH JACOB AND NOTARY STAMP FOR ALICIA SEKILLER	51000650 5170	53.00
3/7/2023	MINDY KEELING	SALESFORCE23SFTC23REG	TABLEAU CONFERENCE REGISTRATION - CLIFTON SMITH	60000650 5290	1,240.00
3/8/2023	ALICIA SEKILLER	AWWA EVENTS	AWWA CONFERENCE REGISTRATION FOR NATE TALBOT	75000590 5290	925.00
3/8/2023	LAINA MCGINTY	KNEADERS SOUTH JORDAN	BOARD MEETING REFRESHMENTS	51000660 5220	192.97
3/8/2023	ALISHA KIMMERLE	AMZN MKTP US*H513W0DC1 AM	PICTURE STORAGE SLEEVES	71000590 5220	75.86
3/8/2023	TERESA ATKINSON	AMZN MKTP US*HG9ZL03F0	AMAZON ORDER #111-8708931-1068259 IPHONE SCREEN PROTECTORS \$12.62	90000650 5230	12.62
3/8/2023	DUSTIN BRUSCH	EBAY O*09-09792-50661	CANCELLED ORDER FOR WRONG RADIOS	91000570 5310	-271.19
3/8/2023	DUSTIN BRUSCH	EBAY O*09-09792-50661		91000570 5310	271.19
3/8/2023	TERESA ATKINSON	FACEBK LV3B7NFFF2	FACEBOOK CGP TRANSACTION 5857740404340162-11798371 \$268.92	62000570 5270	268.92
3/8/2023	BEVERLY PARRY	SANDY FLOWER SHOP	SYMPATHY FLOWERS	51000650 5170	85.90
3/9/2023	MICHAEL BROWN	THE HOME DEPOT #4410	NEW PLUG END FOR TERMINAL RESERVOIR LIGHT	83000570 5350	10.60
3/9/2023	SHANE SWENSEN	INTERNATIONAL RIGHT OF WA	IRWA MEMBERSHIP - BEN PURDUE	52000650 5290	260.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/9/2023	BEVERLY PARRY	SCHMIDT S PASTRY COTTAGE-	BOARD MEETING FOOD	51000660 5220	38.16
3/9/2023	ALLEN CURTIS	ACE HARDWARE COTTONWOO	SPECIALTY BOLTS FOR SERWTP	81072570 5380	1.29
3/9/2023	LAINA MCGINTY	AMAZON.COM*H59QI2781	KEENAN ROBERTSON 5 YEAR SERVICE AWARD	51000650 5170	109.89
3/9/2023	LISA KASTELER	AMZN MKTP US*H59FS1QB2	MECHANICAL PENCILS FOR STEVE CRAWFORD	80000570 5220	8.99
3/9/2023	TERESA ATKINSON	AMZN MKTP US*HG10Y50V0	AMAZON ORDER #111-5717803-8105038 IPAD SCREEN PROTECTOR \$8.96	90000650 5230	8.96
3/9/2023	MIKE RASMUSSEN	PAYPAL *SAFETY INSP	SAFETY INSPECTION COURSE FOR DAVID GARCIA	80000570 5290	50.00
3/9/2023	MINDY KEELING	SOUTHWES 5262428177083	FLIGHT FOR TABLEAU CONFERENCE - CLIFTON SMITH	60000650 5290	183.96
3/9/2023	KYLE CHAPMAN	THE LIGHT BRIGADE INC.	MODULE MATERIALS FOR FIBER OPTIC TRAINING FOR KYLE AND JORDAN	91000570 5310	249.90
3/10/2023	TIMOTHY RAINBOLT	SMITHS MRKTPL #4495	HINCKLEY AWARDS PROGRAM 030923	11000200 2290	250.00
3/10/2023	MIKE RASMUSSEN	UTAHHIGHWAYPATROLOONLIN	SAFETY INSPECTION STICKERS	81000570 5360	11.50
3/10/2023	MIKE RASMUSSEN	UTAHHIGHWAYPATROLOONLIN	INSPECTOR RENEWAL FEE FOR DAVID GARCIA	80000570 5290	7.00
3/10/2023	CORY COLLINS	IN *UTAH NURSERY & LANDSC	REGISTER VAL AND MADDIE FOR QWEL	62000570 5290	300.00
3/10/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - LOCALSCAPES.NET ONE YEAR \$23.17	90000650 5230	23.17
3/10/2023	JACKIE BUHLER	UPS*BILLING CENTER	INVOICE #0000A3278X093	51000650 5250	14.98
3/10/2023	LAINA MCGINTY	AMZN MKTP US*H512W9702	KIM CASTELAN 5 YEAR SERVICE AWARD	51000650 5170	33.00
3/10/2023	LAINA MCGINTY	AMZN MKTP US*HG7KX4VH0	KIM CASTELAN 5 YEAR SERVICE AWARD	51000650 5170	94.73
3/13/2023	MICHAEL BROWN	THE HOME DEPOT #4410	PARTS TO HANG CLOTH BOARD AND PICTURES	83000570 5350	121.95
3/13/2023	BEVERLY PARRY	VILLAGE BAKER INC	LUNCH MEETING WITH BLUFFDALE CITY	51000650 5170	98.00
3/13/2023	LAINA MCGINTY	AMAZON.COM*H54ON3WQ2	KEENAN ROBERTSON 5 YEAR SERVICE AWARD	51000650 5170	39.99
3/13/2023	ALISHA KIMMERLE	AMAZON.COM*HG5C396C0 AMZN	BOOK FOR HISTORY PICTURES WADE TUFT	71000590 5220	23.78
3/13/2023	LAINA MCGINTY	AMZN MKTP US*HG59J6DS0	KIM CASTELAN 5 YEAR SERVICE AWARD	51000650 5170	21.00
3/13/2023	CORY COLLINS	AMZN MKTP US*HG8P62TK1	BIRD ALERT WINDOW CLINGS	62000570 5350	26.97
3/13/2023	CORY COLLINS	AMZN MKTP US*HG92R8P11	BIRD ALERT WINDOW CLINGS	62000570 5350	35.97
3/13/2023	ALAN PACKARD	CAFE ZUPAS - VF	LUNCH WITH GHID GENERAL MANAGER	51000650 5170	33.59
3/13/2023	LAINA MCGINTY	EDDIEBAUER.COM	MARK STRATFORD 1 YEAR SERVICE AWARD	51000650 5170	83.64
3/13/2023	TERESA ATKINSON	MICROSOFT#G020105896	AZURE FEBRUARY 2023 G020105896 \$648.28	90000650 5230	648.28
3/14/2023	ALISHA KIMMERLE	AMERICAN WATER WORKS ASSO	JON HILBERT AWWA MEMBERSHIP RENEWAL	77000590 5290	255.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/14/2023	LAINA MCGINTY	EDDIEBAUER.COM	TAX REFUND FOR SERVICE AWARD	51000650 5170	-5.65
3/15/2023	DAVID BERATTO	SMITHS MRKTPL #4495	DRINKS FOR SERVICE AWARD LUNCHEON	80000570 5170	50.65
3/15/2023	JUSTIN CRACROFT	COSTCO WHSE #0113	FOOD SUPPLIES FOR SERVICE AWARD RECOGNITIONLUNCHEON	80000570 5170	42.47
3/15/2023	MICHAEL BROWN	THE HOME DEPOT #4421	JOINT TAPE FOR DRYALL REPAIR AT NEWBURY	83000570 5350	3.14
3/15/2023	ALLEN CURTIS	ACE HDW AT HIDDEN VALLEY	1/4 INCH DRUM SNAKE FOR CLEAR WELL DRAIN AT SERWTP	81072570 5360	34.31
3/15/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - PREP60 \$129.02	90000650 5230	129.02
3/15/2023	CORY COLLINS	AMZN MKTP US*HG0JD8SE1	MORE WINDOW CLING FOR BIRD ALERT	62000570 5350	59.60
3/15/2023	TERESA ATKINSON	AMZN MKTP US*HG4GR4961	AMAZON ORDER #111-7075694-8065015 MONITOR STANDS \$75.64	90000650 5230	75.64
3/15/2023	JUSTIN CRACROFT	CHEFSTORE 7501	FOOD SUPPLIES FOR SERVICE AWARD RECOGNITION LUNCHEON	80000570 5170	253.44
3/16/2023	TROY GARRETT	THE HOME DEPOT #4410	HARDWARE TO HANG SHOVEL RACKS	81073570 5380	29.17
3/16/2023	JORDAN TOMSIC	THE HOME DEPOT 4410	CONDUIT FOR FLOW METER HEAD UNIT INSTALL AT 138TH AND 32WEST SITE	91000570 5310	298.37
3/16/2023	NATHAN TALBOT	HARBOR FREIGHT TOOLS 292	FLASHLIGHTS AND SAW BLADE	75000570 5380	94.95
3/16/2023	MINDY KEELING	INTERMOUNTAIN SECTION AWW	AWWA MID-YEAR CONFERENCE REGISTRATION - MAINTENANCE (STARLEY, ADAMS, BROWN, ROBERTS, GREEN)	80000570 5290	800.00
3/16/2023	BRADLEY BOREN	LOWES #01613*	RUNNER RUGS FOR THE ADMINISTRATION, MAINTENANCE AND VEHICLE MAINTENANCE KITCHENS	83000570 5350	74.94
3/16/2023	ALISHA KIMMERLE	AMZN MKTP US*HC4F35HS0	BATTERIES	71000590 5220	7.68
3/16/2023	ALICIA SEKILLER	HOME 2 SUITES	FIRST NIGHT HOTEL STAY FOR KYLE CHAPMAN	90000650 5290	214.29
3/16/2023	ALICIA SEKILLER	HOME 2 SUITES	FIRST NIGHT HOTEL STAY FOR JORDAN TOMSIC	90000650 5290	216.56
3/16/2023	ALAN PACKARD	MOMS WOW	LUNCH WITH KID GENERAL MANAGER	51000650 5170	45.24
3/16/2023	JACKIE BUHLER	STERICYCLE INC/SHRED-IT	PAYMENT FOR INVOICE #8003418879	71000590 5220	73.63
3/16/2023	JACKIE BUHLER	STERICYCLE INC/SHRED-IT	PAYMENT FOR INVOICE #8003418879	51000650 5220	161.24
3/17/2023	TROY GARRETT	THE HOME DEPOT #4410	PVC PARTS AND GLUE FOR 114TH BOOSTER	81000570 5360	33.26
3/17/2023	MICHAEL LORENC	THE HOME DEPOT #4410	WOOD AND SCREWS FOR MODIFICATIONS TO EXHIBIT	62000570 5350	23.16
3/17/2023	CASEY CANNON	THE HOME DEPOT 4410	HAND TOOLS	75000590 5310	305.10
3/17/2023	DAVID BERATTO	MILLCREEK CITY PERMITS	EXCAVATION PERMIT REQUIRED TO REPLACE FIRE HYDRANT AT 320 E. 3900 S. HIT BY CAR	51000000 6210	175.00
3/17/2023	JACKIE BUHLER	AMZN MKTP US*HC2RJ6F01 AM	ADDING MACHINE AND, COMPUTER GLASSES	51000650 5220	81.94

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/17/2023	PAUL MATTINSON	AMZN MKTP US*HC5S36Q40	PHONE CASE FOR THE RECEPTION AREA CORDLESS PHONE	78000590 5270	21.55
3/17/2023	MINDY KEELING	EB 2023 UTAH WATER CO	UTAH WATER CONSERVATION FORUM SPRING CONFERENCE REGISTRATION - CLIFTON SMITH	60000650 5290	80.00
3/17/2023	ALICIA SEKILLER	UNIV OF UT WEB PAYMENT	WEBINAR FOR THE GREAT SALT LAKE MATT OLSEN REGISTRATION	51000650 5290	75.00
3/20/2023	CORY COLLINS	SMITHS MRKTPL #4495	S&P SHAKERS FOR BREAK ROOM SPRING FLOWERS FOR FRONT POTS	62000570 5350	32.60
3/20/2023	MICHAEL LORENC	THE HOME DEPOT #4410	LUMBER FOR EXHIBIT FIXES	62000570 5350	38.06
3/20/2023	CORY COLLINS	HARBOR FREIGHT TOOLS 292	NEW TABLE MOVER	62000570 5350	11.99
3/20/2023	SHAUN MOSER	LOWES #01613*	ADDITIONAL FENCE PANELS FOR CHESS BOARD	62000570 5350	553.92
3/20/2023	TERESA ATKINSON	FIGMA MONTHLY RENEWAL	FIGMA SOFTWARE MAR 18 2023 TO APR 18 2023 \$21.45	60000650 5270	21.45
3/20/2023	CORY COLLINS	AMZN MKTP US*HC4I00FU2	POWERSTRIP WITH USB CONNECTIONS	62000570 5670	24.72
3/20/2023	JACKIE BUHLER	AMZN MKTP US*HC81L2P61 AM	WHITE BOARD FOR BRIAN'S OFFICE	51000650 5220	69.62
3/20/2023	CORY COLLINS	AMZN MKTP US*HC9TX2KF0	REST OF DOOR CLING FOR BIRDS	62000570 5350	74.50
3/20/2023	TERESA ATKINSON	TWILIO FRK4M7L8KNBMPK42	TWILIO RECEIPT 3-16-2023 \$11.31	90000650 5230	11.31
3/21/2023	SHAUN MOSER	AMAZON.COM*HC4KI6U91 AMZN	HEADPHONES FOR SEASONAL STAFF	62000570 5350	52.08
3/22/2023	MICHAEL BROWN	THE HOME DEPOT #4410	PLASTIC TO COVER LEAKING ROOF AT NEWBURRY WELL WHILE PAINTING.	83000570 5350	156.50
3/22/2023	KYLE CHAPMAN	CVS/PHARMACY #10370	USED THE P CARD BY MISTAKE FOR MY HSA CARD FOR PRESCRIPTION	91000570 5310	7.00
3/22/2023	BRADLEY BOREN	SANDBAG STORE LLC		83000570 5350	475.00
3/23/2023	MICHAEL LORENC	GRAINGER	MEASURING WHEELS	62000570 5350	202.28
3/23/2023	TROY GARRETT	MARSHALLS INDSTR L HRDWR		81000570 5360	6.98
3/23/2023	ALISHA KIMMERLE	PETERSON'S FRESH MA	FOOD FOR SERVICE AWARD LUNCHEON	70000590 5170	168.24
3/23/2023	TERESA ATKINSON	DNH*GODADDY.COM	GODADDY - CGP DOMAIN RENEWAL 5 YEAR \$100.85	90000650 5230	100.85
3/23/2023	ALICIA SEKILLER	DELTA AIR SEAT FEES	ACE CONFERENCE-FLIGHT CONFIRMATION ROBERT SQUIRE - SEAT PICK COST	90000650 5290	29.99
3/23/2023	ALICIA SEKILLER	DELTA AIR SEAT FEES	ACE CONFERENCE-FLIGHT CONFIRMATION ROBERT SQUIRE - SEAT PICK COST	90000650 5290	29.99
3/23/2023	ALICIA SEKILLER	DELTA AIR 0062372288576	ACE CONFERENCE-FLIGHT CONFIRMATION ROBERT SQUIRE - TRIP ADJUSTMENT FOR CORRECT DAY	90000650 5290	124.85
3/23/2023	ALICIA SEKILLER	DELTA AIR 0062372337973	ACE CONFERENCE-FLIGHT CONFIRMATION ROBERT SQUIRE	90000650 5290	795.27
3/24/2023	ALLEN CURTIS	THE HOME DEPOT #4410	POLLY TUBE ADAPTORS FOR GARDEN RESTROOMS	81000570 5360	5.75

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/24/2023	TROY TUCKER	THE HOME DEPOT #4410	TOOLS	82000570 5310	176.75
3/24/2023	MICHAEL LORENC	THE HOME DEPOT #4410	RETURN FOR UTILITY CART	62000570 5350	-24.88
3/24/2023	MICHAEL LORENC	THE HOME DEPOT #4410	SAFETY GLASSES, DECK SCREWS, MASKING TAPE, MISC SUPPLIES	62000570 5350	108.47
3/24/2023	SHANE SWENSEN	INTERMOUNTAIN SECTION AWW	AWWA IMS MIDYEAR CONFERENCE REGISTRATION FOR FOUR ENGINEERING STAFF	52000650 5290	640.00
3/24/2023	ALISHA KIMMERLE	AMZN MKTP US*H700C7F32	BADGE HOLDERS	70000590 5360	109.90
3/24/2023	JACKIE BUHLER	AMZN MKTP US*H74P83CA2	CHAIR BACK SUPPORT FOR FRONT DESK	51000650 5220	27.99
3/24/2023	ALISHA KIMMERLE	MURPHY EXPRESS 8784	ICE FOR SERVICE AWARD LUNCHEON	70000590 5170	5.56
3/27/2023	MICHAEL LORENC	THE HOME DEPOT #4410	WOOD AND DRILL BIT FOR WOODWORKING PROJECT	62000570 5350	32.91
3/27/2023	MICHAEL LORENC	THE HOME DEPOT #4410	DREMEL FOR TOOL SHARPENING ECT..	62000570 5350	56.97
3/27/2023	NICK MCDONALD	THE UPS STORE 4976		71071570 5360	86.22
3/27/2023	ALISHA KIMMERLE	SP PROFLOWERS.COM	FLOWERS FOR JOHN LARSEN REQUESTED BY WADE TUFT	70000590 5170	101.87
3/27/2023	BEVERLY PARRY	THE GATHERING PLACE BA	GM BREAKFAST	51000650 5170	3,634.78
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	75000590 5290	640.00
3/28/2023	ALICIA SEKILLER	INTERMOUNTAIN SECTION AWW		51000650 5170	360.00
3/28/2023	SHANE SWENSEN	INTERMOUNTAIN SECTION AWW	AWWA IMS SCHOLARSHIP DINNER FOR TRAVIS CHRISTENSEN	52000650 5290	60.00
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	77000590 5290	480.00
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	78000590 5290	480.00
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	72000590 5290	640.00
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	71000590 5290	640.00
3/28/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	IMS MID YEAR CONFERENCE REGISTRATION	73000590 5290	160.00
3/28/2023	TERESA ATKINSON	GRAY MATTER SYSTEMS	GRAY MATTER SYSTEMS SCADA REGISTRATION - GAGE STEWART \$2,495.00	90000650 5290	2,495.00
3/28/2023	TERESA ATKINSON	SP OWL LABS	OWLLABS.COM WITH TAX CREDIT FOR OWL SUPPLIES \$242.41 - \$16.41	90000650 5230	242.41
3/28/2023	ALICIA SEKILLER	THE LIGHT BRIGADE INC.		51000650 5170	298.00
3/28/2023	JACKIE BUHLER	STERICYCLE INC/SHRED-IT	PAYMENT FOR INVOICE #8003604955	51000650 5220	161.24
3/28/2023	ALICIA SEKILLER	MIRAGE - HOTEL & CASINO		51000650 5170	913.84
3/28/2023	BRADLEY BOREN	NOR*NORTHERN TOOL	100 GALLON TANK SPRAYER FOR HERBICES	83000570 5310	2,996.64
3/29/2023	MICHAEL LORENC	THE HOME DEPOT #4410	ROTO DRILL BIT AND WOOD	62000570 5350	19.47

JORDAN VALLEY WATER CONSERVANCY DISTRICT

PURCHASE CARD TRANSACTIONS

For the Period 3/1/2023 Through 3/31/2023

DATE	CARD HOLDER	VENDOR NAME	DESCRIPTION	GL	AMOUNT
3/29/2023	MICHAEL LORENC	THE HOME DEPOT #4410	WOOD AND SCREWS	62000570 5350	17.51
3/29/2023	BEVERLY PARRY	COSTCO WHSE #0487	BOARD MEETING SUPPLIES	51000660 5220	52.95
3/29/2023	LAINA MCGINTY	APPLICANTPRO.COM	APPLICANT PRO	51000650 5170	49.00
3/29/2023	LISA KASTELEK	AMZN MKTP US*H77SH4S92	COAT HOOKS - JEFF BETTON	80000570 5220	18.59
3/29/2023	LISA KASTELEK	AMZN MKTP US*HY4XN6B00 AM	UNDER CABINET LIGHT FIXTURES - JEFF BETTON & LISA KASTELEK	80000570 5220	281.80
3/30/2023	TIMOTHY RAINBOLT	SMITHS MRKTPL #4495	AWARDS PROGRAM-SHREWSBURY 032823	11000200 2290	25.00
3/30/2023	JEFFREY BETTON	SMITHS MRKTPL #4495	SAFETY MEETING SNACKS FOR MEETING HELD ON 3/29/23	51000650 5260	20.98
3/30/2023	MICHAEL LORENC	THE HOME DEPOT #4410	CUTTING WHEELS FOR DREMEL	62000570 5350	27.44
3/30/2023	LISA KASTELEK	INTERMOUNTAIN SECTION AWW	CRAM FOR THE EXAM - HUNTER SEXTON & CALEB VINCENT	80000570 5290	700.00
3/30/2023	LISA KASTELEK	INTERMOUNTAIN SECTION AWW	CRAM FOR THE EXAM - NICK BOURDOS	80000570 5290	350.00
3/30/2023	ALISHA KIMMERLE	INTERMOUNTAIN SECTION AWW	CRAM FOR THE EXAM REGISTRATION	75000590 5290	700.00
3/30/2023	BEVERLY PARRY	INTERMOUNTAIN SECTION AWW	WATER FOR PEOPLE SPONSORSHIP	51000650 5170	500.00
3/30/2023	TERESA ATKINSON	SP OWL LABS	OWL LABS SALES TAX CREDIT -\$16.41	90000650 5230	-16.41
3/30/2023	BEVERLY PARRY	AIR CAN* 0142169672326	ACE23 CONFERENCE AIRFARE - SHERRIE OHRN	51000660 5290	309.17
3/30/2023	BEVERLY PARRY	AIR CAN* 0144242034848	ACE23 CONFERENCE AIRFARE SEAT ASSIGNMENT - SHERRIE OHRN	51000660 5290	23.47
3/30/2023	TERESA ATKINSON	AMAZON.COM*HY7ZZ2GR1 AMZN	AMAZON ORDER #111-7684398-1247463 DAVID GREGORY - HDMI 15' CABLE \$10.12	90000650 5230	10.12
3/30/2023	BRADLEY BOREN	AMZN MKTP US*HY5BS24F2	DOUBLE SIDED TAPE TO HANG NAME PLATES	83000570 5350	14.98
3/30/2023	TERESA ATKINSON	CANVA* 03739-0481770	CANVA 2023 \$90.41	60000650 5270	90.41
3/31/2023	YVETTE AMPARO	DREAMSTIME.COM	STOCK PHOTOS FOR TRAINING	51005650 5290	25.00
3/31/2023	BEVERLY PARRY	AIR CANADA 0142169658320	ACE23 CCONFERENCE AIRFARE - SHERRIE OHRN	51000660 5290	305.15
3/31/2023	BEVERLY PARRY	AIR CANADA 0144242025796	ACE23 CONFERENCE AIRFARE SEAT ASSIGNMENT - SHERRIE OHRN	51000660 5290	30.00
3/31/2023	DAVID HYDE	AMZN MKTP US*HY13U5ZA2		81000570 5360	58.79
3/31/2023	EPIMENIO TRUJILLO	AMZN MKTP US*HY6JG3JE2	PLUGS FOR SERVICE TRUCKS	81000570 5330	23.30
3/31/2023	EPIMENIO TRUJILLO	AMZN MKTP US*HY95G5IK0	LIGHTS FOR SERVICE TRUCKS	81000570 5330	39.99

TOTAL # OF TRANSACTIONS: 180

REPORT TOTAL: \$42,345.46

CONSERVATION UPDATE



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

June 7, 2023

Spring Events Update



Salt Lake County Press Event

- April 27, 2023
- 7 cities received grants
 - Bluffdale
 - Riverton
 - Sandy
 - South Jordan
 - Taylorsville
 - West Jordan
 - West Valley City

The screenshot shows the ABC 4 website with a blue header containing navigation links for News, Weather, Sports, Shows, and Community. A weather alert banner at the top states: "WEATHER ALERT: There are 8 areas with 8 active weather alerts." The main article is titled "7 Salt Lake County cities to receive \$1.1 million in turf conversion grants for water conservation" and is categorized as "WASATCH FRONT NEWS". The author is Chin Tung Tan, and the article was posted on April 27, 2023, at 06:24 PM MDT. A video player is embedded in the article, showing a news anchor with a "1 minute left" indicator. Below the article, there is a "SHARE" section and a sidebar with promotional content from BestReviews.com, including "How to choose the perfect college graduation gift", "If dad works from home, he needs these 12 Father's ...", and "Your dad will love these simple but practical Father's ...".



Salt Lake County Press Event

- April 27, 2023
- 7 cities received grants
 - Bluffdale
 - Riverton
 - Sandy
 - South Jordan
 - Taylorsville
 - West Jordan
 - West Valley City



Source: <https://www.ksl.com/article/50631361/whiplash-weather-salt-lake-county-issues-turf-replacement-grants-to-7-cities-to- conserve-water>



Salt Lake County Press Event

- April 27, 2023
- 7 cities received grants
 - Bluffdale
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 - Taylorsville
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Source: <https://www.ksl.com/article/50631361/whiplash-weather-salt-lake-county-issues-turf-replacement-grants-to-7-cities-to- conserve-water>



Grass Doesn't Belong Everywhere Kickoff

- May 1, 2023
- Hosted at Conservation Garden Park
- Co-sponsors:
 - DWRe
 - CUWCD
 - WBWCD
 - WCWCD

The screenshot shows a news article on the KSL.com website. The article is titled "Utah launches statewide turf grass buyback program as it seeks water-use reformation" and is dated May 1, 2023. The author is Carter Williams. The article features a photo of Governor Spencer Cox speaking at a podium during a press conference at Conservation Garden Park. A sidebar on the right lists "MOST VIEWED" stories, including a 15-year-old boy fleeing from police, a building collapse, a teen who died at a pool party, a road washed out, a man sentenced to prison, an FBI file revealing a 1983 plot to kill Queen Elizabeth II, a lawsuit over a 1968 film, and a dog deaths investigation. The article also includes social media sharing icons and a "Save Story" button.

KSL.com News Sports Brandview TV Radio Video Obituaries Weather 63°
MARKETPLACE Classifieds Cars Homes Jobs Services

UTAH Home Counties Police & Courts Business Politics Education Science Environment More

Utah launches statewide turf grass buyback program as it seeks water-use reformation

By Carter Williams, KSL.com | Posted - May 1, 2023 at 7:04 p.m.

Gov. Spencer Cox speaks during a press conference at the Jordan Valley Water Conservancy District's Conservation Garden Park in West Jordan on Monday. Officials announced a statewide water-wise landscaping incentive program. (Spenser Heaps, Deseret News)

103 [Social Media Icons] Save Story

Estimated read time: 5-6 minutes

MOST VIEWED

1. 15-year-old boy fleeing from police hits, kills man standing on porch
2. Holladay building collapses, workers uninjured
3. Teen who died at pool party was 'the calm to our storm,' aunt says
4. Road along Nebo Loop completely washed out
5. Logan man sentenced to at least 5 years in prison in infant smothering death
6. FBI file reveals 1983 plot to kill Queen Elizabeth II during US visit
7. 'Romeo & Juliet' stars' lawsuit over 1968 film's teen nude scene tossed
8. 6 dog deaths lead to investigation at Salt Lake County training grounds
9. Onden man finds 10K treasure hidden



Grass Doesn't Belong Everywhere Kickoff

- May 1, 2023
- Hosted at Conservation Garden Park
- Co-sponsors:
 - DWR
 - CUWCD
 - WBWCD
 - WCWCD



Source: <https://www.kuer.org/politics-government/2023-05-01/thinking-about-getting-rid-of-your-lawn-utah-will-pay-you-to-do-it>



Garden Open House

- May 13, 2023
- 350 Attendees
- 9 booths
 - Localscapes
 - Flip Your Strip
 - Rain Gardening
 - Lawn Alternatives
 - Staff Plant Picks
 - Irrigation Installation
 - Design Your Own Park Strip
 - Utah Water Savers





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JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Delivering Quality Every Day[®]

**MINUTES OF THE BOARD CONSERVATION COMMITTEE MEETING
OF THE JORDAN VALLEY WATER CONSERVANCY DISTRICT**

APRIL 10, 2023

A regular meeting of the Conservation Committee of the Board of Trustees of the Jordan Valley Water Conservancy District (JVWCD or District) was held on Monday, April 10, 2023, at 3:00 p.m. at the District office located at 8215 South 1300 West, West Jordan, Utah.

This meeting was conducted electronically in accordance with the Utah Open and Public Meetings Act (Utah Code Ann. (1953) §§ 52-4-1 et seq.) and Chapter 7.12 of the Administrative Policy and Procedures Manual ("Electronic Meetings").

Trustees Present:

Sherrie Ohrn, Chair
Reed Gibby
Karen Lang
Dawn Ramsey
Mick Sudbury
John H. Taylor (electronic)
Barbara Townsend

Trustees Not Present:

Corey L. Rushton
Zach Jacob

Others Present:

Matt Berry, Utah Rivers Council
Greg Christensen, Kearns Improvement District
Todd Schultz, Schultz Ventures (electronic)

Staff Present:

Alan Packard, General Manager
Jacob Young, Deputy General Manager
Dave Martin, CFO/Treasurer
Shazelle Terry, Assistant General Manager
Matt Olsen, Assistant General Manager
Gordon Batt, Operations Department Manager
Jason Brown, Information Systems Department Manager
Shane Swensen, Engineering Department Manager (electronic)
Martin Feil, Database Administrator (electronic)
Mark Stratford, General Counsel
Brian McCleary, Controller
Brian Callister, Maintenance Department Manager
Beverly Parry, Executive Assistant
Mindy Keeling, Administrative Assistant (electronic)
Alicia Sekiller, Administrative Assistant
Courtney Brown, Conservation Division Manager
Kelly Good, Communications Division Manager
Clifton Smith, Senior Business Data Analyst
Shaun Moser, Conservation Garden Park Manager (electronic)

Eric Wermel, Conservation Coordinator (electronic)
Jeanette Perry, Customer Services Supervisor (electronic)
Cynthia Bee, Public Information Officer
Amanda Strack, Conservation Supervisor
Kurt Ashworth, Human Resources Manager
Valerie Millette, Conservation Coordinator
Madeline Sueltz, Conservation Coordinator
Margaret Dea, Senior Accountant (electronic)

The meeting was brought to order at 3:00 p.m. by Ms. Sherrie Ohrn.

Approval of the minutes of the Conservation Committee meeting held February 6, 2023

Ms. Sherrie Ohrn called for a motion to approve the minutes of the February 6, 2023, Conservation Committee meeting. Ms. Lang moved to approve the minutes. Mr. Sudbury seconded the motion. The minutes were approved as follows:

Ms. Barbara Townsend – aye	Ms. Sherrie Ohrn – aye
Ms. Dawn Ramsey – aye	Mr. Zach Jacob – not present
Mr. Reed Gibby – aye	Mr. Mick Sudbury – aye
Mr. Corey Rushton – not present	Mr. John Taylor – aye
Ms. Karen Lang – aye	

Public Comments

No public comments.

Report on 2022 water use results

Mr. Matt Olsen introduced Mr. Clifton Smith who coordinates with the District's member agencies in gathering annual water use information.

Mr. Smith opened the discussion by describing the sources of data used for the presentation, which include water use and population figures provided by the member agencies and weather data from The Salt Lake International Airport.

Mr. Smith reported on important drivers for water use: weather and precipitation. He noted that the last ten years have shown higher than average temperatures, and that 2022 was particularly hot and dry. He also described that precipitation in 2022 was lower than average, which did not provide much relief to the impacts of higher temperatures.

Mr. Smith then compared monthly gallons per capita per day (gpcd) for 2020, 2021, and 2022. The results demonstrate the public's positive response to drought messaging and campaigns. In 2022, the annual gpcd total ended up being 160, the lowest per capita use to date.

Update on 2023 landscape incentive marketing and press event

Ms. Ohrn introduced Ms. Kelly Good to provide an update on the 2023 landscape incentive marketing and press event. Ms. Good explained how she has been working with CUWCD to coordinate several marketing campaigns, including the "Grass Doesn't Belong Everywhere" ads.

Ms. Good added that campaign efforts are shared among the four largest water conservancy districts and the state. A release schedule is being prepared for media pushes to maximize the effectiveness of messaging.

Ms. Good presented a few billboards with the slogan "Grass Doesn't Belong Everywhere." She expressed that the slogan is meant to show the public that the District isn't against grass, but rather nonfunctional turf.

Ms. Good then showed some of the campaign videos, explaining that these short videos will be played on platforms like YouTube, social media, and streaming services, and serving as commercials on subscriptions such as Hulu, Netflix, and Peacock.

Ms. Good mentioned that there are other visual assets available to the District, such as local buses for bus wraps and social media posts, with a call for organic content from viewers.

Ms. Good announced that a Press Event will take place on May 1st at 9:30 am at Conservation Garden Park. Several speakers are scheduled, including Governor Spencer Cox, Senator Scott Sandall, and Representative Doug Owens, among others, along with additional media videos.

Reporting Items

Mr. Courtney Brown covered the reporting items from the packet as follows:

- a. 2023 Garden Education Programs Report
- b. 2023 Landscape Leadership Grant Update
- c. 2023 Utah Water Savers Program Update
- d. Member Agency Grant Program Update
- e. Fundraising Progress Report
- f. Foundation Activities Report

Adjourn

Ms. Ohrn asked for a motion to adjourn the meeting. Mrs. Ramsey moved to adjourn. Mr. Sudbury seconded the motion. The meeting was adjourned at 3:44 p.m.

Sherrie L. Ohrn, Conservation Committee Chair

Date

Matthew D. Olsen, Assistant General Manager

Date

FINANCIAL MATTERS



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

June 7, 2023

Fiscal Year 2023/2024 Water Rates, Budget and Financial Plan

2023/2024
WATER RATES



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

June 7, 2023

Fiscal Year 2023/2024 Water Rates

- Average water rate adjustment of 5.0%
- 2023/2024 water rates were tentatively approved at the April Board meeting
- Wholesale rates were reviewed with Member Agencies
- Retail rates were mailed to all retail customers, with invitation to attend the public hearing
- Public hearing held May 10, 2023
- Public comments were noted
- No additional comments received since the public hearing



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

WHOLESALE 2023/2024 WATER RATES

MONTHLY METER BASE CHARGE				
METER SIZE	22/23 RATES	23/24 RATES	\$ CHANGE	% CHANGE
4"	\$25	\$25	\$0	0.0%
6"	50	50	0	0.0%
8"	78	78	0	0.0%
10"	114	114	0	0.0%
12"	168	168	0	0.0%
14"	228	228	0	0.0%
16"	300	300	0	0.0%
18"	378	378	0	0.0%
20"	462	462	0	0.0%
24"	672	672	0	0.0%
30"	1,050	1,050	0	0.0%

No change to Meter Base Charges

MEMBER AGENCY (Rate per Acre Foot)	PUMP ZONES	2022/2023 RATES	2023/2024 RATES	\$ CHANGE	% CHANGE
Bluffdale	JVWTP	\$565.38	\$568.28	\$2.90	0.5%
Draper City		532.54	559.55	27.01	5.1%
Draper Irrigation		772.01	743.26	(28.75)	-3.7%
Granger-Hunter	B North	557.28	581.29	24.01	4.3%
Herriman	C South, D South	630.53	671.14	40.61	6.4%
Hexcel Corp.	B North	420.72	434.26	13.54	3.2%
Kearns	B North	561.53	588.73	27.20	4.8%
Magna Water	B North	397.14	418.54	21.40	5.4%
Midvale		501.34	523.68	22.34	4.5%
Riverton	C South	483.59	487.60	4.01	0.8%
South Jordan	B North/South, C South, D South	532.79	560.44	27.65	5.2%
South Salt Lake		408.51	420.17	11.66	2.9%
Taylorsville-Bennion	B North	395.21	413.91	18.70	4.7%
Utah Div. of Fac. Const. Mgmt.		397.51	418.10	20.59	5.2%
West Jordan	B North/South C South, D South	530.43	556.27	25.84	4.9%

BLOCK 2 WATER RATE	Plus Pumping	\$1,094.58	\$1,128.52	33.94	3.1%
BCWTP RATE		527.65	517.93	(9.72)	-1.8%

PUMP ZONE SURCHARGE		2022/2023 RATES	2023/2024 RATES	\$ CHANGE	% CHANGE
	B North	\$22.92	\$22.43	(\$0.49)	-2.1%
	B South	41.60	40.36	(1.24)	-3.0%
	C South	57.93	56.36	(1.57)	-2.7%
	D South	99.74	91.91	(7.83)	-7.9%
JVWTP	29.58	29.58	0.00	0.0%	



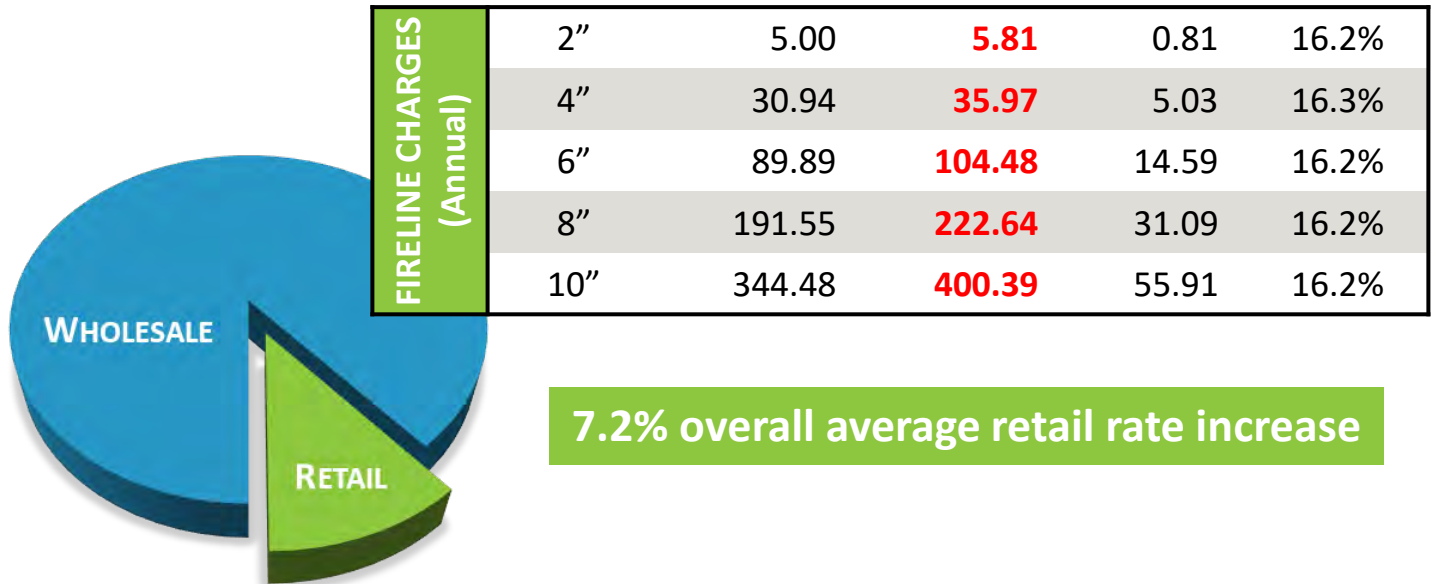
JORDAN VALLEY WATER
CONSERVANCY DISTRICT

RETAIL 2023/2024 WATER RATES

METER BASE CHARGE		TIER THRESHOLDS BY METER SIZE (1,000 GAL.)			
METER SIZE	MONTHLY AMOUNT	TIER 1	TIER 2	TIER 3	TIER 4
5/8"	\$3.00	1-6	7-16	17-37	38+
3/4"	3.00	1-9	10-23	24-53	54+
1"	4.00	1-18	19-46	47-106	107+
1-1/2"	5.00	1-36	37-92	93-212	213+
2"	8.00	1-58	59-147	148-339	340+
3"	15.00	1-140	141-359	360-827	828+
4"	25.00	1-257	258-658	659-1516	1517+
6"	50.00	1-515	516-1316	1317-3032	3033+
8"	78.00	1-1024	1025-2617	2618-6031	6032+

No change to Meter Base Charges and Tier Thresholds

RETAIL SYSTEM (Rate per 1,000 Gallon)	TIER	2022/2023 RATES	2023/2024 RATES	\$ CHANGE	% CHANGE
Non-Pumped	Tier 1	\$1.58	\$1.70	\$0.12	7.6%
	Tier 2	2.38	2.56	0.18	7.6%
	Tier 3	3.57	3.84	0.27	7.6%
	Tier 4	4.39	4.71	0.32	7.3%
Zone C South (Riverton Foothills area) Includes pump surcharge of \$0.17 per 1,000 gallons	Tier 1	1.76	1.87	0.11	6.2%
	Tier 2	2.56	2.73	0.17	6.6%
	Tier 3	3.75	4.01	0.26	6.9%
	Tier 4	4.57	4.88	0.31	6.8%
Casto/Upper Willow Creek Includes pump surcharge of \$0.68 per 1,000 gallons	Tier 1	2.14	2.38	0.24	11.2%
	Tier 2	2.94	3.24	0.30	10.2%
	Tier 3	4.13	4.52	0.39	9.4%
	Tier 4	4.95	5.39	0.44	8.9%



7.2% overall average retail rate increase



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

SUMMARY OF FEES

	2022/2023 Fees	2023/2024 Fees
GRAMA REQUEST FEES		
Copies:		
Paper (per sheet)	\$ 0.25	\$ 0.25
Audio tape (per tape)	20.00	Remove
Compact Disc (per disc)	10.00	Remove
Personnel time		
First 15 minutes	No fee	No fee
Administrative Assist. (per hour)	15.00	40.00
Records Manager (per hour)	20.00	40.00
Consultant	Actual cost	Actual cost
Conversion and mailing costs	Actual cost	Actual cost
COMMUTING VALUATION FEE		
Commuting valuation fee (each way)	1.50	1.50
ENCROACHMENT FEES		
Processing fee for easement encroachment applications	300.00	300.00
JORDAN AQUEDUCT LICENSE AGREEMENT		
Processing fee for Jordan Aqueduct easement encroachments		
District fee	150.00	150.00
U.S. Bureau of Reclamation fee	100.00	100.00

Proposed fee changes are highlighted with a red box

	2022/2023 Fees	2023/2024 Fees
TEMPORARY CONNECTIONS		
Temporary connection fee:		
Actual charges for services rendered	217.00	202.00
Deposit (meter provided by customer)	300.00	300.00
Deposit (meter provided by District)	1,500.00	1,500.00
LINE EXTENSION		
Cost of extending facilities	Applicant pays all exp.	Applicant pays all exp.
Deposit from applicant	2% of cost	2% if cost
FIRE HYDRANTS, FIRE LINES, AND DETECTOR CHECK SYSTEMS		
Installation and materials cost	Actual cost paid by cust.	Actual cost paid by cust.
Initial installation inspection fee	\$ 100.00	\$ 100.00
RETAIL CUSTOMER ACCOUNT FEES		
Past due interest fees	18%	18%
Collection charge for past due service fee	20.00	20.00
Service charge for dishonored checks	20.00	20.00
Service restoration fee	50.00	75.00
Damage to existing connection	50.00	75.00
Unauthorized use of services charge	100.00	200.00
Water-efficient landscaping perf. bond	2.00 per sq. foot	2.00 per sq. foot



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

SUMMARY OF FEES

Proposed fee changes are highlighted with a red box

Meter Size	FISCAL YEAR 2022/2023				FISCAL YEAR 2023/2024			
	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee
5/8"	\$ 2,907	\$ 311	\$ 100	\$ 100	\$ 2,907	\$ 370	\$ 200	\$ 200
3/4"	4,153	311	100	100	4,153	370	200	200
1"	8,305	379	100	100	8,305	456	200	200
1-1/2"	16,611	673	100	100	16,611	781	200	200
2"	26,577	881	100	100	26,577	841	200	200
3"	64,782	(a)	(a)	100	64,782	(a)	(a)	200
4"	118,767	(a)	(a)	100	118,767	(a)	(a)	200
6"	237,533	(a)	(a)	100	237,533	(a)	(a)	200
8"	472,575	(a)	(a)	100	472,575	(a)	(a)	200

Note: An impact fee for non-standard use can be calculated by the District using the following formula:

$$\text{Estimated Peak Usage (gpm)} \times \$4,153 = \text{Impact Fee}$$

a) Meters larger than 2" are purchased independently by, and installed by, a contractor.



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

June 7, 2023

Fiscal Year 2023/2024 Water Rates, Budget and Financial Plan

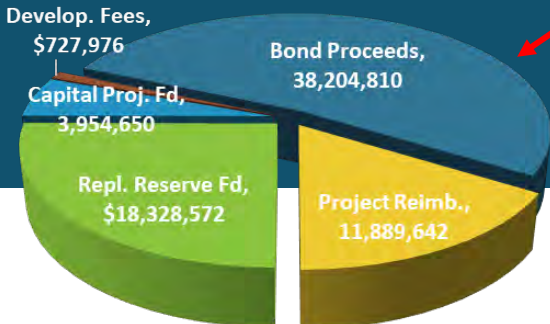
**2023/2024 TENTATIVE
BUDGET AND FINANCIAL PLAN**



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 BUDGET OVERVIEW

- Budgeted water deliveries of 102,000 AF
- 5.0% average water rate adjustment
- Property tax increase of approx. 9%
- Use of \$5.7 million from the Revenue Stabilization Fund
- Projected Capital Projects Funding



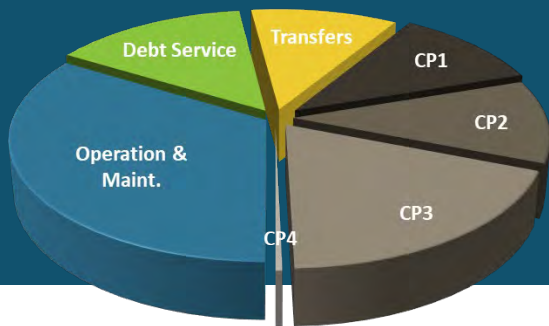
SOURCES OF FUNDS	2022/2023 Budget	2023/2024 Budget	\$ Change	% Change
Water Sales – Wholesale	\$ 52,554,723	\$ 54,767,689	\$ 2,212,966	4.2%
Water Sales – Retail	6,758,349	7,212,387	454,038	6.7%
Property Tax Revenue	25,650,346	28,735,600	3,085,254	12.0%
Investment Income	1,087,300	3,943,800	2,856,500	262.7%
Impact Fees	512,000	435,000	(77,000)	-15.0%
Other	2,243,093	3,575,000	1,331,907	59.4%
Subtotal	\$ 88,805,811	\$ 98,669,476	\$ 9,863,665	11.1%
Revenue Stabilization Fund	8,402,108	5,659,489	(2,742,619)	-32.6%
Capital Projects Fund (net)	51,445,090	61,216,008	9,770,918	19.0%
Capital Projects (reimb.)	2,849,431	11,889,642	9,040,211	317.3%
JVCGF Contributions	0	0	0	N/A
Total Sources of Funds	\$151,502,440	\$177,434,615	\$ 25,932,175	17.1%



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 BUDGET OVERVIEW

- 7.5% increase in Operation & Maint. Budgeted expenditures
- 9.7% increase in bond debt service
- Transferred and reserves funding increase of 3.8%

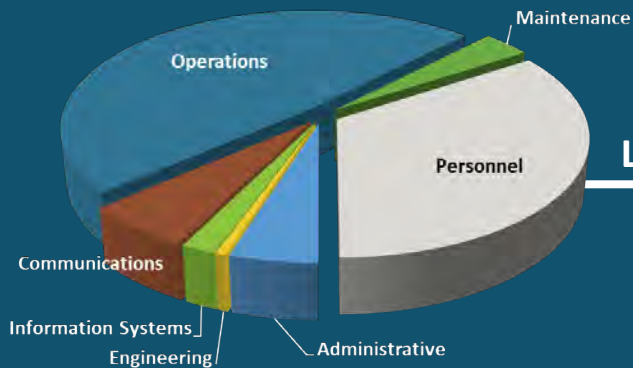


USES OF FUNDS	2022/2023 Budget	2023/2024 Budget	\$ Change	% Change
Operation & Maintenance	\$ 55,552,984	\$ 59,725,718	\$ 4,172,734	7.5%
Bond Principal and Interest	23,164,500	25,405,675	2,241,175	9.7%
Transfers to Reserve Funds:				
Replacement Reserve	15,880,435	14,328,572	(1,551,863)	-9.8%
Development Fee	512,000	435,000	(77,000)	-15.0%
General Equipment	900,000	900,000	0	0.0%
Emergency Reserve	100,000	300,000	200,000	200.0%
Interest Alloc. to Funds	698,000	2,734,000	2,036,000	291.7%
Revenue, O&M	400,000	500,000	100,000	50.0%
Total Transfers	18,490,435	19,197,572	707,137	3.8%
Subtotal	\$ 97,207,919	\$ 104,328,965	\$ 7,121,046	7.3%
Capital Projects (gross)	54,294,521	73,105,650	18,811,129	34.6%
JVCGF Contrib. Projects	0	0	0	N/A
Total Uses of Funds	<u>\$ 151,502,440</u>	<u>\$ 177,434,615</u>	<u>\$ 25,932,175</u>	<u>17.1%</u>



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 OPERATION & MAINTENANCE BUDGET



O&M EXPENSES	2022/2023 Budget	2023/2024 Budget	\$ Change	% Change
Administrative Services	\$ 2,667,136	\$ 2,936,795	\$ 269,659	10.1%
Engineering Department	316,439	350,835	34,396	10.9%
Information Systems Dept.	1,119,138	1,147,823	28,685	2.6%
Communications Dept.	2,184,975	3,687,936	1,502,961	68.8%
Operations Department	27,841,263	29,030,525	1,189,262	4.3%
Maintenance Department	1,891,562	2,159,802	268,240	14.2%
Personnel	<u>19,532,471</u>	<u>20,412,002</u>	<u>879,531</u>	<u>4.5%</u>
Total O&M Expenses	<u>\$ 55,552,984</u>	<u>\$ 59,725,718</u>	<u>\$ 4,172,734</u>	<u>7.5%</u>

Largest O&M Increases	Explanation of Increases	Amount
Insurance	Premium increases for property and liability insurance coverage	\$ 174,670
Conservation Programs	Salt Lake Co. Municipal Grant Program and higher Utah Water Savers part.	1,492,157
Water Purchases	Central Utah Water Conservancy District price increases for water	791,955
Chemicals	Price increases on various chemicals for water treatment	391,503
Repair & Replacement	Price increases on repair parts, increase in critical parts inventory	173,100
Personnel	Pay raises for employees, four new positions, health insurance premiums	879,531



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 GENERAL EQUIPMENT BUDGET



GENERAL EQUIPMENT

	2022/2023 Budget	2023/2024 Budget	\$ Change	% Change
Conservation Assets	\$ 50,000	\$ 625,000	\$ 575,000	1150.0%
IS Equipment	111,000	111,000	0	0.0%
Telemetry Equipment	64,000	64,000	0	0.0%
General Equipment	227,800	97,000	(130,800)	-57.4%
New Vehicles	<u>450,300</u>	<u>526,000</u>	<u>75,700</u>	<u>16.8%</u>
Total General Equipment	<u>\$ 903,100</u>	<u>\$ 1,423,000</u>	<u>\$ 519,900</u>	<u>57.6%</u>

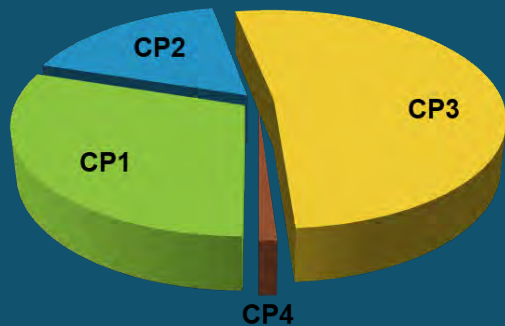
Largest Gen. Equip. Items

	Description	Amount
Garden Park frontage project	Phase 1 frontage project – park strip, frontage planting, entry signs	\$ 500,000
Network & storage servers	Scheduled replacement of computer servers	111,000
Utility tractor & rotary cutter	Larger equipment needs for grounds maintenance	60,000
Light duty pickup trucks	Three replacement vehicles and one truck for new position	206,000
Utility truck and attachments	To replace ¾ ton utility truck, with utility bed and equipment	75,000
1 ton dump truck and body	To replace 1 ton dump truck	90,000
Valve turning/vactor body	Service body for vactor truck purchased prior year	155,000



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 CAPITAL PROJECTS BUDGET



CAPITAL PROJECTS	2022/2023 Budget	2023/2024 Budget	\$ Change	% Change
CP1: Major rehabilitation or replacement of existing facilities	\$ 19,880,435	\$ 18,328,572	\$ (1,551,863)	-7.8%
CP2: New facilities needed for compliance or functional upgrades (no new capacity)	7,062,654	10,445,086	3,382,432	47.9%
CP3: New water supply, treatment, conveyance, or storage facilities (new capacity)	23,897,001	31,792,350	7,895,349	33.0%
CP4: Projects to serve lands currently outside current boundaries	<u>605,000</u>	<u>650,000</u>	<u>45,000</u>	<u>7.4%</u>
Total Capital Projects	<u>\$ 51,445,090</u>	<u>\$ 61,216,008</u>	<u>\$ 9,770,918</u>	<u>19.0%</u>

Capital Project Category	Major Capital Projects Included in Budget	Amount
CP1	Distribution and transmission pipeline replacements	\$ 7,750,000
CP1	Storage reservoir paint coating replacement	4,000,000
CP1	JVWTP sedimentation basins equipment replacement	2,114,285
CP2	JVWTP floc/sed basins seismic and process upgrades and capacity incr.	2,427,857
CP3	JVWTP expansion from 180MGD to 255MGD	9,000,000
CP3	5200 West 6200 South 5MG reservoir	6,700,000
CP3	U-111 12200 South 6MG reservoir and pipeline extension	4,000,000



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

June 7, 2023

Fiscal Year 2023/2024 Water Rates, Budget and Financial Plan

2023/2024
TAX RATE



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2023/2024 TAX RATE

Certified tax rates are calculated each year:

- **County Assessor:** assesses and values properties
- **County Auditor:** calculates the certified tax rates
- **County Treasurer:** collects and distributes property taxes
- **State Tax Commission:** approves the certified tax rates and calculates the certified tax rates for centrally assessed properties (multi-county equalized rates)

- The Certified Tax Rate (CTR) has not yet been received.
 - County Auditors report CTR to taxing entities by June 8.
 - JWVCD's CTR is calculated by the State Tax Commission, and is centrally assessed due to taxing in multiple counties.
- Tax Rate Resolution states the tax rate levy will be based on budgeted property tax revenues.
- \$2,313,000 of additional property tax revenue from a tax rate increase is included in the 2023/2024 tentative budget.
- A Truth-in-Taxation public hearing will be considered for August 9.

Current Tax Rate (2022/2023): 0.000319

2023 Certified Tax Rate: _____

**Proposed Tax Rate for
Fiscal Year 2023/2024:** _____



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Resolution of the Board of Trustees

RESOLUTION NO. 23-11

ADOPTING JORDAN VALLEY WATER CONSERVANCY DISTRICT'S RETAIL WATER RATES AND WHOLESALE WATER RATES FOR FISCAL YEAR 2023-2024, AND AMENDING PENALTIES AND FEES FOR SERVICES

WHEREAS, the Jordan Valley Water Conservancy District furnishes water to its retail customers and wholesale water to its member agencies; and,

WHEREAS, Utah Code Ann. § 17B-1-103 and § 17B-2a-1004 authorize the District's Board of Trustees periodically to fix rates for the sale, lease, or other disposal of water; and,

WHEREAS, the District's wholesale water purchase agreements provide for the periodic review and adjustment of water rates; and,

WHEREAS, it is in the best interests of the District, its retail customers, and its member agencies to adopt and implement the water rates set forth on the attached water rate schedules.

WHEREAS, this Resolution is adopted after proper notice and hearing required by law.

BE IT RESOLVED by the Board of Trustees of the Jordan Valley Water Conservancy District:

1. The retail water rates and charges set forth on Exhibit 1 are hereby approved and adopted for the Jordan Valley Water Conservancy District, effective July 1, 2023.
2. The wholesale water rates and charges set forth on Exhibit 1 are hereby approved and adopted for the Jordan Valley Water Conservancy District, effective July 1, 2023.
3. The fees and charges set forth on Exhibit 2 are hereby approved and adopted for the Jordan Valley Water Conservancy District, effective July 1, 2023.
4. Any resolutions in conflict with this Resolution are repealed.
5. This Resolution shall take effect upon approval by the Board.

PASSED, ADOPTED, and APPROVED this 7th day of June 2023.

Corey L. Rushton
Chair of the Board of Trustees

ATTEST:

Alan E. Packard
District Clerk

EXHIBIT 1

RETAIL WATER AND WHOLESALE WATER RATES



JORDAN VALLEY WATER CONSERVANCY DISTRICT

2023/2024 **TENTATIVE** Water Rates Summary

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

WHOLESALE WATER RATES (NON-PUMPED)

MEMBER AGENCY (Rate per Acre Foot)	PUMP ZONES	2022/2023 RATES	2023/2024 RATES	\$ CHANGE	% CHANGE
Bluffdale City Water	JVWTP	\$565.38	\$568.28	\$2.90	0.5%
Draper City		532.54	559.55	27.01	5.1%
Draper Irrigation (Water Pro)		772.01	743.26	(28.75)	-3.7%
Granger-Hunter Impr. District	B North	557.28	581.29	24.01	4.3%
Herriman City	C South D South	630.53	671.14	40.61	6.4%
Hexcel Corporation	B North	420.72	434.26	13.54	3.2%
Kearns Improvement District	B North	561.53	588.73	27.20	4.8%
Magna Water District	B North	397.14	418.54	21.40	5.4%
Midvale City Water		501.34	523.68	22.34	4.5%
Riverton City	C South	483.59	487.60	4.01	0.8%
City of South Jordan	B North/South, C South, D South	532.79	560.44	27.65	5.2%
City of South Salt Lake		408.51	420.17	11.66	2.9%
Taylorsville-Bennion Impr. Dist.	B North	395.21	413.91	18.70	4.7%
Utah Div. of Fac. Const. Mgmt.		397.51	418.10	20.59	5.2%
City of West Jordan	B North/South, C South, D South	530.43	556.27	25.84	4.9%

BLOCK 2 RATE	Plus Pumping	1,094.58	1,128.52	33.94	3.1%
BCWTP RATE		527.65	517.93	(9.72)	-1.8%

ZONE	PUMP ZONE SURCHARGE			
B North	\$22.92	\$22.43	(\$0.49)	-2.1%
B South	41.60	40.36	(1.24)	-3.0%
C South	57.93	56.36	(1.57)	-2.7%
D South	99.74	91.91	(7.83)	-7.9%
JVWTP	29.58	29.58	0.00	0.0%

METER SIZE	METER BASE CHARGE (MONTHLY)			
4"	\$25.00	\$25.00	\$0.00	0.0%
6"	50.00	50.00	0.00	0.0%
8"	78.00	78.00	0.00	0.0%
10"	114.00	114.00	0.00	0.0%
12"	168.00	168.00	0.00	0.0%
14"	228.00	228.00	0.00	0.0%
16"	300.00	300.00	0.00	0.0%
18"	378.00	378.00	0.00	0.0%
20"	462.00	462.00	0.00	0.0%
24"	672.00	672.00	0.00	0.0%
30"	1,050.00	1,050.00	0.00	0.0%



JORDAN VALLEY WATER CONSERVANCY DISTRICT

2023/2024 **TENTATIVE** Water Rates Summary

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

RETAIL WATER RATES (Overall Average **7.2%** Rate Increase)

RETAIL SYSTEM (Rate per 1,000 Gal.)	TIER	2022/2023 RATES	2023/2024 RATES	\$ CHANGE	% CHANGE
Non-Pumped	Tier 1	\$1.58	\$1.70	\$0.12	7.6%
	Tier 2	2.38	2.56	0.18	7.6%
	Tier 3	3.57	3.84	0.27	7.6%
	Tier 4	4.39	4.71	0.32	7.3%
Zone C South *	Tier 1	1.76	1.87	0.11	6.2%
	Tier 2	2.56	2.73	0.17	6.6%
	Tier 3	3.75	4.01	0.26	6.9%
	Tier 4	4.57	4.88	0.31	6.8%
Casto/Upper Willow Crk ‡	Tier 1	2.14	2.38	0.24	11.2%
	Tier 2	2.94	3.24	0.30	10.2%
	Tier 3	4.13	4.52	0.39	9.4%
	Tier 4	4.95	5.39	0.44	8.9%
Fireline Charges (Annual)	2"	\$5.00	\$5.81	\$0.81	16.2%
	4"	30.94	35.97	5.03	16.3%
	6"	89.89	104.48	14.59	16.2%
	8"	191.55	222.64	31.09	16.2%
	10"	344.48	400.39	55.91	16.2%

* Zone C South includes retail customers in the Riverton Foothills area, which rate includes a pump surcharge of \$0.17 per thousand gallons.

‡ Customers in the Casto/Upper Willow Creek areas have a pump surcharge of \$0.68 per thousand gallons included in their rate.

Meter Size	TIER THRESHOLDS				METER BASE CHARGE (MONTHLY)			
	Tier 1	Tier 2	Tier 3	Tier 4	2022/2023 RATES	2023/2024 RATES	\$ Change	% Change
5/8"	1-6	7-16	17-37	38+	\$3.00	\$3.00	\$0.00	0.0%
3/4"	1-9	10-23	24-53	54+	3.00	3.00	0.00	0.0%
1"	1-18	19-46	47-106	107+	4.00	4.00	0.00	0.0%
1-1/2"	1-36	37-92	93-212	213+	5.00	5.00	0.00	0.0%
2"	1-58	59-147	148-339	340+	8.00	8.00	0.00	0.0%
3"	1-140	141-359	360-827	828+	15.00	15.00	0.00	0.0%
4"	1-257	258-658	659-1516	1517+	25.00	25.00	0.00	0.0%
6"	1-515	516-1316	1317-3032	3033+	50.00	50.00	0.00	0.0%
8"	1-1024	1025-2617	2618-6031	6032+	78.00	78.00	0.00	0.0%

EXHIBIT 2
SUMMARY OF FEES



SUMMARY OF FEES

Approved fees charged by the District are included and described in the District's Administrative Policy and Procedures Manual, Rules and Regulations for Wholesale Water Service, and Rules and Regulations for Retail Water Service documents. The following is a summary of those fees.

	2022/2023 Fees	2023/2024 Fees
GRAMA REQUEST FEES		
Copies:		
Paper (per sheet)	\$ 0.25	\$ 0.25
Audio tape (per tape)	20.00	Remove
Compact Disc (per disc)	10.00	Remove
Personnel time (charged in 15 minute increments):		
First 15 minutes	No fee	No fee
Administrative Assistant (per hour)	15.00	40.00
Records Manager (per hour)	20.00	40.00
Consultant	Actual cost	Actual cost
Conversion and mailing costs	Actual cost	Actual cost
COMMUTING VALUATION FEE		
Employees assigned District vehicles to commute to and from work have a "Commuting Valuation" fee added to their semi-monthly paycheck (set by I.R.S.)		
Commuting valuation fee (each one-way)	1.50	1.50
ENCROACHMENT FEES		
Processing fee for the following easement encroachment applications:	300.00	300.00
Southwest Aqueduct Reaches 1 & 2		
150th South Pipeline		
134th South Pipeline		
5600 West Pipeline		
Central Pipeline		
Wasatch Front Regional Pipeline right-of-way		
JORDAN AQUEDUCT LICENSE AGREEMENT FEES		
Processing fee for all Jordan Aqueduct easement encroachments:		
District fee	150.00	150.00
U.S. Bureau of Reclamation fee	100.00	100.00



SUMMARY OF FEES (CONTINUED)

WHOLESALE AND RETAIL WATER RATES AND FIRE LINES

WHOLESALE AND RETAIL WATER RATES

Wholesale and retail water rates are reviewed and updated annually by a water rate consultant performing a comprehensive water rate study. The updated wholesale and retail water rates for this proposed budget and financial plan are included in a separate accompanying document.

METER BASE CHARGE/FLAT FEES

Meter base charges/flat fees are based on meter capacity and charged monthly to wholesale member agencies and retail customers for each active meter, regardless of the actual volume of water taken through the meter. Meter base charges/flat fees for this proposed budget and financial plan are included in a separate accompanying document.

FEE IN LIEU OF TAX

A fee approximating property tax is charged to customers outside the District's boundaries.

FIRE HYDRANTS, FIRE LINES, AND DETECTOR CHECK SYSTEMS

	Meter Size	2022/2023 Fees	2023/2024 Fees
Installation and materials cost		Actual cost paid by cust.	Actual cost paid by cust.
Inspecting and maintaining fire lines:			
Initial installation inspection fee		\$ 100.00	\$ 200.00
Annual fire line charges	2"	5.00	Annual fire line charges will be updated by water rate consultant as part of the water rate update.
	4"	30.94	
	6"	89.89	
	8"	191.55	
	10"	344.48	

RETAIL IMPACT AND CONNECTION FEES

Meter Size	FISCAL YEAR 2022/2023				FISCAL YEAR 2023/2024			
	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee
5/8"	\$ 2,907	\$ 311	\$ 100	\$ 100	\$ 2,907	\$ 370	\$ 200	\$ 200
3/4"	4,153	311	100	100	4,153	370	200	200
1"	8,305	379	100	100	8,305	456	200	200
1-1/2"	16,611	673	100	100	16,611	781	200	200
2"	26,577	881	100	100	26,577	841	200	200
3"	64,782	(a)	(a)	100	64,782	(a)	(a)	200
4"	118,767	(a)	(a)	100	118,767	(a)	(a)	200
6"	237,533	(a)	(a)	100	237,533	(a)	(a)	200
8"	472,575	(a)	(a)	100	472,575	(a)	(a)	200

Note: An impact fee for non-standard use can be calculated by the District using the following formula:

$$\text{Estimated Peak Usage (gpm)} \times \$4,153 = \text{Impact Fee}$$

a) Meters larger than 2" are purchased independently by, and installed by, a contractor.



SUMMARY OF FEES (CONTINUED)

OTHER RETAIL CUSTOMER FEES

	2022/2023 Fees	2023/2024 Fees
TEMPORARY CONNECTIONS		
Temporary connection fee:		
Actual charges for services rendered, cost of District's labor and materials, plus ten percent	\$ 217.00	\$ 202.00
Deposit (if meter provided by customer)	300.00	300.00
Deposit (if meter provided by District)	1,500.00	1,500.00
LINE EXTENSION		
Cost of extending facilities	Applicant pays all exp.	Applicant pays all exp.
Deposit from applicant	2% of cost	2% of cost
UPGRADING CONNECTION SIZE (Refer to Connection Fees listing for amounts)		
New connection fee	Based on meter size	Based on meter size
Existing meter credit	Impact fee based on meter size	Impact fee based on meter size
PAST DUE INTEREST FEE		
Interest charged on past due balance	18%	18%
COLLECTION CHARGE FOR PAST DUE SERVICE FEE		
	20.00	20.00
SERVICE CHARGE FOR DISHONORED CHECKS		
	20.00	20.00
SERVICE RESTORATION FEE		
	50.00	75.00
DAMAGE TO EXISTING CONNECTION		
Fee plus cost of labor and materials to replace	50.00	75.00
UNAUTHORIZED USE OF SERVICES CHARGE		
Fee plus water usage	100.00	200.00
WATER-EFFICIENT LANDSCAPING PERFORMANCE BOND		
For new water service connections after 7/1/2021		
Charge per square foot of the total landscaped area, reimbursed if landscaping meets requirements	2.00	2.00

Resolution of the Board of Trustees



RESOLUTION NO. 23-12

ADOPTING JORDAN VALLEY WATER CONSERVANCY DISTRICT'S TENTATIVE BUDGET AND FINANCIAL PLAN FOR FISCAL YEAR 2023-2024

BE IT RESOLVED by the Jordan Valley Water Conservancy District's Board of Trustees:

1. The tentative budget and financial plan attached as Exhibit 1 are hereby approved and adopted as the Jordan Valley Water Conservancy District's tentative budget for the fiscal year July 1, 2023, through June 30, 2024.
2. A copy of the tentative budget for each fund for which a budget is required shall be certified by the District's budget officer and filed with the State Auditor within thirty (30) days after adoption of this Resolution.
3. This Resolution shall take effect upon adoption by the Board.

PASSED, ADOPTED, and APPROVED this 7th day of June 2023.

Corey L. Rushton
Chair of the Board of Trustees

ATTEST:

Alan E. Packard
District Clerk

EXHIBIT 1

BUDGET AND FINANCIAL PLAN



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

TENTATIVE FINANCIAL PLAN
FOR THE
2023/2024 BUDGET

July 1, 2023 through June 30, 2024



PARAMETERS FOR 2023/2024 BUDGET PREPARATION

Preparation of the fiscal year 2023/2024 budget will be based upon the following budget parameters, derived from the document Establishing a Level of Service for Preparation of Fiscal Year 2023/2024 Budget, and updated for the tentative budget preparation.

WATER DELIVERIES

Budgeted water deliveries do not include an adjustment for minimum purchase contracts either missed or carried over, as historically those adjustments have been immaterial.

Budgeted Water Deliveries (acre-feet)	2022/2023	2023/2024
Wholesale water deliveries	93,500	93,500
Retail water deliveries	8,500	8,500
Total budgeted water deliveries	102,000	102,000

WATER RATE ADJUSTMENTS

A water rate study update will be completed by HDR Engineering, including the calculated revenue requirement and any needed water rate adjustment. A transfer from the Revenue Stabilization Fund can be included in the budget, at the desired amount, to offset the water rate adjustment. Proposed updated water rates for wholesale member agencies and retail customers will be calculated by HDR Engineering. The Board may approve these rates on a tentative basis during the April board meeting, when approving the tentative budget.

Estimated average water rate adjustment needed (including use of funds available from the Revenue Stabilization Fund)	4.0% - 6.0%
-----------------------------------------------------------------------------------------------------------------------	--------------------

REVENUE STABILIZATION FUND

The Revenue Stabilization Fund is funded by year-end annual transfers of PayGo Capital from operations, which exceeded what was budgeted. The District intends to use the Revenue Stabilization Fund, when available, as a source of funds when budgeting and calculating water rates.

Revenue Stabilization Fund balance as of 1/31/2023	\$8.5 million
Estimated need from the Revenue Stabilization Fund	\$5.0 – \$7.0 million

PROPERTY TAX RATE

By State statute, the District may levy a maximum property tax rate of 0.0004 for operation and maintenance expenses. The District has sought to maintain its tax rate at or near the maximum, holding Truth in Taxation public hearings when needed.

The District will reserve the date of its August 2023 Board meeting for a possible hearing, pending receipt of the actual certified tax rate, and decision by the Board.

	2022 Certified Tax Rate	2022 Adopted Tax Rate	Estimated 2023 Certified Tax Rate	Estimated Property Tax Revenue for FY 2023/2024
Projected property tax rate and revenue *	0.000296	0.000319	0.000345	\$26.1 million *

* Net of RDA outlays and including new growth (without tax rate increase)



PARAMETERS FOR 2023/2024 BUDGET PREPARATION

RESERVE FUND BALANCES

Reserve fund balances to be maintained	Reserve as of 1/31/2023
Operation & Maintenance Fund minimum balance of three-months working capital (required by bond covenants)	\$7.4 million
Revenue Fund minimum balance of 25% of annual debt service amount (required by bond covenants)	\$5.8 million
Emergency Reserve/Self-Insurance Fund to be increased to \$10 million (proposed) over the next 10 years (set by Board res.)	\$5.1 million

OPERATION AND MAINTENANCE EXPENSES

Budgeted Operation and Maintenance expenses will be based on level of service with inflationary increases and cost variations related to changing water demands.

- Preliminary personnel compensation adjustment estimate 6% - 9%
- Four proposed new personnel positions (2 full-time, 2 part-time):
 - Maintenance Worker - Facilities & Grounds
 - Treatment Plant Operator - JVVWTP
 - Water Quality Technician (part-time)
 - System Operator (part-time)

CAPITAL PROJECT EXPENDITURES

Capital Project Categories	Tentative Budget Amount
CP1: Major rehabilitation or replacement of existing facilities	\$18.3 million
CP2: New facilities needed for compliance or functional upgrades (no new capacity)	\$10.4 million
CP3: New water supply, treatment, conveyance, or storage facilities (new capacity)	\$31.8 million
CP4: Projects to serve lands currently outside current boundaries	\$0.7 million
Total tentative net capital project expenditures budget estimate	\$61.2 million

Major projects include: two new storage reservoirs, four new wells, JVVWTP expansion, JVVWCD floc/sed basins seismic upgrade and increase capacity, storage reservoir repainting, transmission facilities rehabilitation, and distribution pipeline replacements.

Note: CP1 projects are funded by the Replacement Reserve Fund through annual PayGo Capital transfers (see below). All other capital projects are funded by either new bonds issued or fund balances available in the Capital Projects Fund.

PAYGO CAPITAL FROM OPERATIONS

Tentative amount of generated surplus from operations of PayGo Capital to be budgeted for a year-end funding transfer. \$19.2 million

- Funds to receive budgeted PayGo Capital funding transfer:
- Replacement Reserve Fund
 - Development Fee Fund
 - General Equipment Fund
 - Emergency Reserve/Self-Insurance Fund
 - Operation & Maintenance and Revenue Funds minimum reserve requirements



OVERVIEW - 2023/2024 BUDGET

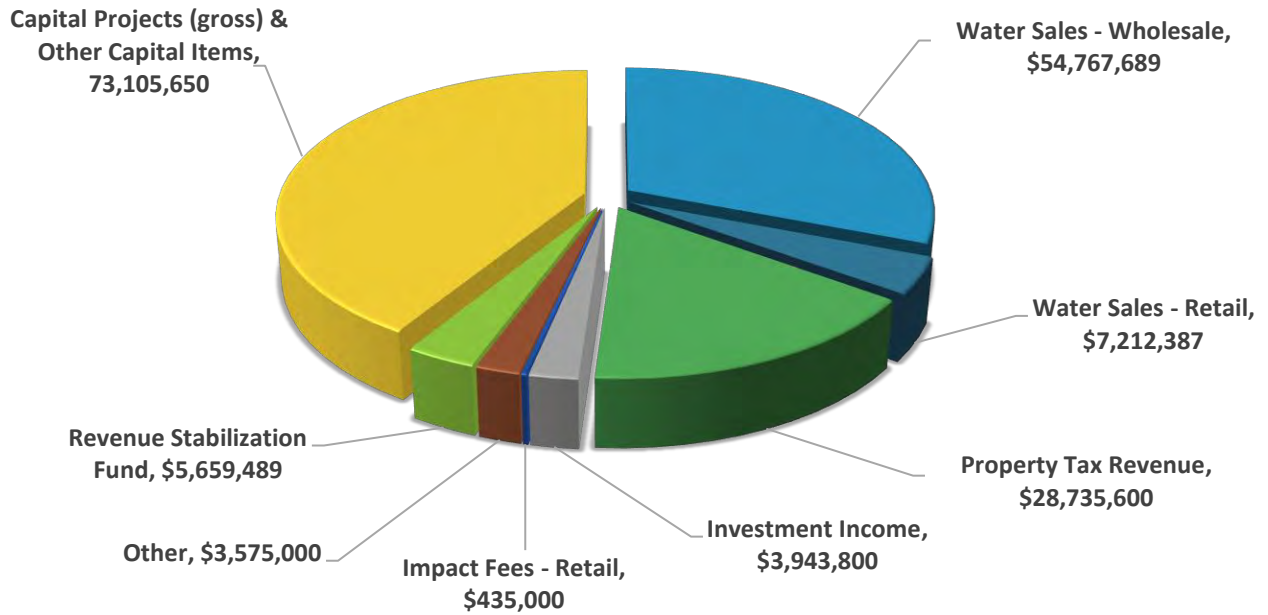
SOURCES OF FUNDS	2021/2022	2022/2023		2023/2024	Budget to Budget	
	Actual	Projected	Budget	Budget	\$ Variance	% Var.
Water Sales - Wholesale	\$ 48,200,098	\$ 52,418,862	\$ 52,554,723	\$ 54,767,689	\$ 2,212,966	4.2%
Water Sales - Retail	6,052,698	6,493,911	6,758,349	7,212,387	454,038	6.7%
Property Tax Revenue	24,204,336	26,302,824	25,650,346	28,735,600	3,085,254	12.0%
Investment Income	584,237	2,628,715	1,087,300	3,943,800	2,856,500	262.7%
Impact Fees - Retail	336,820	231,432	512,000	435,000	(77,000)	-15.0%
Other	1,587,432	2,239,982	2,243,093	3,575,000	1,331,907	59.4%
Subtotal	80,965,621	90,315,726	88,805,811	98,669,476	9,863,665	11.1%
Revenue Stabiliz. Fd. (rates)	5,590,263	8,402,108	8,402,108	5,659,489	(2,742,619)	-32.6%
Capital Projects Fd. (net)	13,970,831	41,445,089	51,445,090	61,216,008	9,770,918	19.0%
Capital Projects (reimb.)	971,104	2,575,428	2,849,431	11,889,642	9,040,211	317.3%
JVCGF Contributions	-	-	-	-	-	N/A
Total Sources	\$ 101,497,819	\$ 142,738,351	\$ 151,502,440	\$ 177,434,615	\$ 25,932,175	17.1%
USES OF FUNDS						
Operation and Maintenance	\$ 47,998,982	\$ 53,225,066	\$ 55,552,984	\$ 59,725,718	\$ 4,172,734	7.5%
Bond Principal and Interest	21,891,591	23,265,239	23,164,500	25,405,675	2,241,175	9.7%
Transfers to Reserve Funds:						
Replacement Reserve Fd.	10,898,744	15,880,435	15,880,435	14,328,572	(1,551,863)	-9.8%
Capital Projects Fund	-	-	-	-	-	N/A
Development Fee Fund	336,820	231,432	512,000	435,000	(77,000)	-15.0%
General Equipment Fund	700,000	900,000	900,000	900,000	-	0.0%
Emergency Reserve Fund	200,000	100,000	100,000	300,000	200,000	200.0%
Interest Allocated to Funds	387,169	1,800,000	698,000	2,734,000	2,036,000	291.7%
Short-Term Operating Res.	-	2,227,179	-	-	-	N/A
Revenue Stabilization Fd.	3,648,578	688,483	-	-	-	N/A
Revenue Fund	300,000	200,000	200,000	200,000	-	0.0%
Operation & Maint. Fund	200,000	200,000	200,000	300,000	100,000	50.0%
Total Transfers	16,671,311	22,227,529	18,490,435	19,197,572	707,137	3.8%
Subtotal	86,561,884	98,717,834	97,207,919	104,328,965	7,121,046	7.3%
Capital Projects (gross)	14,941,935	44,020,517	54,294,521	73,105,650	18,811,129	34.6%
JVCGF Contrib. Projects	-	-	-	-	-	N/A
Total Uses	\$ 101,503,819	\$ 142,738,351	\$ 151,502,440	\$ 177,434,615	\$ 25,932,175	17.1%
Non-Operating and Non-Cash Expenses and Accruals*						
Depreciation & Amortiz.	\$ 8,632,413	\$ 9,000,000	\$ 9,000,000	\$ 9,200,000	\$ 200,000	2.2%
Net Pension Expense	(2,661,432)	(327,000)	(327,000)	(960,000)	(633,000)	193.6%
OPEB Expense	419,205	420,000	420,000	430,000	10,000	2.4%
Self Insurance Claims	122,513	75,000	100,000	100,000	-	0.0%
Bond Issuance Costs	-	-	250,000	700,000	450,000	180.0%
	\$ 6,512,699	\$ 9,168,000	\$ 9,443,000	\$ 9,470,000	\$ 27,000	0.3%

* These are non-operating and non-cash expenses and accruals, not included in the operating budget, but disclosed here for reference. The operating budget is prepared on a modified accrual basis.

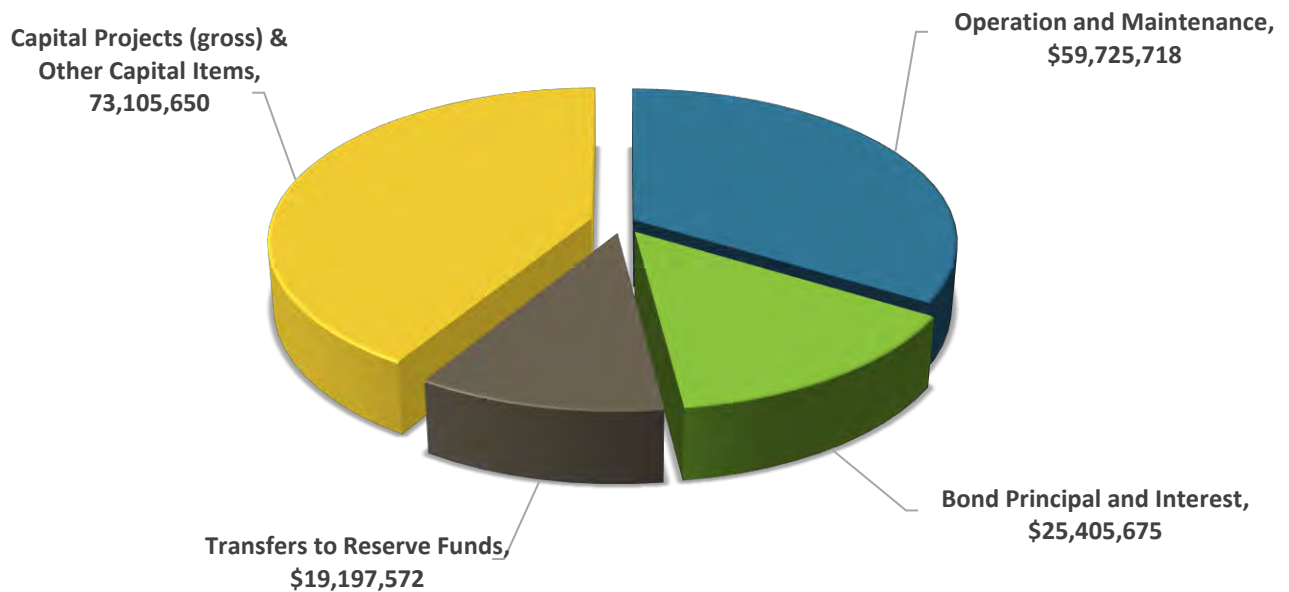


OVERVIEW - 2023/2024 BUDGET (SOURCES & USES)

SOURCES



USES





REVENUE DETAIL - 2023/2024 BUDGET

	<u>Deliveries AF</u>	<u>Rate per AF</u>	<u>Budgeted Revenues</u>	<u>Total</u>
WATER SALES - WHOLESALE				
Wholesale Deliveries	94,350	\$578.36	\$ 54,568,266	
Meter Base Charges			199,423	\$ 54,767,689
WATER SALES - RETAIL				
Retail Deliveries	7,650	883.50	6,758,775	
Meter Base Charges			386,000	
Other Fees			24,820	
Fire Line Charges			42,792	7,212,387
PROPERTY TAX REVENUE (S.L. & Utah Co.)	<u>Prop. Valuation</u>			
2022 Certified Tax Rate Value	\$77,075,437,321			
x Collection Rate (97.67%)	75,279,579,631			
x 2022 Adopted Tax Rate (0.000319)			\$24,014,200	
New Growth x Collection Rate (4-year avg.)	1,821,394,585			
New Growth x 2023 Estimated Certified Tax Rate (0.000345)			\$628,400	
<u>Truth In Taxation (CTR of 0.000345 to 0.000375)</u>				
Estimated Tax Increase on 2023 Taxable Value			\$2,313,000	
+ Vehicles Flat Tax (2022=\$1,381,035)			1,390,000	
+ Redemptions (2022=\$359,112)			370,000	
+ Interest (2022=\$15,863)			20,000	28,735,600
INVESTMENT INCOME	<u>Average Bal.</u>			
Revenue Fund	\$14,170,000	3.60%	\$509,600	
Operation & Maintenance Fund	15,500,000	3.73%	578,800	
General Equipment Fund	600,000	3.75%	22,500	
Emg. Reserve/Self Insurance Fund	5,100,000	3.75%	191,300	
Other Maintenance Reserve Funds	402,000	3.75%	15,100	
Revenue Stabilization Fund	5,500,000	3.75%	206,300	
Capital Projects and R&R Funds	21,300,000	3.75%	798,800	
Bond Projects Fund	40,000,000	3.75%	1,500,000	
Bond Debt Service Reserve Funds	4,855,000	2.50%	121,400	3,943,800
RETAIL IMPACT FEES				
Retail Impact Fees (3/4" to 8" size) - Restricted to Development Fee Fund				
5-Year Average Impact Fee Revenue				435,000
OTHER				
Grant Revenue			\$2,240,000	
Operation & Maintenance Cost Sharing			700,000	
Site Leases (Cell Towers)			250,000	
Land Leases/Home Rentals/Conserv. Bldg Rental/Easements			200,000	
Miscellaneous Water Sales			50,000	
Sale of Assets/Scrap/Surplus			50,000	
Board Service/Other			50,000	
Lab Services			35,000	3,575,000
TOTAL REVENUES				\$ 98,669,476



REVENUE DETAIL

REVENUE SOURCE	2021/2022	2022/2023		2023/2024	Budget to Budget	
	Actual	Projected	Budget	Budget	\$ Variance	% Var.
Water Sales						
Wholesale Deliveries	\$ 48,000,902	\$ 52,224,101	\$ 52,359,904	\$ 54,568,266	\$ 2,208,362	4.2%
Wholesale Meter Charges	199,196	194,761	194,819	199,423	4,604	2.4%
Retail Deliveries	5,610,046	6,047,193	6,314,156	6,758,775	444,619	7.0%
Retail Meter Charges	384,864	385,591	386,000	386,000	-	0.0%
Other Fees	21,024	24,541	23,997	24,820	823	3.4%
Fire Line Charges	36,764	36,586	34,196	42,792	8,596	25.1%
	<u>54,252,796</u>	<u>58,912,773</u>	<u>59,313,072</u>	61,980,076	2,667,004	4.5%
Property Tax Revenue	24,204,336	26,302,824	25,650,346	28,735,600	3,085,254	12.0%
Interest Income	584,237	2,628,715	1,087,300	3,943,800	2,856,500	262.7%
Impact Fees - Retail	336,820	231,432	512,000	435,000	(77,000)	-15.0%
Miscellaneous Revenue						
O&M Cost Sharing	576,343	805,030	810,000	700,000	(110,000)	-13.6%
Grant Revenue	234,671	708,093	713,093	2,240,000	1,526,907	214.1%
Other Revenues	776,418	726,859	720,000	635,000	(85,000)	-11.8%
	<u>1,587,432</u>	<u>2,239,982</u>	<u>2,243,093</u>	3,575,000	1,331,907	59.4%
Total Revenues	\$ 80,965,621	\$ 90,315,726	\$ 88,805,811	\$ 98,669,476	\$ 9,863,665	11.1%



OPERATION AND MAINTENANCE DETAIL

Obj No.	Description	2021/2022 Actual	2022/2023 Projected	2022/2023 Budget	2023/2024 Budget	Budget to Budget \$ Variance	% Var.
5110	Emp. Wages & Benefits	\$ 17,393,807	\$ 19,013,737	\$ 19,587,691	\$ 20,467,172	\$ 879,481	4.5%
5170	Gen. Admin. & Uniforms	198,917	213,126	211,950	236,910	24,960	11.8%
5180	Tuition Assistance	25,475	31,800	45,000	45,000	-	0.0%
5210	Insurance	964,879	1,114,143	1,031,351	1,206,021	174,670	16.9%
5220	Office Supplies	38,863	42,291	47,811	53,171	5,360	11.2%
5230	Computer Equipment	767,481	802,671	822,775	844,080	21,305	2.6%
5250	Mailing	97,531	93,612	107,950	100,300	(7,650)	-7.1%
5260	Safety	82,075	91,654	97,449	104,379	6,930	7.1%
5270	Public Relations	158,808	143,016	192,925	202,964	10,039	5.2%
5280	Prof Consulting	274,763	291,910	316,350	429,371	113,021	35.7%
5282	Prof Consulting - Audit	29,600	30,908	38,900	38,900	-	0.0%
5284	Prof Consulting - Legal	395,744	401,398	442,750	452,750	10,000	2.3%
5286	Bond and Bank Fees	380,207	418,979	424,000	396,400	(27,600)	-6.5%
5290	Training & Education	195,445	209,435	356,609	357,597	988	0.3%
5310	Tools & Equipment	253,265	294,210	338,911	338,269	(642)	-0.2%
5320	Lubricants	6,717	6,186	8,940	9,540	600	6.7%
5330	Parts - General Equip.	84,518	88,975	107,050	112,450	5,400	5.0%
5340	Fuel	182,896	220,465	180,060	200,660	20,600	11.4%
5350	Bldg. & Grounds Maint.	314,241	373,392	389,512	409,420	19,908	5.1%
5360	Scheduled Maint.	408,397	436,797	552,539	667,427	114,888	20.8%
5380	Repair & Replacement	907,548	1,106,681	1,230,499	1,427,198	196,699	16.0%
5390	Utility Location	26,627	33,867	28,050	37,050	9,000	32.1%
5400	General Property	42,227	85,696	164,906	164,270	(636)	-0.4%
5410	Electrical Power	3,943,125	4,340,039	4,930,697	4,725,415	(205,282)	-4.2%
5420	Heat	185,336	175,269	169,611	178,823	9,212	5.4%
5430	Sewer	30,555	34,641	35,951	35,467	(484)	-1.3%
5440	Water	35,916	46,492	51,198	51,678	480	0.9%
5450	Phone & Telemetry	26,600	23,691	24,648	25,080	432	1.8%
5530	Lease	49,933	44,060	45,576	40,326	(5,250)	-11.5%
5670	Conservation Programs	1,104,592	1,552,803	1,567,873	3,060,030	1,492,157	95.2%
5710	Chemicals	1,452,843	2,273,183	2,780,169	3,171,672	391,503	14.1%
5720	Lab	133,956	141,622	174,961	190,180	15,219	8.7%
5750	Water Qual. - Field	1,892	3,074	15,670	15,120	(550)	-3.5%
5770	Water Qual. - Analysis	232,240	437,495	416,868	480,741	63,873	15.3%
5810	Water Purchases	16,390,693	17,396,814	17,402,067	18,194,022	791,955	4.6%
5820	Water stock assess.	1,181,270	1,210,934	1,213,717	1,255,865	42,148	3.5%
Total Expenses		\$ 47,998,982	\$ 53,225,066	\$ 55,552,984	\$ 59,725,718	\$ 4,172,734	7.5%



OPERATING FUNDS - CASH FLOW PROJECTIONS

	Revenue Fund	Operation & Maintenance Fund	General Equipment Fund
Beginning Balance July 1, 2023	\$13,000,000	\$13,500,000	\$350,000
SOURCES OF FUNDS:			
Water Sales	61,980,076		
Property Tax Receipts		28,735,600	
Transfer from Revenue Stabilization Fd	5,659,489		200,000
Transfer from DSRF's (Interest Income)	121,400		
Transfer from Revenue Fund		28,200,000	
PayGo Capital Transfer from 2022/2023			900,000
Conservation Garden Park Fundraising			0
Connection Fees / Miscellaneous	4,010,000		
Interest Income	509,600	578,800	22,500
Total Sources	72,280,565	57,514,400	1,122,500
USES OF FUNDS:			
Debt Service Payments	(25,405,675)		
Operation and Maintenance Expenses		(59,725,718)	
General Equipment Fund Purchases			(1,423,000)
Transfer to O&M Fund	(28,000,000)		
Transfer to O&M Reserve	(200,000)		
Transfer to Replacement Reserve Fund	(15,880,435)		
Transfer to Development Fee Fund	(512,000)		
Transfer to General Equipment Fund	(900,000)		
Transfer to Self Ins./ Emer. Reserve Fd	(100,000)		
Transfer to Revenue Stabilization Fund	(3,000,000)		
Total Uses	(73,998,110)	(59,725,718)	(1,423,000)
Ending Balance June 30, 2024	\$11,282,455	\$11,288,682	\$49,500



CAPITAL FUNDS - CASH FLOW PROJECTIONS

	Capital Projects Fund	Replacement Reserve Fund	Development Fee Fund
Beginning Balance July 1, 2023	\$11,000,000	\$10,600,000	\$200,000
SOURCES OF FUNDS:			
PayGo Capital Transfer from 2022/2023		15,880,435	512,000
Transfer from Bond Project Fund	51,472,500		
Transfer from Capital Projects Fund			
Transfer from Bond DSR Funds	0		
Reimbursement - from other agencies	892,004	1,957,427	
Interest Income	407,388	375,436	15,976
Total Sources	52,771,892	18,213,298	527,976
USES OF FUNDS:			
Transfer to Replacement Reserve Fund			
CP1 Capital Projects (gross)		(19,600,000)	
CP2 Capital Projects (gross)	(19,663,300)		
CP3 Capital Projects (gross)	(32,464,374)		
CP4 Capital Projects (gross)	(650,000)		
Development Fee Fund expenditures			(727,976)
Total Uses	(52,777,674)	(19,600,000)	(727,976)
Ending Balance June 30, 2024	\$10,994,218	\$9,213,298	\$0



RESERVE FUNDS - CASH FLOW PROJECTIONS

	Emg. Reserve/ Self Insurance Fund	Maintenance Reserve Funds	Revenue Stabilization Fund
Beginning Balance July 1, 2023	\$5,150,000	\$392,000	\$8,676,083
SOURCES OF FUNDS:			
PayGo Capital Transfer from 2022/2023	100,000		3,000,000
Interest Income	191,300	15,100	206,300
Total Sources	291,300	15,100	3,206,300
USES OF FUNDS:			
Self Insurance claims	(100,000)		
Transfer to Revenue Fund			(5,659,489)
Transfer to Capital Projects Fund			
Transfer to General Equipment Fund			(200,000)
Other expenditures			
Total Uses	(100,000)	0	(5,859,489)
Ending Balance June 30, 2024	\$5,341,300	\$407,100	\$6,022,894

REVENUE STABILIZATION FUND TRANSFER FOR JULY 1, 2023

Transfer to Revenue Fund - Prior Year Unspent O&M Funds ¹	\$2,982,386
Transfer to Revenue Fund - Additional Transfer for CP1 Projects ¹	2,677,103
Transfer to Capital Projects Fund ²	0
Transfer to General Equipment Fund ³	200,000
	\$5,859,489

¹Transfer amount determined by the Board to be used as an operating source to reduce the water rate adjustment

²Transfer amount determined by the Board to be used as an additional source to fund the Capital Projects Fund or Replacement Reserve Fund

³Transfer any additional amount needed to fund general equipment items, and deduct from amount available from prior year unspent O&M funds



RESTRICTED FUNDS - CASH FLOW PROJECTIONS

	2008 B-1 DSR Fund	2009C DSR Fund	2021A Bond Project Fund	2024A Bond Project Fund
Beginning Balance July 1, 2023	\$4,700,000	\$155,000	\$7,435,000	\$0
SOURCES OF FUNDS:				
New Money Bond Issue				100,700,000
Transfer from Other Fund				
Interest Income	117,500	3,900	37,500	1,462,500
Total Sources	117,500	3,900	37,500	102,162,500
USES OF FUNDS:				
Bond Issuance Costs				(700,000)
Transfer to Capital Projects Fund			(7,472,500)	(44,000,000)
Transfer Interest to Revenue Fund	(117,500)	(3,900)		
Transfer to Bond Fund				
Total Uses	(117,500)	(3,900)	(7,472,500)	(44,700,000)
Ending Balance June 30, 2024	\$4,700,000	\$155,000	\$0	\$57,462,500



SUMMARY OF FUND PURPOSES

OPERATING FUNDS

REVENUE FUND

<i>Purpose</i>	<i>Balance</i>
Established by bond covenants in 1982. All cash receipts, except property tax receipts and O&M reimbursements, are deposited into this fund. Money is transferred from this fund to the Principal and Interest Funds to make debt service payments and to the O&M Fund to pay operating expenses. At year-end, PayGo Capital from operations may be transferred to the Capital Projects Fund and other reserve funds, or used for other purposes as authorized by the Board.	Bond covenants require that a minimum balance of 25% of total annual debt service (currently defined in the 2023/2024 budget as \$5,968,919) be maintained in the fund at all times. (Master Resolution 6.12(ii))

OPERATION & MAINTENANCE FUND

<i>Purpose</i>	<i>Balance</i>
Established by bond covenants in 1982. All operation and maintenance expenses are paid from this fund. Property tax receipts, O&M reimbursements, and transfers from the Revenue Fund are the sources of funding.	Bond covenants require that a minimum balance of three months working capital (currently defined as \$7,400,000) be maintained in the fund at all times. (Master Resolution 5.05e)
In accordance with Utah law, including but not limited to Utah Code Ann. (1953) § 17B-1-642, and with the internal policies and practices of the District, all expenditures exceeding \$50,000 shall be brought to the Board for approval, with the exception of routine and budgeted expenditures exceeding that dollar amount that involve payroll, payroll-related expenses, insurance premiums, utilities, debt service and related bond expenses, supplies, materials, chemicals, water purchases, and software maintenance.	

GENERAL EQUIPMENT FUND

<i>Purpose</i>	<i>Balance</i>
Established by the Board in 1993, this fund facilitates the budgeting and funding of vehicles and other depreciable assets over \$10,000. Items under \$10,000 are budgeted and expensed from the O&M Fund. Expenditures from the fund are approved according to the procurement policy.	The maximum balance will be determined by the cost of designated general equipment purchases approved by the Board in the 2023/2024 budget.

CAPITAL FUNDS

CAPITAL PROJECTS FUND

<i>Purpose</i>	<i>Balance</i>
Established in 1989 in conjunction with the 1990 budget. Capital projects authorized by the Board are paid from this fund. Bond proceeds and capital reimbursements are transferred into the fund as projects are completed. At year-end, PayGo Capital from operations may be transferred from the Revenue Fund, when approved by the Board.	The maximum balance will be determined by the cost of designated projects approved by the Board. This fund has a target balance of approximately one to two years future project costs. Interest earnings accrue in the fund.

REPLACEMENT RESERVE FUND

<i>Purpose</i>	<i>Balance</i>
Established in 2016 to ensure a sustainable ongoing source of funding to rehabilitate and replace capital assets, as required by a new Utah Legislature enacted policy. The goal is to fund all replacements of qualified capital assets.	Upon Board approval, PayGo Capital from operations may be transferred from the Revenue Fund or Revenue Stabilization Fund at the end of each fiscal year.

DEVELOPMENT FEE FUND

<i>Purpose</i>	<i>Balance</i>
Established by the Board in 1992 to receive retail impact fees that will be used to fund expansion or improvements of the retail system. For example, the 5600 West Pipeline Project loan from the Board of Water Resources was repaid from this fund, also well development and other new water sources.	The balance in this fund is determined by impact and development fees collected. Fees collected in the 2023/2024 budget period will be transferred to this fund from the Revenue Fund, upon Board approval.



SUMMARY OF FUND PURPOSES

RESERVE FUNDS

EMERGENCY RESERVE / SELF-INSURANCE FUND

<i>Purpose</i>	<i>Balance</i>
Established by the Board in 1987. All self-insured claims and deductibles are paid from this fund. In addition, this fund will be used to begin repairs in the case of catastrophic events.	Interest will be allowed to accumulate, when possible, to a maximum balance of \$5,000,000.

BOND RENEWAL AND REPLACEMENT FUND

<i>Purpose</i>	<i>Balance</i>
Established by bond covenants in 1982. Separate funds are maintained for bond issues and the Jordan Aqueduct Repayment Contract. This fund is used in the case of extraordinary O&M expenses or major repairs not covered by insurance.	Bond covenants require a balance of \$100,000, subject to the periodic revision by a qualified engineer. Interest earnings have continued to accrue in the fund.

JORDAN AQUEDUCT MAINTENANCE FUND

<i>Purpose</i>	<i>Balance</i>
Established by contract with the U.S. Bureau of Reclamation in 1986. Separate funds are maintained for bond issues and the Jordan Aqueduct Repayment Contract. This fund is used in the case of extraordinary O&M expenses or major repairs not covered by insurance.	The current balance for the Jordan Aqueduct Repayment contract portion is approximately \$123,000. Interest earnings continue to accrue in the fund.

JVWTP MAINTENANCE FUND

<i>Purpose</i>	<i>Balance</i>
Established by the Operation and Maintenance Agreement for the JVWTP and Terminal Reservoir in 1993, through a contract between JVWCD, MWDSL&S, and CUWCD. This fund is used to cover unforeseen extraordinary O&M expenses and repair & maintenance costs at the treatment plant.	The District added \$10,000 annually to its portion of the fund until the fund reached a balance of \$50,000. Interest earnings have continued to accrue in the fund.

REVENUE STABILIZATION FUND

<i>Purpose</i>	<i>Balance</i>
Established by the Board in 2019. Used to fund the Replacement Reserve Fund and Capital Projects Fund, General Equipment Fund, to reduce water rate adjustments, pay off debt, or other purpose approved by the Board.	Upon Board approval, PayGo Capital from operations (in excess of budgeted) may be transferred from the Revenue Fund at the end of the fiscal year.

RESTRICTED FUNDS

PRINCIPAL AND INTEREST FUNDS

<i>Purpose</i>	<i>Balance</i>
Established by bond covenant in 1982. Semiannual debt service payments are paid from these funds after money is transferred from the Revenue Fund.	The balance is generally \$0. Funds are deposited and dispersed on April 1st and October 1st.

DEBT SERVICE RESERVE FUNDS

<i>Purpose</i>	<i>Balance</i>
Established by bond covenants for each applicable bond issue. Maintained as a reserve, in case revenues are not sufficient to meet debt service payments.	The balance must equal the average aggregate debt service payment.

BOND PROJECT CONSTRUCTION FUNDS

<i>Purpose</i>	<i>Balance</i>
Established through the issuance of bonds. The fund holds the bond proceeds until they are transferred to the Capital Projects Fund for payment of project costs.	The balance in the fund is the remaining amount of bond proceeds from the bond issue.

SUMMARY OF FEES

Approved fees charged by the District are included and described in the District's Administrative Policy and Procedures Manual, Rules and Regulations for Wholesale Water Service, and Rules and Regulations for Retail Water Service documents. The following is a summary of those fees.

	2022/2023 Fees	2023/2024 Fees
GRAMA REQUEST FEES		
Copies:		
Paper (per sheet)	\$ 0.25	\$ 0.25
Audio tape (per tape)	20.00	Remove
Compact Disc (per disc)	10.00	Remove
Personnel time (charged in 15 minute increments):		
First 15 minutes	No fee	No fee
Administrative Assistant (per hour)	15.00	40.00
Records Manager (per hour)	20.00	40.00
Consultant	Actual cost	Actual cost
Conversion and mailing costs	Actual cost	Actual cost
COMMUTING VALUATION FEE		
Employees assigned District vehicles to commute to and from work have a "Commuting Valuation" fee added to their semi-monthly paycheck (set by I.R.S.)		
Commuting valuation fee (each one-way)	1.50	1.50
ENCROACHMENT FEES		
Processing fee for the following easement encroachment applications:	300.00	300.00
Southwest Aqueduct Reaches 1 & 2		
150th South Pipeline		
134th South Pipeline		
5600 West Pipeline		
Central Pipeline		
Wasatch Front Regional Pipeline right-of-way		
JORDAN AQUEDUCT LICENSE AGREEMENT FEES		
Processing fee for all Jordan Aqueduct easement encroachments:		
District fee	150.00	150.00
U.S. Bureau of Reclamation fee	100.00	100.00

SUMMARY OF FEES (CONTINUED)

WHOLESALE AND RETAIL WATER RATES AND FIRE LINES

WHOLESALE AND RETAIL WATER RATES

Wholesale and retail water rates are reviewed and updated annually by a water rate consultant performing a comprehensive water rate study. The updated wholesale and retail water rates for the budgeted fiscal year proposed in this financial plan are included in a separate accompanying

METER BASE CHARGE/FLAT FEES

Meter base charges/flat fees are based on meter capacity and charged monthly to wholesale member agencies and retail customers for each active meter, regardless of the actual volume of water taken through the meter. Meter base charges/flat fees for the budgeted fiscal year proposed in this financial plan are included in a separate accompanying document.

FEE IN LIEU OF TAX

A fee approximating property tax is charged to customers outside the District's boundaries.

FIRE HYDRANTS, FIRE LINES, AND DETECTOR CHECK SYSTEMS

	Meter Size	2022/2023 Fees	2023/2024 Fees
Installation and materials cost		Actual cost paid by cust.	Actual cost paid by cust.
Inspecting and maintaining fire lines:			
Initial installation inspection fee		\$ 100.00	\$ 200.00
Annual fire line charges	2"	5.00	Annual fire line charges will be updated by water rate consultant as part of the water rate update.
	4"	30.94	
	6"	89.89	
	8"	191.55	
	10"	344.48	

RETAIL IMPACT AND CONNECTION FEES

Meter Size	FISCAL YEAR 2022/2023				FISCAL YEAR 2023/2024			
	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee	Impact Fee	Meter Fee	Install. Fee	Inspec. Fee
5/8"	\$ 2,907	\$ 311	\$ 100	\$ 100	\$ 2,907	\$ 370	\$ 200	\$ 200
3/4"	4,153	311	100	100	4,153	370	200	200
1"	8,305	379	100	100	8,305	456	200	200
1-1/2"	16,611	673	100	100	16,611	781	200	200
2"	26,577	881	100	100	26,577	841	200	200
3"	64,782	(a)	(a)	100	64,782	(a)	(a)	200
4"	118,767	(a)	(a)	100	118,767	(a)	(a)	200
6"	237,533	(a)	(a)	100	237,533	(a)	(a)	200
8"	472,575	(a)	(a)	100	472,575	(a)	(a)	200

Note: An impact fee for non-standard use can be calculated by the District using the following formula:
Estimated Peak Usage (gpm) x \$4,153 = Impact Fee

a) Meters larger than 2" are purchased independently by, and installed by, a contractor.

SUMMARY OF FEES (CONTINUED)

OTHER RETAIL CUSTOMER FEES

	2022/2023 Fees	2023/2024 Fees
TEMPORARY CONNECTIONS		
Temporary connection fee:		
Actual charges for services rendered, cost of District's labor and materials, plus ten percent	\$ 217.00	\$ 202.00
Deposit (if meter provided by customer)	300.00	300.00
Deposit (if meter provided by District)	1,500.00	1,500.00
LINE EXTENSION		
Cost of extending facilities	Applicant pays all exp.	Applicant pays all exp.
Deposit from applicant	2% of cost	2% of cost
UPGRADING CONNECTION SIZE		
(Refer to Connection Fees listing for amounts)		
New connection fee	Based on meter size	Based on meter size
Existing meter credit	Impact fee based on meter size	Impact fee based on meter size
PAST DUE INTEREST FEES		
Interest charged on past due balance	18%	18%
COLLECTION CHARGE FOR PAST DUE SERVICE FEES		
	20.00	20.00
SERVICE CHARGE FOR DISHONORED CHECKS		
	20.00	20.00
SERVICE RESTORATION FEE		
	50.00	75.00
DAMAGE TO EXISTING CONNECTION		
Fee plus cost of labor and materials to replace	50.00	75.00
UNAUTHORIZED USE OF SERVICES CHARGE		
Fee plus water usage	100.00	200.00
WATER-EFFICIENT LANDSCAPING PERFORMANCE BOND		
For new water service connections after 7/1/2021		
Charge per square foot of the total landscaped area, reimbursed if landscaping meets requirements	2.00	2.00



GENERAL EQUIPMENT FUND OVERVIEW

Beginning Balance July 1, 2023 **\$ 350,000**

SOURCES OF FUNDS:

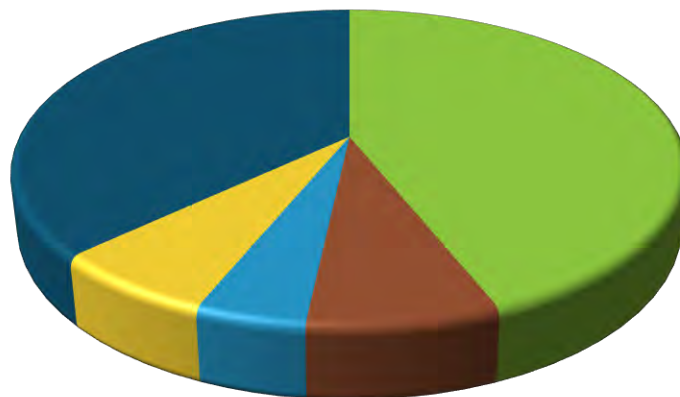
Transfer from Revenue Stabilization Fund	200,000
Budgeted PayGo Capital Transfer from 2022/2023	900,000
Conservation Garden Park fundraising	0
Interest Income	22,500

Total Sources **\$ 1,122,500**

USES OF FUNDS:

Account	Description	Budgeted 2022/2023	Budgeted 2023/2024	Budget to Budget	
				\$ Variance	% Var.
140 6010	Conservation Assets	\$ 50,000	\$ 625,000	\$ 575,000	1150.0%
190 6010	IS Equipment	111,000	111,000	0	0.0%
192 6010	Office Equipment	0	0	0	N/A
194 6010	Telemetry Equipment	64,000	64,000	0	0.0%
196 6010	General Equipment	227,800	97,000	(130,800)	-57.4%
198 6010	New Vehicles	450,300	526,000	75,700	16.8%
Total Uses		\$ 903,100	\$ 1,423,000	\$ 519,900	57.6%

Ending Balance June 30, 2024 **\$ 49,500**





GENERAL EQUIPMENT FUND DETAIL

<u>Account</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total Amount</u>
<u>140 6010</u>	<u>Conservation Assets</u>				
	Garden Park schematic design - phases 2, 3	1	LS	\$ 75,000	\$ 75,000
	Garden Park frontage project - phase 1	1	LS	\$ 500,000	500,000
	Garden Park interpretive master plan	1	LS	\$ 50,000	50,000
					\$ 625,000 *
<u>190 6010</u>	<u>IS Equipment</u>				
	Network servers	2	EA	\$ 31,000	\$ 62,000
	Storage server	1	LS	49,000	49,000
					\$ 111,000
<u>192 6010</u>	<u>Office Equipment</u>				
					\$ -
					\$ -
<u>194 6010</u>	<u>Telemetry Equipment</u>				
	Circuit board replacement on drive for P2 and P3	2	EA	17,000	34,000
	SWGWTP variable frequency drive upgrade for P2	1	LS	30,000	30,000
					\$ 64,000
<u>196 6010</u>	<u>General Equipment</u>				
	Trimble R12i GPS unit (FLEET & EQUIP)	1	EA	\$ 37,000	\$ 37,000
	Utility tractor and rotary cutter (FLEET & EQUIP)	1	EA	60,000	60,000
					\$ 97,000
<u>198 6010</u>	<u>New Vehicles</u>				
	Light duty pickup truck (FLEET & EQUIP)	4	EA	\$ 51,500	\$ 206,000
	Utility truck and attachments (FLEET & EQUIP)	1	EA	75,000	75,000
	One ton dump body (FLEET & EQUIP)	1	EA	90,000	90,000
	Valve turning/vactor service body (FLEET & EQUIP)	1	EA	155,000	155,000
					\$ 526,000
Total General Equipment Fund Purchases					\$ 1,423,000

* Fundraising donations will be applied to garden exhibits.



DEBT SERVICE SCHEDULE & LONG-TERM DEBT SUMMARY

Debt Service Payment Due:				October 1, 2023		April 1, 2024		Total
	<u>Orig. Issue Amount</u>	<u>Maturity Date</u>	<u>Outstanding Bal. 7/1/2023</u>	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>	
2008 B1 Ref. Bonds*	\$64,665,000	10/1/37	\$52,465,000	\$ 3,600,000	\$ 850,000	\$ -	\$ 850,000	\$ 5,300,000
2009C Bonds (Utah Brd of Wtr Res)	3,600,000	10/1/34	1,871,000	157,000	-	-	-	157,000
2014A Bonds	37,750,000	10/1/44	24,745,000	-	580,400	-	580,400	1,160,800
2016A&B Bonds & Refunding Bonds	63,920,000	10/1/46	33,630,000	645,000	840,750	-	824,625	2,310,375
2017A Ref. Bonds	9,880,000	10/1/28	5,930,000	880,000	135,050	-	126,250	1,141,300
2017B Ref. Bonds	77,140,000	10/1/41	71,290,000	3,865,000	1,527,525	-	1,430,900	6,823,425
2019A Bonds	29,030,000	10/1/49	27,650,000	505,000	685,700	-	673,075	1,863,775
2021A Bonds & Refunding Bonds	61,855,000	10/1/51	57,850,000	2,660,000	1,262,750	-	1,196,250	5,119,000
2024A Bonds (new bond issue)	85,000,000	10/1/54	-	-	-	-	1,530,000	1,530,000
								-
TOTAL			\$275,431,000	\$ 12,312,000	\$ 5,882,175	\$ -	\$ 7,211,500	\$ 25,405,675
				\$18,194,175		\$7,211,500		

* Variable rate debt, interest paid monthly

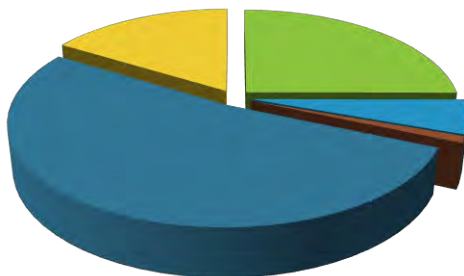
Note: The 2014A bonds are being monitored for possible refunding combined with the new bond issue.



SUMMARY OF CAPITAL PROJECT EXPENDITURES BUDGET

<p>CP1 Category: Major rehabilitation or replacement of existing facilities.</p> <p>Example Projects: Distribution pipeline replacement, transmission vault restoration, storage reservoir rehabilitation, JWWT sedimentation basins equip. replacement, flocculator equip. replacement, and normal extraordinary replacement activities.</p>	<p>\$ 19,600,000</p> <p>(1,271,428) *</p> <hr/> <p>\$ 18,328,572</p>
<p>CP2 Category: New facilities needed for compliance or functional upgrades, but provide no new system capacity.</p> <p>Example Projects: JWWT floc/sed basins seismic upgrade and increase capacity and upgrades, vehicle/water trailer storage buildings, Willowcreek retail storage/booster/transmission upgrades, and site modifications.</p>	<p>19,663,300</p> <p>(9,218,214) *</p> <hr/> <p>10,445,086</p>
<p>CP3 Category: New water supply, treatment, conveyance, or storage facilities which provide new system capacity.</p> <p>Example Projects: 10200 S. 3600 W. new booster pump station, 5200 W. 6200 S. and U-111 12200 S. new storage reservoirs, JWWT expansion from 180MGD to 255MGD, new wells and groundwater development.</p>	<p>33,192,350</p> <p>(1,400,000) *</p> <hr/> <p>31,792,350</p>
<p>CP4 Category: Projects to serve lands currently outside current District boundaries.</p> <p>Example Projects: WFRP right-of-way acquisition</p>	<p>650,000</p> <p>- *</p> <hr/> <p>650,000</p>
<p>TOTAL OF ALL CATEGORIES (GROSS)</p>	<p>\$ 73,105,650</p>
<p><i>*amounts shown in red are reimbursements (MWDSLs, grants, etc.)</i></p>	<p>\$(11,889,642)</p>
<p>TOTAL OF ALL CATEGORIES (NET)</p>	<p>\$ 61,216,008</p>

PROJECTED CAPITAL PROJECTS FUNDING



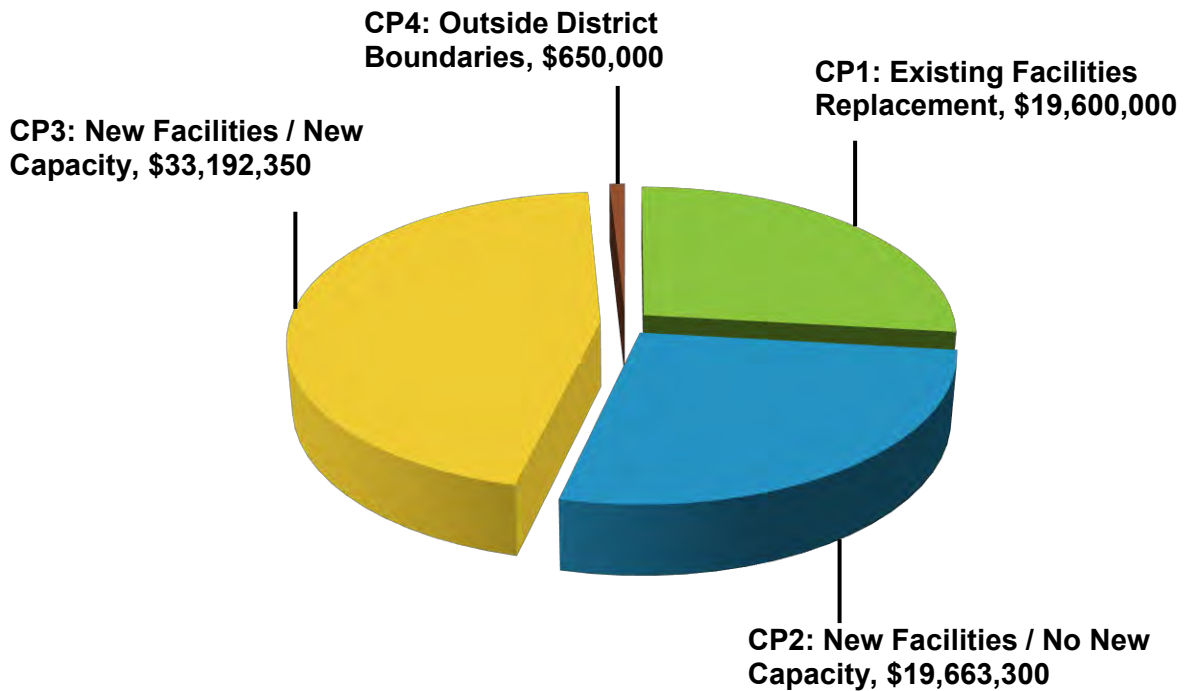
Replacement Reserve Fund	\$ 18,328,572	25.1%
Capital Projects Fund	3,954,650	5.4%
Impact Fees	\$727,976	1.0%
Bond Proceeds	38,204,810	52.3%
Project Reimbursements	11,889,642	16.3%
	\$ 73,105,650	100.0%



SUMMARY OF CAPITAL PROJECT EXPENDITURES BUDGET

CAPITAL PROJECT EXPENDITURES

Gross Total \$73,105,650





JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Resolution of the Board of Trustees

RESOLUTION NO. 23-13

DETERMINING AND FIXING JORDAN VALLEY WATER CONSERVANCY DISTRICT'S PROPOSED TAX RATE FOR FISCAL YEAR 2023-2024

WHEREAS, the Jordan Valley Water Conservancy District annually determines the amount of revenue necessary to be raised by taxation and fixes a rate of levy which, when levied upon every dollar of the taxable value of the taxable property within the District, and with other revenues, will raise the amount required by the District to supply funds for: (i) expenses of organization; (ii) surveys and plans; (iii) the cost of construction; (iv) operating and maintaining the works of the District; and (v) any other lawful purpose or expenditure.

WHEREAS, this Resolution is adopted after proper notice and hearing in accordance with Utah Code Ann. (1953) 59-2-919.

BE IT RESOLVED by the Board of Trustees of the Jordan Valley Water Conservancy District:

1. The District's proposed tax levy for fiscal year 2023-2024 shall be established using the estimated revenue from property taxes shown in the District's adopted tentative budget in the amount of \$28,735,600.
2. The District Clerk shall certify this Resolution, which sets the levy, and provide all other information and reports in accordance with Utah law to the Salt Lake County Auditor, the Utah County Auditor, and to the State Tax Commission, including but not limited to Utah Code Ann. (1953) § 17B-1-628 and §§ 59-2-912 and -913, and -920.
3. This Resolution shall take effect upon adoption by the Board.

PASSED, ADOPTED, and APPROVED this 7th day of June 2023.

Corey L. Rushton
Chair of the Board of Trustees

ATTEST:

Alan E. Packard
District Clerk



OFFICE OF THE
STATE AUDITOR

Questionnaire

Revised December 2020

Fraud Risk Assessment

INSTRUCTIONS:

- Reference the *Fraud Risk Assessment Implementation Guide* to determine which of the following recommended measures have been implemented.
- Indicate successful implementation by marking “Yes” on each of the questions in the table. Partial points may not be earned on any individual question.
- Total the points of the questions marked “Yes” and enter the total on the “Total Points Earned” line.
- Based on the points earned, circle/highlight the risk level on the “Risk Level” line.
- Enter on the lines indicated the entity name, fiscal year for which the Fraud Risk Assessment was completed, and date the Fraud Risk Assessment was completed.
- Print CAO and CFO names on the lines indicated, then have the CAO and CFO provide required signatures on the lines indicated.

Fraud Risk Assessment

Continued

*Total Points Earned: ____/395 *Risk Level: Very Low Low Moderate High Very High
 > 355 316-355 276-315 200-275 < 200

	Yes	Pts
1. Does the entity have adequate basic separation of duties or mitigating controls as outlined in the attached Basic Separation of Duties Questionnaire?	Yes	200
2. Does the entity have governing body adopted written policies in the following areas:		
a. Conflict of interest?	Yes	5
b. Procurement?	Yes	5
c. Ethical behavior?	Yes	5
d. Reporting fraud and abuse?	Yes	5
e. Travel?	Yes	5
f. Credit/Purchasing cards (where applicable)?	Yes	5
g. Personal use of entity assets?	Yes	5
h. IT and computer security?	Yes	5
i. Cash receipting and deposits?	Yes	5
3. Does the entity have a licensed or certified (CPA, CGFM, CMA, CIA, CFE, CGAP, CPFO) expert as part of its management team?	Yes	20
a. Do any members of the management team have at least a bachelor's degree in accounting?	Yes	10
4. Are employees and elected officials required to annually commit in writing to abide by a statement of ethical behavior?	Yes	20
5. Have all governing body members completed entity specific (District Board Member Training for local/special service districts & interlocal entities, Introductory Training for Municipal Officials for cities & towns, etc.) online training (training.auditor.utah.gov) within four years of term appointment/election date?	Yes	20
6. Regardless of license or formal education, does at least one member of the management team receive at least 40 hours of formal training related to accounting, budgeting, or other financial areas each year?	Yes	20
7. Does the entity have or promote a fraud hotline?	Yes	20
8. Does the entity have a formal internal audit function?	Yes	20
9. Does the entity have a formal audit committee?	Yes	20

*Entity Name: Jordan Valley Water Conservancy District

*Completed for Fiscal Year Ending: June 30, 2023 *Completion Date: May 17, 2023

*CAO Name: Alan E. Packard *CFO Name: David D. Martin

*CAO Signature:  *CFO Signature: 

*Required

Basic Separation of Duties

See the following page for instructions and definitions.

	Yes	No	MC*	N/A
1. Does the entity have a board chair, clerk, and treasurer who are three separate people?	Yes			
2. Are all the people who are able to receive cash or check payments different from all of the people who are able to make general ledger entries?	Yes			
3. Are all the people who are able to collect cash or check payments different from all the people who are able to adjust customer accounts? If no customer accounts, check "N/A".	Yes			
4. Are all the people who have access to blank checks different from those who are authorized signers?	Yes			
5. Does someone other than the clerk and treasurer reconcile all bank accounts OR are original bank statements reviewed by a person other than the clerk to detect unauthorized disbursements?	Yes			
6. Does someone other than the clerk review periodic reports of all general ledger accounts to identify unauthorized payments recorded in those accounts?	Yes			
7. Are original credit/purchase card statements received directly from the card company by someone other than the card holder? If no credit/purchase cards, check "N/A".	Yes			
8. Does someone other than the credit/purchase card holder ensure that all card purchases are supported with receipts or other supporting documentation? If no credit/purchase cards, check "N/A".	Yes			
9. Does someone who is not a subordinate of the credit/purchase card holder review all card purchases for appropriateness (including the chief administrative officer and board members if they have a card)? If no credit/purchase cards, check "N/A".	Yes			
10. Does the person who authorizes payment for goods or services, who is not the clerk, verify the receipt of goods or services?	Yes			
11. Does someone authorize payroll payments who is separate from the person who prepares payroll payments? If no W-2 employees, check "N/A".	Yes			
12. Does someone review all payroll payments who is separate from the person who prepares payroll payments? If no W-2 employees, check "N/A".	Yes			

* MC = Mitigating Control

Basic Separation of Duties

Continued

Instructions: Answer questions 1-12 on the Basic Separation of Duties Questionnaire using the definitions provided below.

☺ If all of the questions were answered “Yes” or “No” with mitigating controls (“MC”) in place, or “N/A,” the entity has achieved adequate basic separation of duties. Question 1 of the Fraud Risk Assessment Questionnaire will be answered “Yes.” 200 points will be awarded for question 1 of the Fraud Risk Assessment Questionnaire.

☹ If any of the questions were answered “No,” and mitigating controls are not in place, the entity has not achieved adequate basic separation of duties. Question 1 of the Fraud Risk Assessment Questionnaire will remain blank. 0 points will be awarded for question 1 of the Fraud Risk Assessment Questionnaire.

Definitions:

Board Chair is the elected or appointed chairperson of an entity’s governing body, e.g. Mayor, Commissioner, Councilmember or Trustee. The official title will vary depending on the entity type and form of government.

Clerk is the bookkeeper for the entity, e.g. Controller, Accountant, Auditor or Finance Director. Though the title for this position may vary, they validate payment requests, ensure compliance with policy and budgetary restrictions, prepare checks, and record all financial transactions.

Chief Administrative Officer (CAO) is the person who directs the day-to-day operations of the entity. The CAO of most cities and towns is the mayor, except where the city has a city manager. The CAO of most local and special districts is the board chair, except where the district has an appointed director. In school districts, the CAO is the superintendent. In counties, the CAO is the commission or council chair, except where there is an elected or appointed manager or executive.

General Ledger is a general term for accounting books. A general ledger contains all financial transactions of an organization and may include sub-ledgers that are more detailed. A general ledger may be electronic or paper based. Financial records such as invoices, purchase orders, or depreciation schedules are not part of the general ledger, but rather support the transaction in the general ledger.

Mitigating Controls are systems or procedures that effectively mitigate a risk in lieu of separation of duties.

Original Bank Statement means a document that has been received directly from the bank. Direct receipt of the document could mean having the statement 1) mailed to an address or PO Box separate from the entity’s place of business, 2) remain in an unopened envelope at the entity offices, or 3) electronically downloaded from the bank website by the intended recipient. The key risk is that a treasurer or clerk who is intending to conceal an unauthorized transaction may be able to physically or electronically alter the statement before the independent reviewer sees it.

Treasurer is the custodian of all cash accounts and is responsible for overseeing the receipt of all payments made to the entity. A treasurer is always an authorized signer of all entity checks and is responsible for ensuring cash balances are adequate to cover all payments issued by the entity.

ENGINEERING ACTIVITIES

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**CONSIDER AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT
FOR SOUTHEAST REGIONAL WATER TREATMENT PLANT
BRIDGING POLYMER SYSTEM IMPROVEMENTS**

June 7, 2023

Project: SERWTP Bridging Polymer System Improvements
Project Number: 4284
Budget: \$54,000 in 2022/2023 Capital Projects Budget, \$774,000 in the 10-year
Capital Projects Plan
Cost Sharing: N/A

Bids were received from:

Bidder	Bid Amount
<i>Engineer's Estimate</i>	<i>\$650,000– \$800,000</i>
Corrio Construction, Inc.	\$737,043
VanCon, Inc.	\$777,778

Award of Construction Contract Recommended to: Corrio Construction

Total Authorization Amount (Approval Requested): \$737,043

Summary: Bridging polymer is used at the SERWTP to help bind particles in the water to improve removal during the sedimentation process. The existing bridging polymer system is aging, requires frequent maintenance, and replacement parts are difficult to obtain. In addition, the system is undersized and lacks redundancy. This project seeks to replace this aging polymer system with a new system which will provide redundancy and will be sized appropriately to accommodate the plant's needs.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**CONSIDER AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT
FOR 5200 WEST 6200 SOUTH RESERVOIR PROJECT**

June 7, 2023

Project: 5200 West 6200 South Reservoir
 Project Number: 4231
 Budget: \$3,550,000 in 2022/2023 Capital Projects Budget, and \$14,755,000 in the 10-year Capital Projects Plan
 Cost Sharing: N/A

Bids were received from:

Bidder	Bid Amount
<i>Engineer's Estimate</i>	<i>\$15,075,000– \$18,425,000</i>
Ralph L. Wadsworth Construction	\$15,522,920
Gerber Construction	\$18,080,800
ProBuild Construction	\$19,406,300

Award of Construction Contract Recommended to: **Ralph L. Wadsworth Construction**

Total Authorization Amount (Approval Requested): **\$15,522,920**

Summary: Construction of new 6.8 million gallon buried concrete reservoir at the 5200 West 6200 South. The site currently includes a 2 million gallon reservoir to support demands in this pressure zone. An additional reservoir is needed to provide redundancy to the existing reservoir and to support growing demands in this pressure zone. The reservoir provides service to the Zone B North pressure zone serving Granger-Hunter, Kearns, Taylorsville-Bennion, Magna, Hexcel, and West Jordan. The existing reservoir will remain in service during construction.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**CONSIDER APPROVAL OF PIPELINE CROSSING AGREEMENTS WITH UTAH
TRANSIT AUTHORITY FOR 3300 SOUTH PIPELINE REPLACEMENT – PHASE 2**

June 7, 2023

Summary: The 3300 South pipeline is an aging cast iron pipe which was installed in 1956 and runs from 1100 West to State Street. This pipeline has frequent breaks and requires replacement. The project will replace this pipeline in two construction phases. Phase 1 was awarded in August of 2022 for the replacement of the pipeline from 1100 West to 500 West and Phase 2 was awarded in April of 2023 for the replacement of the pipeline from 500 West to State Street.

The pipeline alignment for Phase 2 will cross Utah Transit Authority's (UTA's) right-of-way at 450 West 3300 South and 200 West 3300 South. Each pipeline crossing will require an agreement with UTA for the construction and maintenance of the pipeline by JVVCD.

Recommendation: **Approve the Pipeline Crossing Agreements with UTA and authorize the Chair to execute the agreements subject to changes deemed necessary by General Counsel.**

PIPELINE CROSSING AGREEMENT
(Standard Pipeline Form)

UTA Contract # NS/S/6924/P
Mile Post: NS 4.49
Latitude: 40.699781
Longitude: -111.896947
South Salt Lake, Utah

THIS PIPELINE CROSSING AGREEMENT (the "Agreement") is made and entered into as of the ____ day of _____, 2023 (to be dated after the final executing signature by UTA), by and between UTAH TRANSIT AUTHORITY, a large public transit district organized pursuant to the laws of the State of Utah (hereinafter "UTA"), and Jordan Valley Water Conservancy District, a political subdivision of the State of Utah, with a principal address of 8215 South 1300 West, West Jordan, Utah 84088 (hereinafter "Licensee").

RECITALS

WHEREAS, on April 19, 1956, Oregon Short Line Railroad Company and its Lessee, Union Pacific Railroad Company, entered into a Pipeline Agreement with Salt Lake County Water Conservancy District, further defined as L.D. No. 16493 (the "Historical Agreement") which among other things, identifies a 36" CM pipe casing containing an 8" cast iron pipe water line installed at a minimum depth of 4 feet 6 inches from bottom of rail to top of casing, located in South Salt Lake, Utah, (the Historical Agreement Pipeline") a copy of said Historical Agreement is attached as Exhibit "D" (Exhibit "D" is attached hereto and hereby incorporated into and made a part of this Agreement by reference);

WHEREAS, Licensee desires to abandon in place the existing 8" Historical Agreement Pipeline identified in the Historical Agreement by following the Utah Department of Transportation's current abandonment standards and specifications

WHEREAS, at some point a 16" steel waterline was constructed which crosses at approximately Mile Post NS 4.49 (Latitude 40.699781, Longitude -111.896947) in South Salt Lake, Utah, and a copy of the Pipeline crossing agreement, if one exists, has not been located by the parties;

WHEREAS, Salt Lake County Water Conservancy District is known today as Jordan Valley Water Conservancy District;

WHEREAS, UTA is the owner of a certain railroad corridor known as the North South Light Rail Line (the "Right of Way") acquired by UTA for the development and expansion of its public transportation system;

WHEREAS, Licensee intends to construct the Pipeline via trenchless slip-line installation of a 12" HDPE pipe line through the existing 16" steel waterline located approximately 4.5 feet from bottom of rail to top of casing (the "Pipelines");

WHEREAS, Historical Agreement Pipeline and Pipeline may be referred to individually or collectively as the "Pipelines"; and

WHEREAS, Licensee desires a license for the construction, operation and maintenance of the Pipeline and the abandonment of the Historical Agreement Pipeline.

WHEREAS, upon execution of this Agreement, the Historical Agreement and any amendments, supplements or additions appended thereto, shall terminate in their entirety and this Agreement shall be the sole governing document related only to this specific Pipeline.

AGREEMENT

NOW THEREFORE, based on the stated Recitals, which are incorporated herein by reference, and for and in consideration of the mutual covenants and agreements hereinafter set forth, the mutual benefits to the Parties to be derived herefrom, and for other valuable consideration, the receipt and sufficiency of which the Parties acknowledge, it is hereby agreed as follows:

ARTICLE I INCORPORATED TERMS AND DEFINITIONS

For purposes of this Agreement, the following definitions shall apply:

1.1 “Construct” and “Construction” mean the installation of the Pipeline (or any improvements to the Pipeline) in or otherwise materially affecting the Right of Way, as well as any subsequent reconstruction, relocation, restoration or rehabilitation of the Pipeline (or any improvements to the Pipeline) in or otherwise materially affecting the Right of Way.

1.2 “Emergency Access Manager” means the person or office responsible for controlling emergency Construction and Maintenance access to the Right of Way. The Emergency Access Manager as of the execution of this Agreement shall be reached at (801) 562-1229. UTA may change the designated Emergency Access Manager from time to time by delivery of notice in accordance with Article XVI of this Agreement.

1.3 “Freight Operator” means any entity using the Right of Way, or any portion thereof, to provide common carrier freight operations.

1.4 “Governmental Authority” means any federal, state, municipal, local or other division of government, or any agency thereof, having or asserting jurisdiction with respect to any matter related to this Agreement.

1.5 “Hazardous Materials” mean any materials or substances: (i) which are present in quantities and in forms which require investigation, removal, cleanup, transportation, disposal, response or remedial action (as the terms “response” and “remedial action” are defined in Section 101 of the Comprehensive Environmental Compensation and Liability Act of 1980, as amended, 42 U.S.C. §9601 (24) and (25)) under any applicable federal, state or local environmental law, regulation, ordinance, rule or bylaw, as such are amended from time to time, whether existing as of the date hereof, previously enforced or subsequently amended (each hereafter an “Environmental Law”); or (ii) which are defined as “hazardous wastes,” “hazardous substances,” “pollutants” or “contaminants” under any Environmental Law.

1.6 “Losses” mean any losses, damages, claims, demands, actions, causes of action, penalties, expenses, litigation costs, attorneys’ fees, expert witness fees, court costs, amounts paid in settlement, judgments, interest or other costs resulting from: (i) loss of or damage to the property of any Party or Third Person; (ii) death or personal injury to the agents of any Party or to any Third Person; or (iii) the cleanup or other requirements regarding any incident involving Hazardous Materials.

1.7 “Maintain” and “Maintenance” mean the performance of any repair, restoration, rehabilitation, refurbishment, retrofitting, inspection, monitoring, observation, testing, or similar work with respect to the Pipeline (or any improvements to the Pipeline) in or otherwise materially affecting the Right of Way.

1.8 “Party” and “Parties” mean UTA or Licensee, and UTA and Licensee, respectively.

1.9 “Pipelines” means

- a) the existing 16” steel water pipe line to be rehabilitated by Licensee via trenchless slip-line installation of a 12” HDPE pipe line, pursuant to this Agreement and located a minimum of 4 feet 5 inches from bottom of rail to top of casing at Mile Post NS 4.49 (Latitude 40.699781, Longitude -111.896947) on the North South Light Rail Line in South Salt Lake, Utah as described in Exhibit “A”.
- b) the existing 36” CM pipe casing containing an 8” cast iron pipe water line to be abandoned in place by following the Utah Department of Transportation’s current abandonment standards and specifications; and installed at a minimum depth of 4 feet 6 inches from bottom of rail to top of casing, located in South Salt Lake, Utah, Historical Agreement Pipeline
 - b. Upon Licensee written notification of completion of abandonment, the Historical Agreement Pipeline is hereby removed from all obligations to this Agreement and the Historical Agreement

The term “Pipelines” shall also apply to any and all rearrangements, modifications, reconstruction, relocations, removals and extensions or additions concerning the Pipelines that are authorized and approved by UTA pursuant to this Agreement (unless they are the subject of a separate agreement that does not incorporate the terms hereof).

1.10 “Third Person” means any individual, corporation or legal entity other than UTA and Licensee.

1.11 “Track Improvements” mean any and all tracks, rails, ties, switches, frogs, end of track barricades or bumpers and other barricades or bumpers, derail devices, tie plates, spikes, wires, fastenings and any other appurtenances related thereto, drainage structures, grading, ballast, subgrade stabilization, crossings, tunnels, bridges, trestles, culverts, structures, facilities, leads, spurs, turnouts, tails, sidings, signals, crossing protection devices, communications systems or facilities, catenary systems and wires, poles and all other operating and non-operating appurtenances located within the Right of Way.

1.12 “Utility” and “Utilities” mean and include all properties, facilities, utilities, crossings, encroachments, lines and similar appurtenances located within the Right of Way by permissive or prescriptive authority including, but not limited to, pipelines, tubelines, water and gas lines or mains, electrical conduits, ditches and other drainage facilities, wires, fiber optics, communication lines, sewer pipes, overhead wiring and supporting structures and appurtenances, and all similar installations.

1.13 “Work Window” means the time period designated by UTA during which Construction, Maintenance and any other work with respect to the Pipeline within the Right of Way is permissible. UTA may, at any time and at UTA’s sole discretion, determine that the Work Window shall not be concurrent with any passenger operations within the Right of Way.

ARTICLE II GRANT OF LICENSE AND REAL ESTATE USAGE CHARGE

2.1 An administrative fee has been paid by Licensee at the time of application for the license granted herein in the amount of \$1,000.00. This amount reflects the clerical, administrative and handling expense incurred in connection with the processing of this Agreement.

2.2 In consideration of the real estate usage charge to be paid by Licensee, and in further consideration of the covenants and agreements to be kept, observed and performed by Licensee hereunder, UTA hereby grants Licensee a license to Construct, Maintain and operate the Pipeline in the location shown and in conformity with the dimensions and specifications indicated on the attached print dated **February 2023** and approved by UTA Engineer on **March 1, 2023** marked Exhibit "A" (Exhibit "A" is attached hereto and hereby incorporated into and made a part of this Agreement by reference).

2.3 Licensee agrees to pay UTA a one-time real estate usage charge of **\$0.00** payable on or before the date of execution. Licensee also agrees to pay an upfront Flagging Fee of **\$788.00** and Special Inspection Fee of **\$152.00** (these fees are more clearly described in Section 5.1).

ARTICLE III ACCESS TO THE RIGHT OF WAY

3.1 Except in the event of an emergency (as provided in Section 3.2 below), Licensee shall request permission from UTA at least ten days (or such shorter period as may be approved by UTA) prior to performing any Construction or Maintenance in or otherwise materially affecting the Right of Way. Licensee's request to access the Right of Way shall be specific as to the time, date and activities for which Licensee seeks permission. The request shall also include a summary of the method and manner in which the Construction or Maintenance will be performed. As part of the application process, UTA may require Licensee (and its contractors or other agents seeking access to the Right of Way) to attend any track access coordination meetings, safety training or other instruction as may be deemed necessary by UTA. Once granted, UTA's permission to enter the Right of Way shall be formalized in writing and delivered to Licensee. After permission has been granted, Licensee shall comply with all conditions, instructions and requirements of such permit and with all instructions or directions given by UTA including, if required, daily telephone notification to the applicable rail dispatch center prior to each entry into the Right of Way. All contact with UTA shall be coordinated through the person designated by UTA from time to time as set forth in Article XVI of this Agreement. Provided that Licensee complies with the provisions of this Section, UTA agrees not to unreasonably withhold, condition, or delay its approval of Licensee's request.

3.2 Licensee shall have the right to enter the Right of Way in the event of an emergency to make repairs to the Pipeline necessary to protect against imminent and serious injury or damage to persons or property. Licensee shall take all precautions necessary to ensure that such emergency entry does not compromise the safety of any operations conducted in the Right of Way by UTA or Freight Operator. Licensee must notify the Emergency Access Manager of the emergency access and the work being performed prior to entering the Right of Way or as soon thereafter as reasonably practicable.

ARTICLE IV CONSTRUCTION AND MAINTENANCE OF THE PIPELINE

4.1 All Construction and Maintenance with respect to the Pipeline shall be performed to the satisfaction of UTA and in accordance with the conceptual, engineering and/or design plans ("Design Plans") previously approved by UTA and attached hereto as Exhibit "A." All Construction and Maintenance with respect to the Pipeline shall be performed in a workmanlike manner, in compliance with all applicable

industry standards and in compliance with the requirements of any applicable Governmental Authority. UTA may impose requirements in addition to or more stringent than industry or legal standards if UTA deems such requirements necessary for the safety of operations conducted in the Right of Way. UTA may also require additional fabrication methods, staging requirements or other precautions. All Construction and Maintenance with respect to the Pipeline shall be performed during the designated Work Window. UTA shall have the right, but not the obligation, to observe any and all work performed in or otherwise materially affecting the Right of Way in connection with the Pipeline to ensure that such work is performed in accordance with the requirements set forth in this Agreement. In its Construction or Maintenance of the Pipeline, Licensee shall not make any material deviation from the Design Plans without UTA's prior written approval. Licensee shall submit to UTA plans setting out the method and manner of handling all work to be performed under the Track Improvements including, without limitation, the shoring and cribbing, if any, required to protect the operations of UTA, the Freight Operator or the owner of any adjacent tracks. Licensee shall not proceed with any such work until Licensee's proposed methods have been approved by UTA. The Pipeline shall be placed at the depth designated by UTA and shall not interfere with any Track Improvements.

4.2 Various Utilities exist on, over and under the surface of the Right of Way. Prior to commencing any Construction or Maintenance with respect to the Pipeline, Licensee shall properly investigate and determine the location of all such Utilities. In addition to the required investigation, Licensee shall have all Utilities in the area of the Pipeline "blue-staked" and clearly marked prior to any excavation. Licensee shall make arrangements for the protection of all Utilities and shall commence no excavation, boring or other penetration in the Right of Way until all such protection has been accomplished.

4.3 Fiber optic cable systems may be buried in the Right of Way. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Licensee shall telephone UNION PACIFIC RAILROAD COMPANY during normal business hours (7:00 a.m. to 9:00 p.m. Central Time, Monday through Friday, except holidays) at 1-800-336-9193 (also a 24-hour, 7-day number for emergency calls) to determine if fiber optic cable is buried near the location of the Pipeline. If so, Licensee will telephone the telecommunications company(ies) involved, make arrangements for a cable locator and, if applicable, make arrangements for relocation or other protection of the fiber optic cable. Licensee shall not commence any work until all such protection and/or relocation (if applicable) have been accomplished. In addition to other indemnity provisions in this Agreement, Licensee shall indemnify, defend and hold the UTA Indemnitees (as defined in Section 8.1 of this Agreement) harmless from and against all Losses arising out of any act or omission of Licensee, its contractors, agents and/or employees, that causes or contributes to: (a) any damage to or destruction of any telecommunications system in the Right of Way; and/or (b) any injury to or death of any person employed by or on behalf of any telecommunications company, and/or its contractors, agents and/or employees in the Right of Way. Licensee shall not have or seek recourse against UTA for any claim or cause of action for alleged loss of profits or revenue or loss of service or other consequential damage to a telecommunication company using UTA's property or a customer or user of services of the fiber optic cable on UTA's property.

4.4 Licensee shall be solely responsible for obtaining any property rights, easements, rights of way or other permission from Third Persons (collectively "Third Person Property Rights") as may be necessary to Construct, Maintain or operate the Pipeline including, without limitation, any needed permission from the owner of any adjacent railroad corridor. Licensee shall also be solely responsible for obtaining any necessary franchises, permits or other necessary approvals from Governmental Authorities (collectively "Approvals"). Licensee agrees to pay any and all costs and expenses that may be asserted against UTA relating to such Third Person Property Rights or Approvals, and to assume any and all liability therefor.

4.5 Except as authorized in this Agreement or as may be immediately required for (and only at the actual time of) performance of any Construction or Maintenance contemplated under this Agreement, and then only in full compliance with all clearance standards and other safety requirements, Licensee shall not place, permit to be placed, erect, pile, store, stack, park, suffer or permit any line, building, platform, fence, gate, vehicle, car, pole, or other structure, obstruction, or material of any kind within the Right of Way.

4.6 Licensee shall Construct, Maintain and operate the Pipeline in compliance with all requirements imposed by any Governmental Authority including, without limitation, the requirements of the Federal Railroad Administration, the Occupational Safety and Health Administration and the Utah Department of Transportation. Licensee shall also Construct, Maintain and operate the Pipeline in compliance with all applicable environmental laws. The 12" HDPE pipeline shall remain encased within the Pipeline. Licensee shall take all suitable precautions to prevent any leakage or other interference with the operation of the Track Improvements or any other UTA or Third Person installations or facilities within the Right of Way. If the Pipeline for any reason causes interference with the operation of Track Improvements or any other UTA or Third Person installations or facilities within the Right of Way, Licensee shall, upon notification by UTA and at Licensee's sole cost and expense, take such action as may be necessary to eliminate the interference including, without limitation, the removal of the Pipeline.

4.7 If, in connection with the performance of any Construction or Maintenance work, Licensee or its Contractor damages any Track Improvements, Utilities, or any other facilities, Licensee shall repair or replace such facilities with the same or similar materials, if available, as reasonably required by the UTA, consistent with applicable Federal and State laws and regulations and to the satisfaction of the UTA.

4.8 At the request of UTA, Licensee shall install markers identifying the location of the Pipeline and related appurtenances at the Right of Way boundaries (where the Pipeline enters and exits the Right of Way) or other locations where UTA may designate. Markers shall be installed in a form and size as may be determined by UTA and at the sole cost and expense of Licensee. UTA hereby expressly reserves the right to require Licensee to erect and maintain, at Licensee's sole cost and expense, any and all signs of any character and nature whatsoever (e.g. location of Pipeline, precautionary and/or warning signs, etc.) that UTA deems necessary or advisable in connection with the operation of the Pipeline. Licensee shall install and/or erect any marker or sign that may be required under this Section within thirty (30) days after receiving written instructions from UTA.

4.9 Upon completion of any Construction or Maintenance relating to the Pipeline, Licensee shall restore the surface of the Right of Way to its prior condition including, but not limited to, replacing any soil that was removed and thoroughly compacting it level with the adjacent surface of the ground and restoring any fences or other property that Licensee disturbed or removed from the Right of Way.

4.10 If a contractor is to perform any Construction or Maintenance contemplated in this Agreement, then the Licensee shall cause its contractor to comply with all applicable provisions of this Agreement. Additionally, Licensee shall require its contractor to execute UTA's form Contractor's Right of Entry Agreement (the "Contractor Agreement"). Any and all contractors used by Licensee in the Construction or Maintenance of the Pipeline are subject to the approval of UTA, which approval shall not be unreasonably withheld, conditioned or delayed.

4.11 If Licensee fails to notify UTA a minimum of ten (10) days before the installation of the Pipeline or if Licensee's Contractor fails to obtain a Contractor Agreement, Licensee agrees to pay UTA an additional three thousand dollars (**\$3,000.00**) as a fee for the initial inspection of the Pipeline, together with any other additional fees incurred by UTA to verify that the Pipeline was installed as per the approved plans. Such review and verification could include exposing the line to verify the depth of and materials installed. If the Pipeline was not installed in the approved location, depth, and with the approved materials,

as described in the approved plans, Licensee agrees to remove the Pipeline and reinstall it according to the approved plans at Licensee's sole cost and expense.

ARTICLE V
CONSTRUCTION OBSERVATION BY UTA – LICENSEE TO BEAR ALL COSTS

5.1 The current cost of flagging is \$788/day for an eight (8)-hour day and \$1,058/day for a twelve (12) - hour day. Flagging is charged in blocks, with a minimum billing of an eight (8) - hour period. The current cost for a special inspector is \$76/hour with a two (2) -hour minimum charge per inspection/inspector. UTA has determined that one (1), eight (8)-hour day for Flagging and one (1), two (2)-hour day for a Special Inspection will be needed for the construction of this Pipeline. Licensee will pre-pay \$940.00 for Flagging and a Special Inspection at or before the execution of this Agreement. If after the construction of the Pipeline extra days of Flagging or Special Inspection have been collected, Licensee may submit in writing for a refund from UTA. Submission for refund will need to be submitted to UTA within thirty (30) days of the date of completion of the Pipeline. Refunds will only be issued after confirmation from UTA operations that the flagging and special inspection days were not used.

5.2 In the event that UTA, in its sole discretion, determines that any other inspectors (technical or special), monitors, observers, safety personnel, additional flaggers or other persons are required given the nature of the Construction or Maintenance to be performed, UTA may, at its sole discretion, provide such personnel and Licensee shall, within thirty (30) days, reimburse UTA for the reasonable costs thereby incurred.

ARTICLE VI
LICENSEE TO BEAR ALL COSTS RELATED TO PIPELINE

Licensee shall be solely responsible for any and all costs incurred with respect to any Construction, Maintenance or other work related to the Pipeline. Such costs shall include, without limitation, the cost of any modifications to UTA's Track Improvements and other facilities that may be necessary to accommodate or facilitate the Pipeline.

ARTICLE VII
SUBORDINATION OF RIGHTS GRANTED - RELOCATION OF PIPELINE

7.1 The rights granted pursuant to this Agreement shall be subject and subordinate to the prior and continuing right and obligation of UTA to fully use the Right of Way, including the right and power of UTA to construct, maintain, repair, renew, use, operate, modify, or relocate new or existing Track Improvements upon, along, above, or across any or all parts of the Right of Way and other UTA property, all or any of which may be freely done at any time or times by UTA without liability to Licensee for compensation or damages. The grant of license for the Pipeline is made without covenants of title or quiet enjoyment. UTA makes no warranties, either express or implied, regarding the nature, extent or status of its title to the Right of Way or regarding the existence or nonexistence of Third Person rights which may be superior to the license granted pursuant to this Agreement.

7.2 Licensee shall, at its sole cost and expense and within thirty (30) days after receipt of written notice from UTA, or such other reasonable period of time as the Parties may agree, modify the Pipeline, relocate all or any portion of the Pipeline to such new location in the Right of Way as UTA may designate, or (if neither modification nor relocation is practicable) remove the Pipeline entirely from the Right of Way whenever, in furtherance of its needs and requirements, UTA shall find such action necessary or desirable. All the terms, conditions and stipulations herein expressed with reference to the Pipeline on UTA's property in the location described herein shall, so far as the Pipeline remains on UTA property, apply to the Pipeline as modified or relocated pursuant to this Section. Licensee shall not be entitled to any

damages or other compensation as the result of UTA's exercise of its rights under this paragraph. UTA agrees to exercise its rights under this Section in good faith.

7.3 The foregoing grant is also subject to the outstanding superior rights previously conveyed or granted to Third Parties by UTA, or its predecessors in interest, and the right of UTA to renew and extend the same.

ARTICLE VIII INDEMNITY AND RELEASE

8.1 As additional consideration for this Agreement, Licensee agrees to protect, defend, release, indemnify and hold harmless UTA, and any affiliates, successors, contractors, officers, directors, agents and employees of UTA (the "UTA Indemnitees") from and against any and all Losses proximately caused by: (a) the prosecution of any work contemplated by this Agreement by Licensee, or any employees, principals, contractors or agents of Licensee, including, without limitation, the Construction or Maintenance of the Pipeline, or any portion thereof; (b) the presence, operation or use of the Pipeline or any portion thereof within the Right of Way; or (c) Licensee's breach of any provision of this Agreement.

8.2 Licensee acknowledges that the Right of Way may be subject to prospective purchaser agreements and covenants not to sue that UTA has entered with the Utah Department of Environmental Quality and the United States Environmental Protection Agency. Pursuant to such agreements, UTA is required to characterize any excavated soil that appears to contain (or has the potential to contain) Hazardous Materials and to handle and dispose of any such soil in compliance with applicable state and federal laws. Under these agreements, UTA is not required to excavate any soil except as required for its rail construction activities within its Right of Way. Accordingly, any excavation contemplated in this Agreement exposes UTA to potential environmental liability that would not otherwise be present. As consideration for the rights granted to Licensee hereunder, Licensee agrees to assume all potential liability and responsibility for, and to indemnify and hold UTA harmless with respect to, any Losses related to the characterization and removal of any Hazardous Materials discovered during the performance of any Construction or Maintenance. Licensee agrees to perform any such characterization and removal in full compliance with all applicable state and federal environmental laws.

8.3 Licensee hereby releases UTA from, and agrees not to seek recourse against UTA with respect to, any claims, damages, fees, expenses or other losses proximately caused by Third Persons to the Pipeline including, without limitation, Third Persons having licenses or other interests in the Right of Way.

8.4 The provisions of this Article shall survive the termination of this Agreement.

ARTICLE IX CLAIMS AND LIENS FOR LABOR AND MATERIALS; TAXES

9.1 Licensee shall fully pay for all materials joined or affixed to the Right of Way in connection with the Pipeline, and for all labor performed with respect to the Pipeline. Licensee shall not permit or suffer any mechanic's or materialman's lien of any kind or nature to be enforced against the property for any work done or materials furnished thereon at the instance or request or on behalf of Licensee.

9.2 Licensee shall promptly pay or discharge all taxes, charges and assessments assessed or levied upon, in respect to, or on account of the Pipeline to prevent the same from becoming a charge or lien upon the Right of Way and so that any taxes, charges and assessments levied upon or with respect to such property shall not be increased because of the Pipeline or any improvements, appliances, or fixtures connected therewith.

ARTICLE X TERMINATION

10.1 UTA may terminate this Agreement if: (a) Licensee ceases to use the Pipeline in an active and substantial way for any continuous period of one (1) year; (b) Licensee continues in default with respect to any provision of this Agreement for a period of thirty (30) days after UTA delivers written notice to Licensee identifying the nature of Licensee's breach of this Agreement; provided, however that if the nature of Licensee's breach is such that it cannot be cured within such thirty (30) - day period, Licensee shall not be deemed in default if Licensee commences to cure the breach within thirty (30) days and thereafter diligently continues to remedy the breach; or (c) Licensee removes the Pipeline from the Right of Way.

10.2 In addition to the provisions of Section 10.1, either Party may terminate this Agreement upon delivery of three hundred and sixty (360) days written notice to the other Party, with or without cause.

10.3 Termination of this Agreement for any reason shall not affect any of the rights, obligations or liabilities that have accrued prior to or concurrent with such termination.

ARTICLE XI INSURANCE

11.1 During the life of this Agreement, Licensee shall, at its sole cost and expense, obtain and maintain the insurance described in Exhibit "B" (Exhibit "B" is attached hereto and hereby incorporated into and made a part of this Agreement by reference). Licensee will also provide to UTA a Certificate of Insurance, identifying UTA Contract Number NS/S/6924/P, issued by its insurance carrier confirming the existence of such insurance and indicating that the policy or policies contain the following endorsement:

"Utah Transit Authority is named as an additional insured with respect to all liabilities arising out of the existence, use or any work performed on or associated with the Pipeline Crossing Agreement NS/S/6924/P in the railroad right of way known as the North South Light Rail Line at approximately Mile Post NS 4.49 in South Salt Lake, Salt Lake County, Utah"

11.2 Failure to maintain insurance as required shall entitle, but not require UTA to terminate the license granted hereby immediately.

11.3 If Licensee is a public entity subject to any applicable statutory governmental immunity laws, the limits of insurance described in Exhibit "B" shall be the limits the Licensee then has in effect or that are required by applicable current or subsequent law, whichever is greater, a portion of which may be self-insured with the consent and approval of UTA.

11.4 Licensee hereby acknowledges that it has reviewed the requirements of Exhibit "B", including without limitation the requirement for Railroad Protective Liability Insurance during Construction, Maintenance, installation, repair or removal of the pipeline which is the subject of this Agreement.

ARTICLE XII REMOVAL OF PIPELINE UPON TERMINATION OF AGREEMENT

Upon termination of this Agreement howsoever, Licensee shall, at Licensee's sole cost and expense, remove the Pipeline from the Right of Way, or if agreed to by UTA in writing use such other reasonable method as the Parties may agree to address the continued existence of the Pipeline and shall

restore, to the satisfaction of UTA, such portions of the Right of Way to at least as good a condition as such were in at the time that Licensee first entered the Right of Way. If Licensee fails to do the foregoing within a reasonable time, UTA may, at its option, perform such removal and restoration work at the expense of Licensee. Licensee shall reimburse UTA for the costs incurred in any restoration or removal work performed under this Article within thirty (30) days after receipt of the bill therefor. In the event UTA removes the Pipeline pursuant to this Article, UTA shall in no manner be liable to the Licensee for any damage sustained by Licensee for or on account thereof, and such removal and restoration shall in no manner prejudice or impair any other right of action, including the recovery of damages, that UTA may have against the Licensee. The provisions of this Article shall survive the termination of this Agreement.

ARTICLE XIII ASSIGNMENT

Licensee may not assign this Agreement, in whole or in part, or any rights herein granted, without UTA's written consent, which consent shall not be unreasonably withheld, conditioned, or delayed. Notwithstanding the foregoing, Licensee may assign this Agreement and its rights hereunder as part of a sale to any entity that: (a) is a corporate parent to Licensee; (b) is merged or consolidated with Licensee; or (c) that purchases substantially all of the assets or capital stock of Licensee provided, however, that in any of the above instances such entity seeking an assignment under this Article must, as a condition to such assignment, assume all terms and conditions of this Agreement without limitation.

ARTICLE XIV SUCCESSORS AND ASSIGNS

Subject to the provisions of Article XIII, this Agreement shall be binding upon and inure to the benefit of the Parties hereto, their heirs, executors, administrators, successors and assigns.

ARTICLE XV SEVERABILITY

This Agreement is executed by the Parties under current interpretation of any and all applicable federal, state, county, municipal, or other local statutes, ordinances, or laws. Furthermore, each and every separate division hereof shall have independent and severable status from each other division, or combination thereof, for the determination of legality, so that if any separate division herein is determined to be unconstitutional, illegal, violative of trade or commerce, in contravention of public policy, void, invalid or unenforceable for any reason, that separate division shall be treated as a nullity but such holding or determination shall have no effect upon the validity or enforceability of each and every other division, or other combination thereof.

ARTICLE XVI NOTICES

Except as specifically provided elsewhere in this Agreement, all notices, requests, demands and other communications hereunder shall be in writing and shall be deemed given if personally delivered or mailed, certified mail, return receipt requested, or sent by overnight carrier to the addresses set forth herein. Addresses for notice may be changed by giving ten (10) days written notice of the change in the manner set forth herein.

If to UTA:

Utah Transit Authority
Attn: Property Management
669 West 200 South
Salt Lake City, UT 84101
PropertyManagement@rideuta.com

With a Copy to:

Utah Transit Authority
Attn: Legal Department
669 West 200 South
Salt Lake City, UT 84101

If to Licensee:

Jordan Valley Water Conservancy District
Attn: General Manager
8215 South 1300 West
West Jordan, UT 84088

**ARTICLE XVII
NO IMPLIED WAIVER**

The waiver by UTA of the breach by Licensee of any condition, covenant or agreement herein contained shall not impair any future ability of UTA to avail itself of any remedy or right set forth in this Agreement. Neither the right of supervision by UTA, nor the exercise or failure to exercise such right, nor the approval or failure to disapprove, nor the election by UTA to repair or reconstruct all or any part of the work contemplated by this Agreement shall be deemed a waiver of any of the obligations of Licensee contained or set forth in this Agreement.

**ARTICLE XVIII
ENTIRE AGREEMENT - COUNTERPARTS**

This Agreement shall constitute the entire agreement and understanding of the Parties with respect to the subject matter hereof, and shall supersede all offers, negotiations and other agreements with respect thereto. Any amendment to this Agreement must be in writing and executed by the authorized representatives of each Party. This Agreement may be executed in any number of counterparts and by each of the Parties hereto on separate counterparts, each of which when so executed and delivered shall be an original, but all such counterparts shall together constitute but one and the same instrument. Any signature page of this Agreement may be detached from any counterpart and reattached to any other counterpart hereof. The facsimile transmission of a signed original of this Agreement or any counterpart hereof and the retransmission of any signed facsimile transmission hereof shall be the same as delivery of an original.

**ARTICLE XIX
FORUM SELECTION AND CHOICE OF LAW**

This Agreement shall be construed and interpreted under the laws of the State of Utah and the parties agree that any action or proceeding brought concerning this Agreement may be brought only in the courts of Salt Lake County, Utah, and each party hereto hereby consents to the jurisdiction of such courts.

**ARTICLE XX
SPECIAL PROVISIONS**

Special provisions, if any, are included in the attached Exhibit "C" (Exhibit "C" is attached hereto and hereby incorporated into and made a part of this Agreement by reference).

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed in duplicate as of the date first herein written.

Reviewed and Approved as to Form for UTA

UTAH TRANSIT AUTHORITY

UTA Engineering

DocuSigned by:
Tim Merrill
56403BC7C491482

Tim Merrill
Assistant Attorney General

By: _____
Paul Drake
Director, Real Estate & TOD

By: _____
Spencer Burgoyne
Manager, Property Administration

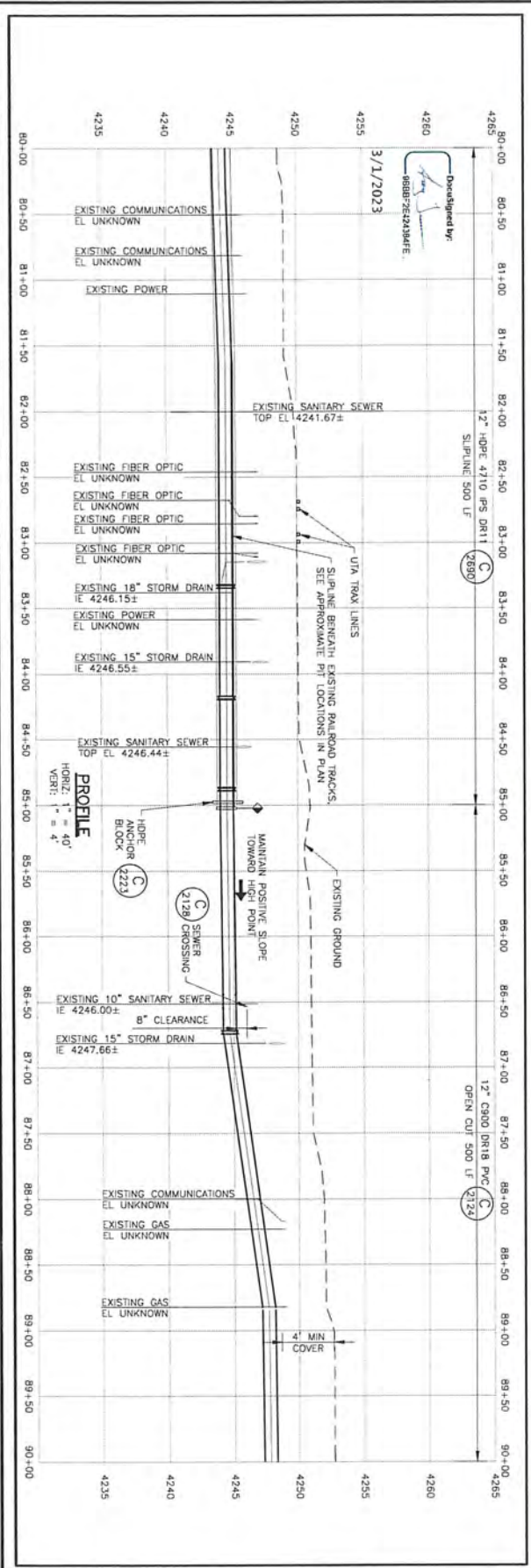
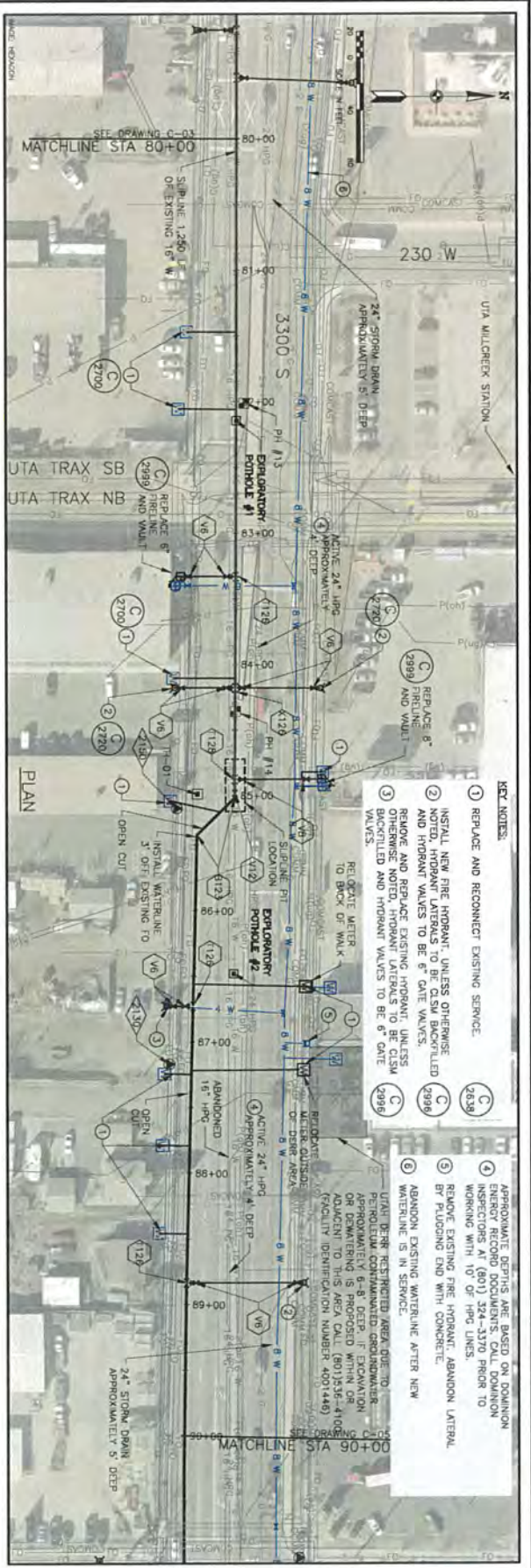
By: _____
Shelley Nielsen
Sr. Property Administrator

LICENSEE

By: _____
Corey Rushton, Chair
Jordan Valley Water Conservancy District

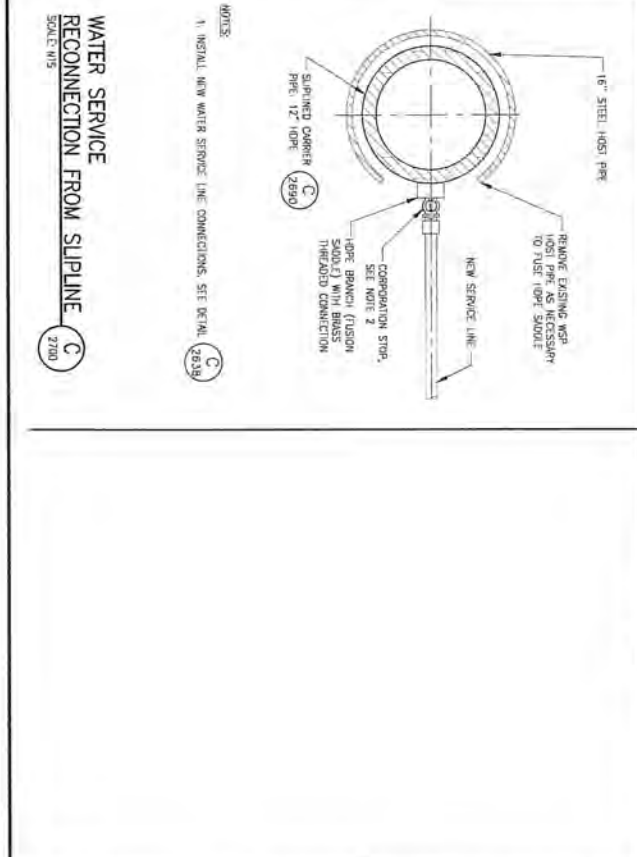
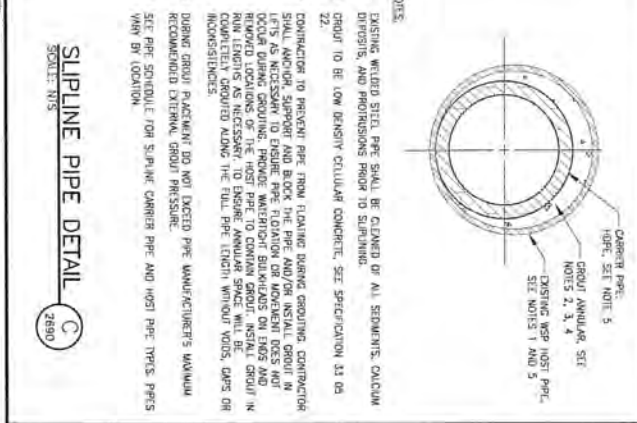
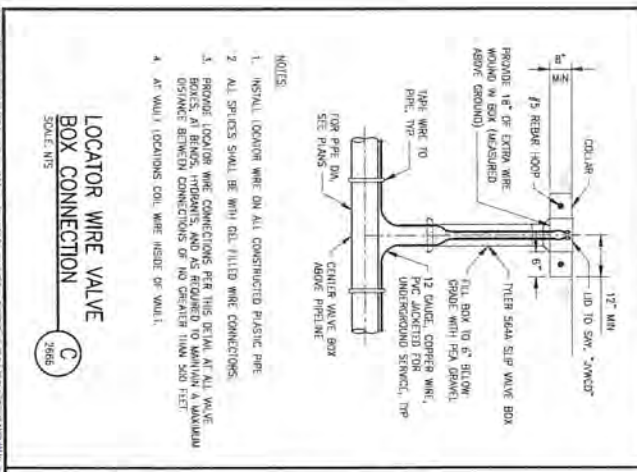
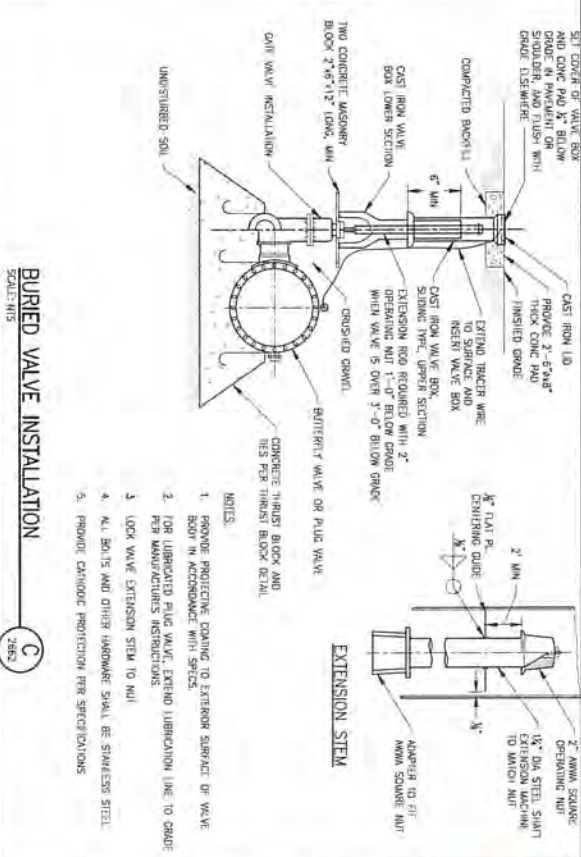
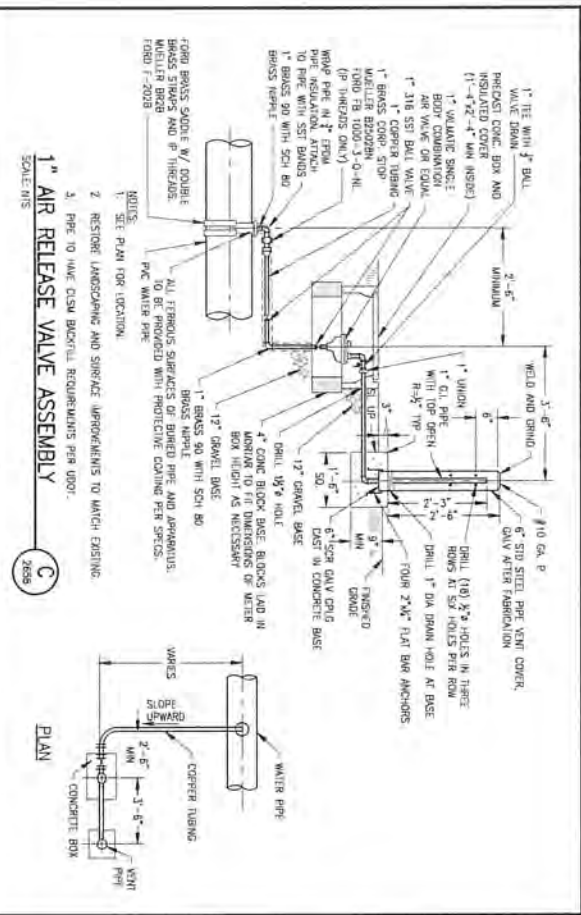
EXHIBIT "A"
DESIGN PLANS

[Insert engineering drawings showing the proposed crossing including proposed construction methods, shoring and cribbing requirements and mile post location]



- KEY NOTES:**
- 1 REPLACE AND RECONNECT EXISTING SERVICE.
 - 2 NOTED HYDRANT VALVES TO BE CISM BACKFILLED AND HYDRANT VALVES TO BE 8" GATE VALVES.
 - 3 REMOVE AND REPLACE EXISTING HYDRANT, UNLESS BACKFILLED AND HYDRANT VALVES TO BE 8" GATE VALVES.
 - 4 APPROXIMATE DEPTH ARE BASED ON DOMINANT ENERGY RECORD DOCUMENTS CALL DOMINANT INSPECTORS AT (801) 324-2170 PRIOR TO WORKING WITH 10' OF HPIC LINES.
 - 5 REMOVE EXISTING FIRE HYDRANT, ABANDON LATERAL, BY PLUGGING END WITH CONCRETE.
 - 6 ABANDON EXISTING WATERLINE AFTER NEW WATERLINE IS IN SERVICE.
 - 7 UTAI DEIR REC'ED AREA DUE TO PETROLEUM CONTAMINATED GROUNDWATER OR DENYING IS PROPOSED WITHIN OF 4100' (FACILITY IDENTIFICATION NUMBER 4001446).

CIVIL		JORDAN VALLEY WATER CONSERVANCY DISTRICT		NO. 1192206 RYAN JAMES EGBERT 2022		
3300 SOUTH PIPELINE PROJECT - PHASE 2		CITY OF SOUTH SALT LAKE, UTAH		DATE: FEBRUARY 2023		
<p>PLAN & PROFILE STA 80+00 TO STA 90+00</p>		DESIGN DESIGN J. HUNTER	REVIEW CHECKED R. EGBERT	<p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p>		<p>DATE: FEBRUARY 2023</p> <p>PROJECT NUMBER: 010-20-09</p> <p>DRAWN: S. DUCKWORTH</p> <p>APPROVED: G.F. NELSON</p>
<p>DATE: FEBRUARY 2023</p> <p>PROJECT NUMBER: 010-20-09</p> <p>DRAWN: S. DUCKWORTH</p> <p>APPROVED: G.F. NELSON</p>		<p>DATE: FEBRUARY 2023</p> <p>PROJECT NUMBER: 010-20-09</p> <p>DRAWN: S. DUCKWORTH</p> <p>APPROVED: G.F. NELSON</p>		<p>DATE: FEBRUARY 2023</p> <p>PROJECT NUMBER: 010-20-09</p> <p>DRAWN: S. DUCKWORTH</p> <p>APPROVED: G.F. NELSON</p>		



GENERAL		JORDAN VALLEY WATER CONSERVANCY DISTRICT		3300 SOUTH PIPELINE PROJECT - PHASE 2		CITY OF SOUTH SALT LAKE, UTAH					
GENERAL CIVIL DETAILS - 06				DESIGN	REVIEW	VERIFY SCALE		DATE: FEBRUARY 2022 PROJECT NUMBER: 010-20-00			
				DESIGN: DEEVOY J. HUNTER	REVIEW: CHECKED: R. EGBERT	SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING		DATE: 02-22-2022			
				DRAWN: S. DUCKWORTH	APPROVED: G. F. NELSON	NO. DATE REVISION BY DESCRIPTION		REVISIONS			

EXHIBIT "B" INSURANCE REQUIREMENTS

Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement the following insurance coverage:

- A. **Commercial General Liability Insurance:** Policy providing coverage for death, personal injury and property damage with a combined single limit of at least \$2,000,000 each occurrence or claim and an aggregate limit of at least \$4,000,000. The policy shall contain broad form contractual liability insurance covering the indemnity obligations assumed by Licensee in the Agreement. Exclusions for railroads (except where the Pipeline is in all places more than fifty (50) feet from any railroad tracks, bridges, trestles, roadbeds, terminals, underpasses or crossings), and explosion, collapse and underground hazard shall be removed. Coverage provided on a "claims made" form shall provide for at least a two-year extended reporting and discovery period if (a) the coverage changes from a claims made form to an occurrence form, (b) there is a lapse/cancellation of coverage, or (c) the succeeding claims made policy retroactive date is different for the expiring policy.
 - a. The policy must also contain the following endorsement, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE: "Contractual Liability Railroads" ISO from CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Utah Transit Authority Property" as the Designated Job Site.
- B. **Automobile Liability Insurance:** Policy providing bodily injury, property damage and uninsured vehicles coverage with a combined single limit of at least \$2,000,000 each occurrence or claim. This insurance shall cover all motor vehicles including hired and non-owned, and mobile equipment if excluded from coverage under the commercial general liability insurance.
- C. **Worker's Compensation and Employer's Liability Insurance:** Policy covering Licensee's statutory liability under the laws of the State of Utah. If Licensee is self-insured, evidence of State approval must be provided.
- D. **Railroad Protective Liability Insurance (RRPLI):** During construction and maintenance within fifty (50) feet of an active railroad track, including but not limited to installation, repair or removal of facilities, equipment, services or materials, the Licensee and/or Licensee's Contractor must maintain "Railroad Protective Liability" insurance on behalf of UTA only as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000.
 - a. If the Licensee and/or Licensee's Contractor is not enrolling for this coverage under UTA's blanket RRPLI program, the policy provided must have the definition of "JOB LOCATION" AND "WORK" on the declaration page of the policy shall refer to this Agreement and shall describe all WORK or OPERATIONS performed under this Agreement.
- E. **Umbrella or Excess Insurance:** If Licensee utilizes umbrella or excess policies, and these policies must "follow form" and afford no less coverage than the primary policy.

F. Other Insurance Provisions:

- a. Licensee and their insurers shall endorse the required insurance policy(ies) to waive their right of subrogation against UTA. Licensee's insurance shall be primary with respect to any insurance carried by UTA. Licensee will furnish UTA at least thirty (30) days advance written notice of any cancellation or non-renewal of any required coverage that is not replaced.
- b. The required insurance policy(ies) shall be written by a reputable insurance company with a current AM Best's Insurance Guide Rate of A better, or as may otherwise be acceptable to UTA. Such insurance company shall be authorized to transact business in the State of Utah.
- c. The fact that insurance is obtained by Licensee shall not be deemed to release or diminish the liability of Licensee including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by UTA shall not be limited by the amount of the required insurance coverage.
- d. All policies shall contain a waiver of subrogation in favor of UTA.

**SUBMITTING REQUESTS FOR
RAILROAD PROTECTIVE LIABILITY INSURANCE**
(**\$2,000,000 per occurrence/ \$6,000,000 aggregate**)

Application forms for inclusion in Utah Transit Authority's Blanket Railroad Protective Liability Insurance Policy may be obtained from a Property Administrator.

If you have questions regarding railroad protective insurance (i.e. premium quotes, application) please contact David Pitcher at:

Phone: (801) 287-2371
Email: dcpitcher@rideuta.com

Send or hand deliver Checks and Applications to the following address:

Utah Transit Authority
Attn: Property Management
669 West 200 South
Salt Lake City, UT 84101

EXHIBIT "C"
SPECIAL PROVISIONS

Licensee or Licensee's contractor must first obtain a TRAX Track Access Permit from UTA before any access will be allowed on UTA property. The current contact person for obtaining a TRAX Track Access Permit is Jeff Woodhead at (385) 218-8190, or such other contact as shall be identified on UTA's website location noted below.

A copy of the permit that shall be filled out and submitted can be found on UTA's website, under the Track Access Permit tab.

<https://www.rideuta.com/Doing-Business/Property-Management>

Note: Access Permits will not be issued without first having an executed Contractor's Right of Entry Agreement, UTA having received proof of insurance as provided in the Right of Entry Agreement, and verification that the Contractor and all of the Contractor's Employees have gone through UTA's Roadway Worker Training, if applicable.

Licensee and Licensee's Contractor shall at no time place bypass on or across the Right of Way.

Licensee or Licensee's contractor shall only cross the Right of Way at designated Public Crossings

PIPELINE CROSSING AGREEMENT
(Standard Pipeline Form)

UTA Contract # PE/S/6923/P
EXISTING PIPELINE:
Mile Post: S 4.30
Latitude: 40.699869
Longitude: -111.904092

NEW PIPELINE:
Mile Post: S 4.32
Latitude: 40.699711
Longitude: -111.904031
South Salt Lake, Utah

THIS PIPELINE CROSSING AGREEMENT (the "Agreement") is made and entered into as of the ____ day of _____, 2023 (to be dated after the final executing signature by UTA), by and between UTAH TRANSIT AUTHORITY, a large public transit district organized pursuant to the laws of the State of Utah (hereinafter "UTA"), and Jordan Valley Water Conservancy District, a political subdivision of the State of Utah, with a principal address of 8215 South 1300 West, West Jordan, Utah 84088 (hereinafter "Licensee").

RECITALS

WHEREAS UTA is the owner of a certain railroad corridor known as the Commuter Rail South (the "Right of Way") acquired by UTA for the development and expansion of its public transportation system;

WHEREAS, Adjacent to the UTA owned property is railroad corridor owned and operated by the Union Pacific Railroad Company;

WHEREAS, Licensee has an existing 12" waterline not previously licensed (the "Existing Pipeline") installed at an unknown depth below the surface of the road within the Right of Way which crosses at approximately Mile Post S 4.30 (Latitude 40.699869, Longitude -111.904092), in South Salt Lake, Utah;

WHEREAS, Licensee desires to abandon in place the Existing Pipeline by following the Utah Department of Transportation's current abandonment standards and specifications;

WHEREAS, Licensee intends to install and maintain a 24" steel casing containing a 12" HDPE pipeline (the "New Pipeline") via open cut located a minimum of 3.5 feet below the surface of the road within the Right of Way and a minimum of 5 feet horizontal clearance between bridge structure and abutments which will cross at approximately Mile Post S 4.32 (Latitude 40.699711, Longitude -111.904031) in South Salt Lake, Utah;

WHEREAS, Existing Pipeline and New Pipeline may be individually referenced or collectively references as "the Pipelines"; and

WHEREAS, Licensee desires a license for the construction, operation and maintenance of the New Pipeline and the abandonment of the Existing Pipeline.

AGREEMENT

NOW THEREFORE, based on the stated Recitals, which are incorporated herein by reference, and for and in consideration of the mutual covenants and agreements hereinafter set forth, the mutual benefits to the Parties to be derived herefrom, and for other valuable consideration, the receipt and sufficiency of which the Parties acknowledge, it is hereby agreed as follows:

ARTICLE I INCORPORATED TERMS AND DEFINITIONS

For purposes of this Agreement, the following definitions shall apply:

1.1 “Construct” and “Construction” mean the initial installation of the New Pipeline (or any improvements to the New Pipeline and the abandonment of the Existing Pipeline) in or otherwise materially affecting the Right of Way, as well as any subsequent reconstruction, relocation, restoration or rehabilitation of either of the Pipelines (or any improvements to either of the Pipelines) in or otherwise materially affecting the Right of Way.

1.2 “Emergency Access Manager” means the person or office responsible for controlling emergency Construction and Maintenance access to the Right of Way. The Emergency Access Manager as of the execution of this Agreement shall be reached at (801) 287-5455. UTA may change the designated Emergency Access Manager from time to time by delivery of notice in accordance with Article XVI of this Agreement.

1.3 “Freight Operator” means any entity using the Right of Way, or any portion thereof, to provide common carrier freight operations.

1.4 “Governmental Authority” means any federal, state, municipal, local or other division of government, or any agency thereof, having or asserting jurisdiction with respect to any matter related to this Agreement.

1.5 “Hazardous Materials” mean any materials or substances: (i) which are present in quantities and in forms which require investigation, removal, cleanup, transportation, disposal, response or remedial action (as the terms “response” and “remedial action” are defined in Section 101 of the Comprehensive Environmental Compensation and Liability Act of 1980, as amended, 42 U.S.C. §9601 (24) and (25)) under any applicable federal, state or local environmental law, regulation, ordinance, rule or bylaw, as such are amended from time to time, whether existing as of the date hereof, previously enforced or subsequently amended (each hereafter an “Environmental Law”); or (ii) which are defined as “hazardous wastes,” “hazardous substances,” “pollutants” or “contaminants” under any Environmental Law.

1.6 “Losses” mean any losses, damages, claims, demands, actions, causes of action, penalties, expenses, litigation costs, attorneys’ fees, expert witness fees, court costs, amounts paid in settlement, judgments, interest or other costs resulting from: (i) loss of or damage to the property of any Party or Third Person; (ii) death or personal injury to the agents of any Party or to any Third Person; or (iii) the cleanup or other requirements regarding any incident involving Hazardous Materials.

1.7 “Maintain” and “Maintenance” mean the performance of any repair, restoration, rehabilitation, refurbishment, retrofitting, inspection, monitoring, observation, testing, or similar work with respect to either of the Pipelines (or any improvements to either of the Pipelines) in or otherwise materially affecting the Right of Way.

- 1.8 "Party" and "Parties" mean UTA or Licensee, and UTA and Licensee, respectively
- 1.9 "Pipelines" mean:
- a) the existing 12" waterline to be abandoned in place by following the Utah Department of Transportation's current abandonment standards and specifications; and installed at an unknown depth below the surface of the road within the Right of Way which crosses at approximately Mile Post S 4.30 (Latitude 40.699869, Longitude -111.904092) on the Commuter Rail South in South Salt Lake, Utah, as described in Exhibit "A"; and
 - a. Upon Licensee written notification of completion of abandonment, the Existing Pipeline is hereby removed from all obligations to this Agreement and the Historical Agreement.
 - b) the 24" steel casing containing a 12" HDPE water pipe line to be installed by Licensee via open cut method of installation, pursuant to this Agreement and located a minimum of 3.5 feet below the surface of the road within the Right of Way and a minimum of 5 feet horizontal clearance between bridge structure and abutments at Mile Post S 4.32 (Latitude 40.699711, Longitude -111.904031) on the Commuter Rail South in South Salt Lake, Utah as described in Exhibit "A".

The term "Pipelines" shall also apply to any and all rearrangements, modifications, reconstruction, relocations, removals and extensions or additions concerning the Pipelines that are authorized and approved by UTA pursuant to this Agreement (unless they are the subject of a separate agreement that does not incorporate the terms hereof).

- 1.10 "Third Person" means any individual, corporation or legal entity other than UTA and Licensee.

1.11 "Track Improvements" mean any and all tracks, rails, ties, switches, frogs, end of track barricades or bumpers and other barricades or bumpers, derail devices, tie plates, spikes, wires, fastenings and any other appurtenances related thereto, drainage structures, grading, ballast, subgrade stabilization, crossings, tunnels, bridges, trestles, culverts, structures, facilities, leads, spurs, turnouts, tails, sidings, signals, crossing protection devices, communications systems or facilities, catenary systems and wires, poles and all other operating and non-operating appurtenances located within the Right of Way.

1.12 "Utility" and "Utilities" mean and include all properties, facilities, utilities, crossings, encroachments, lines and similar appurtenances located within the Right of Way by permissive or prescriptive authority including, but not limited to, pipelines, tubelines, water and gas lines or mains, electrical conduits, ditches and other drainage facilities, wires, fiber optics, communication lines, sewer pipes, overhead wiring and supporting structures and appurtenances, and all similar installations.

1.13 "Work Window" means the time period designated by UTA during which Construction, Maintenance and any other work with respect to the Pipelines within the Right of Way is permissible. UTA may, at any time and at UTA's sole discretion, determine that the Work Window shall not be concurrent with any passenger operations within the Right of Way.

ARTICLE II GRANT OF LICENSE AND REAL ESTATE USAGE CHARGE

2.1 An administrative fee has been paid by Licensee at the time of application for the license granted herein in the amount of \$1,000.00. This amount reflects the clerical, administrative and handling expense incurred in connection with the processing of this Agreement.

2.2 In consideration of the real estate usage charge to be paid by Licensee, and in further consideration of the covenants and agreements to be kept, observed and performed by Licensee hereunder, UTA hereby grants Licensee a license to Construct, Maintain and operate the New Pipeline and abandon the Existing Pipeline in the locations shown and in conformity with the dimensions and specifications indicated on the attached print dated **February 2023** and approved by UTA Engineer on **February 24, 2023** marked Exhibit "A" (Exhibit "A" is attached hereto and hereby incorporated into and made a part of this Agreement by reference).

2.3 Licensee agrees to pay UTA a one-time real estate usage charge of **\$1,285.00** payable on or before the date of execution. Licensee also agrees to pay an upfront Flagging fee of **\$0.00** and Special Inspection fee of **\$304.00** (these fees are more clearly described in Section 5.1).

2.4 This license granted by this Agreement is conditioned on the provision that Licensee shall obtain all necessary permission from and comply with all the requirements of the Union Pacific Railroad Company.

ARTICLE III ACCESS TO THE RIGHT OF WAY

3.1 Except in the event of an emergency (as provided in Section 3.2 below), Licensee shall request permission from UTA at least ten days (or such shorter period as may be approved by UTA) prior to performing any Construction or Maintenance in or otherwise materially affecting the Right of Way. Licensee's request to access the Right of Way shall be specific as to the time, date and activities for which Licensee seeks permission. The request shall also include a summary of the method and manner in which the Construction or Maintenance will be performed. As part of the application process, UTA may require Licensee (and its contractors or other agents seeking access to the Right of Way) to attend any track access coordination meetings, safety training or other instruction as may be deemed necessary by UTA. Once granted, UTA's permission to enter the Right of Way shall be formalized in writing and delivered to Licensee. After permission has been granted, Licensee shall comply with all conditions, instructions and requirements of such permit and with all instructions or directions given by UTA including, if required, daily telephone notification to the applicable rail dispatch center prior to each entry into the Right of Way. All contact with UTA shall be coordinated through the person designated by UTA from time to time as set forth in Article XVI of this Agreement. Provided that Licensee complies with the provisions of this Section, UTA agrees not to unreasonably withhold, condition, or delay its approval of Licensee's request.

3.2 Licensee shall have the right to enter the Right of Way in the event of an emergency to make repairs to the pipelines necessary to protect against imminent and serious injury or damage to persons or property. Licensee shall take all precautions necessary to ensure that such emergency entry does not compromise the safety of any operations conducted in the Right of Way by UTA or Freight Operator. Licensee must notify the Emergency Access Manager of the emergency access and the work being performed prior to entering the Right of Way or as soon thereafter as reasonably practicable.

ARTICLE IV CONSTRUCTION AND MAINTENANCE OF THE PIPELINES

4.1 All Construction and Maintenance with respect to the Pipelines shall be performed to the satisfaction of UTA and in accordance with the conceptual, engineering and/or design plans (“Design Plans”) previously approved by UTA and attached hereto as Exhibit “A.” All Construction and Maintenance with respect to the Pipelines shall be performed in a workmanlike manner, in compliance with all applicable industry standards and in compliance with the requirements of any applicable Governmental Authority. UTA may impose requirements in addition to or more stringent than industry or legal standards if UTA deems such requirements necessary for the safety of operations conducted in the Right of Way. UTA may also require additional fabrication methods, staging requirements or other precautions. All Construction and Maintenance with respect to the Pipelines shall be performed during the designated Work Window. UTA shall have the right, but not the obligation, to observe any and all work performed in or otherwise materially affecting the Right of Way in connection with the Pipelines to ensure that such work is performed in accordance with the requirements set forth in this Agreement. In its Construction or Maintenance of the Pipelines, Licensee shall not make any material deviation from the Design Plans without UTA’s prior written approval. Licensee shall submit to UTA plans setting out the method and manner of handling all work to be performed under the Track Improvements including, without limitation, the shoring and cribbing, if any, required to protect the operations of UTA, the Freight Operator or the owner of any adjacent tracks. Licensee shall not proceed with any such work until Licensee’s proposed methods have been approved by UTA. The New Pipeline shall be placed at the depth designated by UTA and shall not interfere with any Track Improvements.

4.2 Various Utilities exist on, over and under the surface of the Right of Way. Prior to commencing any Construction or Maintenance with respect to the Pipelines, Licensee shall properly investigate and determine the location of all such Utilities. In addition to the required investigation, Licensee shall have all Utilities in the area of the Pipelines “blue-staked” and clearly marked prior to any excavation. Licensee shall make arrangements for the protection of all Utilities and shall commence no excavation, boring or other penetration in the Right of Way until all such protection has been accomplished.

4.3 Fiber optic cable systems may be buried in the Right of Way. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Licensee shall telephone UNION PACIFIC RAILROAD COMPANY during normal business hours (7:00 a.m. to 9:00 p.m. Central Time, Monday through Friday, except holidays) at 1-800-336-9193 (also a 24-hour, 7-day number for emergency calls) to determine if fiber optic cable is buried near the location of the Pipelines. If so, Licensee will telephone the telecommunications company(ies) involved, make arrangements for a cable locator and, if applicable, make arrangements for relocation or other protection of the fiber optic cable. Licensee shall not commence any work until all such protection and/or relocation (if applicable) have been accomplished. In addition to other indemnity provisions in this Agreement, Licensee shall indemnify, defend and hold the UTA Indemnitees (as defined in Section 8.1 of this Agreement) harmless from and against all Losses arising out of any act or omission of Licensee, its contractors, agents and/or employees, that causes or contributes to: (a) any damage to or destruction of any telecommunications system in the Right of Way; and/or (b) any injury to or death of any person employed by or on behalf of any telecommunications company, and/or its contractors, agents and/or employees in the Right of Way. Licensee shall not have or seek recourse against UTA for any claim or cause of action for alleged loss of profits or revenue or loss of service or other consequential damage to a telecommunication company using UTA's property or a customer or user of services of the fiber optic cable on UTA's property.

4.4 Licensee shall be solely responsible for obtaining any property rights, easements, rights of way or other permission from Third Persons (collectively “Third Person Property Rights”) as may be

necessary to Construct, Maintain or operate the Pipelines including, without limitation, any needed permission from the owner of any adjacent railroad corridor. Licensee shall also be solely responsible for obtaining any necessary franchises, permits or other necessary approvals from Governmental Authorities (collectively "Approvals"). Licensee agrees to pay any and all costs and expenses that may be asserted against UTA relating to such Third Person Property Rights or Approvals, and to assume any and all liability therefor.

4.5 Except as authorized in this Agreement or as may be immediately required for (and only at the actual time of) performance of any Construction or Maintenance contemplated under this Agreement, and then only in full compliance with all clearance standards and other safety requirements, Licensee shall not place, permit to be placed, erect, pile, store, stack, park, suffer or permit any line, building, platform, fence, gate, vehicle, car, pole, or other structure, obstruction, or material of any kind within the Right of Way.

4.6 Licensee shall Construct, Maintain and operate the Pipelines in compliance with all requirements imposed by any Governmental Authority including, without limitation, the requirements of the Federal Railroad Administration, the Occupational Safety and Health Administration and the Utah Department of Transportation. Licensee shall also Construct, Maintain and operate the Pipelines in compliance with all applicable environmental laws. Licensee shall take all suitable precautions to prevent any leakage or other interference with the operation of the Track Improvements or any other UTA or Third Person installations or facilities within the Right of Way. If the Pipelines for any reason cause interference with the operation of Track Improvements or any other UTA or Third Person installations or facilities within the Right of Way, Licensee shall, upon notification by UTA and at Licensee's sole cost and expense, take such action as may be necessary to eliminate the interference including, without limitation, the removal of either of the Pipelines.

4.7 If, in connection with the performance of any Construction or Maintenance work, Licensee or its Contractor damages any Track Improvements, Utilities, or any other facilities, Licensee shall repair or replace such facilities with the same or similar materials, if available, as reasonably required by the UTA, consistent with applicable Federal and State laws and regulations and to the satisfaction of UTA.

4.8 At the request of UTA, Licensee shall install markers identifying the location of the Pipelines and related appurtenances at the Right of Way boundaries (where the Pipelines enter and exit the Right of Way) or other locations where UTA may designate. Markers shall be installed in a form and size as may be determined by UTA and at the sole cost and expense of Licensee. UTA hereby expressly reserves the right to require Licensee to erect and maintain, at Licensee's sole cost and expense, any and all signs of any character and nature whatsoever (e.g. location of Pipelines, precautionary and/or warning signs, etc.) that UTA deems necessary or advisable in connection with the operation of the New Pipeline or the abandonment of the Existing Pipeline. Licensee shall install and/or erect any marker or sign that may be required under this Section within thirty (30) days after receiving written instructions from UTA.

4.9 Upon completion of any Construction or Maintenance relating to the Pipelines, Licensee shall restore the surface of the Right of Way to its prior condition including, but not limited to, replacing any soil that was removed and thoroughly compacting it level with the adjacent surface of the ground and restoring any fences or other property that Licensee disturbed or removed from the Right of Way.

4.10 If a contractor is to perform any Construction or Maintenance contemplated in this Agreement, then the Licensee shall cause its contractor to comply with all applicable provisions of this Agreement. Additionally, Licensee shall require its contractor to execute UTA's form Contractor's Right of Entry Agreement (the "Contractor Agreement"). Any and all contractors used by Licensee in the

Construction or Maintenance of the Pipelines are subject to the approval of UTA, which approval shall not be unreasonably withheld, conditioned or delayed.

4.11 If Licensee fails to notify UTA a minimum of ten (10) days before the initial installation or modification of the Pipelines or if Licensee's Contractor fails to obtain a Contractor Agreement, Licensee agrees to pay UTA an additional three thousand dollars (**\$3,000.00**) as a fee for the initial inspection of the Pipelines, together with any other additional fees incurred by UTA to verify that the New Pipeline was installed as per the approved plans. Such review and verification could include exposing the line to verify the depth of and materials installed. If the New Pipeline was not installed in the approved location, depth, and with the approved materials, as described in the approved plans, Licensee agrees to remove the New Pipeline and reinstall it according to the approved plans at Licensee's sole cost and expense.

ARTICLE V CONSTRUCTION OBSERVATION BY UTA – LICENSEE TO BEAR ALL COSTS

5.1 The current cost of flagging is \$788/day for an eight (8)-hour day and \$1,058/day for a twelve (12) - hour day. Flagging is charged in blocks, with a minimum billing of an eight (8) - hour period. The current cost for a special inspector is \$76/hour with a two (2) -hour minimum charge per inspection/inspector. UTA has determined that zero (0), eight (8)-hour day for Flagging and two (2), two (2)-hour day for a Special Inspection will be needed for the construction of this New Pipeline and the abandonment of the Existing Pipeline. Licensee will pre-pay **\$304.00** for Flagging and a Special Inspection at or before the execution of this Agreement. If after the construction of the New Pipeline and abandonment of the Existing Pipeline extra days of Flagging or Special Inspection have been collected, Licensee may submit in writing for a refund from UTA. Submission for refund will need to be submitted to UTA within thirty (30) days of the date of completion of the Pipelines. Refunds will only be issued after confirmation from UTA operations that the flagging and special inspection days were not used.

5.2 In the event that UTA, in its sole discretion, determines that any other inspectors (technical or special), monitors, observers, safety personnel, additional flaggers or other persons are required given the nature of the Construction or Maintenance to be performed, UTA may, at its sole discretion, provide such personnel and Licensee shall, within thirty (30) days, reimburse UTA for the reasonable costs thereby incurred.

ARTICLE VI LICENSEE TO BEAR ALL COSTS RELATED TO PIPELINES

Licensee shall be solely responsible for any and all costs incurred with respect to any Construction, Maintenance or other work related to the Pipelines. Such costs shall include, without limitation, the cost of any modifications to UTA's Track Improvements and other facilities that may be necessary to accommodate or facilitate the Pipelines.

ARTICLE VII SUBORDINATION OF RIGHTS GRANTED - RELOCATION OF PIPELINES

7.1 The rights granted pursuant to this Agreement shall be subject and subordinate to the prior and continuing right and obligation of UTA to fully use the Right of Way, including the right and power of UTA to construct, maintain, repair, renew, use, operate, modify, or relocate new or existing Track Improvements upon, along, above, or across any or all parts of the Right of Way and other UTA property, all or any of which may be freely done at any time or times by UTA without liability to Licensee for compensation or damages. The grant of license for the Pipelines is made without covenants of title or quiet enjoyment. UTA makes no warranties, either express or implied, regarding the nature, extent or status of

its title to the Right of Way or regarding the existence or nonexistence of Third Person rights which may be superior to the license granted pursuant to this Agreement.

7.2 Licensee shall, at its sole cost and expense and within thirty (30) days after receipt of written notice from UTA, or such other reasonable period of time as the Parties may agree, modify either of the Pipelines, relocate all or any portion of either of the Pipelines to such new location in the Right of Way as UTA may designate, or (if neither modification nor relocation is practicable) remove either of the Pipelines entirely from the Right of Way whenever, in furtherance of its needs and requirements, UTA shall find such action necessary or desirable. All the terms, conditions and stipulations herein expressed with reference to the Pipelines on UTA's property in the location described herein shall, so far as the Pipelines remain on UTA property, apply to the Pipelines as modified or relocated pursuant to this Section. Licensee shall not be entitled to any damages or other compensation as the result of UTA's exercise of its rights under this paragraph. UTA agrees to exercise its rights under this Section in good faith.

7.3 The foregoing grant is also subject to the outstanding superior rights previously conveyed or granted to Third Parties by UTA, or its predecessors in interest, and the right of UTA to renew and extend the same.

ARTICLE VIII INDEMNITY AND RELEASE

8.1 As additional consideration for this Agreement, Licensee agrees to protect, defend, release, indemnify and hold harmless UTA, and any affiliates, successors, contractors, officers, directors, agents and employees of UTA (the "UTA Indemnitees") from and against any and all Losses proximately caused by: (a) the prosecution of any work contemplated by this Agreement by Licensee, or any employees, principals, contractors or agents of Licensee, including, without limitation, the Construction or Maintenance of the Pipelines, or any portion thereof; (b) the presence, operation or use of the Pipelines or any portion thereof within the Right of Way; or (c) Licensee's breach of any provision of this Agreement.

8.2 Licensee acknowledges that the Right of Way may be subject to prospective purchaser agreements and covenants not to sue that UTA has entered with the Utah Department of Environmental Quality and the United States Environmental Protection Agency. Pursuant to such agreements, UTA is required to characterize any excavated soil that appears to contain (or has the potential to contain) Hazardous Materials and to handle and dispose of any such soil in compliance with applicable state and federal laws. Under these agreements, UTA is not required to excavate any soil except as required for its rail construction activities within its Right of Way. Accordingly, any excavation contemplated in this Agreement exposes UTA to potential environmental liability that would not otherwise be present. As consideration for the rights granted to Licensee hereunder, Licensee agrees to assume all potential liability and responsibility for, and to indemnify and hold UTA harmless with respect to, any Losses related to the characterization and removal of any Hazardous Materials discovered during the performance of any Construction or Maintenance. Licensee agrees to perform any such characterization and removal in full compliance with all applicable state and federal environmental laws.

8.3 Licensee hereby releases UTA from, and agrees not to seek recourse against UTA with respect to, any claims, damages, fees, expenses or other losses proximately caused by Third Persons to the Pipelines including, without limitation, Third Persons having licenses or other interests in the Right of Way.

8.4 The provisions of this Article shall survive the termination of this Agreement.

**ARTICLE IX
CLAIMS AND LIENS FOR LABOR AND MATERIALS; TAXES**

9.1 Licensee shall fully pay for all materials joined or affixed to the Right of Way in connection with the Pipelines, and for all labor performed with respect to the Pipelines. Licensee shall not permit or suffer any mechanic's or materialman's lien of any kind or nature to be enforced against the property for any work done or materials furnished thereon at the instance or request or on behalf of Licensee.

9.2 Licensee shall promptly pay or discharge all taxes, charges and assessments assessed or levied upon, in respect to, or on account of the Pipelines to prevent the same from becoming a charge or lien upon the Right of Way and so that any taxes, charges and assessments levied upon or with respect to such property shall not be increased because of the Pipelines or any improvements, appliances, or fixtures connected therewith.

**ARTICLE X
TERMINATION**

10.1 UTA may terminate this Agreement if: (a) Licensee ceases to use the New Pipeline in an active and substantial way for any continuous period of one (1) year; (b) Licensee continues in default with respect to any provision of this Agreement for a period of thirty (30) days after UTA delivers written notice to Licensee identifying the nature of Licensee's breach of this Agreement; provided, however that if the nature of Licensee's breach is such that it cannot be cured within such thirty (30) - day period, Licensee shall not be deemed in default if Licensee commences to cure the breach within thirty (30) days and thereafter diligently continues to remedy the breach; or (c) Licensee removes the Pipelines from the Right of Way.

In addition to the provisions of Section 10.1, either Party may terminate this Agreement upon delivery of three hundred and sixty (360) days written notice to the other Party, with or without cause.

10.2 Termination of this Agreement for any reason shall not affect any of the rights, obligations or liabilities that have accrued prior to or concurrent with such termination.

**ARTICLE XI
INSURANCE**

11.1 During the life of this Agreement, Licensee shall, at its sole cost and expense, obtain and maintain the insurance described in Exhibit "B" (Exhibit "B" is attached hereto and hereby incorporated into and made a part of this Agreement by reference). Licensee will also provide to UTA a Certificate of Insurance, identifying UTA Contract Number PE/S/6923/P, issued by its insurance carrier confirming the existence of such insurance and indicating that the policy or policies contain the following endorsement:

"Utah Transit Authority is named as an additional insured with respect to all liabilities arising out of the existence, use or any work performed on or associated with the Pipeline Crossing Agreement PE/S/6923/P in the railroad right of way known as the Commuter Rail South at approximately Mile Post S 4.32 in South Salt Lake, Salt Lake County, Utah"

11.2 Failure to maintain insurance as required shall entitle, but not require UTA to terminate the license granted hereby immediately.

11.3 If Licensee is a public entity subject to any applicable statutory governmental immunity laws, the limits of insurance described in Exhibit "B" shall be the limits the Licensee then has in effect or

that are required by applicable current or subsequent law, whichever is greater, a portion of which may be self-insured with the consent and approval of UTA.

11.4 Licensee hereby acknowledges that it has reviewed the requirements of Exhibit "B", including without limitation the requirement for Railroad Protective Liability Insurance during Construction, Maintenance, installation, repair or removal of the pipeline which is the subject of this Agreement.

ARTICLE XII REMOVAL OF PIPELINES UPON TERMINATION OF AGREEMENT

Upon termination of this Agreement howsoever, Licensee shall, at Licensee's sole cost and expense, remove the New Pipeline from within the Right of Way or, if agreed to by UTA in writing, use such other reasonable method as the Parties may agree to address the continued existence of the New Pipeline and shall restore, to the satisfaction of UTA, such portions of the Right of Way to at least as good a condition as such were in at the time that Licensee first entered the Right of Way. If Licensee fails to do the foregoing within a reasonable time, UTA may, at its option, perform such removal and restoration work at the expense of Licensee. Licensee shall reimburse UTA for the costs incurred in any restoration or removal work performed under this Article within thirty (30) days after receipt of the bill therefor. In the event UTA removes the New Pipelines pursuant to this Article, UTA shall in no manner be liable to the Licensee for any damage sustained by Licensee for or on account thereof, and such removal and restoration shall in no manner prejudice or impair any other right of action, including the recovery of damages, that UTA may have against the Licensee. The provisions of this Article shall survive the termination of this Agreement.

ARTICLE XIII ASSIGNMENT

Licensee may not assign this Agreement, in whole or in part, or any rights herein granted, without UTA's written consent, which consent shall not be unreasonably withheld, conditioned, or delayed. Notwithstanding the foregoing, Licensee may assign this Agreement and its rights hereunder as part of a sale to any entity that: (a) is a corporate parent to Licensee; (b) is merged or consolidated with Licensee; or (c) that purchases substantially all of the assets or capital stock of Licensee provided, however, that in any of the above instances such entity seeking an assignment under this Article must, as a condition to such assignment, assume all terms and conditions of this Agreement without limitation.

ARTICLE XIV SUCCESSORS AND ASSIGNS

Subject to the provisions of Article XIII, this Agreement shall be binding upon and inure to the benefit of the Parties hereto, their heirs, executors, administrators, successors and assigns.

ARTICLE XV SEVERABILITY

This Agreement is executed by the Parties under current interpretation of any and all applicable federal, state, county, municipal, or other local statutes, ordinances, or laws. Furthermore, each and every separate division hereof shall have independent and severable status from each other division, or combination thereof, for the determination of legality, so that if any separate division herein is determined to be unconstitutional, illegal, violative of trade or commerce, in contravention of public policy, void, invalid or unenforceable for any reason, that separate division shall be treated as a nullity but such holding

or determination shall have no effect upon the validity or enforceability of each and every other division, or other combination thereof.

**ARTICLE XVI
NOTICES**

Except as specifically provided elsewhere in this Agreement, all notices, requests, demands and other communications hereunder shall be in writing and shall be deemed given if personally delivered or mailed, certified mail, return receipt requested, or sent by overnight carrier to the addresses set forth herein. Addresses for notice may be changed by giving ten (10) days written notice of the change in the manner set forth herein.

If to UTA:

Utah Transit Authority
Attn: Property Management
669 West 200 South
Salt Lake City, UT 84101
PropertyManagement@rideuta.com

With a Copy to:

Utah Transit Authority
Attn: Legal Counsel
669 West 200 South
Salt Lake City, UT 84101

If to Licensee:

Jordan Valley Water Conservancy District
Attn: General Manager
8215 South 1300 West
West Jordan, UT 84088

**ARTICLE XVII
NO IMPLIED WAIVER**

The waiver by UTA of the breach by Licensee of any condition, covenant or agreement herein contained shall not impair any future ability of UTA to avail itself of any remedy or right set forth in this Agreement. Neither the right of supervision by UTA, nor the exercise or failure to exercise such right, nor the approval or failure to disapprove, nor the election by UTA to repair or reconstruct all or any part of the work contemplated by this Agreement shall be deemed a waiver of any of the obligations of Licensee contained or set forth in this Agreement.

**ARTICLE XVIII
ENTIRE AGREEMENT - COUNTERPARTS**

This Agreement shall constitute the entire agreement and understanding of the Parties with respect to the subject matter hereof, and shall supersede all offers, negotiations and other agreements with respect thereto. Any amendment to this Agreement must be in writing and executed by the authorized representatives of each Party. This Agreement may be executed in any number of counterparts and by each of the Parties hereto on separate counterparts, each of which when so executed and delivered shall be an original, but all such counterparts shall together constitute but one and the same instrument. Any signature page of this Agreement may be detached from any counterpart and reattached to any other counterpart hereof. The facsimile transmission of a signed original of this Agreement or any counterpart hereof and the retransmission of any signed facsimile transmission hereof shall be the same as delivery of an original.

**ARTICLE XIX
FORUM SELECTION AND CHOICE OF LAW**

This Agreement shall be construed and interpreted under the laws of the State of Utah and the parties agree that any action or proceeding brought concerning this Agreement may be brought only in the courts of Salt Lake County, Utah, and each party hereto hereby consents to the jurisdiction of such courts.

**ARTICLE XX
SPECIAL PROVISIONS**

Special provisions, if any, are included in the attached Exhibit "C" (Exhibit "C" is attached hereto and hereby incorporated into and made a part of this Agreement by reference).

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed in duplicate as of the date first herein written.

UTAH TRANSIT AUTHORITY

Reviewed and Approved as to Form for UTA

UTA Engineering

DocuSigned by:
Tim Merrill
30A038C7C491482

Tim Merrill
Assistant Attorney General

By: _____
Paul Drake
Director, Real Estate & TOD

By: _____
Spencer Burgoyne
Manager, Property Administration

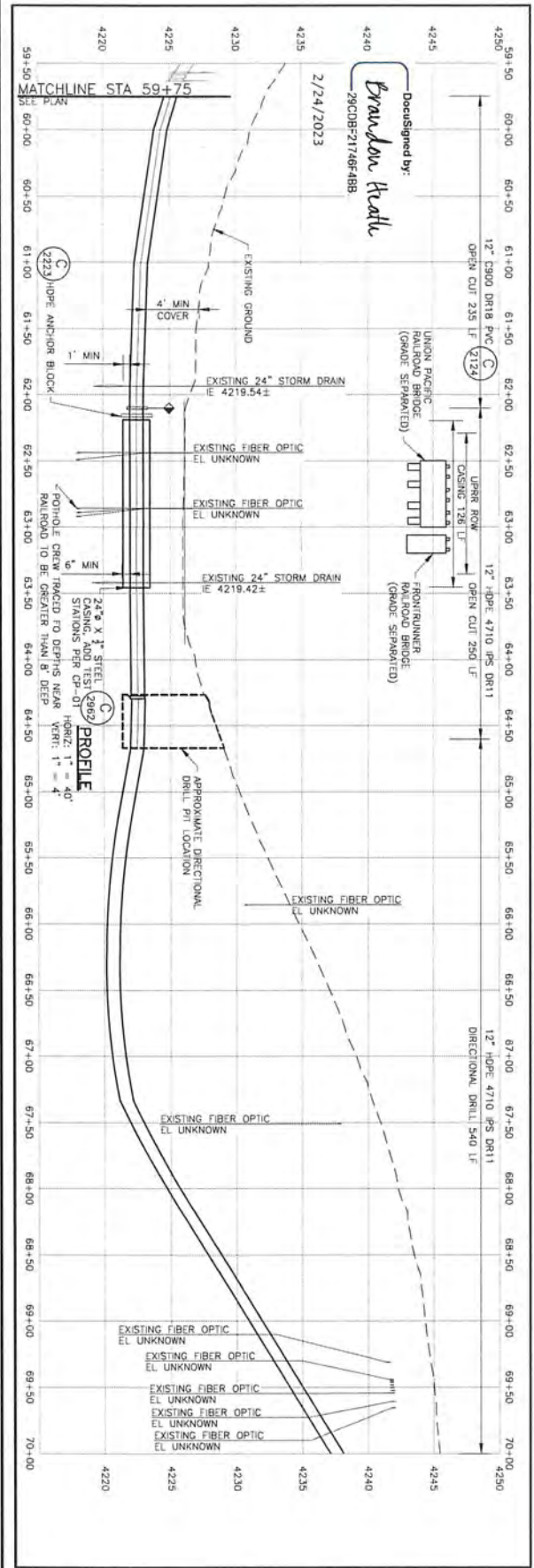
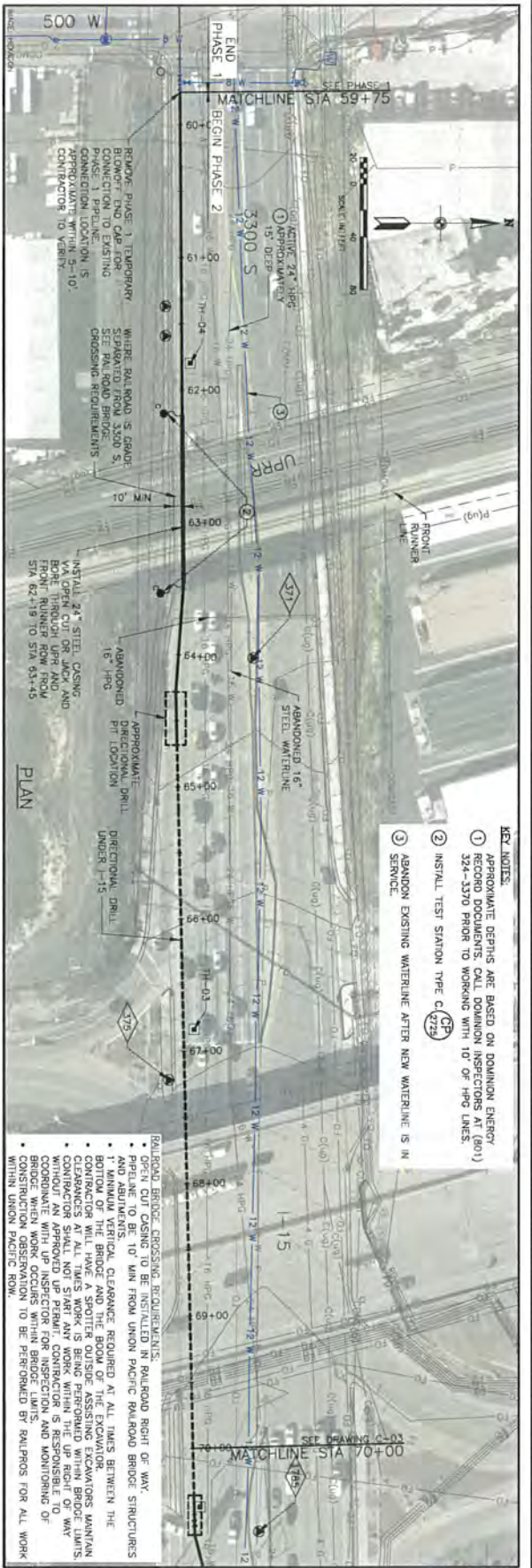
By: _____
Shelley Nielsen
Sr. Property Administrator

LICENSEE

By: _____
Corey Rushton, Chair
Jordan Valley Water Conservancy District

EXHIBIT "A"
DESIGN PLANS

[Insert engineering drawings showing the proposed crossing including proposed construction methods, shoring and cribbing requirements and mile post location]



RAILROAD BRIDGE CROSSING REQUIREMENTS:

- PIPES TO BE INSTALLED IN RAILROAD RIGHT OF WAY AND ABUTMENTS.
- 1' MINIMUM VERTICAL CLEARANCE REQUIRED AT ALL TIMES BETWEEN THE BOTTOM OF THE BRIDGE AND THE ROOF OF THE EXCAVATOR.
- CLEARANCES AT ALL TIMES WORK IS BEING PERFORMED WITHIN BRIDGE LIMITS WITHOUT AN APPROVED UP PERMIT. CONTRACTOR IS RESPONSIBLE TO MAINTAIN WITHIN DESIGNATION AND MONITORING OF BRIDGE LIMITS WITHIN DESIGNATION AND MONITORING OF CONSTRUCTION OBSERVATION TO BE PERFORMED BY RAILPROS FOR ALL WORK WITHIN UNION PACIFIC ROW.

- KEY NOTES:**
- APPROXIMATE DEPTHS ARE BASED ON DOMINION ENERGY RECORD DOCUMENTS. CALL DOMINION INSPECTORS AT (801) 324-3370 PRIOR TO WORKING WITH 10' OF HPG LINES.
 - INSTALL TEST STATION TYPE C (2725)
 - ABANDON EXISTING WATERLINE AFTER NEW WATERLINE IS IN SERVICE.

<p>CIVIL</p> <p>PLAN & PROFILE</p> <p>STA 60+00 TO STA 70+00</p>		<p>JORDAN VALLEY WATER CONSERVANCY DISTRICT</p> <p>3300 SOUTH PIPELINE PROJECT - PHASE 2</p> <p>CITY OF SOUTH SALT LAKE, UTAH</p>		<p>DESIGN: J. HUNTER</p> <p>REVIEW: R. EGBERT</p> <p>DRAWN: S. DUCKWORTH</p> <p>APPROVED: C. F. NELSON</p>		<p>DATE: FEBRUARY 2023</p> <p>PROJECT NUMBER: 610-20-05</p>		<p>VERIFICATION SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p>		<p>NO. DATE REV BY DESCRIPTION</p> <p>REVISIONS</p>		<p>PROFESSIONAL ENGINEER</p> <p>NO. 11932046</p> <p>RYAN JAMES EGBERT</p> <p>STATE OF UTAH</p>		<p>BOWEN COLLINS ASSOCIATES</p>	
-----------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------	--	----------------------------------------------------------------------	--	-----------------------------------------------------	--	------------------------------------------------------------------------------------------------	--	----------------------------------------	--

EXHIBIT "B" INSURANCE REQUIREMENTS

Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement the following insurance coverage:

- A. **Commercial General Liability Insurance:** Policy providing coverage for death, personal injury and property damage with a combined single limit of at least \$2,000,000 each occurrence or claim and an aggregate limit of at least \$4,000,000. The policy shall contain broad form contractual liability insurance covering the indemnity obligations assumed by Licensee in the Agreement. Exclusions for railroads (except where the Pipeline is in all places more than fifty (50) feet from any railroad tracks, bridges, trestles, roadbeds, terminals, underpasses or crossings), and explosion, collapse and underground hazard shall be removed. Coverage provided on a "claims made" form shall provide for at least a two-year extended reporting and discovery period if (a) the coverage changes from a claims made form to an occurrence form, (b) there is a lapse/cancellation of coverage, or (c) the succeeding claims made policy retroactive date is different for the expiring policy.
 - a. The policy must also contain the following endorsement, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE: "Contractual Liability Railroads" ISO from CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Utah Transit Authority Property" as the Designated Job Site.
- B. **Automobile Liability Insurance:** Policy providing bodily injury, property damage and uninsured vehicles coverage with a combined single limit of at least \$2,000,000 each occurrence or claim. This insurance shall cover all motor vehicles including hired and non-owned, and mobile equipment if excluded from coverage under the commercial general liability insurance.
- C. **Worker's Compensation and Employer's Liability Insurance:** Policy covering Licensee's statutory liability under the laws of the State of Utah. If Licensee is self-insured, evidence of State approval must be provided.
- D. **Railroad Protective Liability Insurance (RRPLI):** During construction and maintenance within fifty (50) feet of an active railroad track, including but not limited to installation, repair or removal of facilities, equipment, services or materials, the Licensee and/or Licensee's Contractor must maintain "Railroad Protective Liability" insurance on behalf of UTA only as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000.
 - a. If the Licensee and/or Licensee's Contractor is not enrolling for this coverage under UTA's blanket RRPLI program, the policy provided must have the definition of "JOB LOCATION" AND "WORK" on the declaration page of the policy shall refer to this Agreement and shall describe all WORK or OPERATIONS performed under this Agreement.
- E. **Umbrella or Excess Insurance:** If Licensee utilizes umbrella or excess policies, and these policies must "follow form" and afford no less coverage than the primary policy.

F. Other Insurance Provisions:

- a. Licensee and their insurers shall endorse the required insurance policy(ies) to waive their right of subrogation against UTA. Licensee's insurance shall be primary with respect to any insurance carried by UTA. Licensee will furnish UTA at least thirty (30) days advance written notice of any cancellation or non-renewal of any required coverage that is not replaced.
- b. The required insurance policy(ies) shall be written by a reputable insurance company with a current AM Best's Insurance Guide Rate of A better, or as may otherwise be acceptable to UTA. Such insurance company shall be authorized to transact business in the State of Utah.
- c. The fact that insurance is obtained by Licensee shall not be deemed to release or diminish the liability of Licensee including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by UTA shall not be limited by the amount of the required insurance coverage.
- d. All policies shall contain a waiver of subrogation in favor of UTA.

**SUBMITTING REQUESTS FOR
RAILROAD PROTECTIVE LIABILITY INSURANCE**
(\$2,000,000 per occurrence/ \$6,000,000 aggregate)

Application forms for inclusion in Utah Transit Authority's Blanket Railroad Protective Liability Insurance Policy may be obtained from a Property Administrator.

If you have questions regarding railroad protective insurance (i.e. premium quotes, application) please contact David Pitcher at:

Phone: (801) 287-2371
Email: depitcher@rideuta.com

Send or hand deliver Checks and Applications to the following address:

Utah Transit Authority
Attn: Property Management
669 West 200 South
Salt Lake City, UT 84101

EXHIBIT "C" SPECIAL PROVISIONS

Licensee or Licensee's contractor must first obtain a FrontRunner Track Access Permit from UTA before any access will be allowed on UTA property. The current contact person for obtaining a FrontRunner Track Access Permit is Michael Stidd at (385) 419-8401, or such other contact as shall be identified on UTA's website location noted below.

A copy of the permit that shall be filled out and submitted can be found on UTA's website, under the Track Access Permit tab.

<https://www.rideuta.com/Doing-Business/Property-Management>

Note: Access Permits will not be issued without first having an executed Contractor's Right of Entry Agreement, UTA having received proof of insurance as provided in the Right of Entry Agreement, and verification that the Contractor and all of the Contractor's Employees have gone through UTA's Roadway Worker Training, if applicable.

Licensee or Licensee's contractor shall only cross the Right of Way at designated Public Crossings

Open Cut Provisions:

- a. Licensee or Licensee's contractor is allowed to use an OPEN CUT installation for the initial construction of the New Pipeline Crossing only.
- b. OPEN CUT is allowed only when specifically authorized.
- c. All soil handling is to minimize dust.
- d. No materials are to be exported. Any and all excess materials must be placed on site as directed in advance by UTA.
- e. Aggregate/soil in ballast section will be segregated and handled separately from embankment soil.
- f. When OPEN CUT is allowed, the intent is to restore the soil structure to similar properties and resilience as before being disturbed.
- g. Compaction shall be 95% Modified Proctor.

REPORTING ITEMS

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CENTRAL UTAH PROJECT/CUWCD ACTIVITIES REPORT

June 7, 2023

The Central Utah Water Conservancy District (CUWCD) Board of Trustees held its monthly meeting on May 24, 2023.

Items of note from the meeting include:

- The Board adopted Resolution 2023-05-05 recognizing the contributions of Steven E. Clyde. He is retiring as General Counsel for CUWCD after 32 years. Robert J. Moore has been hired as the new General Counsel.
- The annual election of the officers was held. Those elected are Shelley Brennan, Chair; Wayne Anderson, Vice Chair; Gene Shawcroft, Secretary/Treasurer; and Shawn Lambert, District Clerk.

Engineering & Operations Committee

The Board of Trustees approved the following items.

- With the runoff at Central Utah Project (CUP) facilities well above normal there is adequate water to supply all contracts of the Bonneville Unit of the CUP at 100% allotment.
- Task Order No. 9 with Precision Water Resources Engineering, LLC for Operations and Water Accounting Modeling including continuing the Utah Lake System accounting model, developing a Utah Lake accounting model, continuing the Utah Lake Jordanelle Exchange model, and various other related tasks in the amount of \$625,000.
- A change order to the Construction Contract with W.W. Clyde for Emergency Repairs at Bridal Veil Falls Flow Restoration Project in the amount of \$900,000. This work is related to the damage caused by the avalanche in the area.
- Award of a Construction Contract to Alder Construction for the Central Water Project (CWP) Groundwater Polishing Plant in the amount of \$82,624,611. This treatment plant will remove manganese and iron from several of the wells that are part of the CWP system that delivers water to Jordan Valley.
- Amendment No. 1 to the Consulting Agreement with Jacobs Engineers for the CWP Groundwater Polishing Plant for consulting and onsite inspections in the amount of \$7,546,000.

Colorado River

- The Board of Trustees approved Task Order 8 for Colorado River Modeling by Precision Water Resources Engineering for \$812,000. The work includes the evaluation of impacts, and effectiveness and exploration of water accounting related to drought response actions; evaluation of coordinated operations between Lake Powell and Lake Mead; and several other related tasks.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**REPORT ON FACILITIES RENTAL AGREEMENTS
SIGNED BY THE GENERAL MANAGER**

June 7, 2023

Rental Agreement	Education Center
Event Type:	Employee Retreat
Rental Terms:	\$1476.00
Rental Location:	All Rooms
Renting Party:	Salt Lake Community College
Date of Event:	August 2, 2023

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**REPORT ON EASEMENT ENCROACHMENT AGREEMENTS
SIGNED BY THE GENERAL MANAGER**

June 7, 2023

Encroachment Agreement

Central Pipeline Easement

Easement Number: 3860-11E

Encroachment Location: Approximately 3600 West 2700 North, Lehi

Encroachment Party: FirstDigital Telecom, LLC

Encroachment Type: Three (3) one and one quarter inch (1.25") HDPE conduits for fiber

Summary: This encroachment agreement allowed FirstDigital to install and maintain fiber conduits across JWCD's Central Pipeline Easement.

Encroachment Agreement

Wasatch Front Regional Pipeline Easement

Easement Number: DC230

Encroachment Location: Approximately 1700 West 1740 North in Clinton, Davis County

Encroachment Party: Connex, LLC

Encroachment Type: Two (2) one and one quarter inch (1.25") HDPE conduits for fiber

Summary: This encroachment agreement allowed Connex to install fiber conduits across JWCD's Wasatch Front Regional Pipeline Easement



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

ATTRIBUTES FOR AN EFFECTIVELY MANAGED DISTRICT

April 2023 Performance Indicators

Details for each indicator can be seen on the attached pages

1. Product Quality

- Drinking water compliance rate
- Perceived/aesthetic water quality

2. Water Resource Adequacy

- Source water quality management
- Short-term water supply adequacy (annual)
- Short-term water source capacity
- Long-term water supply adequacy (annual)
- Water demand management (annual)

3. Customer Satisfaction

- Customer Response System

4. Infrastructure Stability

- Pipeline breaks (12-month running total)
- On-time maintenance (% of time)

5. Long-term Financial Viability

- Repair & replacement funding from rate revenue (annual)
- Debt service coverage (annual)
- Long-term debt to equity (annual)

6. Employee & Leadership Development

- Employee Training Hours (12-month rolling average)

7. Operational Resiliency

- Workforce Resiliency (reportable injuries & illnesses)
- Employee safety & business risk management (vehicle & equipment incidents)
- Emergency Response Preparedness
- Power Resiliency

8. Operational Optimization

- Water quality improvements beyond regulatory standards (12-month rolling average)
- Non-revenue water management
- Efficient use of electricity*

9. Community Sustainability

- Centralized conjunctive management of groundwater and surface water

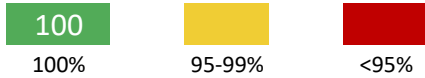
10. Stakeholder Understanding & Support

- Media/press coverage tone
- Member Agency survey
- Employee survey
- Retail customer survey

*The current model used to determine efficient use of electricity requires significant modifications to account for changes in member agency demand patterns requiring more booster pump operation. Staff plans to reevaluate this KPI during the Strategic Planning effort and recommends suspending the monthly report of this KPI until the new KPI is developed.

1. Product Quality

Drinking Water Compliance Rate (%)

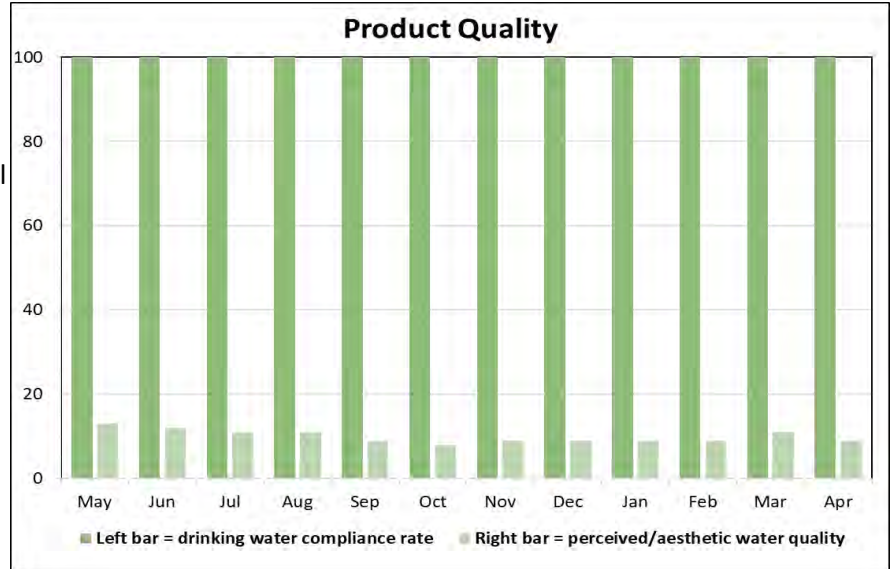


District compliance with all drinking water regulations: (100 x # of days in full compliance for the year) / 365 days.

Perceived/aesthetic water quality



Number of calls from retail and wholesale customers concerned about water quality, calculated as a rolling 12-month average.



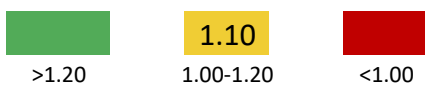
2. Water Resource Adequacy

Source water quality management



Does the District have a current source water protection plan? Is it current? G = Yes to both; Y = Yes, but it isn't current; R = No to both

Short-term water supply adequacy (annual)



Projected current and subsequent years' water supply ÷ current and subsequent years' contract purchase amounts (in AF/year).

Short-term water source capacity



Current and subsequent calendar years' water source capacities ÷ the current and subsequent calendar years' projected peak demands (in cfs).

Long-term water supply adequacy (annual)



Total developed and contracted drought year water supply ÷ the projected demand in 15 years (based on conservation goal for per capita use that year).

2. Water Resource Adequacy (continued)

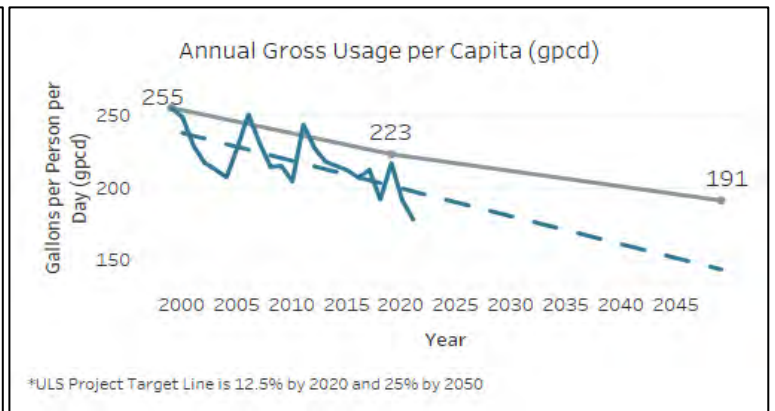
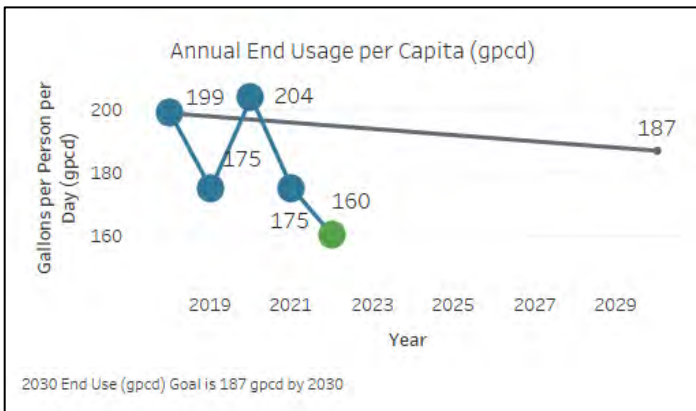
Water demand management (annual)

X
gpcd below

gpcd above

Best fit line
above ULS

District-wide per capita water use measured in gallons per capita per day (gpcd): G = actual end use gpcd is at or below goal line; Y = actual end use gpcd is above goal line; R = the gross use gpcd best fit line since the year 2000 is above the ULS Project Target Line



3. Customer Satisfaction

Customer response system (% , 12-month rolling average)

97.90
>95%

94-90%

<90%

Customer calls relating to critical service issues (pressure, water quality, leaks, service disruptions, security, and other critical service issues).

Customer calls must be responded to within a 2-hour limit.

G=>95% 2-hr response rate, Y=90%-94% response rate, R=<90% response rate

4. Infrastructure Stability

Pipeline breaks per year (12-month running total)



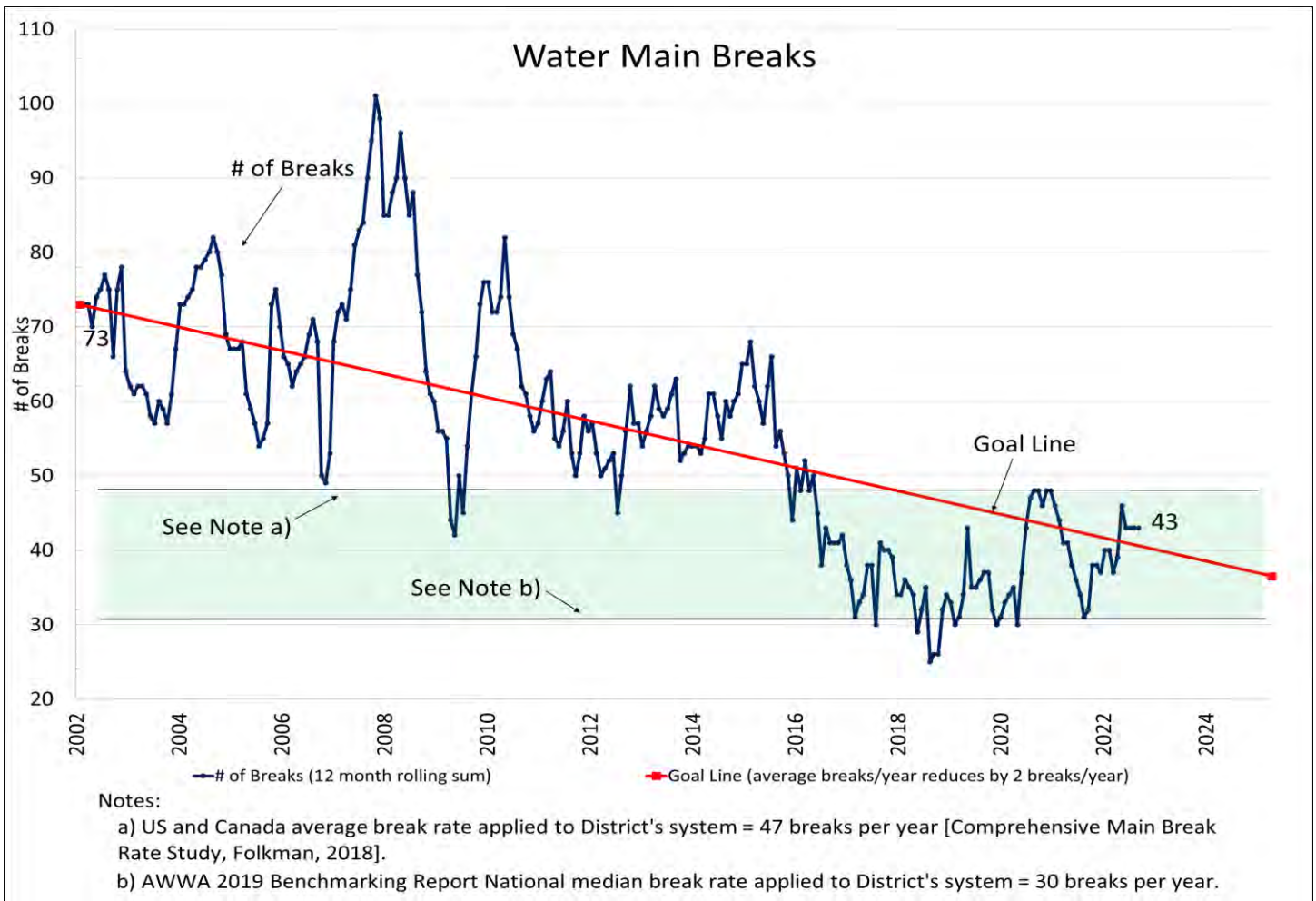
43



Pipeline breaks are defined as a failure of a pipeline or associated fittings which interrupts water service and/or requires repairs.

Maintain, rehabilitate, or replace distribution and transmission pipelines as necessary to keep number of breaks at a manageable level.

G= < goal line; Y= > goal line but < 55 breaks in last year; R= ≥ 55 breaks in last 12 months.



On-time maintenance (% of time, 12-month rolling average)

97.00

≥95

80-94

80-94

<80

<80

Follow manufacturer-recommended preventive maintenance programs for all equipment in use throughout the District.

G=95% of work orders completed on time

Y=<90% but >80% work orders completed on time

R=<80% of work orders completed on time.

5. Long-term Financial Viability

Repair and Replacement funding from rate revenue (% annual)



To ensure a sustainable, ongoing source of funding to repair and replace capital assets, 100% of R&R shall be funded with rate revenue.

Debt service coverage (annual)

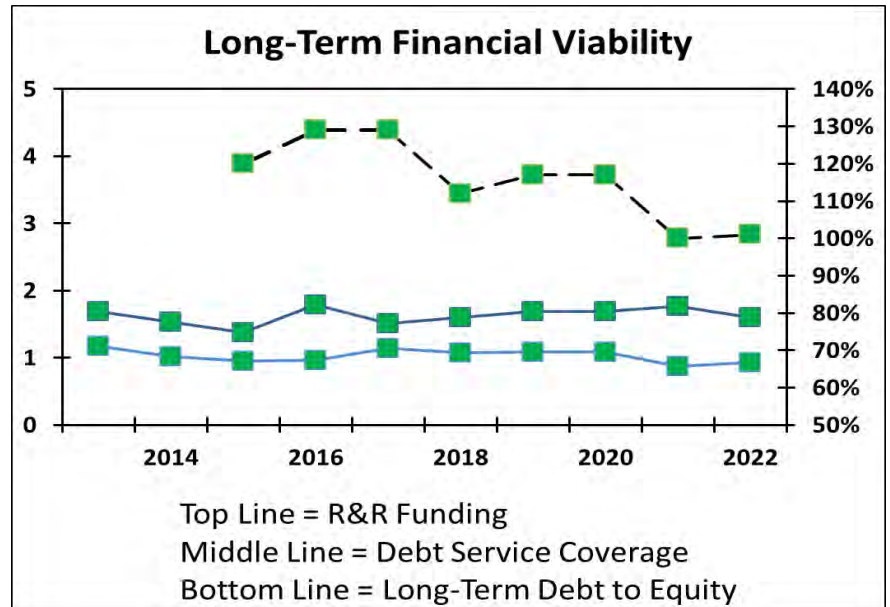


Bond covenant is 1.00; our "healthy" range is anything greater than 1.30.

Long-term debt to equity (annual)



To ensure the District's debt doesn't increase too quickly, this ratio should be less than 1.20.



6. Employee & Leadership Development

Employee training hours (12-month rolling average)



Training hours listed as an average number of hours per employee per year.

G=≥40 hours average per employee

Y=25-39 hours average per employee

R=<24 hours average per employee

7. Operational Resiliency

Workforce resiliency (reportable injuries & illnesses)

2.60

<5.7

5.7-8.0

5.7-8.0

>8.0

>8.0

(Number of reportable injuries and illnesses x 200,000) ÷ # of employee hours worked; 12-month rolling average

Employee safety and business risk management (vehicle & equipment incident rate)

0.80

<1.80

1.80-2.30

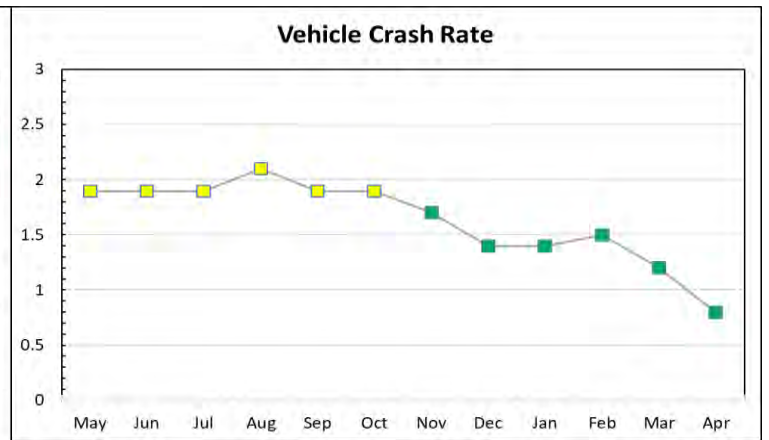
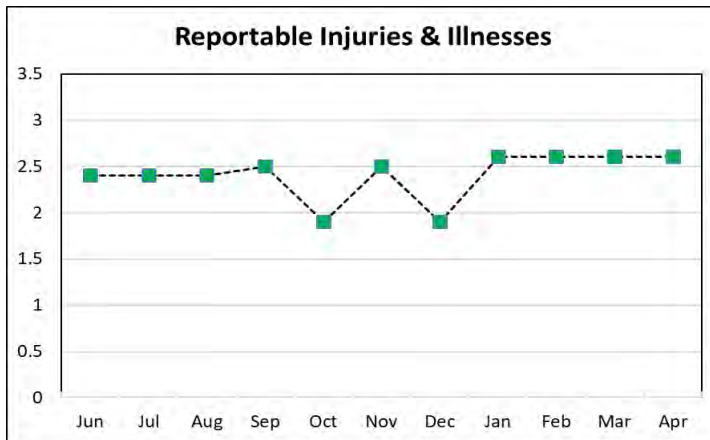
1.80-2.30

>2.30

>2.30

(Number of vehicle & equipment incidents x 100,000) ÷ # of miles driven; 12-month rolling average.

- 5 of the 5 incidents were allegedly caused by District employees.



Emergency response preparedness

X

Both

1

1

Neither

Neither

1. Has the District's Emergency Response Plan (ERP) and Continuity of Operations Plan (COOP) been updated within the last 12 months?
2. Have all District employees been given the opportunity of three training sessions per year on emergency response procedures as outlined in the ERP and COOP?

Power resiliency

X

Yes

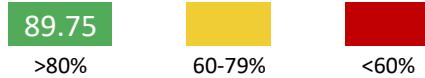
No

No

Does the District have stand-by electric power to meet indoor water demands?

8. Operational Optimization

Water quality improvements beyond regulatory standards (12-month rolling average)



District achievement of stringent, self-imposed water quality goals resulting from treatment and distribution system optimization. (100 x # of days goals are met)/365 days.

Non-revenue water management



Non-revenue water includes apparent losses in the system and is based on a 36-month rolling average.

Efficient use of electricity



Calculated energy use compared to energy use predicted by Rocky Mountain Power (RMP) model

**The current model used to determine efficient use of electricity requires significant modifications to account for changes in member agency demand patterns requiring more booster pump operation. Staff plans to reevaluate this KPI during the Strategic Planning effort and recommends suspending the monthly report of this KPI until the new KPI is developed.*

G=calculated energy use is <100% of energy use predicted by RMP model

Y=calculated energy use is between 100% and 105% of energy use predicted by RMP model

R=calculated energy use is >105% of energy use predicted by RMP model

9. Community Sustainability

Centralized conjunctive management of groundwater and surface water



G = 3 "yes" answers; Y = 2 "yes" answers; R = <2 "yes" answers



Annual Water Supply Plan (Does the District have an annual water supply plan in place?)



Conjunctive management meetings (Have the operating departments met quarterly to review the water supply plan and discuss water supply availability, concerns, and issues?)



Adjusted Water Supply Plan (Is the plan being revised or adjusted as necessary to optimize the District's conjunctive use of GW, stored SW, and unstored SW supplies?)

10. Stakeholder Understanding & Support*

Media/press coverage tone



0



1



>1

G = all positive/neutral tone; Y = 1 with negative tone; R = more than 1 with negative tone



Yes



No

Member Agency survey (Has a member agency survey been administered in the past 3 years?)



Yes



No

Employee survey (Has an employee survey been administered in the past 2-3 years?)



Yes



No

Retail customer survey (Has a retail customer survey been administered in the past 5 years?)

*Media/press coverage tone is for the most current month

CAPITAL PROJECTS
MAY 2023

Final Project Completion Report

Project Name and Number: 11400 South Redwood Road Meter Vault Rehabilitation, #4283

Description: The meter station serving South Jordan City at the corner of 11400 South and Redwood Road was constructed in 1982 and experienced corrosion and age-related wear. This project rehabilitated the meter vault to ensure its continued reliable operation. The project included replacing the main piping and related equipment, improving vault ventilation, and sealing the vault access to provide additional protection to the vault in the future. Cost was shared between JWCD and the City by a Cost Sharing Agreement.

District Project Manager: Conor Tyson

Engineer: JWCD Staff	Design Status: 100%
Original Engineering Contract Amount:	N/A
Final Engineering Contract Amount:	N/A

Contractor: Corrio Construction	Construction Status: 100%
Original construction contract amount:	\$91,561
Total Change Order amount:	\$477
Final construction contract amount:	\$92,038
Total change orders as a percentage of original contract:	0.5%
Completion Schedule:	
Notice to Proceed:	11/22/2022
Final Completion:	4/7/2023

Summary of Change Orders:		Amount
	Description	
1	Replace ventilation fan	\$477
Total Change Order Amount:		\$477

Final Project Completion Report



Removing the old corroded pipe



Installing new pipe in vault



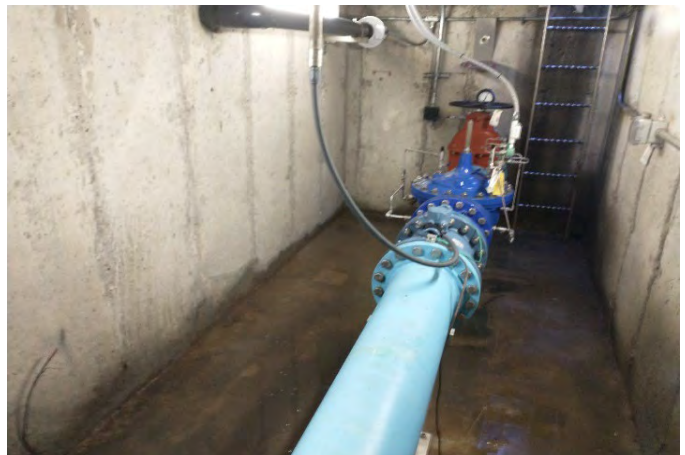
New installed ventilation fan



Sealing manhole to limit water intrusion



New pipeline, meter, and valves



New pipeline, meter, and valves

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CAPITAL PROJECTS REPORT

March 10, 2023 - May 14, 2023

Capital Projects Budget Status Report

Total FY 2022-2023 Capital Projects Budget (Gross):	\$54,294,522
Budgeted Reimbursements:	(\$2,849,432)
Total FY 2022-2023 Capital Projects Budget (Net):	\$51,445,090
Total FY 2022-2023 Capital Projects Expenditures to Date:	\$36,938,168

Total Proceeds from 3/15/2019 Asset Sale Designated in Capital Projects Fund for Water Supply Purchases:	\$5,898,917
Balance After Previously Reported Purchases:	\$3,483,145
Water Supply Purchases (No purchases during this period):	
Remaining Balance:	\$3,483,145

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 1590 East Well Development, #4281

Project Description: The 1590 East well has experienced several problems during its most recent operations including turbidity spiking and overheating. In addition, a recent well condition analysis indicated this well was due for redevelopment. The motor has already been removed for repairs. While the motor repairs occur, this project will remove and inspect the pump and chemically and mechanically redevelop this well to help boost future performance.

District Project Manager: Conor Tyson

Engineer: Hansen, Allen & Luce	Original engineering contract amount:	\$13,600
	Design Status: 100%	
	Construction Management Status: 2%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$13,600

Contractor: Widdison Well Services, LLC	Original construction contract amount:	\$289,700
	Construction Status: 2%	
	Substantial Completion Date: 11/4/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$289,700
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: A pre-construction meeting was held and the contractor plans to mobilize in June. Work is anticipated to continue through the summer.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 2022-23 Vault Improvements, #4241

Project Description: JWVCD staff have identified several vaults that are suffering from age related advanced corrosion which requires replacement of the vault piping and valves. This project makes improvements to two existing vaults, abandons four vaults, and replaces one vault in the transmission system. Six of the vaults are located along the 4500 South pipeline in Millcreek and Taylorsville and one vault on the 5600 West pipeline in Herriman. This project is part of an ongoing effort to perform vault repair and replacement work on transmission system vaults in which equipment has reached the end of its serviceable life.

District Project Manager: Travis Christensen

Engineer: Hansen, Allen & Luce	Original engineering contract amount:	\$390,286
	Design Status: 100%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$390,286

Contractor: VanCon, Inc.	Original construction contract amount:	\$893,500
	Construction Status: 0%	
	Substantial Completion Date: 6/1/2024	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$893,500
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Project was recommended for award at the April Board Meeting. Contract documents for the project are being completed.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JWTP Filter and Chemical Feed Upgrades, #4289

Project Description: To support growing peak-day demands and enable treatment of the new ULS supply, the District is pursuing an expansion of JWTP from its current 180 MGD capacity to an ultimate capacity of 255 MGD. This project will design required improvements for upgrades to the filters and chemical feed systems to support a 255 MGD capacity. The 20-year-old filter media will be replaced with new media installed to a deeper depth to accommodate the increased flows. Other tasks for this project include evaluation of and upgrades to the chemical feed systems, predesign evaluation of ozone and potential implementation, and evaluation of alternatives for backwash tank redundancy and potential implementation.

District Project Manager: David McLean

Engineer: Carollo Engineers	Original engineering contract amount: \$6,224,100 Design Status: 20% Construction Management Status: 0%
<u>Additional services authorized since last report:</u> <ul style="list-style-type: none"> • n/a 	
Current contract amount:	\$6,224,100

Contractor: n/a	Original construction contract amount: Construction Status: 0% Substantial Completion Date: n/a
<u>Change orders approved since last report:</u> <ul style="list-style-type: none"> • n/a 	
Current construction contract amount:	\$0
Total change orders as a percentage of original contract:	

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
<ul style="list-style-type: none"> • Small purchases to support project. 	Various Vendors	\$5,000

Current Status: The engineering design consultant has completed filter excavation work determining the status of the existing filter under-drain systems. The engineer has held three workshops with District staff to complete the required 30% design recommendations. Engineer is doing additional analysis work on chlorination options and making recommendations regarding a potential future ozone system for JWTP.



JWTP Chlorine Room inspection

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: College Street Well Repair, #4281

Project Description: During its last operation, the College Street well began pumping gravel pack which indicates a breach in the well screen or casing. The scope of this project includes: removing the pump and motor, performing a well video log, investigating the cause of the problem, repairing the potential breach, inspecting the well equipment, performing well cleaning, well redevelopment and re-installation of the pump and motor to place the well back into service.

District Project Manager: Conor Tyson

Engineer: Hansen, Allen & Luce	Original engineering contract amount:	\$17,600
	Design Status: 100%	
	Construction Management Status: 17%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$17,600

Contractor: Rhino Pumps, LLC	Original construction contract amount:	\$139,001
	Construction Status: 17%	
	Substantial Completion Date: 6/30/2023	
<u>Change orders approved since last report:</u>		
• Replace pump column parts.		\$17,015
Current construction contract amount:		\$156,016
Total change orders as a percentage of original contract:		12%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Contractor brushed the well and performed a 2nd well video. A hole was discovered and the contractor is performing additional brushing to determine if there are additional holes.



Brushing the well casing

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Southwest Groundwater Well Improvements, #4213

Project Description: The Southwest Groundwater Deep Well #7 was constructed to extract sulfate contaminated water as part of the aquifer remediation project. This well has highly corrosive water, which has created problems with the well equipment. This project will perform repairs similar to the recent repairs at Deep Well #6 including an improved lubrication system, column pipe and marine bearings to provide longer life to the equipment. The project also includes well re-development to restore well capacity.

District Project Manager: David McLean

Engineer: CRS Engineers	Original engineering contract amount:	\$30,900
	Design Status: 100%	
	Construction Management Status: 55%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$30,900

Contractor: Nickerson Company	Original construction contract amount:	\$393,609
	Construction Status: 55%	
	Substantial Completion Date: 4/6/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$402,270
Total change orders as a percentage of original contract:		2%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Well development contractor has mobilized. They are finding sand in certain segments of the well which are being re-developed for more efficient well operation. Well condition is very similar to Deep Well 6 which was successfully re-developed last year. Upon completion of the re-development work, the well pump and well column pipe will be reinstalled. Deep Well 8 was successfully started and the contractor is solving gasket issues.



Remanufactured column pipe awaiting shipment to Utah

Ongoing well development work at DW7



JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JWTP Blower Room Acoustical Improvements, #4070

Project Description: The filter backwash blowers at the JWTP were recently replaced after 35 years of service. The new blowers operate at a higher rotational speed and emit more noise than the original blowers. This has resulted in higher sound levels in the JWTP basement area; and water quality laboratory which is located immediately above the blower room. Acoustical improvements including foam insulation on the ceiling and sound doors will be installed to reduce noise from the blowers transmitted to other areas of the plant.

District Project Manager: David McLean

Engineer: Brown and Caldwell	Original engineering contract amount: \$17,229
	Design Status: 100%
	Construction Management Status: 85%
<u>Additional services authorized since last report:</u>	
• n/a	
Current contract amount:	\$28,387

Contractor: VanCon, Inc.	Original construction contract amount: \$98,400
	Construction Status: 85%
	Substantial Completion Date: 04/15/2023
<u>Change orders approved since last report:</u>	
• n/a	
Current construction contract amount:	\$98,400
Total change orders as a percentage of original contract:	0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The contractor is substantially complete with the engineered acoustical foam installation. Preliminary testing indicates a 20-30 dB drop in acoustical pressures in the laboratory area above the blower room which exceeds the design objective. Contractor is still awaiting delivery of the needed insulated door to complete the construction project.



Acoustical foam installed in JWTP Blower Room



Acoustical foam installation

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CAPITAL PROJECTS REPORT

March 10, 2023 - May 14, 2023

Project Name and Number: Etienne Way and Murray Holladay Road Well Equipping, #4286

Project Description: Equip two high quality groundwater wells located at 2776 East Etienne Way and 2129 East Murray Holladay Road. These wells will provide valuable supply and redundancy for future demands.

District Project Manager: Travis Christensen

Engineer: Bowen Collins & Associates	Original engineering contract amount:	\$992,889
	Design Status: 27%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$992,889

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Design is progressing towards 30%. JWCD staff will meet with the Willow Creek Country Club in June to determine how to best operate the well and to continue to meet their water demands.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Install Pump at Old Bingham Pump Station, #4275

Project Description: The Old Bingham Pump Station provides Pressure Zone D service to the growing areas of South Jordan, West Jordan, and Herriman. This project will provide an additional pump to support the growing demands. The project includes the installation of a new pump, motor, electrical equipment, and a maintenance platform at this pump station.

District Project Manager: Conor Tyson

Engineer: JWCD Staff	Original engineering contract amount:	n/a
	Design Status: 100%	
	Construction Management Status: 9%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$0

Contractor: Nelson Brothers Construction	Original construction contract amount:	\$361,530
	Construction Status: 9%	
	Substantial Completion Date: 9/26/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$361,530
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Many parts have been delivered. Some conduit installation has occurred, but most work is waiting for soft start to arrive in September.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JWTP Sedimentation Basins 1-2 Seismic and Capacity Upgrades, #4255

Project Description: The original basins at JWTP (Basins 1-2) were designed and constructed in the early 1970's and have significant seismic vulnerabilities. This project includes demolishing and reconstructing these basins to meet current resiliency goals. Simultaneously, new plate settler technology will be installed increasing per-basin capacity from 23 MGD to 67 MGD to support increasing the JWTP capacity from 180 MGD to 255 MGD. Design of this project will require approximately 12-18 months. An application for a FEMA grant to support the project in mitigating multiple hazards has been submitted.

District Project Manager: David McLean

Engineer: Hazen and Sawyer	Original engineering contract amount:	\$3,793,948
	Design Status: 65%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$3,793,948

Contractor: n/a	Original construction contract amount:	\$0
	Construction Status: 0%	
	Substantial Completion Date: n/a	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$0
Total change orders as a percentage of original contract:		

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Design Engineer delivered 60% design drawings to the District on May 9. A design review workshop was held on May 12. Architectural design details for the proposed building are being reviewed. 100% design drawings are due August 2023.



JWTP Basin 1 in operation

JWTP Distribution box in operation after raising of hydraulic grade line



JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Old Bingham Hwy Equipment Storage Building Project, #4014

Project Description: Construction of a new vehicle and equipment storage building at an existing District property located at 6898 West Old Bingham Highway (10200 South) West Jordan, Utah. The project will include a pre-engineered metal building for storage of vehicles and equipment along with associated site work, grading, paving, and site utilities.

District Project Manager: Marcelo Anglade

Engineer: CRSA	Original engineering contract amount:	\$49,377
	Design Status: 100%	
	Construction Management Status: 65%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$53,707

Contractor: Valley Design and Construction	Original construction contract amount:	\$688,938
	Construction Status: 65%	
	Substantial Completion Date: 6/27/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$688,938
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• Replacement of existing fence.	United Fence Company	\$60,263

Current Status: After the approval of changes to the building by the City of West Jordan, the contractor placed concrete for the footing and foundations, building curb and the building's concrete floor. The building has been erected and the contractor is starting to work in the insulation.



Building's Southwest view



Building Interior

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JWTP High-rise Boilers Replacement Project, #4279

Project Description: The boilers at Jordan Valley Water Treatment Plant are experiencing frequent failures and require replacement. The existing boilers were installed in 2001 and have a useful life of 15-18 years. This project will provide the supply and installation of two new boilers and associated equipment.

District Project Manager: Marcelo Anglade

Engineer: Heath Engineering	Original engineering contract amount:	\$5,000
	Design Status: 100%	
	Construction Management Status: 85%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$9,500

Equipment Supplier: J. Wilcox Sales Co.	Original equipment supply contract amount:	\$196,881
	Equipment Supply Status: 100%	
	Substantial Completion Date: 11/30/2022	
<u>Change orders approved since last report:</u>		
• n/a		
Current equipment supply contract amount:		\$196,881
Total change orders as a percentage of original contract:		0%

Contractor: K.O.H Mechanical Contractors, Inc.	Original construction contract amount:	\$608,000
	Construction Status: 85%	
	Substantial Completion Date: 1/30/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$623,629
Total change orders as a percentage of original contract:		3%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The new boilers are operational. Contractor is still waiting for delivery of appurtenant items such as new pumps, flue, and valves which will be installed when they are delivered to the site in the coming weeks.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 7600 South 700 East and 7800 South 1000 East Well Equipping, #4280

Project Description: Equip two high quality groundwater wells located at 7600 South 700 East and 7800 South 1000 East. These wells will provide valuable peak day capacity and supply reliability for future demands. The District received a USBR WaterSmart Drought Resiliency Project grant for this project which will reimburse approximately 50% of the total costs for this project.

District Project Manager: Kevin Rubow

Engineer: Hansen, Allen & Luce	Original engineering contract amount:	\$579,351
	Design Status: 75%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• Environmental assessment of the well sites.		\$56,861
Current contract amount:		\$1,016,830

Contractor: n/a	Original construction contract amount:	\$0
	Construction Status: 0%	
	Substantial Completion Date: n/a	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$0
Total change orders as a percentage of original contract:		

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• Property Acquisition at 10&78 Well	Gary Pickering	\$44,000

Current Status: The consultant is incorporating comments on the fluoride and chlorine rooms for the well. Consultant is working on the 90% design submittal.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 11800 South Zone C Reservoir, #4276

Project Description: Construct two 5 million gallon concrete reservoirs at 7185 West 11800 South. The new reservoir will provide additional storage for the growing demands within Pressure Zone C serving Herriman, Riverton, South Jordan, and West Jordan.

District Project Manager: Kevin Rubow

Engineer: Jacobs	Original engineering contract amount:	\$1,597,529
	Design Status: 40%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$1,597,529

Contractor: n/a	Original construction contract amount:	\$0
	Construction Status: 0%	
	Substantial Completion Date: n/a	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$0
Total change orders as a percentage of original contract:		

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Based off the estimated chlorine decay rate, the consultant recommended a chlorine feed facility with the construction of the reservoirs to maintain chlorine residuals at this site. District staff and the consultant are evaluating the design to install a chlorine feed facility with this project.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 3200 West 6200 South Steel Reservoirs Coating and Repairs, #4271

Project Description: The 2-MG and 8-MG steel reservoirs at 3200 West 6200 South were constructed prior to 1960 and 1968 respectively and require regular re-coating to maintain their integrity. Inspections indicate that the existing coatings have performed well but are now in need of replacement. This project will replace the coating systems and make other minor modifications such as new access ladders and larger access ports.

District Project Manager: Marcelo Anglade

Engineer: Infinity Corrosion Group	Original engineering contract amount:	\$272,960
	Design Status: 100%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$272,960

Contractor: n/a	Original construction contract amount:	\$0
	Construction Status: 0%	
	Substantial Completion Date: n/a	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$0
Total change orders as a percentage of original contract:		

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The drawings have been approved by the Division of Drinking Water. The project is out for bids and a recommendation of award of contract is anticipated at the July Board Meeting.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Distribution Pipeline Replacement 2023, #4270

Project Description: The JVVCD retail distribution system contains multiple areas with cast iron pipelines installed in the 1950's and 1960's. District staff has identified approximately 19,000 linear feet of pipeline located in Murray and Millcreek which is experiencing frequent age-related failures. This project will replace these pipelines with new 8-inch C900 PVC pipelines along with new valves, hydrants, meter setters, and meter boxes. This work will include restoration of the existing roadways disturbed by the project.

District Project Manager: Conor Tyson

Utility Locating: Project Engineering Consultants	Original engineering contract amount:	\$128,656
	Utility Locating: 100%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$128,656

Engineer: JVVCD Staff	Original engineering contract amount:	n/a
	Design Status: 100%	
	Construction Management Status: 33%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		

Contractor: Rolfe Construction, Inc.	Original construction contract amount:	\$1,899,800
	Construction Status: 33%	
	Substantial Completion Date: 5/11/2024	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$1,899,800
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• Material testing.	Applied GeoTechnical Engineering (AGEC)	\$19,375

Current Status: Contractor mobilized and installed new mainlines in Murray. Delays in parts have hindered further installations. Work is expected to be delayed until parts arrive later in the year.



A new hydrant installed in the project area



Installing a 4-valve cross at an intersection

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: SERWTP Boilers and Controls Upgrades, #4226

Project Description: The Southeast Regional Water Treatment Plant (SERWTP) boilers and HVAC control system are experiencing age related failures and parts are becoming difficult to replace. This project will replace the boilers, associated ducting, and other appurtenances. The HVAC control system will also be upgraded and be integrated into the District HVAC control system.

District Project Manager: Marcelo Anglade

Engineer: Heath Engineering	Original engineering contract amount:	\$25,350
	Design Status: 100%	
	Construction Management Status: 99%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$25,350

Contractor: K.O.H.Controls, Inc.	Original construction contract amount:	\$206,000
	Construction Status: 99%	
	Substantial Completion Date: 11/15/2022	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$212,233
Total change orders as a percentage of original contract:		3%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The project is substantially complete. The contractor has completed controls integration work with the District Instrumentation Group and a final walk-through has been scheduled. The project will be complete once the District receives the closing documents.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 2022 Distribution Pipeline Replacements – Redmaple Area, #4225

Project Description: The pipelines in the Redmaple Road area in Millcreek City are cast iron or asbestos cement pipelines constructed in the 1950's and 1960's. These pipelines have been experiencing high levels of waterline breaks and require replacement. This project will replace these pipelines with new 8-inch C900 PVC pipelines along with new valves, hydrants, meter setters, and meter boxes. This work will include restoration of the existing roadways disturbed by the project.

District Project Manager: Conor Tyson

Engineer: JWCD Staff	Original engineering contract amount:	n/a
	Design Status: 100%	
	Construction Management Status: 55%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$0

Contractor: Noland & Sons Construction Co.	Original construction contract amount:	\$1,970,932
	Construction Status: 55%	
	Substantial Completion Date: 6/30/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$3,430
		\$2,006,093
Total change orders as a percentage of original contract:		2%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: A pre-construction meeting was held and the contractor plans to mobilize in late spring complete the project. All parts have arrived for this project.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JA-3 Cathodic Protection System, #4223

Project Description: The existing JA-3 passive cathodic protection system was originally installed in the 1990's and is now depleted. This system is critical in maintaining corrosion protection of this important asset. In this project, an impressed current cathodic protection system will be installed to replace the existing system. This project will install a deep anode well with a rectifier to create the desired impressed current cathodic protection on this section of the aqueduct.

District Project Manager: Conor Tyson

Engineer: Infinity Corrosion Group	Original engineering contract amount:	\$18,000
	Design Status: 100%	
	Construction Management Status: 77%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$79,650

Contractor: ICORR Technologies Inc.	Original construction contract amount:	\$146,200
	Construction Status: 77%	
	Substantial Completion Date: 6/29/2022	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$146,200
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Rocky Mountain Power has applied for an encroachment agreement on the Jordan Aqueduct Easement. The agreement is being signed. Contractor will remobilize once approved.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Four Well Redevelopment and Test Pumping Project, #4242

Project Description: Design and construction management for the well redevelopment and test pumping at the 8300 South Etienne Way well, 2129 East Murray Holladay Road well, 987 East 7800 South well, and 7618 South 700 East well.

District Project Manager: Kevin Rubow

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	\$194,494
	Design Status: 100%	
	Construction Management Status: 45%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$194,494

Contractor: Widdison Turbine Service	Original construction contract amount:	\$1,625,140
	Construction Status: 45%	
	Substantial Completion Date: 5/7/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$1,721,140
Total change orders as a percentage of original contract:		6%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The contractor completed the pump test at the 987 East 7800 South well. The consultant is evaluating the data collected during the test to provide recommendation on the sizing of the permanent pumping equipment. Equipment is being mobilized to the Etienne Way well to start development work. Work at the 7618 South 700 East and 987 East 7800 South sites are complete.



Test pump and generator at
987 East 7800 South

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 5200 West 6200 South Reservoir, #4231

Project Description: Design and construction of new reservoir at the 5200 West 6200 South Reservoir Site. The site currently includes a 2 million gallon reservoir to support demands in this pressure zone. An additional 4-6 million gallon reservoir is needed to provide redundancy to the existing reservoir and to support growing demands in this pressure zone. The reservoir provides service to the Zone B North pressure zone serving GHID, KID, TBID, MID, Hexcel, and West Jordan.

District Project Manager: Travis Christensen

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	\$940,526
	Design Status: 100%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$940,526

Contractor: n/a	Original construction contract amount:	\$0
	Construction Status: n/a	
	Substantial Completion Date: n/a	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$0
Total change orders as a percentage of original contract:		

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Project is out for bids and an award of contract will be recommended at the June Board Meeting.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JWTP Sedimentation Basins 3-6 Equipment Replacement, #4138/4277

Project Description: This project includes the replacement of chain and flight sludge collection equipment and supply and installation of plate settler sedimentation equipment for JWTP Basins 3-6. Also included are temporary repairs to the circular sludge collection mechanisms in Basins 1-2. The new equipment is designed to function during the construction of major improvements to Basins 1-2 as well as permanently after the expansion.

District Project Manager: David McLean

Engineer: Brown and Caldwell <u>Additional services authorized since last report:</u> <ul style="list-style-type: none"> • n/a 	Original engineering contract amount: \$267,164 Design Status: 100% Construction Management Status: 55%
Current contract amount:	\$444,465

Equipment Supplier: Evoqua Water Technologies <u>Change orders approved since last report:</u> <ul style="list-style-type: none"> • n/a 	Original equipment supply contract amount: \$3,725,657 Equipment Supply Status: 100% Substantial Completion Date: 12/1/2022
Current equipment supply contract amount:	\$4,390,518
Total change orders as a percentage of original contract:	18%

Contractor: VanCon, Inc. <u>Change orders approved since last report:</u> <ul style="list-style-type: none"> • Flow restrictors for Basins 1-2. \$8,102 • Structural supports for Basin 1-2 flow restrictors. \$2,272 	Original construction contract amount: \$20,700,000 Construction Status: 75% Partial Completion Date: 5/15/2023 Final Completion Date: 5/5/2024
Current construction contract amount:	\$20,784,663
Total change orders as a percentage of original contract:	0.4%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
<ul style="list-style-type: none"> • JWTP Distribution Box Drain. 	IPW (Industrial Piping and Welding)	\$13,686

Current Status: This project is continuing on schedule. Basins 3-4 are substantially complete and are operational. Completion of basin 6 is expected on or before June 9, 2023. The plates have been in continuous operation for over a month. Peak raw water turbidities into the plant have approached 30 Nephelometric Turbidity Units (NTU). At these times, settled water turbidity from the plates is consistently less than 2 NTU compared to 5 NTU in the circular basins. Plant operators are seeing extended filter runs due to the increased sedimentation efficiency of the new equipment.



New plates and sludge equipment operational in basins 3-4

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CAPITAL PROJECTS REPORT

March 10, 2023 - May 14, 2023

Project Name and Number: 3600 West 10200 South Booster Pump Station, #4199

Project Description: A new booster pump station will be constructed to run in parallel with the existing booster pump station at 3600 West 10200 South. The existing pump station is currently running at capacity during peak demand periods. The new pump station will allow the District to meet existing and future demands of the Member Agencies served by the Pressure Zone B South and C South systems.

District Project Manager: Travis Christensen

Engineer: AE2S	Original engineering contract amount:	\$819,707
	Design Status: 100%	
	Construction Management Status: 80%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$1,081,969

Contractor: VanCon, Inc.	Original construction contract amount:	\$10,437,000
	Construction Status: 80%	
	Substantial Completion Date: 5/1/2023	
<u>Change orders approved since last report:</u>		
• Electrical transformer cost increase.		\$18,348
• Reservoir overflow piping replacement.		\$19,007
• Pump station site piping modifications.		\$26,247
• Pump station site piping modifications.		\$40,947
Current construction contract amount:		\$10,578,143
Total change orders as a percentage of original contract:		1.4%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• RTU cabinet equipment.	Royal Wholesale Electric	\$8,955

Current Status: The contractor is working on process piping, electrical, and finishes within the new pump station. All yard piping and reservoir work is complete. Both the reservoir and existing pump station are back in service to meet summer water demands.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: JA-1 and Southeast Collection Line Condition Assessment, #4150

Project Description: This project provides a condition assessment of the 78-inch Jordan Aqueduct Reach 1 (JA-1) and 30-inch Southeast Collection Line (SECL). Each of these pipelines are in need of a comprehensive condition assessment to identify any issues that need to be addressed to maximize the reliable service life of these facilities. The condition assessment will provide data for the interior pipeline coating, pipe wall thickness, pipe joint condition, and any movement or deflection in the pipeline.

District Project Manager: Travis Christensen

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	\$1,045,245
	Study/Inspection Status: 98%	
	Construction Management Status: 100%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$1,498,448

Contractor: Vancon	Original construction contract amount:	\$435,000
	Construction Status: 100%	
	Substantial Completion Date: 3/31/2021	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$435,000
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The consultant is preparing the final design report of the Southeast Collection Line. Overall the line is in fair condition with some areas requiring repair in the next 5-10 years. The JA-1 condition assessment is complete and that pipeline is in good condition.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 3300 South Pipeline Replacement Project - Phase 1, #4190

Project Description: Design and construction management of a new 12-inch pipeline along 3300 South from 1100 West to 500 West to replace an aging cast iron pipe installed in 1956 that has had multiple pipeline breaks.

District Project Manager: Kevin Rubow

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	\$388,773
	Design Status: 100%	
	Construction Management Status: 25%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$547,984

Contractor: B.D. Bush Excavation	Original construction contract amount:	\$2,989,090
	Construction Status: 25%	
	Substantial Completion Date: 8/18/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$3,034,940
Total change orders as a percentage of original contract:		2%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The contractor has resumed work and is installing the new pipeline from 900 West to 1100 West.



Installing 12-inch PVC pipeline



Applying lubricant to pipe gasket

JORDAN VALLEY WATER CONSERVANCY DISTRICT
CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 3300 South Pipeline Replacement Project - Phase 2, #4190

Project Description: Design and construction management of a new 12-inch pipeline along 3300 South from 500 West to State Street to replace an aging cast iron pipe installed in 1956 that has had several pipeline breaks. The pipeline installation will include open-cut and trenchless installation methods to cross I-15 and railway corridors. The project was divided into multiple bid schedules and the project will be completed by two separate contractors. Replacement of this pipeline will provide valuable redundant capacity for the service area located west of I-15.

District Project Manager: Kevin Rubow

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	Incl. w/ Phase 1
	Design Status: 100%	
	Construction Management Status: 0%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$0

Schedule A Contractor: VanCon, Inc.	Original construction contract amount:	\$1,765,300
	Construction Status: 1%	
	Substantial Completion Date: 11/11/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$1,765,300
Total change orders as a percentage of original contract:		0%

Schedule B&C Contractor: Beck Construction	Original construction contract amount:	\$6,914,355
	Construction Status: 1%	
	Substantial Completion Date: 11/15/2023	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$6,914,355
Total change orders as a percentage of original contract:		0%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• UTA pipeline agreement fees.	Utah Transit Authority	\$4,529

Current Status: The construction contract for Phase 2 was awarded in the April Board meeting. The project was divided into multiple bid schedules and the project will be completed by two separate contractors. The consultant and District staff are reviewing material submittals and construction is anticipated to commence in mid-June.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: 11800 South Pump Station Upgrades, #4209

Project Description: Installation of a new pump and motor to provide additional capacity and redundancy for the 11800 South pump station. The work also includes installation of a medium voltage transformer and HVAC upgrades to provide power and cooling for the future build out capacity of the pump station. This pump station serves the rapidly growing areas of South Jordan, West Jordan, Herriman, and Riverton.

District Project Manager: Kevin Rubow

Electrical Engineer: AE2S Design Engineer: JWCD Staff	Original engineering contract amount:	\$48,012
	Design Status: 100% Construction Management Status: 97%	
<u>Additional services authorized since last report:</u>		
<ul style="list-style-type: none"> • n/a 		
Current contract amount:		\$48,012

Contractor: Corrio Construction	Original construction contract amount:	\$823,866
	Construction Status: 97% Substantial Completion Date: 5/8/2022	
<u>Change orders approved since last report:</u>		
<ul style="list-style-type: none"> • Repair 6-inch chiller line. 		
Current construction contract amount:		\$855,788
Total change orders as a percentage of original contract:		4%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
<ul style="list-style-type: none"> • n/a 		

Current Status: The project is substantially complete. The contractor is completing punch list items identified by District staff to finish the project.



Electrical terminations on 4000 kVA transformer

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Upper Headquarters Campus Paving Improvements, #3910

Project Description: Site improvements to the Headquarters Campus including site drainage, pavement replacement, stream culvert replacement, irrigation ditch modifications, gas line relocation, and Beckstead Lane road improvements.

District Project Manager: Marcelo Anglade

Design Engineer: Talisman Civil Consultants	Original engineering contract amount:	\$289,917
	Design Status: 100%	
	Construction Management Status: 99%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$436,517

Contractor: Black Forest Paving, LLC.	Original construction contract amount:	\$1,099,721
	Construction Status: 99%	
	Substantial Completion Date: 7/15/2022	
<u>Change orders approved since last report:</u>		
• n/a		
Current construction contract amount:		\$1,107,851
Total change orders as a percentage of original contract:		0.7%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: The project is substantially complete. The contractor is working on project closeout documentation.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Zone D Chemical Feed Facility, #4204

Project Description: Design and construction of a chemical injection facility at the 10200 South Zone D Reservoir. The facility will add fluoride and chlorine to the Bingham Canyon Water Treatment Plant effluent and boost the chlorine residual at the 10200 South Zone D Reservoir.

District Project Manager: Conor Tyson

Engineer: Hansen, Allen & Luce	Original engineering contract amount:	\$198,872
	Design Status: 100%	
	Construction Management Status: 55%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$510,322

Contractor: Corrio Construction, Inc.	Original construction contract amount:	\$1,645,588
	Construction Status: 55%	
	Substantial Completion Date: 6/28/2023	
<u>Change orders approved since last report:</u>		
• Robroy floor penetrations.		\$3,583
Current construction contract amount:		\$1,665,162
Total change orders as a percentage of original contract:		1%

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Contractor has set walls for the new building and dug trenches for waterlines and conduits. Work on the roof is commencing. The new 20-inch pipeline is fully installed and is undergoing final testing before being put into service.



New chemical feed building being constructed



New pipeline tied into existing vault

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 CAPITAL PROJECTS REPORT
 March 10, 2023 - May 14, 2023

Project Name and Number: Jordan Basin Water Reclamation Facility Wastewater Reuse Study, #3961

Project Description: Consulting services to perform a feasibility study of wastewater reuse. The District is heading up a stakeholder group consisting of local municipalities, sewer, and water districts to identify potential reuse projects.

District Project Manager: Alan Packard

Engineer: Bowen, Collins & Associates	Original engineering contract amount:	\$27,796
	Design Status: 90%	
<u>Additional services authorized since last report:</u>		
• n/a		
Current contract amount:		\$27,796

<u>Other Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
• n/a		

Current Status: Draper Irrigation Company and Bluffdale City will be the only two entities that will use the recycled wastewater with the initial phase of the project. The facilities will be designed to accommodate future expansion if other entities later decide to participate in the project. CUWCD is performing the NEPA compliance work. Draper Irrigation Company received a \$5,000,000 grant from USBR WaterSmart program for this project.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

CAPITAL PROJECTS REPORT

March 10, 2023 - May 14, 2023

Normal Capital Improvements

Various small miscellaneous improvements.

<u>Fund Approvals since last report</u>	<u>Vendor</u>	<u>Amount</u>
Project Name and Number: • Rehabilitation of protective coatings.	Distribution Vaults Group 2, #4115, Keenan Robertson Houston Painting	\$31,090
Project Name and Number: • Survey for new diversion structure.	Southwest Collect Line Assessment, #4186, Conor Tyson Meridian Engineering, Inc	\$5,010
Project Name and Number: • Test VFD.	1590 Well Motor Repairs, #4181, Conor Tyson Nickerson Company	\$950
Project Name and Number: • Preparation of BRIC Grant NOI's.	Hazard Mitigation Plan-BRIC 2023 NOI, #4219, Marcelo Anglade Elwell Consulting Group	\$4,973
Project Name and Number: • Reducer on pump column.	SERWTP Reclaim Pump Replacement, #4228, Conor Tyson Nickerson Company	\$3,084
Project Name and Number: • Construction management services.	Conservation Garden Composite Deck, #4252, Marcelo Anglade Sunrise Engineering	\$4,500
Project Name and Number: • PEC bulk tank installation. • Construction Management Services.	SERWTP PEC Bulk Tank, # 4284, Conor Tyson Ellsworth Paulsen Construction AE2S	\$54,645 \$30,508
Project Name and Number: • Design & CM services to equip well.	9800 S 2300 E Well Equipping, #4293, Kevin Rubow CRS Consulting Engineers, Inc.	\$73,225
Project Name and Number: • Cost for higher frequency equipment.	Microwave Equipment, #4298, Marcelo Anglade Peak Mobile Communications	\$6,277
Project Name and Number: • Design and CM services.	13&64 Well Repair, #4310, Kevin Rubow Bowen Collins & Associates	\$65,029

Total Capital Project Approvals (Active Projects)		\$79,595,487
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REPORT ON MEDIA COVERAGE

JORDAN VALLEY WATER CONSERVANCY DISTRICT

REPORT ON MEDIA COVERAGE TONE

June 7, 2023

This report includes mass media articles that are directly related to JVVCD's mission, projects, initiatives, and programs and are published during the defined reporting period.

Reporting Period: March 21, 2023 – May 26, 2023

1. **Neutral** – Semerad, T. (March 21, 2023) *South Jordan adds 2,285 acres with visions of another Daybreak*. Salt Lake Tribune. <https://www.sltrib.com/news/2023/03/31/south-jordan-adds-2285-acres-with/>

News article discussing Rio Tinto Kennecott's request to annex 2,200 acres into South Jordan City. JVVCD is mentioned as the water provider for the proposed new community.

2. **Neutral** – DeMille, D. (April 11, 2023) *Historic Utah winter isn't a license to waste water, state officials warn*. St. George Spectrum & Daily News. <https://www.fox13now.com/news/great-salt-lake-collaborative/utah-lawmakers-plan-to-revisit-how-you-pay-for-water>

Article interviewing water managers throughout the state, which included Alan Packard (JVVCD staff) discussing the important role conservation still plays despite record snowpack.

3. **Neutral** – Winslow, B. (April 21, 2023) *Utah lawmakers plan to revisit how you pay for water*. Fox13 News. <https://www.fox13now.com/news/great-salt-lake-collaborative/utah-lawmakers-plan-to-revisit-how-you-pay-for-water>

News article discussing a bill that will study how water conservancy districts use property taxes. Alan Packard (JVVCD staff) was interviewed about the District's position on the bill.

The article also appears in the Ogden Standard Examiner (<https://www.standard.net/news/environment/2023/apr/21/utah-lawmakers-plan-to-revisit-how-you-pay-for-water/>) and KSL News Radio (<https://kslnnewsradio.com/2001496/utah-lawmakers-plan-to-revisit-how-you-pay-for-water/>)

4. **Positive** – Brackin, K. (April 25, 2023) *Spring runoff water redirected to shrinking Great Salt Lake*. KSL TV. <https://ksltv.com/544189/spring-runoff-water-redirected-to-shrinking-great-salt-lake/>

TV news article discussing the release of 50 million gallons of water a day to Great Salt Lake. The water bypasses Utah Lake with infrastructure in coordination with JVVCD.

5. **Positive** – Tavss, J. (April 25, 2023) *50 million gallons of water begins daily diversion to Great Salt Lake*. Fox13 News. <https://www.fox13now.com/news/great-salt-lake-collaborative/50-million-gallons-of-water-begins-diversion-to-great-salt-lake>

TV news article discussing the release of 50 million gallons of water a day to Great Salt Lake. Wade Tuft (JVWCD staff) was interviewed about the process and collaboration of the water districts involved in the bypass.

6. **Positive** – Page, J. (April 25, 2023) *Great Salt Lake now getting 50 million gallons of extra spring runoff per day*. Gephardt Daily News. <https://gephardtaily.com/local/great-salt-lake-now-getting-50-million-gallons-of-extra-spring-runoff-per-day/>

TV news article discussing the release of 50 million gallons of water a day to Great Salt Lake. The water bypasses Utah Lake with infrastructure in coordination with JVWCD. Alan Packard (JVWCD staff) was quoted praising the foresight of early Utah leaders.

7. **Neutral** – Noriega, D. and Dujanovic, D. (April 26, 2023) *First statewide waterwise landscaping incentive program to launch in Utah*. KSL News Radio. <https://omny.fm/shows/dave-and-dujanovic/dave-dujanovic-full-show-4-26-23-first-statewide-w>

Radio program discussing the new statewide landscape rebates and incentives. Cynthia Bee (JVWCD staff) was interviewed to discuss eligibility requirements of the program and water efficiency standards.

8. **Positive** – Winn, K. (April 27, 2023) *Salt Lake County announces \$1.1M in turf conversion grants to support water efforts*. 2KUTV. <https://kutv.com/news/utah-water/salt-lake-county-announces-11m-in-turf-conversion-grants-to-support-water-efforts>

News article discussing the Salt Lake County grant program that is administered by the District, with funding from the county. Twenty-one projects were approved to remove 412,000 square feet of non-functional turf.

9. **Positive** – Tung Tan, C. (April 27, 2023) *7 Salt Lake County cities to receive \$1.1 million in turf conversion grants for water conservation*. ABC4. <https://www.abc4.com/news/wasatch-front/7-salt-lake-county-cities-to-receive-1-1-million-in-turf-conversion-grants-for-water-conservation/>

News article discussing the Salt Lake County grant program that is administered by the District, with funding from the county. Twenty-one projects were approved to remove 412,000 square feet of non-functional turf.

10. **Positive** – Beal-Cvetko, B. (April 27, 2023) *'Whiplash weather': Salt Lake County issues turf replacement grants to 7 cities to conserve water*. KSL. <https://www.ksl.com/article/50631361/whiplash-weather-salt-lake-county-issues-turf-replacement-grants-to-7-cities-to-conserve-water>

News article discussing the Salt Lake County grant program that is administered by the District, with funding from the county. Twenty-one projects were approved to remove 412,000 square feet of non-functional turf.

11. **Positive** – Winslow, B. (May 1, 2023) *Utah increases incentives to get you to ditch your lawn*. Fox13 News. <https://www.fox13now.com/news/local-news/utah-increases-incentives-to-get-you-to-ditch-your-lawn>

News article discussing the role-out of the new statewide landscape incentive programs, facilitated by Utah Water Savers. The press conference was held at Conservation Garden Park.

12. **Positive** – Miller, S. (May 1, 2023) *Thinking about getting rid of your lawn? Utah will pay you to do it*. KUER. <https://www.kuer.org/politics-government/2023-05-01/thinking-about-getting-rid-of-your-lawn-utah-will-pay-you-to-do-it>

News article discussing the role-out of the new statewide landscape incentive programs, facilitated by Utah Water Savers. The press conference was held at Conservation Garden Park.

Similar articles appeared in:

- a. The St. George News (<https://www.stgeorgeutah.com/news/archive/2023/05/03/mgk-grass-doesnt-belong-everywhere-washington-county-officials-roll-out-turf-removal-incentive-program/>)
 - b. The Deseret News (<https://www.deseret.com/utah/2023/5/1/23707685/utah-turf-grass-buyback-program-water-efficient-landscape>)
 - c. KSL (<https://ksltv.com/546311/utah-launches-statewide-turf-grass-buyback-program-as-it-seeks-water-use-reformation/>)
 - d. UPR (<https://www.upr.org/utah-news/2023-05-02/tuesday-am-headlines-turf-buyback-incentives-utah-sued-over-release-of-violent-offenders>)
13. **Neutral** – Bates, S. (May 5, 2023) *Mitt Romney frustrated White House won't negotiate on debt ceiling*. Deseret News. <https://www.deseret.com/2023/5/5/23711817/mitt-romney-frustrated-white-house-wont-negotiate-on-debt-ceiling>

Article discussing Senator Romney's opinion on recent news events such as the debt ceiling and the Supreme Court. The press event was held at Conservation Garden Park Education Center, and the article mentions the location throughout.

14. **Neutral** – Gresseth, C. (May 9, 2023) *Are you eligible for a landscape rebate?* KSL News/Dave and Dujanovic. <https://kslnewsradio.com/2004786/are-you-eligible-for-a-landscape-rebate/>

Article discussing a segment of the Dave and Dujanovic show. The hosts interviewed

Cynthia Bee (JVVCD staff) about the new landscape incentives and discussed water efficiency standards and the cities that have/have not adopted them.

15. **Positive** – Bojórquez, K. (May 25, 2023) *How to ditch your grass without breaking the bank*. Axios Salt Lake City. <https://www.axios.com/local/salt-lake-city/2023/05/25/utah-water-rebate-grass-lawn-incentive-money>

Article discussing the new landscape incentive program through Utah Water Savers. The article quotes Cynthia Bee (JVVCD staff) about different aspects of the program.

16. **Neutral** – Alberty, E. (May 25, 2023) *How a plant shortage could flummox the West's drought response*. Axios Salt Lake City. <https://www.axios.com/local/salt-lake-city/2023/05/25/xeriscape-native-plant-shortage-drought-utah-colorado-arizona>

Article discussing how landscape incentives may result in a plant shortage in Utah and other western states. The article quotes Cynthia Bee (JVVCD staff) about the lack of nurseries in the area and how that drives demand to the few remaining.

MEDIA COVERAGE

Here's where the Salt Lake Valley could see flooding in the next week

Fast-moving creeks will be treacherous; detention ponds at parks could start seeing rising water.

By **BLAKE APGAR**
The Salt Lake Tribune

With warmer temperatures in the forecast, the Wasatch Front could get its first floods from spring runoff.

Kade Moncur, head of Salt Lake County's flood mitigation efforts, warned that cold water will be moving rapidly through

east-side creeks.

He urged residents to be careful around creeks and rivers, keep a close eye on their kids, and steer pets away from fast-moving water.

Moncur said ponding could occur in detention basins and parks in the following flood control sites:

Mill Creek

» Scott Avenue Park (Ben Franklin Park) — Millcreek.

» 550 East detention basin — South Salt Lake.

» Fitts Community Park — South Salt Lake.

Parleys Creek

» Tanner Park (Parleys Historic Nature Park) — Salt Lake City, Unincorporated Salt Lake County.

» Sugar House Park — Salt Lake City.

» Hidden Hollow in Sugar House Commons — Salt Lake City.

Emigration Creek

Emigration Creek will see increasingly high flows with this warming trend.

» Rotary Glen — Salt Lake City, Emigration Canyon Metro

Please see FLOODING, A5



TRENT NELSON | *The Salt Lake Tribune*

High water levels in Emigration Creek flowing through Wasatch Hollow Park in Salt Lake City last month.

Flooding

» *Continued from A1*

Township.

- » Hogle Zoo area — Salt Lake City.
- » Wasatch Hollow — Salt Lake City.

Red Butte Creek

- » Red Butte Garden — Salt Lake City.
 - » Miller Park — Salt Lake City.
- ### City Creek
- » Upper Canyon ponds area — Salt Lake

City.

- » Memory Grove pond — Salt Lake City.

Jason Draper, flood control manager for Salt Lake City, cautioned that creekside parks and trails could be flooded.

He said officials don't expect significant issues along the west side's Jordan River or

Surplus Canal But groundwater, especially west of the Jordan River along the levee, could be a continuing problem throughout the spring.

Spring runoff safety tips

- » When going outdoors, tell someone where you are going or go with another person. Let someone know when you expect to return and leave a note on your dashboard.

- » Water during spring runoff is high, currents are strong, and cold water is incapacitating.

- » Know your surroundings and check weather ahead of time.

- » If you are caught in water, float feet first in a half-sitting position.

- » If someone else is in the water, reach out or throw something to them. Do not get in the water. Call 911 as soon as possible.

SEASONAL FLOODING LOOMS



TRENT NELSON | *The Salt Lake Tribune*

Catch basins are designed to catch debris along Salt Lake City's City Creek on Monday. City officials are taking steps to deal with possible flooding from a record-breaking snowpack.

How Salt Lake City is preparing

Decades of crucial infrastructure upgrades should help the city manage expected heavy runoff, says Mayor Erin Mendenhall.

By **SOFIA JEREMIAS** | *The Salt Lake Tribune*

Editor's note » *The Salt Lake Tribune* is providing free access to this vital story about flooding. Sign up for our Top Stories newsletter, sent to your inbox every morning. To support journalism like this, please donate or become a subscriber.

Last weekend the sounds of running water — trickling down gutters, flowing over rocks in City Creek and dripping off cars — suffused Salt Lake City as warmer temperatures finally graced the state after a long, gray and snowy winter.

With a record-breaking snow pack melting Salt Lake City's public works agencies are preparing to manage the flows, city officials said Monday as the temperatures climbed to 70 degrees.

With all this snow, many are thinking about the floods of 1983, Salt Lake City Mayor Erin Mendenhall said as she led

off a news conference in Memory Grove Park in Salt Lake City. "But we are absolutely, undoubtedly much better prepared today for the record snowfall that we've received than we were in 1983." Her update included a message meant to calm the anxiety building among residents around flooding in the Salt Lake Valley — especially for those who remember the city's historic event from 40 years ago. "We're here today to highlight the differences between 1983 and 2023," Mendenhall said with the sun shining and City

Please see **FLOODING, A4**

Flooding

» Continued from A1

Creek rushing behind her.

Infrastructure built in the years following the flood

In the decades since flooding turned State Street into a river, two debris basins were installed in City Creek.

The two concrete towers allow water to flow but keep branches, logs and boulders from clogging up the river. An excavator will be stationed at the basin to remove buildup that can then be hauled away by a dump truck. Roughly four blocks worth of debris built up in 1983, said Jesse Stewart, Salt Lake City Public Utilities deputy director.

"It's just like having your own plumbing system clogged — it's going to come out someplace else," Stewart said. "But you can turn your water off, whereas here the water just kept coming and there was no place to go."

The debris basins and piping system upgrades built in the decades since should help prevent

that build up from happening again.

Little Dell Reservoir, built in the early 1990s, is also capturing runoff. The reservoir "was built for two important purposes," Mendenhall said. "One as a flood control system and secondly as a water storage facility."

"We are currently releasing water from Little Dell reservoir to make space available to hold the Parleys Creek runoff high up in the system upstream from Salt Lake City," explained Laura Briefer, director of Salt Lake City Public Utilities. "That will take a lot of pressure off of the system when peak runoff occurs." Creeks and streams in the canyons north and east of Salt Lake City provide more than 60% of the water supply for the city and Salt some surrounding suburbs.

Severe drought and 'tragic capacity'

"This was not the case 40 years ago when Utah Lake and the Great Salt Lake at that time were at historically high levels," Mendenhall said. "Today both lakes have probably a tragic amount of

capacity."

With so much capacity, the Great Salt Lake in particular could benefit from spring runoff. Recent reports have determined the Great Salt Lake water level to have increased 2.5 to 3 feet since November, but it's still slightly lower than it was at this time last year.

"While we're concerned about flood risk from this year's record breaking snowpack," Briefer said, "we're also really grateful for the positive impacts of this snowpack."

The snowpack water equivalent for the Provo River, Utah Lake and Jordan River Watershed sits at 229% of normal, Briefer said. "Which as a water manager I'm really happy about."

And of course, the severity of flooding will depend on how quickly the state warms up. So far, things are looking good. "The forecast for the next week is perfect for a measured runoff," Briefer said.

One of the most important things residents can do to prepare is make sure the storm drains around their homes are cleared of debris.

Great Salt Lake is up, but it's not in the clear

There are signs the ecological wonder has started to recover, but it remains in a precarious place.

By **LEIA LARSEN** | *The Salt Lake Tribune*

Utah's phenomenal, record-breaking winter has already given the Great Salt Lake a boost, but it will take a few more decent winters before it reaches a safe and sustainable elevation.

The lake is up by about 3.3 feet since it bottomed out at record low of 4,188.5 feet above sea level in November. It now sits at 4,191.8 feet, and state resource managers expect it will rise another three feet by the time runoff season ends. The lake's optimal elevation, however, is at about 4,200 feet. That gives it enough wiggle room to rise and fall, like shallow terminal lakes do, without posing a threat to its ecosystem, industries and surrounding cities.

"We get a big sigh of relief for this year," said Ben Stireman, sovereign lands program administrator with the Division of Forestry, Fire and State Lakes, which manages the lakebed. "[But] it's really important to realize one good year isn't going to solve our problems."

An impressive 1.4 million acre-feet have flowed, dripped or seeped into the lake so far in the form of streams, direct precipitation and groundwater since November.

"We've seen more water coming into the lake than the last two years combined," Stireman said.

Please see **GREAT SALT LAKE, A4**

Great Salt Lake

Continued from A1

That's good news for the millions waterfowl and shorebirds the lake supports.

"So far, with spring migration, I've seen more birds this year than I've seen in quite a while," said John Luft, program manager for the state's Great Salt Lake Ecosystem Program. "It's probably because they've got water to actually sit on."

Salinity levels have dropped from 19% last year — which all but wiped out the lake's brine flies — to 16% so far.

"We're getting a good hatch of brine shrimp right now," Luft said. "It should be, hopefully, more normal this year."

Those are all positive signs the lake is recovering, but an elevation matrix developed by state scientists shows how much more water the lake needs to be out of the red.

Even if the lake rises to 4,195 feet this year as projected, it still means the lake's brine shrimp and brine flies face adverse conditions, which are key species in the lake's food web. Many of its "islands" will remain landlocked or easily accessed by shallow water, which is bad for nesting birds. It also is not ideal for recreation, and mineral companies will still struggle to access the brine they need. Rescue boats will have difficulty launching.

State scientists are also working to better understand the ongoing threat exposed lakebed poses to air quality as it dries to dust.

Every inch of water helps, Stireman said, but "until the lake gets well above where we're at, we'll probably see dust that comes from the lake."

Utah lawmakers appropriated \$232,000 in one-time funds and \$44,000 ongoing to help state regulators track dust blowing off the lake, along with the toxins contained inside the dust.

Officials with the Department of Environmental Quality are currently setting up that equipment at four sites near the Great Salt Lake's shores, including in Erda, at the new state prison site, near the Antelope Island causeway and in Ogden. They are also adding more filters to the existing air quality monitoring station at Hawthorne Elementary School in Salt Lake City to detect blowing dust.

"We're encouraged by the lake levels rising," said Bryce Bird, director of the Division of Air Quality. "Hopefully that will mitigate some of the recently exposed areas we saw last year."

The surge of water isn't benefitting all parts of the lake equally. Officials raised a berm in the railroad causeway bisecting the lake in July and again in February in an effort to stave off rising salinity levels in the south half. The north half is essentially cut off from any of the lake's tributary rivers. It has become so hypersaline few creatures survive other than salt-loving microorganisms that turn the water pink.

A large colony of pelicans nest on Gunnison Island in the north arm, however, seeking it out for its solitude and isolation from predators. But low lake levels have created land bridges and put baby birds at risk.

Still, lake experts say severing the lake in two was necessary to keep at least part of it alive.

"I actually thought we'd just be monitoring this [ecological] collapse this year," Luft said, "but installation of that berm was a huge benefit."

And water will spill over the causeway breach once the lake rises a few more inches to 4,192 feet, sending a much-needed pulse to the northern half, which currently sits about two feet lower than the rest of the lake.

"That water is going to start washing over with this spring runoff," Luft said. "Basically, it's going to equilibrate."

But once the spring swell slows, the shoreline will likely recede again. The Great Salt Lake typically loses 2 million acre-feet each year to evaporation. Water managers have called on Utahns to continue ripping out turf and cutting back their consumption this coming season to ensure the lake someday reaches a healthy level.

"Waiting to water until our landscapes really need it and keeping our outdoor water use low this summer is more important than ever," Weber Basin Water Conservancy District general manager Scott Paxman said in a news release. "The less we use, the more we store and support the Great Salt Lake."

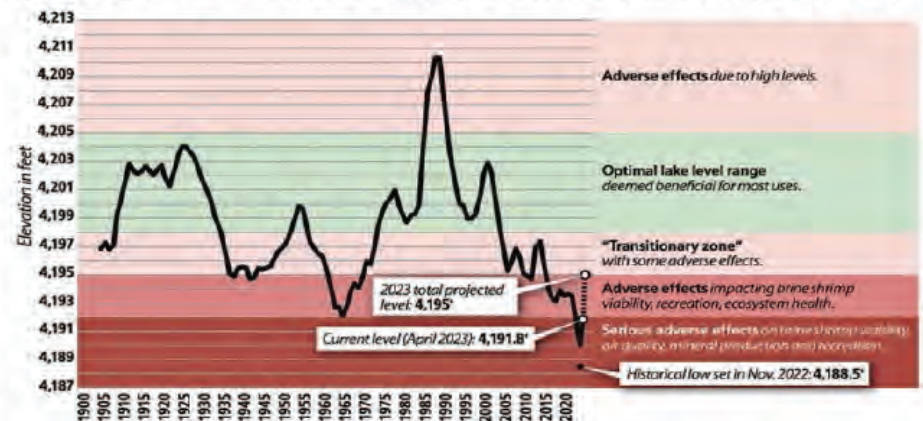
This article is published through The Great Salt Lake Collaborative: A Solutions Journalism Initiative, a partnership of news, education and media organizations that aims to inform readers about the Great Salt Lake



LEAH HOGSTEN | The Salt Lake Tribune

A boat with the Great Salt Lake Ecosystem Program tours the Great Salt Lake last week.

Average annual elevation of Great Salt Lake with elevation zones, 1903–2023



Source: US Geological Survey Historical Elevation at Saltair Boat Harbor; Utah Division of Forestry, Fire and State Lands, GSI, Lake Elevation Matrix, 2013. Utah Department of Natural Resources. GRAPHIC BY CHRISTOPHER CHERRINGTON | The Salt Lake Tribune

What vital signs will show us that the Great Salt Lake is feeling better?

By SAIGE MILLER | KUER

Utah's record-setting winter has been exciting for both skiers and lawmakers working to revive the ailing Great Salt Lake. Gov. Spencer Cox told reporters in mid-March that lake levels were up 2 feet and they were hopeful for 5 feet more. There was also the good news that the Church of Jesus Christ of Latter-day Saints had donated 20,000 acre-feet of water to the lake.

The optimism contrasts with a Brigham Young University study from earlier in the year that indicates the lake could vanish in roughly five years if aggressive action isn't taken to preserve it. For his part, the governor is bullish on what lawmakers have done for the lake and wishes scientists would ease up on the "doom and gloom."

So, how will we know when the Great Salt Lake turns a corner? Here are a few of the key indicators of recovery that scientists and state officials will look for:

WATER LEVELS

The amount of water flowing into and staying in Great Salt Lake is the most critical sign of its recovery. With the amount of snow and rain Utah has received this winter, the lake's current levels are at about 4,190 feet — above the record low hit last November — and that's before the spring runoff.

Candice Hasenyager, the director of the Utah Division of Water Resources, said it's already an improvement.

"Last year, over the whole runoff season, it only rose about a foot. And the year before it was less than a foot," she said. "So the fact that we are pretty run up and have already risen 2 feet is great news."

But the lake is still not at a healthy water level. It would need to go up another 8 feet to escape the danger zone.

All of this water only "buys us a little time," said Bonnie Baxter, the director of the Great Salt Lake Institute. As summertime arrives "we need to be really cautious."

Baxter also noted the lake dropped by about 3 feet every summer for the last three years.

She believes a positive sign the lake is recovering can be found in surrounding areas, like Farmington Bay and Antelope Island.

Ben Stireman, the sovereign lands program administrator for the Utah Division of Forestry, Fire and State Lands, said higher water levels in those areas "is a good sign" because "it's either direct precipitation [on] the lake bed or inflows



LEAH HOGSTEN | The Salt Lake Tribune

A boat with the Great Salt Lake Ecosystem Program tours the Great Salt Lake last week.

from the main tributaries."

But Baxter doesn't want the public to believe all the rain and snow has lifted Utah out of a megadrought or that the lake is now OK and revert back to their water-wasting habits.

"We just need to keep moving as if we didn't get all this water."

SALINITY LEVELS

As the name implies, Great Salt Lake is naturally salty. But too much salt can harm the diverse ecosystem that calls the iconic lake home.

Hasenyager said salinity levels are a big concern, especially during drought years. Since it is a terminal lake, meaning there is no outlet for the water to flow elsewhere, the only exit from the lake is by evaporation. But only fresh water evaporates and the salt stays behind.

So, in order to stabilize salinity levels, water needs to make its way into the lake.

"That's why we've had declining inflows the last couple of years and the increased evaporation because of the temperature through the lake, the south arm got saltier," she said.

Right now the salinity is at roughly 160 grams per liter or about 16%, which Hasenyager said is "just barely back into the ideal range of the salinity for the south arm."

The ideal range is between 120 to 160 grams per liter. Salinity is a huge factor for Baxter as well. She would like to see levels between 15% and 17% in the summer when the majority of evaporation occurs.

"We ended at 19% salt last year, which was terrible. And all of the biology was really struggling."

THE BIOLOGY

Baxter will be "monitoring the recovery" of mats on the microbialites on the bottom of the lake. Microbialites are rock-like formations that look like reefs but are actually composed of millions of little microbe organisms.

"That's where the brine flies pupate and the mats have just been disappearing because they can't sustain themselves in that salinity that's that high."

Another sign of lake health of the lake is the lifespan of brine flies.

She said there were little to no brine flies buzzing around last August, which is a bad sign. Brine flies and shrimp are what feed all the migratory birds that visit the lake.

The Utah Legislature passed a handful of laws this year related to water conservation, including \$200 million in agriculture optimization to help farmers update infrastructure. Lawmakers also allocated more money to a turf buyback program to encourage homeowners to replace their thirsty lawns.

"Even though we had a great year, this is not the time to take our foot off the gas pedal," Hasenyager said. "We still need to reduce how much water we're using."

Published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake—and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlake-news.org.

SPRING RUNOFF » MORE FLOODING REPORTED



FRANCISCO KJOLSETH | The Salt Lake Tribune

People work into the night to protect homes along 1700 South in Salt Lake City from the rising flow of Emigration Creek through Wasatch Hollow Park on Wednesday. As rapid snowmelt and possible April showers stoke fears of heavy flooding in the Northern Plains, state officials are announcing flood response plans, and residents are assembling thousands — if not hundreds of thousands — of sandbags to combat floods themselves.

SLC lifts voluntary evacuation order

The flooding reported in Wasatch Hollow and throughout the Wasatch Front followed an especially warm Tuesday in the city.

By **BLAKE APGAR, JORDAN MILLER, PAIGHTEN HARKINS** and **SCOTT D. PIERCE**

The Salt Lake Tribune

A voluntary evacuation order was lifted Thursday afternoon for about 100 homes near Wasatch Hollow after Emigration Creek's flow rate had slowed considerably.

The area was inundated with floodwaters from the creek late Wednesday, prompting Salt Lake City Mayor Erin Mendenhall to sign an emergency order aimed at supporting flood-affected residents. A mudslide early Thursday also temporarily shut down east Interstate 80 in Parleys Canyon.

The flooding reported in Wasatch Hollow and across the Wasatch Front

on Wednesday followed an especially warm Tuesday in Salt Lake City, when highs stretched into the 80s, accelerating snowmelt. Wednesday's highs were also in the upper 70s, but a cold front dropped Thursday's temperatures into the 40s.

"The cooler temperatures have already started to decrease the snowmelt," Christine Kruse, a lead

meteorologist with the National Weather Service in Salt Lake City, said. "But it's going to take some time for that water to get out of that system."

At a news conference Thursday, Gov. Spencer Cox said almost every county in Utah has received state assistance to help mitigate flooding — and that this week's activity was only

Please see FLOODING, A4

How to help with flooding

Sandbag-filling events this weekend hosted by Salt Lake City officials are open to residents wanting to help with flood prevention. » **A5**



RICK EGAN | The Salt Lake Tribune

Emigration residents and neighbors fill sandbags in the parking lot of Ruth's Diner in Emigration Canyon on Tuesday.

Flooding

■ Continued from A1

the beginning.

"You've seen the potholes all across Utah; we have big sinkholes in Kaysville," Cox said Thursday afternoon, standing in an empty warehouse from which the state had distributed about 1.4 million sandbags. "We had a mudslide in Parleys Canyon this morning; we had a rock slide at Fairview Canyon yesterday; the flooding in Emigration Canyon last night and today, and in pockets throughout the state."

Since 1983's historic flooding, Utah has made hefty investments in reservoirs and infrastructure to manage extreme water runoff. But Utah Department of Natural Resources Executive Director Joel Ferry acknowledged Thursday that the state is in uncharted territory after historic snowfall.

In the 1980s, the state's runoff began in mid-May, Ferry said. With this year's snowmelt starting earlier, officials hope for temperature patterns like northern Utah has seen this week — a few days of warm weather followed by a cold front to "ease it through."

"We're certain that these flood conditions will continue in the coming months," Cox said. "We are really just at the front end of getting all of that record water down downstream where it needs to go."

Wasatch Hollow flooding

In Salt Lake City, officials suspect a grate at Wasatch Hollow Park became blocked sometime overnight Tuesday. That, coupled with the excess water Wednesday, likely caused the flooding that prompted the voluntary evacuation order.

No residents initially placed under the voluntary order opted to leave their homes, Mendenhall said Thursday, adding that the temporary order came out of an "abundance of caution."

The order was lifted Thursday afternoon after Emigration Creek saw improved flows, Richard Boden, Salt Lake City's emergency manager, said. The waterway had peaked late Wednesday, but, by midday Thursday, its flow was down by about half.

"With the cooler temperatures coming in, we expect that to gradually ease," Kruse, with the weather service, said.

Still, residents should stay aware of how conditions develop and monitor social media updates from the city and first responders. Road closures around Wasatch Hollow will remain in effect on 1500 East from Glen Arbor Street to Blaine Avenue, and on 1700 South from 1700 East to 1500 East.

"If you don't belong in the area, [or] you're not out volunteering," Boden said, "we would ask that you stay out of the area as much as possible, just for your safety."



While some Wasatch Hollow homes saw damage, none of it was major, city officials said. Mendenhall attributed the minimal damage to the hundreds of volunteers who helped fill and place sandbags late Wednesday as the flow surged to about a foot high on neighborhood streets.

"This is a tribute to the teamwork between the city, the county and the residents of Salt Lake City," Mendenhall said. "This is what we do. We show up. We work hard together, and we're good at it."

Paul Rodney, who lives in a duplex on 1700 South, said he saw the floodwaters rushing down his street late Wednesday and helped stack sandbags in front of his home.

"I got faith in the community that they're going to come take care of things," he said.

Emigration Canyon sees mudslides

In Emigration Canyon, homes and businesses along the rising creek braced for the worst overnight Wednesday.

"We've had between 10 and 15 mudslides, varying from a few wheelbarrows to eight or 10 truckloads of debris," said Joe Smolka, the chair of the Emigration Canyon Metro Township. "We've had a small avalanche, which is unusual for our canyon. We've had the snow slide off roofs and cover part of the road. We've had multiple culverts plugged with debris."

Salt Lake County Emergency Management Director Clint Mecham said one Emigration Canyon home was damaged significantly; Smolka said about a half-dozen others saw minor flooding.

At Ruth's Diner, employees and volunteers used hundreds of sandbags to keep floodwaters away from the iconic restaurant. "The water was so high last night, but right now

everything is good," Juan Ruebe, a cook at the diner, said Thursday morning. "But it's starting to rain right now, so I don't know what's going to happen."

Weekend outlook

Though Thursday brought some rain and snow, not much precipitation actually fell. "I don't think it's going to do anything to exacerbate the problem," Kruse said of flooding risk.

Friday and Saturday were expected to be cooler, slowing snowmelt, but Sunday and Monday will be warmer — highs are forecast in the upper 60s — and could accelerate flows again.

Laura Briefer, director of Salt Lake City Public Utilities, noted Thursday that mid- and low-elevation snowpack in the Emigration Creek watershed had largely melted, which marked good news for the future.

The flow in Emigration Creek peaked overnight Wednesday at about 155 cubic feet per second. "One cfs is about a basketball of water," Kruse said.

"So if you want to visualize, that's about 155 basketballs of water passing you every second." (The creek's highest flow ever recorded was in 1984, at 164 cfs.)

After warmer weather, the creek could see a flow rate Monday of about 110 cfs; "flood stage" for the creek begins at 130 cfs. "So right now, our forecast for Emigration Creek does not show another increase to flood stage," Kruse said, "but that's something we'll have to watch as we go through the next few days."

Many residents who live near the creek felt like they dodged a bullet Wednesday night, but there were anxious moments.

"I actually couldn't sleep last night," said Maria Gordon, who lives in Emigration Canyon, "and I think that all the neighbors in the

Mayor Erin Mendenhall and numerous volunteers pile sandbags along 1700 South in Salt Lake City in an effort to divert the rising flow of Emigration Creek through Wasatch Hollow Park on Wednesday. As rapid snowmelt and possible April showers stoke fears of heavy flooding in the Northern Plains, state officials are announcing flood response plans, and residents are assembling thousands — if not hundreds of thousands — of sandbags to combat floods themselves.

FRANCISCO KJOLSETH
The Salt Lake Tribune

cul-de-sac couldn't sleep, either. But it peaked around 10 or 11 [p.m.], and then subsided. And everyone's good. Everyone's house is safe."

Briefer noted that next week's warmer temperatures mean the Salt Lake Valley could start to see some upper-elevation snowmelt. Mecham said emergency management officials were keeping an eye on other creeks, too.

"This is probably just the beginning of our runoff season and the efforts that we may need to effect," he said, "as we move forward in keeping the water in the channels and keep our residents safe."

At a news conference Thursday, Ferry, with the Department of Natural Resources, noted some good news: Most reservoirs in Utah will fill this year.

In partnership with the Utah Division of Water Rights, DNR has performed "controlled releases" of reservoirs, so that when "peak runoff" occurs, the additional reservoir capacity can help reduce flood impacts, Ferry said. In Salt Lake City, the Public Utilities Department continues to release water from Little Dell Reservoir to make space for runoff in the Parleys watershed.

Cox noted that the additional runoff expected this year can still lead to landslide risk. Ferry said officials are currently managing about 100 active landslides.

"These are serious events. These are serious times," Ferry said. "The water has a lot of power, and we need to be very mindful and we need to recognize how important our safety is in making sure that people are aware of what's going on."

Cox said the state isn't sure what particular areas will be at risk over the next few weeks, but that the cities and counties do — so state officials are working to get those areas the resources they need.



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

People work to protect homes into the night along 1700 South in Salt Lake City from the rising flow of Emigration Creek through Wasatch Hollow Park on Wednesday. With warmer temperatures on the horizon, more snowmelt water could come streaming into places it shouldn't.

Where is Wasatch floodwater going?

Snowmelt flowing through northern Utah should likely end up in the Great Salt Lake.

By JACOB SCHOLL | *The Salt Lake Tribune*

All along the Wasatch, snowmelt is flowing into creeks, reservoirs and — unfortunately — into some neighborhoods. The colder spell in recent days has slowed the runoff, but warmer temperatures are on the horizon and more water could come streaming into places it shouldn't.

But the bulk of the water pouring through places like Emigration Canyon or a neighborhood in Kaysville will end up in the same place: the Great Salt Lake.

Aside from water that will sink into the dirt and become groundwater or the water that is saved in reservoirs, the floodwater should make its way to existing rivers and streams, which in northern Utah, means the water will eventually flow into the lake, according to Michael Sanchez, a

More inside

☞ The danger of more flooding in Utah is far from over, but there's nothing particularly alarming in the weather forecast for the weekend and into early next week. ▶ **A7**

spokesperson for the Division of Water Resources within the Utah Department of Natural Resources.

Salt Lake County is a part of the Jordan River Watershed, which includes Utah Lake and Great Salt Lake. Water flowing through Salt Lake's many creeks will likely end up in the Jordan River, which flows north and into Great Salt Lake, according to Salt Lake County's website.

Rivers and creeks in Utah County take

a slightly longer route, first emptying into Utah Lake before going into the Jordan.

"It would make sense that (flood) water would ultimately end in the Jordan River and Great Salt Lake," Laura Briefer, Salt Lake City's public utilities director, told *The Salt Lake Tribune*.

In Davis and Weber counties, the runoff also heads to Utah's biggest lake.

Scott Paxman, general manager for the Weber Basin Water Conservancy District, explained that most of the floodwater will flow into nearby creeks and west toward the Great Salt Lake. The floodwater in Kaysville, for example, would flow into Bair Creek, which empties into the lake.

Weber County has two main waterways — the Ogden and Weber rivers. The Ogden is largely fed by the nearby Pineview

Please see **FLOODWATER, A7**

Floodwater

» *Continued from A1*

Reservoir, but it picks up water as it heads west. The Weber starts in the Uintas and flows through Summit and Morgan counties before it joins the Ogden River to the west of Ogden.

If the water isn't held back in the area's many reservoirs — like Echo, Pineview and Causey — it would flow into the Great Salt Lake.

Like the Weber River Watershed, the Bear River Watershed — which includes the northernmost areas of Utah and extends into Idaho and Wyoming — also contributes to the terminal lake.

Sanchez points out that some reservoirs like Little Dell and Jordanelle weren't around during the infamous floods of 1983 and can serve as crucial flood mitigation tools. But in 1983, Great Salt Lake's levels had never been higher.

Nowadays, Great Salt Lake's low level means the lake can take just about as much water as the record snowpack can dole out.

Before the western states suck the Colorado River dry, we have one last chance to act

The Interior Department last summer dropped a bomb on the seven states that depend upon the Colorado River for water. It declared an emergency over the two-decade drought that was parching the West and instructed these states, already scrambling to conserve water, to come up with a plan to cut consumption of as much as four million acre-feet, an amount equal to about one-third of the Colorado's annual flow.

Then, after delivering this blow, the agency retreated to the sidelines. Instead of taking the lead, it urged the seven states — Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming — to figure out how to make the cuts themselves.

Since then the states have engaged in futile discussions about how much water each must forgo. Tensions have been most acute among Arizona, California and Nevada, the three states that get their water primarily from large reservoirs instead of stream flow and therefore are the only ones who can be ordered to make reductions. Arizona and California, whose allotments are much larger than Nevada's, should make the biggest cuts, but they have been sharply divided over how to carry them out.

This week, Interior Secretary Deb Haaland at last entered the negotiations over how the cuts — revised down to two million acre-feet — should be allocated. Her agency released a draft with three options, but it clearly favors one in which the water delivered to Arizona,



ERIN SCHAFF | *The New York Times*

A section of Lake Mead with the "bathtub ring" visible after a decades-long megadrought.

California and Nevada is reduced by the same percentage for each state.

Secretary Haaland's decision to engage offers hope for resolving a problem that threatens the livelihood and welfare of cities and farms throughout the seven states. But laying out these options is not nearly enough. Interior must now take charge of the negotiations and get the parties to consensus. Without that, disaster awaits: The Colorado River's Lake Mead reservoir, formed by the Hoover Dam, will continue falling toward "deadpool," the level at which water isn't high enough to get through the dam to users downstream in Arizona, California and Nevada.

Coming to agreement will not be

easy. To date, California has offered insufficient reductions in its water use, claiming that a federal law enacted more than 50 years ago — before climate change reared its head — places much of the burden of cutting back on Arizona.

Arizona has responded that California's proposal would effectively shut down water deliveries to Phoenix, Tucson and other cities, devastating Arizona's economy.

As the states quarreled and the Interior Department stood by and watched, precious time was lost. Secretary Haaland must make up for it, and fast. The impending crisis demands that she use all powers at her disposal to force the parties to make their fair share of cuts.

Interior has some firepower to

pressure the parties toward agreement. All water users, cities and farmers alike, that take water from Lake Mead must have a contract with the department detailing the terms and conditions on which water is delivered from the reservoir. A regulation known as Section 417 empowers the department to periodically review those contracts to assure that water is being delivered and used with maximum efficiency; contracts can be adjusted to reduce water use that is not absolutely necessary.

The task that Interior must now undertake is to review hundreds of contracts to squeeze out wasteful or unnecessary water deliveries from Lake Mead. It will be arduous and time-consuming but it will help ensure that Arizona and California don't dodge or delay the necessary cuts. If the states are reluctant to cooperate, Interior can modify the contracts itself.

One opportunity is clear: About 80 percent of Colorado River water delivered to Arizona and California goes to irrigating alfalfa, grain for animal feed and winter vegetables. There is still plenty of room for more efficient water use there.

If no agreement is reached, there will be litigation. When Arizona and California took their differences over the river to the Supreme Court in 1952, the court took 11 years to reach a decision. Imagine the harm that a regulatory delay of that length would cause today.

If states continue the present level of withdrawals from the reservoirs as climate-induced drought



BRUCE
BABBITT

For *The New York Times*

accelerates, Lake Mead (now at 28 percent capacity) and another reservoir, Lake Powell (23 percent), which is upstream on the Utah-Arizona border, could reach deadpool in the coming years. That would undermine the dams on those reservoirs, dry up the Colorado River in the Grand Canyon and shut off water to Arizona and California, leaving their lawyers arguing their case to a wasteland.

A black swan event is also in the mix. Across the upper basin of the Colorado River, in Colorado, New Mexico, Utah and Wyoming, winter storms have dumped record snowfalls. Some of the spring runoff now flowing into Lakes Powell and Mead is more than 150 percent of normal, leading some of my acquaintances in the West to suggest the crisis is easing and we can relax. They would like to put off the difficult decisions and the resulting cuts.

But waiting will only amplify the crisis. With accelerating climate change and aridification spreading across the West, delay will increase the deficit in our reservoirs, making resolution even more difficult. Interior needs to act now.

Bruce Babbitt was secretary of the Interior Department from 1993 to 2001 and governor of Arizona from 1978 to 1987.

Flooding reaches some Utah cities, but water managers welcome huge snowpack

Managing what water goes where will be key going forward



Crews work to clean up and stabilize a hillside Monday after mud came sliding down a hill in this Morgan neighborhood in northern Utah.

Kristin Murphy, Deseret News

By Amy Joi O'Donoghue
Deseret News

March, which is typically Utah's best month for precipitation, outdid itself this year.

By the time it was over, precipitation was 250% of normal, more than twice what the month generally delivers.

"I don't know what we did to deserve March, but it was something. I don't know what to say about March. I know our forecast staff was extremely tired. It was just phenomenal," said Glen Merrill, senior hydrologist with the National Weather Service in Salt Lake City, adding not only was the wet weather outstanding, but the cool temperatures as well.

"We're talking 8 to 13 degrees below normal for mean temperatures for the night," he said. "I can't remember a month that was anywhere close to them."

Merrill and a room full of other water experts met Friday in the monthly Water Supply Outlook meeting to discuss the snowpack, streamflow forecasts, reservoir capacity and, of course, flooding.

The relief of periodic warmups

The warmer temperatures last week kick-started the melt from lower and mid-

elevations of a snowpack that exceeded that of the early '80s and even, cautiously speaking, the big snow year of 1952, although at that time measurements were not taken as often and measure sites were not as plentiful.

"So I think we can say with confidence that we are in uncharted territory for the state and definitely broke new records there," added Jordan Clayton, supervisor of the Utah Snow Survey of the Natural Resources Conservation Service.

The active weather pattern is good news for what in recent years has been extremely dry soils, low reservoirs and tepid runoff.

Cutting deficits

Clayton said from 2020 to the present, major basins in the state are cutting their precipitation deficits anywhere from 75% to 90% in most locations and the anticipation is that some of those locations will get out of a deficit and actually move into surplus.

That snow coming off the mountains means extraordinarily high stream runoff forecasts in some areas and flooding that is already happening at Emigration Creek, resulting in the closure of some recreational trails near waterways and wary eyes cast on the Weber and Ogden rivers.

"Those are streamflow forecasts that

are greater than 300% of normal, greater than three times the typical value at those locations. And again, that's compared to average," Clayton said. "So it's really exciting, these forecasts. And I think nobody should be surprised to hear that we have the potential to set some records for runoff at certain locations."

Reservoirs releasing some water

All that water needs to go somewhere and reservoirs are already in an operational mode of controlled releases to make room for the coming melt.

The precipitation has also delivered enough water to lift the ailing Great Salt Lake by 3.5 feet and forecasters predict Lake Powell will receive 11 million acre-feet of water due to inflows.

Neither of those amounts are enough to get the Great Salt Lake or Lake Powell Reservoir out of trouble, but it will help.

And as the berm dividing the north arm of the Great Salt Lake from the south arm is expected to be eclipsed by the precipitation, water experts said some of that additional water will make it into the north arm—a good thing.

The episodic warming and cooling last week will be duplicated this week, with

experts saying that is a good sign the snow may continue to come off gradually. While temperatures spiked Monday around the 70-degree mark, a cold front moves in bringing a chance of rain Tuesday into Thursday. On Friday, forecasters say, will see temperatures climb back into the 60-degree area.

"It's great that we have this episodic warmup because we've got a long few months to go," Merrill said. "Keep pulling down what we can when we can. Every day that we hold on to snow this time of year is one more day that it's going to take to melt that later. So, let's do it as efficiently as possible."

A wild ride ahead

Gary Henric, a civil engineer with the U.S. Bureau of Reclamation, often uses cars as a metaphor for how the snowpack is performing. For the last few years, he's displayed a picture of an old clunker badly in need of help. This year, he said he should have showed a photo of a sleek, high performance sports car.

Instead he showed a picture of a bull rider. "I think we are in for a pretty big ride this spring when the (snow) starts moving," he said. "I guess the take home is let's make sure we are wearing our helmet. It's going to be a wild ride. Hang on."



Susan Parkin prepares to tie a sandbag as volunteers fill up sandbags at Wasatch Public Works Yard in Millcreek on Saturday.

Ryan Sun, Deseret News

"I think nobody should be surprised to hear that we have the potential to set some records for runoff at certain locations."

— Jordan Clayton, supervisor of the Utah Snow Survey of the Natural Resources Conservation Service

Don't let the snowfall fool you — the danger isn't over for the Great Salt Lake

The lake has risen several feet due to a record-breaking winter snowpack. What does this mean for the future of the lake?



Jeffrey D. Allred, Deseret News
An empty marina is pictured at the Great Salt Lake in Salt Lake City on March 17. While the lake level has risen, the danger to its future is not over, writes Simon Wang, a professor of climate science at Utah State University.

By Simon Wang
For the Deseret News

As Utah's 2022-23 legislative session approached, dozens of scientists called on lawmakers to prevent the "unprecedented danger" that would occur if the alarming rate of decline of the Great Salt Lake continued. Without action, they warned, the lake could (not would) dry up "in the next five years."

Three months later, in the midst of the snowiest winter and spring on record, the lake's surface has risen about three feet. With snowpacks at record levels, we're likely to see several more feet of rises later this spring and beyond.

Did the report's authors get it wrong? Not entirely. They cautioned that the lake could potentially disappear in as little as five years if there was not a significant increase in water flow, which fortunately we have now received.

But the report's writers did not strongly emphasize these nuances, and some journalists and social media users who shared the report may have overlooked them while emphasizing the alarming message. Similarly, in the past, some people have cited a few reports that suggested a possible future of "global cooling" while ignoring the overwhelming evidence that human activities are causing global temperatures to rise. In the same way, skeptics could soon cite this report's predictions about the Great Salt Lake drying up.

They might look out over a lake in 2027 that has not dried up and say, "I remember when the scientists said this lake was about to disappear."

That's unfortunate, because the lake may still be in trouble.

To understand that peril, we must understand the natural climate cycles that drive the ups and downs of the Great Salt Lake. These cycles are connected to chaotic jet streams and prominent oscillations in the world's oceans — shifts in temperature resulting in changes to ocean evaporation, pressure and wind (and the moisture it carries) toward the Mountain West. These shifts impact precipitation, snowpack, river flow and groundwater and can be seen in tree-ring reconstructed records of climate conditions going back hundreds of years.

The moist peaks of this cycle tend to come every 8 to 16 years. Some are higher and some are lower, but the

long-term trends can't be seen in any one cycle of the oscillation — they're much better viewed over many decades. In the past 50 years, for instance, the highs and lows appear to have diverged quite significantly from those seen in earlier data. This is why the amazingly wet winter and spring of 2022-23 weren't really a surprise.

Warmer air holds more moisture, resulting in more precipitation in certain regions, such as ours, when the right underlying conditions are present, like when the natural oscillation is trending toward a wetter winter to begin with.

On the other hand, warmer air can cause surface moisture to evaporate before it seeps into the soil enough to become persistent groundwater, which slowly percolates toward the terminal lake. Warmer temperatures also enhance evaporation from the lake itself, particularly when the natural oscillation is already trending toward drought.

While the natural climate cycle may be affected by warming, it is distinct from the acute changes associated with climate change and increased water consumption. It existed before human-caused changes to our climate, and it will likely still exist even if we shed our dependence on fossil fuels.

This doesn't mean we shouldn't care about water consumption, as the natural climate cycle does amplify how we use water, which could result in a dry lakebed at some point. As a state, we need to address the overuse of water in all sectors. But we also need to predict better and respond swiftly to the natural climate cycle, so that we can make increasingly accurate decisions regarding water trends and management.

This will better ensure a supply for our fundamental needs and help us predict, prepare for and even prevent droughts and floods.

That won't happen if many more people in our state decide they can't trust science. To that end, it's most responsible for noting that while it is possible that the total evaporation of the Great Salt Lake is high, the natural wet-dry cycle that is currently occurring will have a tremendous influence over when and whether that outcome arrives.

Simon Wang is a professor of climate science at Utah State University. He has been the author or co-author of hundreds of studies on weather extremes, climate variability and climate forecasting.

Drought drastically reduced in Utah, much of the West after winter storms

By Amy Joi O'Donoghue
Deseret News

As of Oct. 1 last year, 73% of land in the Southwest was in some sort of drought. Flash forward to April and only 27% of that same region was impacted by drought.

That is according to a Tuesday briefing coordinated by the National Integrated Drought Information System and in conjunction with other entities that include the Colorado River Basin Forecast Center and the National Weather Service.

Utah sat at 100% of its land in some sort of drought, while only a few troublesome spots remain according to the U.S. Drought Monitor. Utah now sits at 35% of its land in some sort of drought, but none in the exceptional or extreme categories — the worst of the worst.

Dave Simeral, associate research climatologist with the Western Regional Climate Center/Desert Research Institute based in Reno, Nevada, pointed to the whopping 253% average of precipitation the Great Basin Region received since the new water year began in October. The basin

stretches from the Sierras on the West to the Wasatch Range in Utah.

And Lake Powell, which is only 22% full and threatening power generation for a half dozen states, is projected to get 177% of normal inflows this runoff season, but that amount is absent any diversions along the way. While the water that gets there will be far short of filling it, that water represents some measure of relief.

That relief also may be bolstered by potential cuts to the Colorado River's Lower Basin states under consideration by the U.S. Bureau of Reclamation.

Streamflow in the Upper Colorado River Basin is projected at anywhere between 90% and 305%, which bodes well for Lake Powell and other reservoirs.

Simeral said because of the active weather pattern of storms and cooler temperatures, Utah is experiencing record snowfall and snow water equivalent — the amount of water contained in that snow. Alta, for example, has logged 73 feet of snow, with more expected to come.

"We have had a number of heat waves in the past several spring times that have not



Kristin Murphy, Deseret News
The Centennial Trail is flooded from an overflowing Weber River in West Haven on Monday.

been good in terms of runoff, so this is really nice," Simeral said. "We have had some nice, uniform, cooler than normal temperatures across the region, which is going to help the snowpack hang around. Hopefully we won't heat up too much moving forward into the late spring."

California is one of those states like Utah

that has stark comparisons drawn between October going into April, with much of the Golden State's land area impacted only by abnormally dry status or moderate drought.

And all that water is good for soil conditions, according to the integrated drought information center, with measurements showing a good recovery so far.

RECREATION



Kristin Murphy, Deseret News
Division of Parks ranger Trent Currie and Steve Bullock, Division of Recreation law enforcement chief with the Utah Department of Natural Resources, load a boat onto a trailer during boat operation training in Great Salt Lake State Park in Magna on April 19.

Come sail away

Great Salt Lake Marina in business as water rises

By Amy Joi O'Donoghue
Deseret News

After being forced to dock their boats at the Great Salt Lake State Park and Marina due to the drought two years ago, sailors are readying to once again launch their vessels as water has returned from the wet water year.

Devan Chavez, spokesman for Utah State Parks, said a few boaters were already out on the water earlier this week when the weather turned warmer. He expects more to follow suit.

"Right now, it is the smaller vessels that are launching. Hopefully as the water increases we can have the larger boats out there."

The Great Salt Lake has risen 3.5 feet so far due to the hefty amount of precipitation northern Utah has received and will rise more given the runoff has not yet reached its peak.

Dave Shearer, park manager and harbor master, said that runoff will determine if larger vessels are suitable for a slip and for sailing.

"I'm not optimistic that we will get all of the boats in the water that are in the parking lot right now, just because some of them have a pretty deep draft. But we're still evaluating it right now," he said. "We basically said that anybody with a four foot draft or less can go ahead and rent a long term slip because we're quite confident that those people will be able to launch and sail and stay in the water all year."

He said vessel owners are excited over the renewed opportunity to get out on the water.

"Most of them did not think that they'd be putting their boats back in this year. And so the fact that we've had such a really good winter and they can get their boats back in, they're really excited. It's great to see these people want to come out

and enjoy the lake on the water again."

That water, Chavez said, will be a boon to Utah's popular boating destinations such as Rockport, East Canyon, Deer Creek and Jordanelle, creating a safer and more pleasurable recreational experience for visitors.

"Right now, it is looking like we are going to have a majority of park ramps open, which is really good news," he said. "Not only can they go out and play, but more water means they can spread out."

He said the low reservoir levels last year didn't necessarily mean there were fewer people coming out to recreate.

"Just because there is less water does not mean there is going to be less people."

A reservoir crowded with boaters not only presents a safety concern, but diminishes the visitor experience, he added.

"People want their own space for their own enjoyment," he said. "I know when I go to Jordanelle I want to be in my own space."

State Waterfowl Management Areas are also benefiting from the water flowing into the marshes at Ogden and Farmington bays.

"This water we have been receiving is awesome," said Mark Hadley, Northern Utah outreach manager for the Utah Division of Wildlife Resources. "Not only is it good for the birds but that water runs through the management areas and flows into the Great Salt Lake."

The water at Farmington Bay, which has about 150,000 acres of wetlands, is a transition area in which fresh water from the Jordan River flows.

Farmington Bay, along with the Bear River Delta, are the only two spots in the lake where fish can be found.

Although the flow of water has created challenges for the division to shore up dykes or do some repairs, Hadley said the water is good news for the lake, the wildlife, hunters, bird watchers and the public.

"So, we are really happy we are getting all this water," he said.



Kristin Murphy, Deseret News
Division of Parks ranger Trent Currie and Steve Bullock, Division of Recreation law enforcement chief with the Utah Department of Natural Resources, load a boat onto a trailer during boat operation training at the Great Salt Lake Marina in Magna on April 19.

Some areas of Utah could get 9 inches of snow on Tuesday

But it is expected to warm up this weekend.

By SCOTT D. PIERCE

The Salt Lake Tribune

It is expected to get relatively warm in Utah this weekend, but first, thunderstorms and yet another snowstorm are expected this week.

A storm front made its way into northern Utah on Monday afternoon, bringing rain and hail in some areas, along with lightning and wind gusts of 40-50 mph, according to the National Weather Service.

The storm was expected to drop temperatures into the low 50s, which “will set the stage for widespread snow showers across northern and central Utah mountains and yes, even some potential for lake-enhanced snow showers downwind of the Great Salt Lake,” according to the weather service.

Early Tuesday, northern Utah valleys could see trace amounts of snow, or up to 1 inch in some areas, with more possible on the benches. A few inches are expected in northern Utah’s mountains, with the highest totals expected — 4-9 inches — in the Cottonwoods and the Bear River Range.

Lake-effect snow possible

Although May is only a week away, a “high-end scenario suggests” that the Oquirrh and benches in the western Salt Lake Valley could get up to 9 inches of “lake-enhanced snowfall” on Tuesday morning.

The National Weather Service cautioned that, “as with any lake-effect event, large ranges in conditions will be experienced across short distances.”

The cold front is expected to move out of the state by Wednesday, leaving behind clearer and drier conditions and temperatures in the mid- to upper 60s, which is considered at or slightly above normal.

Temperatures will continue to rise into the weekend, reaching 70-80 degrees, about 5-15 degrees above normal. There is a 50% chance temperatures will rise above 80 on Sunday, and a 70% chance on Monday.

That would hasten the melting of Utah’s record winter snowpack, according to the weather service, and increase the chance of flooding across northern Utah.

In southern Utah, the cold front will drop temperatures into the low to mid-70s on Tuesday — which is close to normal for the St. George area. But it won’t last long.

The forecast then calls for temperatures in the low 80s on



TRENT NELSON | *The Salt Lake Tribune*

Snow covers Little Dell Reservoir earlier this month. Some parts of northern Utah could get up to 9 inches of snow on Tuesday.

Wednesday, the upper 80s on Thursday and Friday, and the low 90s on Saturday and Sunday.

There is no precipitation in the forecast through the weekend in southern Utah.



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

The Conservation Garden Park at Jordan Valley offers a number of water wise grass displays for the region. Water conservation experts say when residents should start watering their lawns depends on where they live.

Utahns: Here's when you should start watering your lawn this summer

State water conservationists recommend to not watering your lawn until temperatures are consistently in the 70s.

By JACOB SCHOLL | *The Salt Lake Tribune*

There is no doubt Utah's wet winter has saturated dirt and greatly improved the state's drought outlook — despite also creating the risk of floods along the way.

Those who keep their thirsty lawns in pristine conditions will likely not have to worry about turning on sprinklers in the coming weeks. But when will be the day you should start watering your lawn?

First off, Utah has been and still is under drought conditions. Much of the state is still listed as being in moderate to severe drought conditions, according to the U.S. Drought Monitor.

In other words, the wet weather doesn't mean lawn enthusiasts have carte blanche to leave sprinklers on for hours.

It should be noted that last year's snow water equivalent levels were under half of this year's — 2022 had a maximum of around 12 inches of water compared to this winter's high of 30 inches.

But for those who want to water their lawns responsibly, the start date for watering will likely depend on where you live and what is the weekly forecast.

"We don't start recommending watering until average highs are in the 70s," said Shelby Ericksen, a water conservation manager for the Utah Division of Water Resources.

The water resources division puts out a weekly watering guide that gives recommendations by county on how many times residents should water their lawns — and if they need to water at all.

The most recent guide says the only county that should water their lawns at all is Washington County. Ericksen said that's because the temperatures there will consistently be in the high-70s to low-80s in the coming week. A good rule of thumb is to not

water your lawn until temperatures are consistently into the 70s, but it also depends on how much precipitation the area is getting.

For counties along the Wasatch Front, you don't need to be watering your lawn for at least the next week, and that date could always be pushed further down the line.

"We're recommending that everybody (along the Wasatch) wait until after May 1," Ericksen said.

A good test to tell the dampness of your soil is to take a screwdriver and probe the ground, Ericksen said. If the screwdriver goes into the lawn easily, that means the dirt has sufficient moisture. She noted that the division's weekly lawn guide may not apply to trees and shrubs, and you should ensure other plant life is sufficiently hydrated.

Despite the record snowpack, Utah is still in the midst of a historic drought, so water conservation will again be key this summer. The cooler temperatures that come with the spring and fall give water managers the best opportunities to conserve water, Ericksen said.

If you do plan on watering your lawn regularly, be sure to water early in the morning or late at night. Don't water your lawn between 10 a.m. and 6 to 8 p.m., depending on where you live.

Don't water your lawn when it's windy, Erickson added, as the water can carry away from your lawn depending on the wind speed. She also said that raising your lawnmower so the grass is cut to be three or four inches long helps, as the higher grass gives the soil more cover and allows it to retain water more efficiently.

Smart irrigation controllers can also ensure lawns are watered more efficiently, Ericksen said. She added rebates on smart controllers are available online through the Division of Water Resources.

But overall, just water your lawn less.

According to the weekly watering guide, a Utah yard of just a quarter acre with .17 acres of green space soaks up around 3,000 gallons in a single watering.

50 million gallons of water begins daily diversion to Great Salt Lake

The water comes from the Deer Creek Reservoir, which makes its way eventually into the lake.

By **JEFF TAVSS** | **FOU 13**

While things have been looking up for the Great Salt Lake recently, the body of water synonymous with the Beehive State began getting an extra boost to quench its thirst.

Starting Tuesday morning, the Central Utah Water Conservancy District opened the floodgates to divert 50 million gallons of water each day into the lake, which has suffered during the state's recent drought.

"It was an innovative process that a lot of people came together to figure this out to be able to run this water this way," said Wade Tuft, water manager for the Jordan Valley Water Conservancy District.

Fifty million gallons of water equals about 100 Olympic-sized swimming pools. Each day over the next few weeks, that amount of water will be heading to the Great Salt Lake through existing pipelines and aqueduct systems.

The water comes from the Deer Creek Reservoir, which is released into the Provo River, then makes its way into the Jordan River and eventually into the lake. In addition to

being a benefit to the Great Salt Lake, it will increase storage room at the reservoir for possible flooding after the extraordinary winter snowfall.

"We've decided to bring this water down today and for the next couple of weeks so that we can hopefully avoid some of those flooding issues," said Tuft.

Along with the Jordan Valley Water Conservancy District, the Provo River Water Users Association, Metropolitan Water District of Salt Lake and Sandy City are taking part in the collaboration.

"This project required a tremendous amount of creative thinking to make the most of the gift that Mother Nature gave us with this year's historic snowpack," said Central Utah Water Conservancy District General Manager Gene Shawcroft.

The Great Salt Lake hit its historic low point in November, but has since risen three feet even before the massive spring runoff which is expected over the next few weeks.

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late.

LAKE POWELL » INCREASED WATER LEVELS



Water levels are low last year looking across Lake Powell to the Hole in the Rock, where a wagon train crossed Glen Canyon in 1879. With the Colorado River basin's snowpacks at 157% of normal and lake levels projected to climb more than 50 feet this year, the U.S. Bureau of Reclamation will repeat experiments with water releases to replicate spring floods.

ZAK PODMORE
The Salt Lake Tribune

Grand Canyon's experimental floods to resume

Record snowpack is expected to put 14.5 million acre-feet of water into the upper Colorado, raising the drought-depleted reservoir by at least 50 feet.

By BRIAN MAFFLY | *The Salt Lake Tribune*

For the first time in five years, high volumes of water are gushing from the drought-depleted Lake Powell, replicating the spring floods that would naturally occur were the Colorado River not dammed at Glen Canyon.

The U.S. Bureau of Reclamation on Monday opened the gates at Glen Canyon Dam allowing up to 39,500 cubic feet per second, or cfs, to pour into the river channel at Lees Ferry, sending a flood-stage surge of water through Grand Canyon. That's like the contents of 27 Olympic swimming pools a minute spouting through the bottom of the dam.

"These experiments are really designed to recreate habitat and the physical attributes that would have existed downstream from the dam, but for the existence of the dam," said Amy Haas, executive director of the Colorado River Authority of Utah (CRAU), at last's week board meeting. "In this case, what I'm talking about is building

up sandbars using sediment that has accumulated."

The 72-hour experiment comes as Lake Powell begins to rebound from record low levels as the runoff from record-setting snowpack begins to flow into the upper Colorado River.

Under a plan approved in 2012, the bureau had been conducting high-flow experiments almost annually until 2018. Since then, a string of dry years and excessive water use have depressed levels of Lake Powell, which today is only 23% full, sitting at 3,525 feet above sea level.

That is about to change drastically in the coming weeks as the upper Colorado basin's snowpacks, which

Please see LAKE POWELL, A4



RICK EGAN | The Salt Lake Tribune

Glen Canyon Dam impounds the Colorado River into Lake Powell last year. The level of the reservoir is expected to rise about 50 feet over its historic lows registered this year as runoff from massive snowpacks reaches the river.

Lake Powell

■ Continued from A1

are 157% of normal, melt and flow into Powell and upstream reservoirs. The lake level is projected to climb by more than 50 feet this year, according to Bart Leeflang, the CRAU's hydrologist.

"If there is a time to gloat about hydrology, now is the time to do it," he said at last week's board meeting. "It is amazing what has happened between March and April."

What happened in those months was a big snowpack getting bigger, holding twice as much water in some places as normal for this time of year, coming after back-to-back years of skimpy snow accumulations.

"A couple years ago, we were bemoaning the fact that we had lost 2 million acre-feet from April to May [from Lake Powell]," Leeflang said. "And now you see that we picked up 2 million acre-feet in two weeks in March."

At 3,576 feet, Powell would still remain 124 feet below full pool, holding just 39% of its capacity. This year's bounty doesn't put an end to the crisis on the Colorado River, which supplies 40 million Westerners and irrigates 5 million acres, but it buys Utah and the six other basin states time to find a lasting solution to the river's chronic deficits. It may even rescue boating this summer at Lake Powell, among Utah's top recreation draws, where most of the ramps are high and dry and marinas are unusable.

Average flows on the river have declined in recent decades as global climate change turns the West warmer and drier, while the region's water needs continue growing.

This year, the Bureau plans to increase releases from Glen Canyon Dam to 9.5 acre-feet to bring up the level of Powell's downstream big sister, Lake Mead. That's the maximum amount released under the dam's operating guidelines and 2 million more than what is typically released in a year.

The big spike in Lake Powell's projected inflows, expected to total 14.5 million acre-feet, has enabled federal river managers to resume the high-flow experiments.

"The 2023 water year was an exceptional

hydrological period for the Colorado River basin. High snowpack in the western United States was a welcomed change following multiple years of severe drought conditions," wrote Wayne Pullan, the Bureau's Upper Colorado Basin regional director, in an April 14 memo. "The low annual release volumes for the last year have also enabled the hold-over of large amounts of sand in Marble Canyon, which in higher volume release years is quickly washed downstream."

These sediments should replenish sandbars and beaches in the Grand Canyon, but Glen Canyon Dam, completed in 1963, disrupted the natural processes that push them downstream, resulting in a loss of habitat for plants, animals and fish.

Much of the water released during the experiments bypasses the dam's eight hydroelectric turbines, but that won't result in an increase in the amount of water released by the dam.

Under normal operations this April, dam releases would fluctuate between 8,033 and 14,631, depending on the time of day, according to the Bureau. This week's high-flow experiment is the sixth since the agency started them in 2012.

Over these past five years since the last experimental release, huge volumes of sediments have piled up in Marble Canyon and where the Paria and other tributaries meet the Colorado below the dam.

"Releases like this one are experimental in nature and are designed to achieve a better understanding of how and when to incorporate them into future dam operations in a manner that maintains or improves beaches, sandbars, and associated habitats," the Bureau said in a news release.

The Grand Canyon Monitoring and Research Center and the National Park Service will monitor the effects of the high flows on the canyon's beaches, fisheries, aquatic insects, and archaeological sites.

Meanwhile, the Bureau is studying ways to adjust Glen Canyon releases to prevent smallmouth bass, a nonnative predatory sport fish, from escaping into the lower Colorado River and proliferating in Grand Canyon. Powell's low water has allowed the species to pass through the Glen Canyon Dam turbines and establish reproducing populations in the river below where it could prey on endangered native fish.

Cox signs several water-related bills, optimistic about GSL

BY ROB NIELSEN
Standard-Examiner

LAYTON — The state of Utah is looking to protect its water resources for generations to come.

On Tuesday, Utah Gov. Spencer Cox and Lt. Gov. Deidre Henderson were on hand at the Great Salt Lake Shorelands Preserve near Layton for a ceremonial signing of several pieces of water-related legislation covering everything from naming a coordinator for the Great Salt Lake to designating an official

state crustacean.

Cox told the crowd that issues surrounding water made up a large part of the agenda in this year's legislative session once again.

"For the second year in a row, Utah's legislative session concluded with significant investments and a long list of bills targeting water conservation, efficiency and infrastructure — all things that are so important to us," he said.

He said this year's session saw more than \$500 million in one-time investments and

\$164 million in ongoing funding toward water conservation and infrastructure — adding to the nearly \$500 million in similar investments made by the Legislature last year.

Cox noted that nature has been doing its part in helping the region recover from a serious drought.

"We're very excited to have 50 million gallons of water per day going into the Great Salt Lake," he said. "We've seen that lake rise over 3.5 feet already and at least 2-4 feet to go, maybe more. ... Last

year at this time, 99% of the state was experiencing severe drought. Right now, only 7% of the state is experiencing severe drought."

However, he said this is no time to relax.

"We've been handed a gift and this is our opportunity to take that gift and conserve it and preserve it so that we are ahead of the game instead of playing from behind where we've been for a couple years," he said.

Following a short introduction, the governor went

through 10 House bills and Senate bills and allowed legislators and Joel Ferry, executive director of the Department of Natural Resources, to give a brief introduction for each.

H.B. 491

Among the most significant bills signed Tuesday was one to designate a Great Salt Lake commissioner.

Ferry explained the bill is an effort to streamline dealing with issues related to the lake.

"As we got into dealing with issues associated with

Great Salt Lake, we recognized there were a lot of cooks in the kitchen on this subject," he said. "We needed a central point that we could say, 'This person is going to be responsible to help navigate us through all of the issues with Great Salt Lake.'"

He said the legislation goes beyond designating a coordinator.

"It also puts some funding towards additional efforts and initiatives on Great Salt Lake,

Please see **BILLS**, Page A4

Bills

From A1

and it helps us so we can better manage this precious resource we have here in the state," he said.

Cox said the position will be advertised for soon with the intent of filling it by July 1.

H.B. 307

House Bill 307 — a bill on Utah waterways — was introduced by chief sponsor Rep. Calvin Musselman, R-West Haven.

According to the bill's general description, "This bill provides for the creation of a new nonprofit, state-wide partnership addressing water."

"It's a great way to leverage private dollars and to hopefully message in a way that's more sophisticated and targeted so the public can understand what they can do to make a difference — specifically in their areas — as well as businesses and the farming community," Musselman said Tuesday.

H.B. 137

Tuesday's bill signing also recognized an effort to designate the brine shrimp the state crustacean.

H.B. 137's chief sponsor was Rep. Rosemary Lesser, D-Ogden.

"There are so many things that are exceptional about our state, but one thing that is truly unique is that we have the only inland state with a state crustacean," she said. "Every other state crustacean is (in a) coastal state. But since the Great Salt Lake is the largest saline lake in North America, it's only fitting and proper that the keystone species in this lake be the state crustacean."

However, she credited a special



ROB NIELSEN, STANDARD-EXAMINER

Gov. Spencer Cox and Lt. Gov. Deidre Henderson sign bills during a ceremonial bill-signing event on Tuesday.

group of students with helping the legislation come to life.

"This is a bill that was all initiated from this amazing group of students who are sixth graders at Emerson Elementary (Salt Lake City)," she said. "They learned how a bill works all the way from the initial idea to presenting in committee to waiting for the final vote. This is great on so many levels to recognize this important species and its role in the ecosystem of this amazing Salt Lake, but also more importantly that we have a group of students who believe in our government process and learn

how this all works."

Several of those students were on hand and were able to get photos with the governor and lieutenant governor during the signing.

"Forward thinking"

Cox said during the ceremony that the theme of all this legislation is thinking ahead.

"One of the things that I appreciate most about these bills is the way that they are forward thinking," he said. "We're not just thinking two years or four years ahead because of elected terms, but we are looking

20-30 years ahead and preparing for the future. We survived this drought because people made important decisions 50 years ago, 100 years ago that have helped us be where we are today. We need to make sure we're prepared for the future."

He elaborated on this with local media following the event.

"There are a couple of pieces here that really help us," he said. "We have requirements now, last year and this year, for long-term planning with municipalities, with all of our water resources across the state — people that manage these water districts.

They will be planning as well and coordinating that at the state level. Hiring a new person just to manage this ecosystem — the Great Salt Lake ecosystem — is going to be huge because we've never had that before. We've had people kind of doing their parts, but never in a coordinated fashion. Now someone actually gets to shepherd that water to the end of the road. All of these things are really going to help us looking forward."

He added there will still be plenty of work to do in the future.

"What's going to happen next is, with some of these new positions that we've created and some of these new plans that have been put forward, we need to let those kind of take effect and see where they're going," he said. "Having somebody that can start coordinating all of these different things that are happening out there will allow us an opportunity to see where those holes are. We filled a lot of those gaps, but I'm certain we're not done yet. We're going to need some more funding. Acquiring water rights for the Great Salt Lake is a big piece of that. We've done some of that, but I know we're going to need more going forward."

Other bills signed during Tuesday's ceremony included:

■ H.B. 150, "Emergency Water Shortages Amendments."

■ H.B. 450, "Landscaping Requirements."

■ S.B. 76, "Water Amendments."

■ S.B. 92, "Special License Plate Designation."

■ S.B. 118, "Water Efficient Landscaping Incentives."

■ S.B. 144, "Water Instream Flow Amendments."

■ S.B. 277, "Water Conservation and Augmentation Amendments."

Cox promotes bills aimed at water conservation and saving the Great Salt Lake

The lake is still six feet below what is considered healthy.

By **BEN WINSLOW** | KSTU

At a wetland preserve on the shores of the Great Salt Lake, Governor Spencer Cox held a bill signing ceremony to call attention to legislation aimed at water conservation and protecting the lake.

On Tuesday, the governor said the good news is the state is in 7% drought and lake levels have risen thanks to an amazing snow-pack. Now, the state is on guard for flooding.

“What we’ve been doing is releasing water from reservoirs during this cold time,” he said, adding that it allows the state to prepare as snow starts to melt.

But Gov. Cox said that while slowly rising temperatures have been good so far, “if we start to get into the 80s, mid-80s in northern Utah, that’s when it gets dicey.”

The Great Salt Lake has risen nearly four feet as of Monday. But it is still six feet below what is considered a healthy level. But Gov. Cox said legislation like those he was calling attention to are designed to help Utah in the long-term.

“If this is just a reprieve in a longer drought, then we need to take advantage of this reprieve in a very big way,” he told FOX 13 News.

The bills include creating a “Great Salt Lake czar” to oversee efforts to save the lake. There is \$200 million to help agriculture producers — the state’s top water user — to switch to water-saving technologies. It will help a lot, said Ron Gibson, the head of the Utah Farm Bureau, which represents the state’s agriculture producers.

“The agricultural infrastructure from water is ancient in our state,” he told FOX 13 News. “It’s time that we invest the future of agriculture, the future of Utah.”

The governor also signed bills to create a new public awareness campaign called “Utah Water Ways,” focused on conservation. He even signed bills to create a special Great Salt Lake license plate as a fundraiser for saving the water body, and a bill that elementary school students lobbied for to designate the brine shrimp



Courtesy of Fox13

“If this is just a reprieve in a longer drought, then we need to take advantage of this reprieve in a very big way,” Cox told FOX 13 News.

the official state crustacean.

“We’re hoping that it will bring more awareness so people use less and less water so we can have more water go into the Great Salt Lake,” said sixth grader Max Bridge.

There are also bills to expand incentives to persuade Utahns to ditch nonfunctional turf in their yards in favor of desert-friendly landscaping, and prohibiting HOAs from requiring lush, green lawns.

“Changing forever the way we incentivized people to use water, overuse water, now there’s an incentive to use less water. That’s a big deal,” Gov. Cox said.

Candice Hasenyager, the head of Utah’s Division of Water Resources, said all of the legislation will help.

“When we look at the big picture, being able to reduce how much water we use in every sector and being able to conserve it for a variety of uses, including Great Salt Lake, is really important,” she said.

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake—and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlakenews.org.

Utah's record heat amid record snowpack prompts flood warnings

State's waterways, including Emigration Creek, are "extremely dangerous," says National Weather Service.

THE SALT LAKE TRIBUNE

As record temperatures melt northern Utah's record snowpack, rivers and streams will be "running high, fast, cold and extremely dangerous" for the next few days, according to the National Weather Service.

On Sunday, the high temperature in Salt Lake City hit 87 degrees — a new record for April 30, and 21 degrees above normal. (The previous record for the date was 84, set in 2021.)

Another heat record was matched as of Monday afternoon, when Salt Lake City hit 87 degrees. The city last hit 87 degrees on Monday's date (May 1) in 2007, when the record was set, according to the weather service.

Highs in the low 80s are also forecast for Tuesday and Wednesday.

Temperatures running 15 to 20

Please see **FLOODING, A3**



Water reaches high levels in Salt Lake City's Sugar House last week. With temperatures running 15 to 20 degrees above normal, area and state officials are bracing for runoff as snowmelt at lower elevations accelerates.

RICK EGAN
The Salt Lake Tribune

Flooding

Continued from A1

degrees above normal “will lead to accelerated snowmelt of low and mid-elevation basins,” according to the weather service, creating “a high chance of localized flooding throughout the upcoming week.”

Flood fears rise along Emigration Creek

Laura Briefer, director of Salt Lake City’s Public Utilities Department, said the forecast for Monday night, Tuesday and Wednesday shows peak flows exceeding 160 cubic feet per second along Emigration Creek.

“If we are going to see these 160-plus peaks over a sustained time the next few days,” she warned, “that’s going to challenge the system.”

In mid-April — when a clog in the flood-control system sent water spilling down the roadway near Wasatch Hollow Park — flows on the creek peaked at 155 cfs.

Briefer said city public utilities employees and Salt Lake County flood control crews are going to work closely to manage the flood control system this week.

That means directing the two detention basins on Emigration Creek — one at Rotary Glen Park and the other at Wasatch Hollow Park — to ensure there is enough space to capture the runoff.

“That works,” she said, “to sort of shave the intensity of the peak downstream.”

Briefer said Emigration Creek does have the capacity to carry the runoff, but officials will be watching to ensure the water flows through culverts and into the pipe system without issue. Teams will also be on guard for storm-drain lids coming dislodged from peak flows.

If flooding occurs, Briefer expects it to be minor and limited to roadways.

The effectiveness of the system that controls Emigration Creek depends on avoiding debris that could cause clogs.

On Sunday, Briefer said, a wooden pallet got lodged into the stream and caused water to flow over Emigration Canyon Road above Rotary Glen Park.

“When we have flows this high,” she said, “the sensitivity of the system to things like obstructions is quite high as well.”

Briefer said the public should avoid areas around the stream and keep an eye on children and pets. She also urged residents and businesses near streams to remove any debris that may be washed into the waterway.

To report issues or concerns about the condition of Emigration Creek, call the Public Utilities Department’s 24-hour dispatch line

at 801-483-6700.

Other flooding concerns

» Minor flooding is also expected near the south fork of the Ogden River near Huntsville, according to the National Weather Service.

» The lower Weber River near Plain City and east Canyon Creek from about Jeremy Ranch to the East Canyon Reservoir remain under flood watch until further notice.

» Flooding temporarily closed about 30 miles of U.S. Highway 89 through Spanish Fork Canyon, from the intersection of U.S. Highway 6 near Thistle to Mount Pleasant. The Utah Department of Transportation advised Monday that Thistle Creek is expected to remain high for the next several days and additional closures may be necessary.

» A flood warning remains in effect through Friday morning along the Little Bear River near the town of Paradise, about 12 miles south of Logan. Minor flooding is expected in farmland and low-lying areas.

» The mayor of Garden City declared a state of emergency in the small town on Bear Lake just south of Idaho. He urged owners of vacation homes there to check on their properties because of minor flooding in the area.

» State Road 210 through Little Cottonwood Canyon remains closed for avalanche work. UDOT had no estimate for when it will reopen as of Monday afternoon.

» State Road 190 through Big Cottonwood Canyon was closed until 5 p.m. Monday for avalanche mitigation.

Temperatures expected to drop again

Temperatures are expected to cool Wednesday night into Thursday, according to the weather service.

Highs in the low 70s are expected along the Wasatch Front on Thursday, followed by temperatures in the low to mid-60s Friday through Tuesday.

The cold front is expected to bring valley rain. There is a 60% chance of rain on Thursday, including a chance of afternoon thunderstorms. Mountain snow is expected above 7,000-8,000 feet, although little accumulation is expected.

Temperatures will also drop in southern Utah, from nearly 90 degrees on Monday in the St. George area to the low 80s on Tuesday and Wednesday. The forecast high on Thursday is in the mid-60s, and there is a 50% chance of rain, with thunderstorms possible.

Skies will clear Friday and temperatures in the mid-70s are expected through the weekend, a bit below normal (about 80 degrees) for this time of year.



S.L. County issues turf replacement grants to 7 cities to conserve water

Salt Lake County Mayor Jenny Wilson announced more than \$1 million in grants to several cities to help convert grass to more water-efficient landscaping.

Wilson was joined by several mayors and city officials at the West Jordan City Hall on Thursday, where she expressed the need for continued conservation efforts, even as Utah's record snowpack has lessened the effects of drought this year.

"It's hard to believe we are in a declared flood emergency and we're here to talk about drought," she said. "But indeed, our drought challenges are ongoing. I call it whiplash weather. We had an amazing year ... but we know that our Great Salt Lake is suffering."

Shovel in hand, West Jordan Mayor Dick Burton joined Wilson and officials from neighboring cities to break ground on a conversion project in the parking lot in front of City Hall. He said the city hopes to be an example to residents to "flip their strips," by converting park strips and other nonessential grass.

"If we just do these little things, and enough people do these little things, it ends up making a big difference," he said. "And that is amazingly important."

Unsatisfied with the progress made by shovel, Burton climbed into a nearby excavator to pull up a long strip of sod.

The grants will use funding from the American Rescue Plan Act, and will cover conversion of turf on municipal property. They will be distributed through the Integrated Water Conservation and Land Use Municipal Partnership, made up of Salt Lake County, Jordan Valley Water Conservancy District and the Utah League of Cities and Towns.

Bluffdale, Riverton, Sandy, Taylorsville, West Jordan, West Valley City and South Jordan are all recipients of the grants, which total \$1.1 million. Together, the conversion projects

will remove 412,000 square feet of nonessential turf and conserve 9 million gallons of water per year.

Amid Utah's yearslong drought, efforts to convert "thirsty" landscaping — such as replacing park strip grass with water-wise plants — have grown in popularity, both personally and at the municipal level.

Burton said the grants will help West Jordan continue the work they've already begun.

"With all the (water) we got this past year, everybody's thinking we're out of the problem," he said. "We're not, but we will be if we don't keep using water. We use it and nature replenishes it. We can't control nature's schedule, but we can control the schedule of when we use it, and that's where we have the power to make a difference."

He acknowledged that residents across his city — and the state — have already taken it upon themselves to convert their landscaping to save water.

"Thank you so much for what you've done. You've done a fantastic job," he said. "We asked you to conserve, and you stepped forward and you did it."

— Bridger Beal-Cvetko

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May 3, 2023
Deseret News

Water conservation success in Israel. Can it help Utah, Great Salt Lake?

By Ben Winslow
Fox 13 News

TEL AVIV, Israel — Utah Department of Natural Resources Executive Director Joel Ferry reads an Israeli nursery rhyme to the men and women who oversee Utah's water systems as they ride in a van headed to government offices in Jerusalem.

"Rain, rain from the skies. All day long, drops of water. Drip, drop, drip, drop, clap your hands."

The children's verse sticks in his mind as a stark contrast between how Israel views water and how it's often viewed back home.

"So in America, we say 'Rain, rain, go away, come again another day.' Just inherently, we teach our kids, rain is bad. We don't want the rain here, we want it to go away," he said in an interview. "So if we can become more like Israel and how we respect water, how we treat water, how we live with water."

Israel's innovations in water-conserving technologies and water augmentation have intrigued Ferry, who led a delegation from Utah to the desert nation 7,000 miles away in March.

"The way that they respect water and manage that resource? I think we could really learn a lot," he said.

For five days, Ferry and 14 others from Utah met with Israeli government officials, tech startup companies, agriculture producers and research institutions to look at how they have gone from a nation of water scarcity — to water surplus. They conserve, reuse and desalinate water, heavily investing in technology to make it work.

"Israel is well known in the world, managing a very sustainable and high-level water sector," said Yehzekel Lifshitz, Director General for the Israeli Water Authority, the central agency that handles water for the country.

As Utah struggles to cope with drought and reverse water declines in the Great Salt Lake, the delegation looked at what Israel has done in the past couple of decades.

"My goal at the end of this is to take some of these ideas that are born here in Israel and see if they can fit into our system," said Rep. Casey Snider, R-Paradise, who co-chairs the Utah State Legislature's Great Salt Lake Caucus.

Utah State Engineer and Division of Water Rights Director Teresa Wilhelmson said Israel has "some advancements that we could really think about here for Utah."

Importing ideas

Earlier this year, the Utah State Legislature approved funding for new technologies for water conservation and augmentation, particularly in the agriculture sector. Ferry said the state is looking at whether some Israeli technologies might be applicable to Utah's needs. Beyond that, some in the delegation would like to import Israel's mindset on water.

"It's part of their culture. Water is so valuable to them," said Sen. Chris Wilson, R-Logan, "as it should be to us here in Utah with the second-driest state in the country."

Israel has innovated ways to find water, use it and re-use it and utilizes technologies to help with conservation. The country also enjoys a reputation as a "startup nation" for tech.

"The innovation was incredible the way they're considered a startup nation," said Candice Hasenyager, director of Utah's Division of Water Resources.

Founded in 1948 as a Jewish state, Israel had to find its own water. The country treats water as public property controlled by the state — there are no private water rights. Water policy is set by the Israel Water Authority, said Director-General Lifshitz, who met with the Utah delegation at a long table in a conference room in Jerusalem where he said "all the decisions are made."

A nationalized water system contrasts markedly from Utah, where water is owned and allocated by water districts, water boards and commissions, individual water rights holders, cities, counties, the Legislature, state agencies and the federal government.

"They had one table where they brought together the environmental community, the water community, the agriculture community, you know, the defense, and all of these together saying 'What is in the best interest of the state of Israel?'" Ferry noted.

The director-general and his team walked Utah's delegation through a primer of Israel's water systems. Agriculture uses 56% of the nation's water, and most of that is recycled water. Domestic use (or consumer use) is 38%, while industrial use makes up roughly 4%.

Conservation is ingrained in the minds of Israeli citizens. There have been successful television ad campaigns and public outreach efforts to remind people "Israel is drying."

"I think water conservation to save water, to treat the water, is very important... not to treat water as something that we have enough of. We're going to have less and



Ben Winslow, FOX 13 News
Franz Kolb, the director of international trade and diplomacy for the Governor's Office of Economic Opportunity, center, Rep. Casey Snider, R-Paradise, and Kelly Pehrson, deputy director of the Utah Department of Agriculture and Food, walk in a field near the Center for Water Sensitive Cities in Tel Aviv, Israel, on March 27.

less water in the future due to the climate change," Lifshitz said. "Countries like Israel and Utah probably will suffer water scarcity."

He urged Utah's delegation to keep conservation top of mind.

Water tariffs

To ensure infrastructure and water supply, Israel imposes tariffs for residential, industrial and agriculture sectors. Everyone pays a flat rate whether they live next to the Mediterranean Sea or hours away in the Negev desert, parts of which receive less than 10 inches of rainfall a year. The tariffs pay for pipes and infrastructure.

"There is a water authority that determines the price and it's a unanimous price for everyone," said Lior Gutman, a spokesperson for Mekorot, Israel's national water company. He explained that everyone pays a flat rate for the water they use. "Sometimes it goes up, sometimes it goes down. It depends on the price of energy and it's quite fair."

Israel charges based on use: The tariff rates are \$2.12 per 264 gallons for water used up to 924 gallons. The price jumps to \$3.90 per 264 gallons for additional water used. On average, Israeli water officials said a typical household pays about \$150 a month for water.

Utah officials appeared stunned at such a high water bill.

In Utah, a typical Wasatch Front household pays nearly \$60 a month for water (plus stormwater and wastewater fees) and uses more than 13,600 gallons, according to the Division of Water Resources. About 7,000 of those gallons are used indoors. Property taxes subsidize the bulk of Utahns' water bills, and it varies based on where you live.

Finding new sources of water

The Sea of Galilee — known in Israel as Lake Kinneret — used to supply as much

as 30% of Israel's drinking water supply. It's now less than 10% because Israel has dramatically expanded desalination, taking water from the Mediterranean Sea and extracting the salt to create drinking water. Roughly 85% of Israel's drinking water is desalinated.

With five desalination plants across Israel and three more planned, the nation is leaning heavily into it. The country has a surplus of water now and sells some to Jordan and the Palestinian Authority.

"After four hours, you can use it in your house, you can drink the water, you can wash your clothes, you can cook with it, whatever you want to do," Gutman said of desalinated water.

He showed Utah's delegation around Mekorot's wastewater reuse plant outside Tel Aviv. What's flushed down the toilet or goes down the drain winds up at the plant, which processes water for roughly 3 million people. (Israel's population is roughly 9 million.)

The treated wastewater is then used again. "It goes down to the mid desert, hundreds of kilometers south to be used in the agriculture sector," Gutman said.

The wastewater is used to water crops, which are then sold in markets across the country. Israel reclaims about 90% of its water and uses it for agriculture. Israel is the world's top user of reclaimed water, according to Mekorot.

In Utah, some agricultural areas do use recycled water, but it is limited, according to the Utah Division of Water Resources.

"Think of ways to on the one hand to save water and to use the water wisely and use this treated sewage as another source of water," Lifshitz said.

Startup pitches

At research institutions across the country, experiments are underway to develop new methods for collecting water. The delegation toured a park outside Tel

Aviv that acts as a natural biofilter, collecting runoff stormwater and processing it.

The tech-forward nation also has a number of companies that specialize in water technologies. A number of companies showcasing their software and apps that track everything from water losses to harmful algal blooms made their pitches to members of Utah's delegation.

Barry Gluck, who heads U.S. business relations for the water technology company Wasens, noted the distinctions between Israel and Utah during his pitch meeting with the delegation. Gluck said Israel is "a leader in the world in water technology."

"Apparently, there's a big spread between the savings of water in Israel and in Utah. But using the right technologies and employing them in the right places will certainly help reduce that," he said afterward.

The government invests in startup companies through the Israel Innovation Authority — with no expectation that they succeed.

"We heard about this the very first day on this trip and I was really blown away, for lack of a better term, by the amount of resources that the Israeli government is willing to invest in startups without any return," said Amy Haas, executive director of the Colorado River Authority of Utah.

Israel's tech-savvy reputation and willingness to experiment is something Ferry said he would like to see Utah emulate.

"Ultimately," he said, "my goal (is) I want Utah to be the leader in the United States in water conservation in water development technology and innovation."

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlakeweb.org.



Ben Winslow, FOX 13 News
From left, Candice Hasenyager, director of the Utah Division of Water Resources; Utah Department of Agriculture Commissioner Craig Butters; Yaron Zinger, director of the Center for Water Sensitive Cities; Joel Ferry, executive director of the Utah Department of Natural Resources; and Franz Kolb, director of international trade and diplomacy for the Governor's Office of Economic Opportunity, stand at a natural biofilter experiment outside Tel Aviv, Israel, on March 27.



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

The Ogden River rages down Ogden Canyon on Tuesday. An anticipated drop in temperatures should slow the melting of the state's record snowpack, allowing officials to better prepare for potential flooding.

Reservoir could soon spill over; flood worries could last weeks, official says

East Canyon Reservoir is absorbing more water than it can release.

By JACOB SCHOLL | *The Salt Lake Tribune*

Worries of flooding around northern Utah could very well continue through the coming weeks.

After water spilled into the road through Ogden Canyon early Monday morning, a local water manager told *The Salt Lake Tribune* it could be weeks before the water lowers.

Elsewhere in northern Utah, at least one reservoir — East Canyon, located in Morgan County — could reach its capacity and could spill over in the coming weeks, according to Scott Paxman, general manager of the Weber Basin Water Conservancy District.

"East Canyon is another one that we really worry about," Paxman said Monday. "There's just a ton of snow up

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TRENT NELSON | *The Salt Lake Tribune*

Emigration Creek roars in Emigration Canyon last month. Residents around the region have been sandbagging for weeks in anticipation of runoff from record snowmelt.

Reservoir

■ Continued from A1

there that's got to come down."

He said East Canyon Creek is limited on how much water it can carry without flooding. Paxman said the water district is limited to releasing about 300 cubic feet of water per second, "and there's probably over 1,000 cubic feet per second coming into the reservoir right now."

"It's starting to fill, and in that one, I don't think there's a question that it will probably spill before we're finished with the winter snow melt," he told The Tribune. If the water spills over, there would be no way to ease the flow, and the water would flow downstream uncontrolled. However, it wouldn't mean the dam failed and most dams have spillways to handle overflows.

Elsewhere in northern Utah, emergency crews were dispatched to Ogden Canyon early Monday morning, where they found water had spilled onto the lone roadway that goes through the canyon, according to a Facebook post from the Weber Fire District. Emergency crews later found out the flooding was due to a blockage, and the road was not compromised.

Lisa Schwartz Gosline, Weber County's emergency manager, said those who live in the Ogden Canyon have been sandbagging for weeks.

Paxman said the high amount of water flowing through Ogden Canyon could be here to stay for the coming weeks, as a lot of water needs to be released from reservoirs to keep up with snowmelt.

"It's probably going to stay at that level for the next several weeks, I'm afraid," Paxman said. "So they're not going to get much of a break."

Paxman added there is enough snow left in the Ogden Valley to fill up Pineview, and then some. He estimated between two-and-a-half and three times the total volume of Pineview is still trapped in the mountains above.

"So that's all got to come down — except for what we can fill Pineview with — that's all got to come down and through the reservoir and out the bottom end and all the way to the Great Salt Lake," he said.

The National Weather Service in Salt Lake City announced flood warnings in two parts of Weber County on Monday — one along the Weber River near Plain City in western Weber County, and the other for the south fork of the Ogden River.

To the north in Rich County, Garden City's mayor announced a state of emergency to prepare for flooding. The NWS issued an aerial flood warning for the town Monday, saying in a tweet the warning would be in effect until Thursday afternoon.

The Weber River is expected to pass flood stage Tuesday afternoon and could stay there through Friday, according to the NWS. The Ogden River south fork could be between flood stages from Tuesday to Thursday before peaking Friday morning.

Schwartz Gosline said residents in unincorporated areas of Weber County, like those in west Weber and in Ogden Canyon, can report active flooding by calling 801-395-8221. For those who see active blockages in rivers and streams, residents are encouraged to text a photo to 801-870-5153.

Woman swept away in Weber County

Crews continue to search; Salt Lake City keeping close watch on Emigration Creek.

By SCOTT D. PIERCE | *The Salt Lake Tribune*

Editor's note » *The Salt Lake Tribune is providing free access to this vital story about flooding. Sign up for our Top Stories newsletter, sent to your inbox every morning. To support journalism like this, please donate or become a subscriber.*

Flood warnings and watches remain in effect throughout much of Utah this week, although there is an end in sight to the immediate danger.

After high temperatures hovered in the 80s on Saturday through Tuesday – with highs of about 80 again forecast in Salt Lake City on Wednesday – temperatures will tumble, according to the National Weather Service. The Salt Lake City area can expect highs in the low 70s on Thursday and the low to mid-60s Friday through Wednesday.

That drop in temperatures should slow the melting of Utah's record winter snowpack, which is currently fueling flood risk. Normal temperatures for this time of year are in the mid- to upper 60s.

In the meantime, flooding issues continue to plague the Beehive State.

Surging waters carry woman away

In Weber County on Tuesday, rescue crews continued to search for a woman who was carried away by the rushing Weber River near Uintah on Monday evening. According to Weber Fire District officials, a woman was heard screaming as witnesses saw her caught up in the fast-flowing waters.

The woman is believed to be in her 20s. As of late Monday, the ongoing search along the river became a recovery mission.

Salt Lake City eyes Emigration Creek

In Salt Lake City, officials are keeping an eye on

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Emigration Creek, which is expected to exceed flood stage late Tuesday and Wednesday.

Emigration Creek peaked overnight Monday, but the flow was lower than anticipated, Salt Lake City Public Utilities Department Director Laura Briefer told City Council members Tuesday afternoon. A flood warning remains in effect for the creek through Thursday morning.

The flood-control system has the capacity to handle peak flows, which are currently forecast near 160 cubic feet per second (cfs). But Briefer said teams will be working around the clock to ensure no blockages in culverts or storm drains cause any issues. In mid-April — when a clog in the system sent water spilling down the roadway near Wasatch Hollow Park — flows on the creek peaked at 155 cfs.

If flooding occurs, officials expect it to be minor and limited to roadways. To report issues or concerns about the condition of Emigration Creek, call the Salt Lake City Public Utilities Department's 24-hour dispatch line at 801-483-6700.

"After Emigration Creek does its thing this week," Briefer said, "we are also looking at Parleys Creek and City Creek very carefully, and making sure that the debris basins above Memory Grove are well maintained."

City Creek's flow was just starting to pick up, she said. But the expected cooling-off period this weekend seemed ideal for runoff.

Briefer noted that the Jordan River is not expected to pose a concern in the coming days because there is capacity in both the river and Surplus Canal.

Mudslide in Little Cottonwood Canyon

A large mudslide swept across State Road 210 about halfway up Little Cottonwood Canyon on Tuesday afternoon, pushing thick sludge across the roadway.

At the time, the roadway was already shut down because of elevated avalanche risk. As of 5 p.m. Tuesday, the Utah Department of Transportation had no estimate as to when it may reopen.

Earlier on Tuesday, State Road 190 was closed in Big Cottonwood Canyon amid avalanche mitigation work. The roadway had reopened by about 3 p.m.

East of Provo, a 30-mile stretch of U.S. Highway 89 through Spanish Fork Canyon was shut down overnight Monday because of flooding. By late Tuesday morning, the section of roadway — which stretched from the intersection of U.S. Highway 6 near Thistle to Mount Pleasant — was reopened, but it is possible it could close again, officials advised.

Sugar House Park closed to cars for at least 2 weeks

Sugar House Park will be closed to vehicles through at least May 14. The park is designed as a detention basin, and the area around the park's pond remains flooded by controlled releases from Mountain Dell and Little Dell reservoirs.

There was also flooding Tuesday in Parleys Nature Preserve and Hidden Hollow, both of which are also designed as detention basins.

Officials monitor Hyrum Dam spillway

The U.S. Bureau of Reclamation is monitoring the spillway at Hyrum Dam — on the Little Bear River, about 9 miles southwest of Logan — around the clock as operators release "a high volume of water" to help manage Hyrum Reservoir's water level as warm temperatures "have significantly increased snowmelt and runoff into the reservoir."

A flood watch remains in effect through Friday morning



Courtesy of U.S. Bureau of Reclamation

Water exits Hyrum Reservoir through the spillway southwest of Logan. The Bureau of Reclamation is conducting around-the-clock monitoring of the spillway at Hyrum Dam, as operators are releasing a high volume of water through the spillway to help manage the reservoir's water level as warm temperatures have significantly increased snowmelt and runoff into the reservoir.

for the area below the reservoir.

"The spillway has served us well for 90 years," said the bureau's regional director, Wayne Pullan, "but because of its age and because it lacks the features of a modern spillway — and out of an abundance of caution — Reclamation has worked quickly to stage heavy equipment and riprap material near the spillway, in case we need to take immediate action."

In Paradise, which is just south of Hyrum, a flood warning is in effect for the Little Bear River.

Hyrum Dam was constructed in 1935 and provides storage for irrigation and municipal use.

Garden City flood warning remains in effect

A flood warning remains in effect for the Garden City area of Rich County until 3 p.m. Thursday as snowmelt affects rivers, creeks, streams and other low-lying areas.

Garden City's mayor on Monday declared a state of emergency to help better prepare for flooding and flood mitigation. He encouraged all homeowners to check on their properties, noting that about 80% of houses there are vacation homes or short-term rentals.

Other flood risk across Utah

Farther south, a flood warning along the lower Weber River in Plain City was canceled Tuesday, after an updated forecast called for the river to remain below flood stage, which is 27 feet.

But the weather service warned that flows in the "action range" — between 25-27 feet — will continue into next week. A flood watch in the area remains in effect until Friday evening.

Near Huntsville, there is a "moderate" risk of flooding through Thursday along the south fork of the Ogden River. The river is expected to peak at about 5.3 feet/1,500 cfs on Friday morning, above the flood stage of 4.6 feet/992 cfs. Flows will decrease into the weekend.

In southern Utah, near the town of Hatch in Garfield County, there is a flood warning in effect for the Sevier River. The river is expected to "oscillate" around flood level — 3.9 feet — through Friday morning. Water levels are expected to drop over the weekend.

Tribune reorter **Blake Apgar** contributed to this story.

Sorry, Utah. Wet year doesn't mean 'no wildfires'



Bureau of Indian Affairs

The Red Bridge Fire burns last month north of the Duchesne River on the Uintah and Ouray Indian Reservation.

Fire season may start later, but summer will still bring blazes.

By **MARTHA HARRIS** | KUER

Despite the record snowpack and the everpresent talk of spring runoff and flooding, Utah has already seen over 20 wildfires so far this year.

That figure comes from the Utah Division of Forestry, Fire and State Lands. Kayli Guild, the prevention and communications coordinator, said the fires have been minimal and there's not a high risk — at the moment.

Thanks to the snow, Utah will likely see a later start to wildfire season. But the bounty doesn't erase the risk and the next few months will determine how big of a problem it'll be this summer.

The latest outlook from the National Interagency Fire Center forecasts below-normal fire potential for parts of Utah through May. They are predicting normal levels by July as the summer heat rises.

Fire forecasting is complicated and involves a lot of uncertainty, said Jon Meyer, assistant state climatologist at Utah State University's

Utah Climate Center. So it's hard to predict in April what wildfire season will look like by July.

"There will be a fork in the road that we haven't reached yet and that will come most likely in middle to late June when the summer weather pattern has begun to reveal itself," Meyer said. "And that'll be the point when our forecast outlooks begin to become far more confident in what our summer wildfire season will look like."

One factor that will determine the severity is how hot and dry this summer is, something that's hard for Utahns to imagine at the moment with ski areas still crowing about new records and storms dusting the tops of the Wasatch Front as May approaches.

While all of this precipitation will delay the onset of wildfire season, which is a good thing, Meyer said it's also a double-edged sword. Lots of water and social moisture mean lots of plant growth.

"If the summer stays cool and wet, then the vegetation is happy and continues to grow. But if we get a hot and dry summer, that vegetation dries out and now all of the sudden we've got a ton of fuel on the ground. So any wildfire that does spark has a bunch of extra horsepower to tap into that's very quick, very easy to burn,"

Meyer said.

Another variable is the summer monsoon season, which Meyer said is also hard to forecast. Part of what will determine how the wildfire season looks is how much monsoonal moisture the state gets and when. The seasonal downpours also bring risks of lightning.

"We talk about relying on seasonal cycles to predict wet and dry phases, hot and cold phases. And those cycles are getting more erratic and they're becoming less predictable, which translates to less predictable impacts like wildfire outlooks and flood risks," Meyer said.

In addition to the difficulties it adds to forecasting, Meyer said there are "lots of ways that climate change is loading the dice for our fire season."

Even as state leaders are pleased with what the runoff will mean for the Great Salt Lake and the drought overall, there are a lot of unknowns surrounding what this wildfire season looks like.

"We need to be on the alert and ready for anything," Guild said.

Published through the Utah News Collaborative, a partnership of news organizations in Utah that aims to inform readers across the state.

From mushrooms to school vouchers, here is how Utah's newest laws will change the state

The Utah Legislature passed more than 570 bills this year, and most take effect on Wednesday.

By **BRYAN SCHOTT**

The Salt Lake Tribune

During their annual, 45-day legislative session this year, Utah lawmakers passed 575 bills. And unless lawmakers specify otherwise, most of those bills become law 60 days after the end of the session.

Now, two months after the end of the 2023 lawmaker effort, here are some of the new laws on Utah's books:

Alcohol in Utah

The annual liquor omnibus bill addressed the shortage of liquor licenses by adding 15 new bar licenses and 35 new restaurant licenses. The bill also banned the sale of mini-bottles.

Another change to liquor laws from Rep. Ken Ivory, R-West Jordan, requires bars to retain records, which could include video surveillance footage, during an investigation into whether a customer was overserved. The bill was prompted by the death of 13-year-old Eli Mitchell, who was killed by a drunk driver in 2022.

Education

A controversial change to public education in the state takes effect today. Riverton Rep. Candice Pierucci's HB215 allows state money to send students to private schools or be homeschooled. The \$42 million voucher program, dubbed the "Utah Fits All Scholarship," was piggybacked onto a \$6,000 pay and benefits raise for public school teachers. Legislators took the unusual step of funding the legislation before setting the budget to ensure it would not be the victim of unexpected last-minute cuts.

The expansion of optional full-day kindergarten and a bill to do away with assigning schools a single letter grade based on standardized exam results also take effect ahead of the next school year.

High school seniors may now don cultural and religious regalia at graduation ceremonies under HB103. A similar bill allowing students to wear cultural or religious clothing as part of a school athletics uniform does not go into effect until Jul. 1.

Transgender health care

Lawmakers approved several bills targeting LGBTQ+ issues this year, but the most significant change is already in place.

SB16 from Sen. Mike Kennedy, R-Alpine, bans gender-affirming healthcare for transgender youth. The bill went into effect

immediately when Gov. Spencer Cox signed it on Jan. 28, the day after it won final passage. That change to the effective date was inserted at the last minute by Republican lawmakers during debate on the House floor.

And new law barring transgender youth from changing the gender on their birth certificates until age 16 also went into effect immediately when Gov. Cox signed it on Mar. 23.

But a bill banning all forms of the controversial practice of conversion therapy, and that was supported by some LGBTQ advocates, had to wait until Wednesday to become law.

Water

There are several brand new laws dealing with water issues in Utah.

HB450 says homeowner associations and other bodies cannot block homeowners from replacing lawns with more water-wise landscaping. At the same time, HB150 sets guidelines for how governments deal with water shortages not caused by drought.

A bill creating a new state position overseeing the multiple agencies that govern the Great Salt Lake has a delayed effective date of Jul. 1, which coincides with the new state fiscal year because of the bill's \$15 million price tag.

Emergency shelters

Cities are now required to create plans for emergency shelters for the homeless population when winter temperatures drop to dangerously low levels. HB499 provides funds to help cities establish emergency and overflow winter shelters, but only if they enforce anti-camping laws.

A shrimp and a mushroom

Finally, the number of state symbols has expanded by two. The brine shrimp is now the official state crustacean, while the porcini is the official state mushroom.

More to come

Some of the more contentious bills approved by lawmakers this year will have to wait until next year before they're operational. Utah's first-in-the-nation restrictions on social media use by minors is delayed until Mar. 1, 2024, so lawmakers can iron out any needed changes to the legislation.

Lawmakers also delayed the adoption of a new state flag until Mar. 9, which coincides with the state flag holiday adopted in 2011. Opponents of the switch hope to pressure lawmakers to undo the change in next year's season or put the issue up for a vote on the 2024 ballot.



The Great Salt Lake shows signs of improvement last month near the outflow of the Weber River, where areas that used to be bone-dry just weeks before have been covered with a few inches of water, improving bird habitat and reducing dust.

FRANCISCO KJOLSETH
The Salt Lake Tribune

Great Salt Lake experts take to the sky to view lake's recent growth

This season's record snowpack means good news for the Great Salt Lake. It has already risen a few feet, and the runoff has barely just started.

By MYTHILI GUBBI | FOX 13

This season's record snowpack means good news for the Great Salt Lake. It has already risen a few feet, and the runoff has barely just started.

"Definitely a sigh of relief to see more water, and parts that were previously dry are now covered in water, so definitely a happy time," said Marisa Weinberg, the interim Great Salt Lake coordinator with the Utah Division of Forestry, Fire and State Lands.

Weinberg was one of the passengers on Tuesday morning's "Ecoflight," where experts and enthusiasts fly over the Great Salt Lake to get a bird's eye view.

"You go out there now and you see water kind of almost everywhere," said Timothy Hawkes, a former legislator and general counsel for the Great Salt Lake Brine Shrimp Cooperative. "It's very thin, but it's out there. And that's just really great to see."

The lake has risen over 4 feet after reaching a historic low last November.

"It's incredible to see water now spilling over the berm and into the north arm, and knowing that we have so much snow that is yet to melt and we're just going to see it continue to rise," said Weinberg.

FOX 13 News went up with Ecoflight back in August, and the views from then compared to now are starkly different. Where there was exposed lake bed last fall, now there is actually water filled all over.

"It was kind of devastating to see so many areas of the lake desiccated," Katie Newburn with Friends of Great Salt Lake. "Today to see those areas that were

all exposed just a few months ago now covered back over with water ... that is just so encouraging to see."

You can see water filling wetlands, reservoirs rising, and ponds with more water than they had last fall.

"It's just so good for that ecosystem, it's good for the industries that rely on the lake, good for people that recreate out there, it's good to keep the dust down which is something people worry about," said Hawkes. "Seeing more water is just great on so many levels."

But this past winter doesn't mean the lake is saved.

"Really is just giving us a little bit more time to implement these longer-term measures through policy and management," said Weinberg. "We're not going to let the lake die. There's too many people that care too much."

This story was first published by Fox 13 News. The Salt Lake Tribune and Fox 13 News are content-sharing partners.

Cache County growth limited by water? State says it's all a misunderstanding.

County officials worried that a recent proposal from the Utah Division of Water Rights could be interpreted as a "moratorium" on all new appropriations.

By JACOB SCHOLL | *The Salt Lake Tribune*

Cache County is among the fastest-growing areas of the state, but a recent communication snafu left some county officials worried the state would stand in the way of the county's growth.

In a news release last week, members of the Cache County Council said they were concerned with a proposal from the Utah Division of Water Rights, which the council interpreted as "a moratorium on all new water appropriations in Cache County." The council drafted a letter last Wednesday and sent it to Teresa Wilhelmsen, the state engineer within the Division of Water Rights.

The council wrote the proposed change would, "prohibit any new development in Cache County, unless that development is part of a municipal system or is able to purchase existing water rights."

However, both the state engineer and a county council employee acknowledged the concern about limiting development in Cache County is likely a misunderstanding.

Wilhelmsen told *The Salt Lake Tribune* part of the confusion around the water allocation is based on a meeting in February, which she could not attend in person due to a snowstorm. At the meeting, a PowerPoint slide was titled, "Proposed Policy Changes," and included the idea of Cache Valley being closed to new consumptive water appropriations.

She said last week that notion is subject to change, saying, "that's an option that could be considered, but it's not exactly being proposed." She said there needs to be further studies and input from the public before any decisions would be made.

At the root of the misunderstanding is a proclamation from Utah Gov. Spencer Cox last year. Cox announced in November he was suspending the right to appropriate new water rights in the Great Salt Lake Basin. Cox's announcement did not impact existing water rights, just future ones. As of now, that proclamation is still the law of the land, but that's only until November when it expires.

The concern from Cache officials stemmed from the potential of losing future water allocations forever, according to Micah Safsten, a policy analyst for the Cache County Council. He told *The Tribune* the council's concern from the February presentation was the current water restrictions were going to be implemented by the Division of Water Rights without being approved by the governor.

"While Governor Cox has a right to set this policy as a duly elected official, accountable to the voters of Utah, your office, respectfully, does not," the letter says.

The letter said the council appreciates the need to conserve water, but council members were concerned such a policy would negatively impact Cache County's growth and they wondered if the moratorium would even be necessary.

Though the letter pushes back against the potential restriction on water, the council also asked



JACOB SCHOLL | *The Salt Lake Tribune*

The Old Cache County Courthouse is home to the County Council offices and chambers.

Wilhelmsen's office to conduct a new study on the amount of groundwater is available in Cache County. The most recent study was in 1999, which concluded there were 25,000 acre-feet of unappropriated groundwater in the county. Since then, around 7,000 acre-feet have been appropriated, according to the letter. For perspective, a Utah home needs around 45 acre-feet of water rights to be built.

The county added that the area is a closed aquifer that largely doesn't flow into the Great Salt Lake, aside from some springs that flow into the Bear River. The need to conserve water that flows into Great Salt Lake was at the heart of Cox's proclamation in November.

Wilhelmsen said she appreciated the county's desire for a new study, because that is one of her tasks to complete as part of the proclamation. She added that sometimes her office doesn't get feedback on proposals, and she took the letter as a positive thing from the county.

"We absolutely have to work together," she said, "and I actually was very encouraged by that letter, that they show a willingness in that letter to work together."

Safsten said there is no ill will between the council and Wilhelmsen's office, and the council plans on working with the Division of Water Rights to make a path of sustainable growth going forward. He added the council also plans to meet with other state leaders and members of the Legislature.

"The main point of the (council's) letter is a request to update that 1999 study, to reevaluate the amount of groundwater that is under Cache County," Safsten said. "Particularly the amount of groundwater in Cache County that isn't having any sort of influence on the Great Salt Lake."

Wilhelmsen said part of Cox's proclamation is for her to evaluate whether or not those restrictions are effective, and if it should stay in place around the Great Salt Lake Basin. She is supposed to report her findings to the Legislature in November.

Much has changed in the over two decades since its last groundwater study, but Safsten said county leaders are eager to move forward.

"We fully concede that the conditions have certainly changed since 1999," he said. "Let's just see to what degree."

Mayor's \$445M budget proposal includes plans for Great Salt Lake, e-bikes, air quality

Mendenhall also calls for creating additional investments in affordable housing, giving many city workers raises and adding new positions.

By **BLAKE APGAR** | *The Salt Lake Tribune*

Mayor Erin Mendenhall's fiscal 2024 budget includes funding to kick-start initiatives that protect the Great Salt Lake, help residents gain access to e-bikes and bring more affordable housing to Salt Lake City.

"We're ambitious in our vision and confident in our budgeting," Mendenhall said Tuesday night in a speech to the City Council. "We've weathered many storms, and we've emerged stronger than ever. I'm so happy to present this year's budget proposal to you with great confidence in our 16 departments who do this work every single day."

Mendenhall proposes a general fund budget of nearly \$445 million in the fiscal year beginning July 1. The spending plan is about \$19 million higher than this year — an increase the mayor attributes primarily to inflation.

In addition to funding the slate of Great Salt Lake protection strategies Mendenhall announced at her January State of the City address, the mayor's budget proposes devoting resources to explore the creation of a "Great Salt Lake Shoreline Preserve."

"While establishing such an area would be a multiyear endeavor," she said, "our work through the Public Utilities and Community and Neighborhoods departments will explore what it would take to manage and protect more wetlands and more natural areas on the shores of the Great Salt Lake."

Mendenhall said the idea was brought to her office by a collection of residents, advocates and scientists that included the Audubon Society, the Center for Biological Diversity, Friends of Great Salt Lake, the Rudy Duck Club, and the Westpointe Community Council.

"I want to extend my deep gratitude to the community members who brought this

idea forward to our city," she said. "It's this kind of creative thinking and committed partnerships that will help save our lake."

To protect the city's air quality, Mendenhall said her budget continues funding for student transit passes, expands the network of electric-vehicle charging stations, and extends a partnership with the state to swap out businesses' gas-guzzling lawn equipment for electric alternatives.

The mayor also announced the creation of an incentive program geared toward steering residents from tailpipes to pedals and helping more homeowners gain access to electric landscaping gear.

"It will empower our city's residents to make small but powerful changes in their homes and in the way they commute that can add up to an improvement in our air quality and quality of life," she said. "This could be battery-powered landscaping equipment to purchasing an e-bike. Our residents will have an easier route to access tools that make a direct impact on improving our local air quality through this new incentive program."

Andrew Wittenberg, the mayor's director of communications, said the program envisions offering rebates to residents who would rather plug in to fuel their commute or keep up with yardwork.

Affordable housing and homelessness

Mendenhall said the city has made strides in affordable housing investments, and she wants to press on with that work.

Her proposal includes a nearly \$10 million affordable housing allocation that is split between new investments — which make up about \$700,000 — and ongoing funding from the city and its Redevelopment Agency.

The spending would be in addition to the \$10 million the council is considering as an amendment to this year's budget for a housing program that would allow renters to build equity-type savings.

"I'll say this again because it's critical for everyone to understand that our commitment to lowering the cost of living

in this capital city is real," Mendenhall said. "Over the next month, you, as the City Council, will consider a combined \$20 million in city-led affordable housing investment."

While housing is critical to addressing homelessness, Mendenhall said, the city is a leader in helping unsheltered residents connect with services and keeping public spaces clean and safe.

The mayor is requesting money to beef up the downtown ambassador program, add social workers to medical response teams, and provide tenant relocation services for those facing gentrification-fueled displacement.

"The practicality of increasing these investments only amplifies the need to also strengthen our relationships with county and state partners," Mendenhall said, "to identify much-needed, long-term solutions to include additional shelter space, sufficient winter overflow plans, and the development of mental health and addiction treatment services."

No new property tax increases

Mendenhall's budget does not include a property tax increase. However, a pre-planned public utilities rate increase for water, sewer and stormwater infrastructure will raise bills by about \$10 a month for low-volume water users.

Other requests in the mayor's budget include:

- » \$10.2 million for transportation projects such as urban trails, traffic circle construction and traffic light replacements.

- » \$10.3 million for sidewalks, alleyway improvements, maintenance and concrete work.

- » A 5% cost-of-living adjustment for non-represented employees and market-rate adjustments for jobs that are currently paid below market wages.

- » Creation of a program that reimburses employees up to \$500 a year for quality-of-life expenses, such as ski passes, financial advisers and closing costs when buying a home.

- » 115 new full-time positions to carry out a variety of city services.



RICK EGAN | *The Salt Lake Tribune*

Salt Lake City Mayor Erin Mendenhall speaks last month during a news conference on the Power District development on the west side of Salt Lake City, including a possible Major League Baseball park.

“

I'll say this again because it's critical for everyone to understand that our commitment to lowering the cost of living in this capital city is real. Over the next month, you, as the City Council, will consider a combined \$20 million in city-led affordable housing investment.”

MAYOR ERIN MENDENHALL

Listing priorities while laying out her budget proposal for Salt Lake City.

- » Funding to bring more activity and city staffers to the Ballpark neighborhood to help prepare for a future without the Salt Lake Bees.

"We all share the excitement in this electric atmosphere that's around our city right now, and the infinite possibilities that lie ahead," Mendenhall said. "We are on the right track. Major League Baseball, the National Hockey League, the Olympics and the year-round benefits our residents can gain from these opportunities are knocking at our door. While we may still dream of what that future looks like exactly, I've never been more confident in the strength of our city than I am today."

'IT WAS FANTASTIC'

Pilot revels in Great Salt Lake's wonders

By Amy Joi O'Donoghue
Deseret News

Pilot Gary Kraft has flown over the Great Salt Lake at 15,000 feet, but this week was a different experience.

At an altitude of 1,500 feet, Kraft and his guests were treated to a closer look at the many facets of the largest saline lake in the Western Hemisphere and the eighth largest in the world.

"It was fantastic," he said. "I didn't know the natural beauty of the Great Salt Lake," he commented, after the flight in the Cessna 210 ended.

On Wednesday, the lake was a kaleidoscope of colors. Bright red in the north arm, patches of barren-looking playas, a brilliant blue bouncing off the clear sky and shimmering white squares denoting evaporation ponds. From the air, you could see the causeway berm that separates the saline-filled north arm from the south arm.

The berm was raised four feet in July 2022, but due to this year's snowpack, water flowing into the Great Salt Lake from the south arm is starting to trickle north. The lake has come up 3.5 feet.

EcoFlight is a nonprofit conservation organization that flies mostly in the Intermountain West and treats its guests to views impossible to see from the ground and helps them appreciate the vastness of what nature has to offer. It works to educate people on the importance of critical landscapes, the value of saving them and to bring diverse interests together.

"We're here to create a conversation and get good outcomes that protect our



The railroad causeway is breached on the Great Salt Lake as photographed on Wednesday.

Jeffrey D. Allred, Deseret News

wildlands," Kraft said.

On the 30-minute flight, the plane flew over some flooded farms in western Weber County. This year's record snowpack is turning into a flooding headache for thousands, led to an emergency declaration by Utah Gov. Spencer Cox and has people on high alert over the danger of bulging rivers and streams.

Kraft has flown over the shrinking Salton Sea in southern California, where — like the Great Salt Lake — windblown dust with toxins are a threat to public health.

He, like Katie Ricks, assistant director of the Utah Division of Forestry, Fire and State Lands, worry a wet year like this will

lull people into complacency and long-term fixes will not take priority.

Ricks said it is tough because of the diverse interests at the table: agriculture, industry, water right holders and more.

"It was good to see the lake firsthand," she said. "But even with this water coming in, we are looking for long-term solutions."

The Utah Legislature has spent more than a billion dollars in the last two years aimed at water conservation and tackled policy shifts that are critical, including allowing Ricks' division to obtain or lease water rights for the Great Salt Lake and setting up a \$40 million trust to raise and leverage money for the benefit of the lake.

the EcoFlight tour, hitting the skies on Tuesday.

Two years ago, he organized Blackhawk helicopter tours with the Utah National Guard and was pleased to see the difference after this year's record snowpack. About 80 lawmakers were flown over the lake.

"It was great compared to what we saw before," he said. "It was fun to see a lot more water in the lake ... I am glad to see the system getting back to better health."

With that said, the lawmaker, who secured \$8 million in funding for a turf buyback program, said now is not the time to relax over the fate of the Great Salt Lake.

"We are committed to the idea that it will take more than one good water year to address the lake," he said. "I do worry that people could be lulled into a false sense of security."

While the state Legislature made important progress during the past two years in the arena of conservation and the lake, there's much left to do, he said.

"We still need to keep the pedal to the floor," he said. "There's more work to be done."

He lamented about all the new development he saw from the area, much of it with lush lawns.

"We need to make a shift to better landscaping."

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlakenews.org.

Utah launches statewide turf grass buyback program as it seeks water-use reformation

By Carter Williams
KSL.com

This year's record snowpack has drastically reduced a drought that really began to impact Utah by the end of spring three years ago.

The U.S. Drought Monitor currently lists about 20% of the state in either a moderate or severe drought, while the rest is either "abnormally dry" or under no drought-related designation. It's a significant turnaround from when nearly 90% of Utah was experiencing severe drought or worse in October.

But as he stood on the grounds of the Conservation Garden Park on Monday, Utah Gov. Spencer Cox pointed out that an "unbelievable" winter is only "one piece of the puzzle" when it comes to thinking about long-term water solutions in the country's second-driest state.

"In Utah ... we're either in drought or preparing for the next one," he said. "We need to take action to ensure that we are always prepared."

That's why Utah is launching a new, first-of-its-kind statewide incentive program, which helps Utah residents recover some of the costs of replacing turf grass, so residents can better afford less-thirsty landscape alternatives. The Utah Legislature allocated \$5 million in one-time funds and \$3 million more in ongoing funds during this year's legislative session to kick-start the program.

The state program is through Utah Water Savers, originally founded by the Jordan Valley Water Conservancy District in 2017. Utahns living in areas that have adopted new water efficiency standards for new construction can apply online to receive up to \$3 per square foot of grass they replace with water-efficient landscaping through the new program.

Cox explained that only cities taking a "proactive" approach to future development qualify for the turf grass program, so the state is not paying for buybacks in areas that still have certain grass requirements. A list of eligible municipalities can be found here.

The Central Utah, Jordan Valley, Washington County and Weber Basin water conservancy districts will also match the buyback offered by the state. State officials note that replacing turf grass varies from yard to yard but it typically costs under \$5 per square foot if they do it themselves, though the cost is steeper if they hire a contractor.

Projects replacing grass for a full xeriscape or even a partial Localscape can qualify for the incentive, said Cynthia Bee, a spokeswoman for the Jordan Valley Water Conservancy District, who spoke about the new program on an episode of KSL NewsRadio's "Dave and Dujanovic" last week.

However, there are some other guidelines to qualify.

- A project can't include grass in park strips or areas less than 8 feet in width within new developments.
- No more than 50% of the front and side yard landscaped area in new residential developments can be lawn. This limitation does not apply to residential lots that have less than 250 square feet of landscaped area.
- Lawn areas can't exceed 20% of the total landscaped area in new commercial, industrial, institutional or multifamily development common area landscapes — outside of any recreation areas.



Gov. Spencer Cox speaks during a press conference at the Jordan Valley Water Conservancy District's Conservation Garden Park in West Jordan on Monday. Officials announced a statewide water-wise landscaping incentive program to encourage residents to replace grass with water-efficient landscaping.

The state also unveiled a new public awareness advertisement campaign called "Grass Doesn't Belong Everywhere," which will appear on billboards, social media spots and other mediums across the state, as it begins to find ways to reduce future water waste.

Outdoor irrigation accounts for about 60% of all residential water use, according to the Utah Division of Water Resources. Its officials say that cutting back by one lawn watering can save about 3,000 gallons of water, for residents who live on the average quarter-acre lot yard with about 0.17 acres of green space.

Rep. Doug Owens, D-Millcreek, who also helped craft the program, notes that the point of the program is to reduce the amount of water used on ornamental lawns because it's not really helping anyone to have the traditional landscape.

"When you water your yards, 100% of that water gets depleted, so we've got to be smarter about how we landscape in our state going forward," he said.

Utah's new turf grass program doesn't mean Utah will begin to have lots of dirt and stone landscapes like Las Vegas, he added. It's one of the reasons why there are still vegetation requirements in place. In fact, state officials intentionally chose to announce the program at Conservation Garden Park because it showcases beautiful and innovative landscapes that don't use as much water as turf grass.

Monday's announcement follows several efforts made by state and local officials when it comes to watering lawns, including programs aimed at replacing park strips outside of homes and businesses.

It also builds on other efforts to reduce water consumption, Cox said. For instance, the Legislature also added \$200 million to the state's agriculture optimization

program, which helps farmers and ranchers afford changes that reduce how much water they consume. It's estimated that agricultural irrigation accounts for between 75% and 85% of all Utah's water consumption.

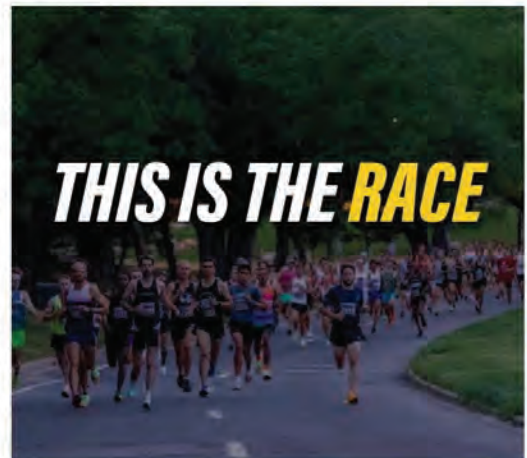
The governor also said that other investments are going toward technologies that help capture water during times of abundance so it can be used during times of scarcity so that the state doesn't "squander" a year like this one. That includes water banking and groundwater recharge projects, on top of incentives to cut back on outdoor

irrigation. Utahns should continue to find ways to continue to conserve after billions of gallons were saved over the past two years, Cox added.

"Water conservation across all sectors is critical," he said. "With the demand for water increasing across the state, we need to find ways to use water more efficiently and to reduce waste... We desperately want this to be a place where our kids and grandkids can live, and the only way we're going to be able to do that is if we're smarter about the way we're using water."



The Jordan Valley Water Conservancy District's Conservation Garden Park in West Jordan shows off examples of water-wise landscaping on Monday.



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Snow coats Stansbury Island and dry sections of the Great Salt Lake in February. Experts say that record snow this year likely added a few years to the lake.

TRENT NELSON
The Salt Lake Tribune



Great Salt Lake likely gained 2 years from record snowpack

But experts warn that unless drastic changes are made in the state's water consumption habits, the ecosystem soon will collapse.

By CARTER WILLIAMS

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlakeneews.org

Kevin Perry isn't completely surprised by this year's record snowpack.

Utah's snowpack, a measure of the water contained within the snow that falls in the mountains, reached 30 inches statewide this year for the first time since the Natural Resources Conservation Service began calculating the number in the 1930s. There actually is more than 40 inches at two of the three basins that feed the tributaries that dump into the Great Salt Lake.

Perry, a professor of atmospheric sciences at the University of Utah, explains that about every 12 or 13 years, there is a major precipitation spike — seemingly out of the blue. It happened in 2011 and 1997, as well as that remarkable run between 1982 and 1984.

"That's due to circulation patterns in the ocean," he says. "Most of the time, we get this one big year and it only lasts one year. Occasionally, we'll get two years out of it."

This year's wintery onslaught couldn't have come at a better time for the Great Salt Lake, though, which fell to its lowest level on record for the second-straight year in 2022. The levels recorded at the U.S. Geological Survey's Saltair Reef Harbor site had dipped to 4,188.7 feet elevation by November.

It now is back to 4,192.7 feet, as of Thursday morning, gaining 4 feet since hitting that record low. The lake's recent recovery, however, is actually a mixture of natural and man-made factors.

The primary reason is, of course, the record snowpack melting is feeding into the Great Salt Lake. It helps that multiple water management agencies, such as the Central Utah Water Conservancy District and Salt Lake City Department of Public Utilities, are sending more water to the lake than usual to avoid flooding concerns in the valleys.

But also, the Utah Division of Forestry, Fire and State Lands raised its berm at the Union Pacific Railroad causeway to divide the lake in an effort to control salinity levels in its southern arm and allow it to fill up faster. Now that the arm's levels are beginning to exceed the berm's height, Perry said the lake's recovery will likely slow down a bit since the incoming water will fill the whole lake and not just one of its halves in the coming weeks and months.

"I still suspect that we're going to get another 2 to 2½ feet out of the snowpack melting, so that will put us up to about 4,196 (feet), something like that, at the end of the spring," he said.

It is a huge development but it doesn't change the lake's long-term outlook, adds Perry, one of the lake's leading researchers. This winter's remarkable snowpack instead offers a few more years before the lake's ecosystem potentially collapses, unless drastic changes are made in the state's water consumption habits.

The lake's long-term outlook

Dozens of researchers warned the lake "as we know it, is on track to disappear in five years," in a damning report released in January. The team singled out excessive water consumption as the leading culprit, as the lake has lost 73% of its water and 60% of its surface area since 1850.

Perry isn't one of the report's many authors but he also believes many people misinterpreted this study when it was first released. He explains that, yes, it would still be a Great Salt Lake in five years; however, if water consumption trends continued without much change, it wouldn't be recognizable anymore.

"It will be dead," he said, pointing out that salinity levels were already on the brink of killing off brine shrimp at the time the report was released. "The salinity would be so high (that) the brine shrimp and brine flies will all be gone and the birds will all be starving."

So how did this year's record snowpack and spring runoff impact the lake's future?

Salinity levels fell from 19% to about 16%, a high percentage but within the brine shrimps' tolerable range, Perry says. The raised berm likely saved the lake's ecosystem from falling apart early.

He also estimates that this year likely adds two years to the report's findings, based on the runoff that has already happened and what's likely to come this year. When taking into account the typical summer loss, he projects that the lake will be about 4,192.6 feet to 4,193 feet by the end of the year, close to current levels.

"What that has done is that it's reset the clock on the five years," he said. "This wonderful snowpack has bought us 2 to 2½ more years or so in order to help our conservation measure actually start to kick in, so we can start using less water so we can put more water in the lake."

Ben Abbott, assistant professor of ecosystem ecology at BYU and one of the study's researchers, said he agrees with Perry's assessment, calling this year's snowpack a "short-term windfall."

The reason that it isn't longer is that the lake's drop was so significant during the most recent drought that ravaged Utah. So, even with the massive gains happening this year, the projected level at the end of the year mirrors levels recorded at the end of 2020 and the spring of 2021.

In addition, both this year's outlook and the spring 2021 levels are well below May 1 levels over the past decade and the lake's overall 33-year median level, per U.S. Geological Survey data.

And while the current drought continues to ease up as a result of the record winter, the West remains in the grip of a megadrought, a series of droughts over the past two decades. It may last another decade based on the studies of other megadroughts in the past, Perry asserts.

If there is a normal snowpack again next winter, which is entirely possible because of the circulation pattern, drier conditions are more likely to return in the years that follow, much like what happened after 2011.

In short, this is why researchers say the Great Salt Lake remains in trouble despite the prolific winter.

Preserving the lake, reducing consumption

It also is why state and local leaders haven't changed their water use messaging as warmer temperatures return.

Salt Lake City Mayor Erin Mendenhall referenced Perry's work as she unveiled her proposed 2024 fiscal year budget to the Salt Lake City Council on Tuesday. Her plan includes a new Great Salt Lake Shoreline Preservation area, in coordination with several groups, including the Audubon Society and the Center for Biological Diversity.

"Our namesake's well-being and long-term viability (are) still critical and urgent," she said.

New water conservation efforts also are underway for the first time since the report came out. In addition to the new preserve, Mendenhall called on the council earlier this year to approve a plan to send about 13 billion gallons of reclamation water directly to the Great Salt Lake every year. It is unclear when that will begin.

Meanwhile, Utah Gov. Spencer Cox rolled out a new statewide turf grass buyback program this week, which has the potential to cut back on how much municipal water is used on lawns. The state estimates that about 60% of all municipal water is used for outdoor irrigation.

At the same time, the Utah Legislature added \$200 million to the state's agriculture optimization program, assisting farmers and ranchers as they look for more efficient ways to use their water. It is estimated that agricultural irrigation accounts for between 76% and 85% of all Utah's water consumption. The state's water leasing plan is expected to take off this year, as well.

These efforts, Perry says, have the potential to provide more water for the Great Salt Lake. He is a part of the strike team that released a different report in February finding Utahns use about 30% beyond the normal water runoff, which is a key reason for the lake's decline especially during the megadrought.

The report also found water optimization and water leasing programs, where water rights owners temporarily lease their rights so the water flows into the lake, are the most efficient and feasible ways to get water to the lake, likely cutting into that 30% figure. But the lake's future depends heavily on those programs and other water cutbacks to take effect and work.

Until then, Utah will need more above-normal snowpack years to get water into the lake.

"Even if we have a normal snowpack next year, if we use the same amount of water we've been using, the lake will shrink again next year," he said. "Don't be fooled by this one big year. We're still in this dry period."

Flooding updates: Three Utah rivers to watch, and unsettled weather to continue

Officials urge people to keep pets leashed around rushing water, even in off-leash dog parks.

By **KOLBIE PETERSON** | *The Salt Lake Tribune*

Editor's note » *The Salt Lake Tribune is providing free access to vital stories about flooding. Sign up for our Top Stories newsletter, sent to your inbox every morning. To support journalism like this, please donate or become a subscriber.*

Two Utah waterways will be under a flood warning and one will be under a flood advisory this week due to rapidly changing temperatures, the National Weather Service said Saturday.

A flood warning is in place for the South Fork of the Ogden River, according to the weather service, which says spring runoff will result in flows exceeding flood thresholds near Huntsville in Weber County. The river is expected to stay at flood stages throughout much of the week, then peak Thursday morning at around 5.1 feet.

Near Hatch in Garfield County, the Sevier River will see minor flooding starting Monday afternoon, the weather service said. The river will then hover around flood stage through Wednesday before peaking at 4.1 feet Wednesday morning. Flood stage for the Sevier River in the Hatch area is 3.9 feet.

In Corrine in Box Elder County, snowmelt and increased reservoir releases will cause flows in the Bear River to rise, the weather

Please see FLOODING, A3



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

Parleys Creek surges through Sugar House Park, which remains closed as high water levels continue to fluctuate last week.

Flooding

» Continued from A1

service said in an advisory Saturday. The river was expected to rise to 15.4 feet Sunday evening — flood levels are at 15.5 feet. Minor flooding is expected from Cutler Dam and on agricultural land and roads adjacent to the Bear River near the Great Salt Lake.

The Salt Lake Fire Department reminded people that with waterways running high, pets should be

kept on a leash when recreating around streams and rivers, even in the off-leash dog parks of City Creek and Tanner Park, where Parleys Creek is located.

“The water is flowing faster than you might think, and your pet can be overtaken and swept away,” the department tweeted. “This season we have already seen two dogs swept away in the fast current of Tanner Park.”

The department said that if a child or a pet is swept away, call 911 immediately, give the location

where the person or pet was last seen, and do not attempt to enter the water.

This week’s weather forecast

The weekend’s unsettled weather will mostly continue this week, with a chance of showers Monday in the Salt Lake City area, according to the weather service. Tuesday will be partly sunny with a high of 72 degrees, then rain will return Wednesday, Thursday and

Friday, with a forecast high in the 60s on all three days. The sun will return next Saturday, with a high around 75.

St. George can expect sunny and pleasant weather this week, with highs mostly in the 80s. Next Saturday, the high is forecast to rise to 90 degrees.

Be careful in Little Cottonwood Canyon

The Utah Department of Transportation tweeted that due to the

possibility of landslides, avalanches and mudslides, Little Cottonwood Canyon could close at any time. It urged visitors to “be prepared,” since State Route 210 could close after you enter the canyon.

The department told drivers to beware of rockfall as well since hillsides have become “saturated” with snow, “causing rocks of all sizes to come loose at times.”

UDOT also warned drivers that flooding and mudslides could occur this summer, once monsoon season begins.

IN CASE YOU MISSED IT



Kristin Murphy, Deseret News
Miguel Jimenez and Andy McNeil chat in McNeil's garage as water from snowmelt rushes past them in Emigration Canyon on May 2.

Governor calls special session to address flooding

Gov. Spencer Cox is calling the Utah Legislature into a special session on May 17, his office announced.

In a proclamation issued late Friday afternoon, the governor laid out three items requiring “immediate” legislative action, the first being to ask lawmakers to extend a state of emergency “to address flooding in Utah communities” and the “risks of flooding, landslides, mudslides and other impacts from this winter’s record-breaking snowmelt.”

The record winter left the state with an unprecedented snowpack — Alta Ski Resort reported over 900 inches of snow — and as temperatures rise, so does the risk of flooding, landslides and avalanches.

Cox is also asking lawmakers to reallocate funds “to address the costs of snow removal, flooding, flood response and mitigation.”

Under a change to state law made during the COVID-19 pandemic, emergency orders issued by the governor can last no longer than 30 days, and legislators must be notified within 10 days of expiration if an extension is needed.

Legislative leaders received that notification early Friday, the state Senate’s chief of staff, Mark Thomas said. Thomas said the flooding emergency could be extended during the special session until mid-August, and again after that if necessary.

“I think it’s pretty clear and obvious that we’re in the thick of it with flooding, and everyone agreed that we ought to move forward,” Thomas said. He said he hasn’t yet heard how much money will be needed by the Utah Department of Transportation and other agencies.

House Speaker Brad Wilson, R-Kaysville, said in a statement that he’s looking forward to the special session as an opportunity “to plan and prepare for the needs of our state” as the weather changes.

— Kyle Dunphey and Lisa Riley Roche

Will City Creek or Big Cottonwood Creek flood? An update on hydrologists' forecasts.

So much snow left to melt, and low-lying residential areas could be at risk as runoff increases.

One fun aspect of this data column is the ability to bounce to whatever the topic du jour is — after all, there's not much that can't be looked at analytically to at least some degree.

In Utah at this moment, that topic is our melting snowpack — and whether or not it will result in flooding. And at every turn, I've been impressed at the wealth of information available from regional hydrologists and forecasters (tools I shared with you in our first flooding column a few weeks ago).

In this update, I have new information on the likelihood of City Creek flooding, along with an updated monthly water supply forecast that helps us nail down where we'll see extraordinary snowmelt — and where we won't. Finally, we'll look again at the short-term flooding forecasts, in terms of what to expect over the next 10 days all over our state.

Let's get started.



ANDY LARSEN

New monthly water supply forecast

This section isn't a flooding forecast, to be exact, but instead a water supply forecast. The United States Department of Agriculture's National Resources Conservation Service issues these forecasts that reflect how much total water it anticipates to flow through a certain

stream over the course of months, in this case, from May to July. This information is used by farmers and ranchers, along with those who decide how much water to keep

in Utah's reservoirs vs. sending it further downstream. They issue these forecasts on the first of every month.

Here's the May 1 forecast for the major creeks affecting Salt Lake County.

If you'd like, you can compare them to the April forecasts posted here. As you'd expect, we have a little bit more certainty in May than we had in April, so the ranges of projected outcomes are tighter.

We look even more poised for record-setting streamflows in Big Cottonwood Creek — we'll dig into that in a second. In Little Cottonwood Creek, there's about a 50/50 chance we set a new record in the total amount of water that will pass through — though reaching flood stage is currently not considered likely. Meanwhile, further north, we've seen enough to expect those water supply numbers to likely or certainly fall short of the record, though still stand multiples above what would happen in a normal year.

Looking elsewhere around the state:

» The USDA projects the inflow to Pineview Reservoir in Weber County will be about 460% of a normal year — which would tie the record set in 2011. It could be more.

» The median projection for the Colorado River station at the Glen Canyon Dam is 174% of a normal year, well below the record set of 272% in 1917. Farther east, the Colorado River station near the ghost town of Cisco, Utah projects water supply of 156% of a normal year, but well below the record of 261% set in 1984.

» It's a similar story for the San Juan River near Bluff: a median projection of 174% of normal, but well off the record of 399%. Expect a good amount of water down in Southeastern Utah, but it won't be the highest in history.

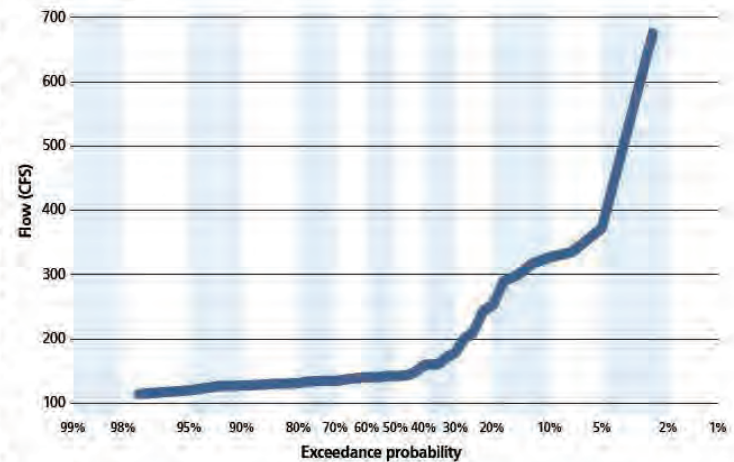
BIG COTTONWOOD CREEK

I want to zoom in on Big Cottonwood Creek, though, because of those expected record-setting flows referenced above.

We have lost a significant amount of

Chances of exceeding river flow at City Creek near Salt Lake City

For the period May 9 - Aug 7, 2023. This is a conditional simulation based on current conditions as of May 9, 2023



Source: National Weather Service's Advanced Hydrologic Prediction Service. GRAPHIC BY CHRISTOPHER CHERRINGTON | The Salt Lake Tribune

snowpack already in the last week of April and the first week of May — but there's still much more snow left to go. Whether or not we see that all come down at once or more slowly will determine whether there's flooding.

How likely is each outcome? Here's the Colorado Basin River Forecast Center's projections:

What we see is an over 50% chance of getting past the creek's flood stage at 798 cubic feet per second. Furthermore, the CBRFC predicts a month-long wide window for when that peak could occur, anytime between May 22 and June 22.

There's also a decent chance of more significant flooding: a 25% chance of reaching at least 856 cubic feet per second, and a 10% chance of reaching 947 cubic feet per second. That would surpass the historical peak of 925 cubic feet per second set back in 1984.

What would each stage mean? From the National Weather Service:

» At 798 cubic feet per second, minor flooding will occur to areas adjacent to Big Cottonwood Creek. The main areas affected will be those most susceptible to bank erosion at higher flows, and those located close to the creek. The flooding will threaten those areas from the outlet of Big Cottonwood Creek to the Jordan River.

» At 861 cubic feet per second, moderate flooding will occur in Murray Park and downstream areas of Big Cottonwood Creek. Many low lying residential areas along the river will receive flood damage.

» And at 893 cubic feet per second, major flooding will occur all along Big Cottonwood Creek from the outlet of Big Cottonwood Canyon to the Jordan River.

So if you live along Big Cottonwood

Creek, it's probably prudent to watch the CBRFC's forecast, at least from late May through most of June.

CITY CREEK UPDATE

We're only as good as the information we have.

I want to give a quick update on the story I wrote two weeks ago with regards to the likelihood of Utah's City Creek flooding.

You see, at one point — the critical point in which my article was written, actually — the National Weather Service's CBRFC projected nearly a 100% chance of City Creek flooding during this season, simply due to the amount of melting snow runoff expected. However, after my article was published last week, that percentage chance of flood flows dropped to about 25%.

What happened? Well, the weather service updated its estimate of what level of stream flow would cause flooding.

In particular, the CBRFC had previously said that a flow of 103 cubic feet per second would cause flooding in areas of Salt Lake City at North Temple and around 400 West. That, forecasters said, was due to previous flooding that had occurred at that level of runoff.

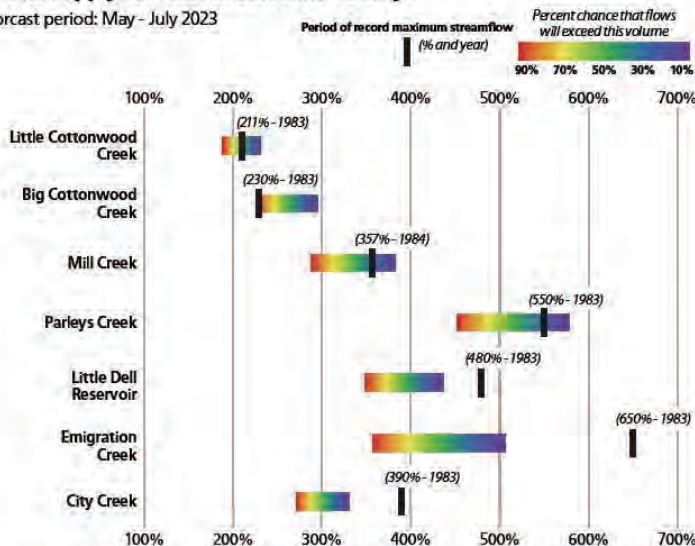
But it turns out that that was an out-of-date estimate of flood flow. Since then, Salt Lake City and Salt Lake County have upgraded City Creek's infrastructure so that it can contain way more water.

So now (and only updated after the article was written), the CBRFC's new estimate of the level of flow needed to cause flooding is 210 cubic feet per second. It's also worth noting that Salt Lake City

PHOTO BY ANDY LARSEN, AA

Water supply forecast in Salt Lake County

Forecast period: May - July 2023



Source: US Department of Agriculture's National Resources Conservation Service National Water and Climate Center. GRAPHIC BY CHRISTOPHER CHERRINGTON | The Salt Lake Tribune

Note to readers

The Half Full comic is being retired. Its last appearance will be on Thursday, May 18. Thanks, as always, for reading.

Larsen

Continued from A2

Public Utilities officials think they'd likely even be fine above those levels. They say that they'd be able to divert some of those flows if need be, so even those much higher capacities may be an underestimate.

Still, even just the increase of flow from 103 cubic feet per second to 210 has a major impact on the likelihood of flooding. Here's the most recent forecast chart indicating City Creek's peak flow likelihood:

Imagine a horizontal line across this graph at 103 cubic feet per second — you can see that flows above that level are extremely likely.

Now imagine one across the graph at 210 cubic feet per second — there's probably about a 25% chance that happens.

The previous story (in print, anyway)

Daily peak flow forecast magnitude

Exceedance probability	Mean dail flow (cfs)
Maximum	1,064
10%	947
25%	856
50%	800
75%	737
90%	692
Minimum	672

Note: Magnitude and timing are independent forecasts
Source: Colorado Basin River Forecast Center

showed the older, inaccurate information; the online version was updated within hours, but still showed some older info for

Daily peak flow forecast timing

Exceedance probability	Date of peak
Latest	July 2, 2023
10%	June 22, 2023
25%	June 11, 2023
50%	June 6, 2023
75%	May 28, 2023
90%	May 22, 2023
Earliest	May 19, 2023

GRAPHIC BY CHRISTOPHER CHERRINGTON | The Salt Lake Tribune

a while there.

Of course, the forecast can change. What would have to happen for City Creek to

flood this spring?

"It's unlikely we will see flows reach free flow critical thresholds this year," Glen Merrill, senior hydrologist at the Salt Lake City weather forecast office told me, "unless we get a prolonged large rain on snow event during the peak melt period, or a much more significant heat wave that will melt both the remaining southerly facing snowpack in the upper canyon, and the more significant northerly facing snow which exists to lower elevations, at the same time."

But in the end, flooding in City Creek looks less likely than I thought previously — not so much because circumstances have changed, but because how they're reported to us in the public have.

Andy Larsen is a data columnist for *The Salt Lake Tribune*. You can reach him at alarsen@sltrib.com.

Flood warnings continue in Utah — and it's going to get hot

A man was hospitalized Sunday after he was rescued from the Jordan River.

By SCOTT D. PIERCE | *The Salt Lake Tribune*

Editor's note » *The Salt Lake Tribune is providing free online access to vital stories about flooding. Sign up for our Top Stories newsletter, sent to your inbox every morning. To support journalism like this, please donate or become a subscriber.*

As Utah temperatures rise and snow melts, minor to moderate flooding is expected in several areas — and officials are keeping a watchful eye on several other spots.

A flood warning remains in effect for the south fork of the Ogden River near Huntsville. According to the National Weather Service, the river will be at minor flood stage until further notice.

Officials ordered two homes near Huntsville evacuated on Sunday because of localized flooding; 10 others voluntarily evacuated. Dozens of homes are being affected by the flood waters, according to Weber County officials.

A bridge on the river above Huntsville is also at risk of erosion. Crews are working to divert the flow around the bridge to prevent it from being washed away and, potentially, obstructing the Weber River downstream, according to Weber County officials.

The flood warning is expected to continue for several days.

More flood warnings:

» A flood warning remains in effect along the Bear River in eastern Rich County. Moderate flooding is expected to continue from around Woodruff up to the Utah/Wyoming border on agricultural land and low-lying roads adjacent to the river. The warning continues through Friday.

» A flood warning remains in effect until further notice for the Sevier River near Hatch, affecting Kane, Sevier, Garfield, Iron and Piute counties. According to the National Weather Service, snowmelt and increased reservoir releases is causing high river flows, and minor flooding is expected, with minor damage possible for some bridges and low-lying structures.

» A flood warning is in effect until 7:45 p.m. on Thursday near the Strawberry River as it enters the Strawberry Reservoir in Wasatch County. Flooding is currently hampering access to the reservoir's marina.

» There are also flood advisories in effect for the Blacksmith Fork River near Hyrum and the Bear River near Corinne until further notice.

Man falls in Jordan River

A 30-year-old man was hospitalized in critical condition on Sunday after he fell into the Jordan River at about 4:15 p.m., according to South Salt Lake police.

First responders entered the river to rescue him. No update on his condition was available Monday.

South Salt Lake police urged "extreme caution" near streams and rivers.

"With the record snowfall melting, our streams and rivers are flowing higher and faster," police said. "This makes accidental falls significantly more dangerous."

Temperatures will rise

According to the weather service, high pressure is building over Utah, which is fueling a "warming trend" that will take temperatures well above normal across much of the state this week.

In the Salt Lake City area, the forecast calls for highs in the low to mid-80s through Friday, and even warmer over the weekend, with a high of 88 forecast on Saturday and 90 on Sunday. That's 10-15 degrees

above normal for this time of year.

There is a 20% chance of afternoon showers and thunderstorms Monday-Wednesday, rising to a 50% chance on Thursday.

This week's high temperatures have caused some waterways in northern Utah to breach their banks.

In Cache Valley, water could be seen above the banks of the Little Bear River and Logan River early Monday.

Nathan Daugs, manager of the Cache Water District, said as of Monday there were no immediate risks of flooding outside of regular spillways, but noted the risk of flooding will only increase in the coming weeks.

"We've been pretty lucky so far," Daugs said. "I'm glad there's not been significant flooding."

However, he added that the above-average temperatures could change his outlook. Cache Valley could see highs into the 80s this week, and Daugs said that could lead to more water covering roadways, which is already happening for a small handful of roads in the county.

South of Cache, water managers are also monitoring waterways.

Scott Paxman — general manager of the Weber Basin Water Conservancy District, which covers Weber, Davis, Summit and Morgan counties, among others — said the area's peak water flows could take place as early as the end of this week, which could spell localized flooding.

Still, despite flooding along the south fork of the Ogden River, Paxman said this spring has been close to ideal.

"We couldn't have asked for a better spring, really," Paxman said. "It's been cooler, for the most part, which has allowed a lot of that lower- and mid-level snow to come down really reasonably."

Around 50% of the area's snowpack has melted off, Paxman said. Much of the remaining snow sits in high elevation levels, which typically melts off more slowly. He still expects East Canyon Reservoir in Morgan County to spill over at some point this spring, but said that prospect is several weeks away.

"Unless the weather really throws a foul ball at us or something and turns to upper 90s immediately, I think everything looks good," Paxman said Monday morning.

In southern Utah, it will also be about five degrees hotter than normal. Temperatures in the low 90s are expected in the St. George area through the upcoming weekend. Not much precipitation is expected, but there is a slight chance of showers and thunderstorms on Thursday.

Elsewhere in Utah

» Salt Lake County and the Utah Department of Transportation are working to protect the Big Cottonwood Water Treatment Plant from possible flooding.

» State Road 89 through Spanish Fork Canyon is expected to reopen sometime on Monday. It has been closed at Thistle because of flooding.

» The Garland City culinary water treatment plant continues to be impacted by flooding. Overflow is being pumped from the treatment facility in northeastern Box Elder County.

» The U.S. Bureau of Reclamation, Utah Division of Water Resources and Cache County continue to monitor the spillway at Hyrum Dam, near the southeast corner of Hyrum City, for potential high-flow releases into the Little Bear River.

» The Bureau of Reclamation is still monitoring the Causey Reservoir, 15 miles northeast of Ogden. Overflow into the spillway began May 4 and is ongoing.



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

A group of kayakers navigate the high flow of the Ogden River earlier this month. Moderate flooding is expected in several areas around the state as temperatures rise and snow melts.

Reservoir operators bracing for high runoff, making room for snowpack

By Amy Joi O'Donoghue
Deseret News

There are a lot of phrases to describe what is going on with Utah reservoirs as managers gird for the runoff from a record snowpack year.

"It is a lot of balls up in the air that we are juggling," said Darren Hess, assistant general manager and chief operating officer of the Weber Basin Water Conservancy District.

"It is a bit nerve-wracking. But we have professionals who have worked their whole careers on these type of things and understand the watershed. They understand the system."

After years of drought, Mother Nature came through this year, and came through big, delivering record snowpack, and with that comes record runoff in many locations.

"We never quite thought we would see this," Hess added. "It is crazy to think about how much snow is piled up in the mountains."

Coordination is key

Weber County Engineer Gary Myers is in constant contact with basin employees and the state Department of Natural Resources as a bevy of people wrangle with the raging Weber River and try to keep it under control.

"It's been a miserable couple of months," he said. "It is kind of like this delicate dance that we are playing in terms of how much water to release, how much water to keep in the reservoirs to make room for the snowpack that is bound to come. It is a dicey situation to be sure. But I think any infrastructure work that was done downstream is certainly helpful when it comes to flooding that might impact people's property."

Hess said Pineview Reservoir has already been sending water to the Ogden River, which meets up with the Weber River around 12th Street in Ogden. Any flooding that has happened downstream has been the result of controlled releases, he added, as operators are jockeying to make room for more water.

The basin is trying to keep Pineview as empty as possible, although that is difficult with an over-the-brim Causey Reservoir upstream that is at capacity. It empties into Pineview.

Benjamin Quick, general manager of the Ogden River Water Users Association, the South Ogden and Weber-Box Elder conservation districts, said people are hungry for full reservoirs right now, but that is not going to happen — not yet.

"Regardless of how badly people want a full reservoir, we are trying to protect the infrastructure and lives," he said. "Right now, what water comes in has to go out."

And Quick emphasized strongly this is not a guessing game for any of the water associations, system operators or anyone else involved in the intricate game of managing water that many people don't understand — in times of drought and times like this year.

"They are not doing this willy-nilly. Just about every scenario has been analyzed."

But consider this reality that keeps reservoir operators up at night, with a bottle of antacids at their side:

- Pineview's capacity is 110,000 acre-feet. The runoff forecast calls for 300,000 acre-feet that has to run through the dam with the anticipated runoff. That is 2.5 times the capacity.

- Pineview and other reservoirs in the Weber Basin system are deliberately being kept low to make room for the water that hits the Weber River. Rockport is hovering at 26% capacity, while Echo is less than half full at 45%.

- In the 1950s, the Weber River at the mouth of the canyon was roaring at 8,000 cubic feet per second. The basin is trying to keep that number at 3,500 to 4,000. The Weber River blew out its banks in the lower reaches in 2011 due to high runoff, flooding homes in western Weber County.

Planning for flooding

Weber County Engineer Myers said since then, there has been a \$26 million investment with county, state and federal funds to try to prevent that from happening again.

Crews cleared the river and various channels of debris and gates were installed at the Little Weber River, which takes the strain off the Weber River.

Myers said that previously, that relief valve was inoperable, putting more pressure on the system.

This way, water can be diverted from the river and flow



Causey Reservoir is pictured on May 8. The water level at the reservoir is at 117% of normal, according to snoflo.org. Kristin Murphy, Deseret News

from the Warren infrastructure out through the Ogden Bay Waterfowl Management Area and into the Great Salt Lake.

But it is not in an ideal location, and Myers said the county has already had to give advance notice to a cattle rancher, because the Little Weber River runs right through his property and he had to move his cattle.

Myers said the Weber River banks blew in 2011 with water flowing at 3,300 cubic feet per second. This year, they have had surges of 4,300 cubic feet per second, and they have not blown a bank. So, the work paid off.

But the location of the diversion makes it tricky.

"By the time the water gets to the point where the gates are located, most of that is a populated area of Weber County already. So, it would be better if it passes through an unpopulated area so it does not put anyone in danger. But unfortunately, we don't have that luxury in this day and age because most of the ground that could be developed, has been developed."

Myers said they started seeing the high flows back in March and have been planning and watching, and watching some more.

"It has been a long stretched out duration and you know when things flow and that high water starts to appear in places where it normally isn't, it can be alarming to people, especially on the heels of this drought. So people are nervous, and rightfully so."

Overall, about eight miles of waterway were improved, including the Little Weber River and its channels.

Myers said he has to "tip his hat" to the people at Weber Basin Water Conservancy District and the Utah Department of Natural Resources, which manages the Ogden Bay Waterfowl Management Area, where that excess water flows.

"When we saw the amount of snow piling up clear back in January, we started talking to the managers at Ogden Bay and started coordinating with them," he said. "As a result, when the flows started to escalate and ramp up back in March, the state partnered with us and they opened their gates as wide as they could and they have been open nonstop ever since."

Myers said when you have a clear path for that water to move through, there is a lot less that gets backed up in the main channel and that is a lot of relief to residences. "They've been absolute rock stars to work with this year."

That early coordination that began in January has been critical, he added.

"We could see this is not your normal year. We just wanted to get ahead of this as much as we can."

Weber Basin reservoir levels

(Percentage filled as of May 7, 2023)



SOURCE: Weber Basin Water Conservancy District

"It is a bit nerve-wracking. But we have professionals who have worked their whole careers on these type of things and understand the watershed. They understand the system."

— Darren Hess, assistant general manager and chief operating officer of the Weber Basin Water Conservancy District



The Little Weber River Cutoff Channel Project, a \$26 million project that diverts water from the Weber River to the Ogden Bay Waterfowl Management Area and the Great Salt Lake, is pictured in Warren, Weber County, on May 10. Kristin Murphy, Deseret News

Willard Bay releases water to help the Great Salt Lake this spring

71.6 billion gallons of water will come from upstream reservoirs

By Amy Joi O'Donoghue
Deseret News

With the turn of a wheel, 650 million gallons of water a day will eventually travel from Willard Bay to the ailing Great Salt Lake.

Although the lake has risen four feet since its historic low reached in November of last year, four feet is not nearly enough to make the Northern Hemisphere's largest saline lake recover from years of drought and over diversion from its tributaries.

But this is a start.

The Weber Basin Water Conservancy District is using its "flood rights" over the course of the next two to four weeks, and in total will deliver 71.6 billion gallons of those water rights to the lake. This is part of the 2.5 billion gallons of water per day flowing past the Willard Canal into the Great Salt Lake.

At the same time, the move will relieve pressure on the Weber River, help to stave off flooding in some areas and give a boost to the lake's struggling ecosystem which is home to thousands upon thousands of birds.

The event was celebrated Thursday by officials at Willard Bay under clear skies and a slight breeze amid palatable enthusiasm.

Marcelle Shoop, director of the saline lakes program for the National Audubon Society and executive director of the Great Salt Lake Enhancement Trust, said this is an important step to help connect the bays along the lake, including Bear River, Ogden and Gilbert.

"All these flows are going to the Great Salt Lake to help raise the lake level," she said, adding that is a good thing for the wildlife that depends on its briny water for sustenance.



The Willard Bay spillway gates are opened for flood mitigation in Box Elder County on Thursday.

GSL Collaborative

This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late. Read all of our stories at greatsaltlakenews.org.

Kristin Murphy, Deseret News

Scott Paxman, general manager of the Weber Basin Water Conservancy District, said this release happens every 10 years or so and serves a dual purpose as flood control and to help the lake.

"I cannot tell you how grateful I am to be standing here to see this release of water into the Great Salt Lake," said Sen. Scott Sandall, R-Tremonton.

Lawmakers over the last two years have poured \$2 million into the arena of water conservation and infrastructure, including the \$40 million trust now headed by Shoop.

Sandall got \$200 million appropriated for agricultural optimization to help farmers and ranchers conserve water more efficiently and also to allow them to lease unused portions of their water

rights, without having to relinquish them.

It was a huge policy shift, and is another way for water to make it to the lake.

There are turf buy back programs and a robust requirement of the metering of secondary water — which, in Weber and Davis counties, has resulted in consumption decreases by as much as 30%.

Because the Utah Division of Forestry, Fire and State Lands owns the bed of the Great Salt Lake, lawmakers also instituted a new provision that allows that division to acquire water rights on behalf of the lake.

These are all solutions in the long term that will help temper Utahns' water consumption and help not only the Great Salt Lake, but other

reservoirs that have struggled to fill.

The emphasis, however, is on the long term.

Lawmakers and advocates as well fear this record snowpack year will result in a decreasing urgency to conserve water because of the flooding hitting many areas of the state.

Utah, after all, is the second most arid state in the nation and it took more than a century to drop the Great Salt Lake by 10 feet.

The snow presents its own sort of strange challenges.

"Just because we have been given this gift does not mean we should not prepare for the future," Shoop said. "We really need to change our consumption in this state."

Both Sandall and House Majority Leader Mike Schultz, R-Hooper,

worry that people will take their eye off the "ball" on the need to conserve water.

"We have been blessed with water and it is nothing the legislature has done," Schultz said. "But it is incumbent upon us to do something for our kids and our grandkids. We can't make water, but we can conserve."

Sandall added that one great water year is not the answer.

"It will not keep us on the right trajectory with the growth we have had in this state. We've had a reprieve that will help us prepare for the next time we hit a drought."

Sandall said the state Legislature remains committed, even in light of this reprieve, to continue to search for, and fund solutions for Utah's water use.

Holladay declares emergency over risk of flooding

Minor flooding is expected to start Monday near Big Cottonwood Creek.

By **JORDAN MILLER**

The Salt Lake Tribune

Holladay officials declared a state of emergency Tuesday, citing an “imminent risk” of localized flooding as warmer temperatures accelerate Big Cottonwood Canyon snowmelt.

The local emergency declaration allows the city to access state and other outside resources should spring runoff cause flooding along Big Cottonwood Creek.

The creek measured at about 340 cubic feet per second (cfs) at 6 a.m. Tuesday, according to the National Weather Service. That’s similar to about 340 basketballs of water passing by each second.

The creek is forecast to reach 650 cfs on Sunday, surpassing its “action stage” of about 600 cfs. An “action stage” is a threshold that the weather service uses to determine when it should take action to prepare for possible flooding.

Areas adjacent to the creek are expected to experience minor flooding starting at about 1 a.m. Monday, with daily peak flows

Emergency

► Continued from A1

reaching about 800 cfs from Monday through next Friday, May 26.

“That is due to the heat that we’ve got going there — I think we’re about five to 10 degrees above what the average is,” said Brian McInerney, a hydrologist who consults with Salt Lake City on flooding. “We’re going to be in the in the low 80s into the weekend, and that along with clear skies ... will fuel this rise.”

As of Tuesday afternoon, the highest projected creek flow is 819 cfs, which is forecast for May 25 at 6 a.m.

By comparison, should the creek reach 861 cfs, moderate flooding would likely occur in Murray Park and areas downstream.

Should it reach 893 cfs, major flooding could occur all along the creek, from the Big Cottonwood Canyon outlet to the Jordan River.

An ‘eventful’ few weeks ahead

“While we cannot control the current temperatures and rate of snowmelt from this natural event,” Holladay Mayor Rob Dahle said in a statement Tuesday, “Holladay has invested much time and resources preparing for the spring run-off.”

“I am especially grateful for all the volunteers that have selflessly filled sandbags and helped their neighbors fortify their properties,” Dahle said. “This is an extraordinary situation and the emergency declaration will enable us to get more help when needed.”

The city has closed a portion of Knudsen Park, located at 6290 S. Holladay Blvd., since Big Cottonwood Creek runs through its west boundary. Individuals should avoid the streambank, as the creek’s swift water is frigid with strong currents, officials said.

McInerney said the Mill D North portion of Big Cottonwood Canyon has about 38 inches of snow-water equivalent remaining, which is currently melting at about 1.7 inches per day.

“If we go an inch and a half a day until we melt out 38 inches, we’ll be here through the middle of June,” McInerney said, noting that further up the canyon in Brighton, the snowpack has about 26 inches of snow-water equivalent remaining and is melting at about 1.2 inches per day.

“The North aspect of Big Cottonwood is still frozen up. The south aspect and the west aspects — to some extent on the west — are producing the melt-water we’re seeing now,” he said.

Air temperature doesn’t have as much of an effect on snowmelt as sunlight, McInerney said, because snowmelt is predicated on solar energy melting snow. That’s why the north portion of the canyon — which doesn’t get as much sun — still remains frozen.

“As the sun gets higher in the sky, as we get closer to the summer solstice ... then that’ll start melting water through the snowpack and into the soil,” McInerney said. “We do anticipate quite high flows by mid next week, really across Big and Little [Cottonwood].”

McInerney said the biggest thing people can do right now is to stay away from both Big and Little Cottonwood canyons and creeks.

“It’s unknown at this point” McInerney said of when the creeks will peak. “And that’s because we can’t forecast weather beyond five days. So if we ramp up the heat once again sometime in June, and that’s a good probability, then we’ll have another peak. But it’s a wait-and-see right now.”

At a Salt Lake County Council meeting Tuesday, Mayor Jenny Wilson said she expects the next six to eight weeks to be “quite eventful.”

Kade Moncur, Salt Lake County’s director of flood control engineering, said county flood control crews are working “normal and extended” hours but will go to 12-hour shifts if needed. Emergency contractors who work on debris removal are also on stand-by, as are hazard assessment teams.

Tribune staff writer Blake Apgar contributed to this report.



People work into the night last month to protect homes along 1700 South in Salt Lake City from the rising flow of Emigration Creek through Wasatch Hollow Park. Fears of heavy flooding in the Northern Plains have prompted state officials to initiate flood response plans, and residents are assembling thousands of sandbags to combat floods themselves.

FRANCISCO KJOLSETH
The Salt Lake Tribune

\$33 million set aside to help Utah communities combat flooding

The funds will go towards monitoring landslides, repairing roads and bridges and distributing sandbags.

By **SOFIA JEREMIAS AND JEFF PARROTT** | *The Salt Lake Tribune*

After back-to-back years of declaring a drought emergency each spring, Utah Gov. Spencer Cox convened lawmakers on Wednesday to address a new statewide crisis — the consequences of record snowpack and flooding.

With reservoirs and waterways across the state filling up, and two to three times the normal amount of snowpack still piled in the mountains, lawmakers reappropriated \$33 million in state funds to address the expected damage.

“We are in uncharted territory,” House Majority Leader Mike Schultz, R-Hooper, told his colleagues ahead of a vote on the emergency legislation, adding that the concern of the state is now how water will come off the mountains.

Lawmakers moved \$20 million from the Department of Transportation’s construction budget to its maintenance and repair budget for highway construction and repair; reallocated \$10 million for infrastructure improvements at the state and local level from the wildland fire suppression budget; and \$3 million from the state disaster recovery restricted account was

moved to the Department of Public Safety.

The newly appropriated money — along with \$7 million that’s already in an emergency response fund — is expected to help expand and repair culverts, repair damaged bridges, purchase and distribute sandbags, monitor for landslides and staff the state’s emergency operations center.

Part of the money also is going to cover higher-than-normal snowplow costs and landslide mitigation.

Excluding Lake Powell and Flaming Gorge — which remain low — reservoirs across the state are already about two-thirds full.

Glen Merrill, a senior hydrologist with the National Weather Service, told lawmakers that because the state had a record-breaking snowpack and cooler temperatures, many regions still have two to three times the normal amount of snow in the mountains, particularly in higher elevations.

The Bear River and creeks in Cache Valley have been above flood stage for several weeks and there is increased flood potential in the Green River and Colorado River, as well, Merrill said.

Temperatures for the next two

weeks are expected to be above normal. Those higher temperatures, along with the potential for additional precipitation, mean there is a risk of flooding in Big and Little Cottonwood creeks, Logan River, Provo River and possibly the upper Weber River, with increased flows in the Green and Colorado rivers.

“Many of our significant river systems or waterways across the state are either going to be nearing or potentially exceeding flood stage here moving forward with peak flows expected in late May and into June,” Merrill said.

Gov. Spencer Cox announced earlier this month that he was calling lawmakers back into session to address flooding and a few other issues. Then, on May 5, the state has already spent the \$5 million the Legislature has set aside for snow removal and flooding mitigation.

In April, with at least one of Utah’s waterways already under a flood advisory, Cox declared a state of emergency in anticipation of a statewide disaster response. Lawmakers, at Cox’s request, extended that emergency declaration through Aug. 15 on Wednesday.

“We want to get through the potential flooding season,” explained Sen. Evan Vickers, R-Cedar City.

Tribune reporter Robert Gehrke contributed to this story.

MANAGING MOTION



COURTESY LEHI CITY

Flooding in Lehi's Dry Creek is shown in this photo, shared on Monday.

Run-off continues to pose flooding risk in Utah County, cities keep up efforts

BY SARAH HUNT
Daily Herald

Across the county, cities are still experiencing runoff and minor flooding from this winter's record-breaking snowpack.

On Thursday, for the second time this flood season, Lehi City closed the spillway gates to

Dry Creek Reservoir and hired divers to clear out debris clogging the water flow.

"Anytime we see our water sources are not flowing as effectively, especially from the reservoir, we contact the dive team. Last week, they came and we closed the gates, so residents might have thought that our water levels were

low for a couple hours. Then all of a sudden, there is a lot more of a flow once the gates open again, and it evens out," said Jeanteil Livingston, Lehi communications manager.

After the city dealt with its own flooding in

Utah allocates millions to prepare for flood damage from runoff

BY SAM METZ
Associated Press

SALT LAKE CITY — As the winter's record snowpack melts and cascades down from the Rockies, Utah lawmakers on Wednesday set aside millions of dollars to prepare for potentially historic flooding.

The state is among the many in the American West confronting the wet winter's consequences, with many places ending the season with more than double the 30-year median measurements for snow-water equivalent, federal data shows. State and local officials from eastern California to western Colorado are anticipating runoff in the coming months drenching agricultural fields and battering infrastructure, with water overflowing out of creeks and reservoirs and running through city streets.

The spring's moderate temperatures have allowed snow to melt gradually and forestalled most danger and damage. But runoff has flooded neighborhoods throughout the Salt Lake City area, opening sinkholes and causing mudslides in residential streets. This week alone, some residents who live on northern Utah's

Flooding

From AI

2019, they made changes to the reservoir to be able to better control its water levels. Other systems in place include swales — large, grass-covered ditches in yards and fields that can hold water and prevent it from reaching nearby buildings or homes.

The swales in front of and behind Lehi Elementary School were recently seen filled with water from last weekend's rainstorms, but Livingston stressed it is not a cause for panic.

"That's what it's designed to do. That isn't any sort of overflow or flooding, it was all expected," she said.

The reservoir is three feet away from overflowing, a good level, according to officials who are monitoring and maintaining the flow of the river and have yet to experience flooding in the area, they said, due to consistent preventive measures.

In neighboring American Fork, 45 truckloads of debris on Thursday were cleared from a debris basin by the mouth of the canyon. The American Fork River is currently two and a half feet from overflowing.

The river is now flowing at 500 cubic feet per second. City officials believe the river can handle a couple hundred more CFS before overflowing.

Camden Bird, assistant city administrator, said the city's storm-water division is always on top of clearing out debris and has employees watching the river around the clock. If flooding does occur, it is most likely to happen by the boat harbor, the lowest point in the area.



HARRISON EPSTEIN, DAILY HERALD

A "trail closed" sign blocks residents from accessing the Spanish Fork River Trail, and the river, on April 14.

In that scenario, the road will be closed and flood water will wash over nearby fields and into the lake, nowhere near any property that could be lost. Water will then be redirected back into the river to reopen the roads.

"I think 1983 taught everyone a lesson. We had a big year in 2011 too. In fact, from what I understand volume-wise, it was greater than the flooding in 1983, but we didn't have flooding anywhere. Nothing happened even then just because of the infrastructure changes and the

other kind of proactive approaches," Bird said. "We went and cleaned our entire river channel throughout our whole city. And as long as nothing comes down the canyon that we miss or happens in another city above us, we think we'll be fine."

In south Utah Canyon, flood risks and problems have been higher since the beginning of the season. Spanish Fork Mayor Mendenhall on May 1 issued a Proclamation of Local Emergency which the city council later extended, allowing the city to access resources that will help curb flooding

and protect homes, as flood risk is expected to continue until early June.

Spanish Fork officials said there was just under seven inches of low-level snowpack remaining on May 9, after 28 inches were recorded at its peak. High-level snow was measured at 24 inches.

"High-level snow is what is on the mountains 9,000 feet and above. Low-level snow is below 8,500 feet. The greatest flood risk happens when both the high and low-level snowpack melts at the same time," the notice said.

Charts detailing the current snowpack, river flows, and predicted flows can be seen on the city website. Trails under the Main Street bridge and the West Park Drive bridge, as well as Urban Forest, Quail Hollow and River Cove south of the river are all closed due to flooding.

City officials sent a letter to parents of young students May 12 after four high schoolers attempted to kayak down the river, resulting in a police, fire, EMS, helicopter and search and rescue response. Two of the kayakers were flipped accidentally out of their kayaks and were in the water by the time emergency personnel arrived.

"The youths' actions of entering the dangerous waters prompted the full response. Thankfully, all of the young men were able to get out of the water safely," officials said in a letter sent out to parents.

The letter asked parents to warn their children about the dangers of fast, cold currents, to stay away from the river, and to avoid any recreational river activities.

U.S. 89 also remains closed after Thistle Creek jumped the road near the "ghost town" destroyed in the 1983 floods, which has had its share of difficulties with past flooding. The town is found along the Spanish Fork River past Loafer Mountain and Spanish Fork Peak.

"Utah County Sheriff's Office Emergency Manager Peter Quittner and Public Works Director Richard Nielson are working around the clock with UDOT to mitigate major issues. Highway 89 is still closed as crews work to reinforce the dirt berm that abuts the road," Lt. Gov. Deidre Henderson said in a video shared to Facebook on Thursday.

Grants

From AI

largest recipient is the SCERA Center for the Arts who received their full request of \$842,675. The Timpanogos Symphony Orchestra asked for \$81,000 and was given \$9,999 while the Utah Metropolitan Ballet applied for \$76,930 and received \$25,000.

Seeking major grant money, but not being granted any this year, was the Hale Center Foundation and Noorda Theater at Utah Valley University. This is the second straight year the Hale Center did not receive a CARE grant since announcing they would be leaving the city and moving to a new facility in

Pleasant Grove.

Another \$195,000 was given to the SCERA Shell Outdoor Theater for facility improvements. The Shell is owned by the city but is leased back to the SCERA Center for \$1 a year.

RECREATION

Most of this year's recreation portion of the CARE tax is going to the Lakeside Sports Complex, which will receive \$1.03 million for soccer field turf. In all, \$1.17 million was given to recreation in the city.

PARKS

Taking its lead from the recreation grants, parks is providing half of the money for the Lakeside turf project at \$1.03 million from their portion of the grants.

Legislature

From AI

Ogden River were evacuated, a flooded highway near Spanish Fork Canyon temporarily closed and hay planted along the low plains of the Bear River has been submerged under water.

The flooding, though potentially damaging, is a welcome change for Utah officials more accustomed to dealing with the region's worst drought in at least 1,200 years. For Gov. Spencer Cox, it's an answer to prayers and public calls for divine intervention.

"If this has taught us anything," Rep. Mike Schultz, a Republican, said of the abnormally wet winter, "it's that the climate in Utah is truly unpredictable."



RICK BOWMER, ASSOCIATED PRESS

Water flows down Big Cottonwood Creek from snowpack melt on Wednesday near Salt Lake City.

Drought indexes based on long-term yearly averages suggest much of the western United States remains in a drought that won't be solved

with one wet year. Scientists also note climate change has increased short-term variability in weather patterns.

After a special session con-

vened Wednesday to extend Utah's state of emergency for flooding, lawmakers have allocated a total of \$40 million to combat flood damages. The money was drawn from sources including the state's general fund, transportation fund and funding earmarked for wildfire suppression. Republican Senate President Stuart Adams said he was unsure if the entire lump sum would be needed, but had planned conservatively, with memories of 1983 flooding that coursed through the streets of Salt Lake City still fresh.

Sen. Scott Sandall, a northern Utah Republican, said he was particularly concerned about areas like Snowbird in Little Cottonwood Canyon, where snow remains and no reservoir or dam exists at lower elevation to help manage it.



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

Swift currents surge through Big Cottonwood Creek on Tuesday. Salt Lake City utilities officials say extra runoff in the creek won't affect the quality of water that is delivered to residents.

Will runoff from Big Cottonwood Canyon taint the water you drink?

Procedures have been put in place to prevent that from happening.

By **BLAKE APGAR** | *The Salt Lake Tribune*

Faster flows are expected out of Big Cottonwood Canyon starting early next week, but officials say Salt Lake City water users need not worry about the runoff affecting what comes out of their taps.

Department of Public Utilities spokesperson Chloe Morroni said the treatment facility at the mouth of the canyon will accept water only up to a certain level of dirtiness. If

water gets too dirty — as can happen when runoff brings with it sediment and debris — officials will let the stream bypass the treatment facility and flow into the Jordan River.

Morroni said the facility is in good shape for now, but if increased flows do force it to temporarily stop treating water, residents won't feel any disruption of service. The department can use water from other treatment plants or water districts.

A pause on using the facility likely would last only during peak flows and not persist for the entirety of the runoff season. Runoff from the Wasatch Mountains is expected to wind down next month.

CASCADING DANGER



COURTESY UTAH COUNTY SHERIFF'S OFFICE

Part of Nebo Loop Road has eroded away and created a waterfall of flooding in Payson Canyon, pictured Monday.

Flooding in Payson Canyon creates waterfall, washes away part of road

BY SARAH HUNT
Daily Herald

The Utah County Sheriff's Office on Monday reported major flooding 9 miles up Payson Canyon on Nebo Loop Road near the Shram Creek trailhead.

Snowpack has melted and flowed across the two-lane road, eroding away most of the outer lane and a large chunk of dirt underneath it in a semicircle, creating a drop-off in the road and a cascade of water down into the canyon.

"They've got the infrastructure, the drainage, the culverts and things like that. They usually handle it in a normal year, but this year there was so much more snow to melt,

Please see **FLOODING**, Page A6

Flooding

From A1

creating bigger streams where there are small streams or creating streams where there usually aren't any, and it wears the road down," said Spencer Cannon, public information officer for the sheriff's department.

Officials are yet to determine if the large flow of water was caused by a blockage of debris in a culvert or if a substantial amount of water came down the mountain at once.

No homes or individuals have been affected by this flooding thus far. Payson Canyon as well as many others throughout the state, such as Alpine Loop Scenic Byway, Big Cottonwood Canyon, Guardsman Pass, Diamond Fork and others have been closed since winter due to potential avalanches and flooding from the record-breaking amount of snowpack received this year.

This closure will not affect major traffic as Nebo Loop Road is not

part of any main highway through the state. Payson Canyon is a popular place to hike, especially as the weather warms up. Canyons throughout the state typically open by Memorial Day, but Payson Canyon's opening will be delayed by about two weeks this year due to the damage done to the road, according to the county sheriff's office.

Utah County Public Works and the U.S. Forest Service are working together to clear debris and make repairs to the road. There have also been a few areas of road damage due to flooding in the right fork of Hobbie Creek Canyon. County officials are warning residents and visitors to stay out of the canyons until further notice.

"It's not just a problem unique to Utah County. These are problems that I know are being encountered by people all over Utah, and especially up in Northern Utah where they've also had problems with roads washing away in the canyons. We're just one little part of that happening here," Cannon said.



COURTESY UTAH COUNTY SHERIFF'S OFFICE

Part of Nebo Loop Road and the dirt underneath it has eroded away and created a waterfall of flooding in Payson Canyon, pictured Monday.

Utah will feel the pain from Colorado River agreement

No forced cuts and full allotment of the river's water may never be received, but curtailments impact everything from food prices to how the communities grow.

By LEIA LARSEN | *The Salt Lake Tribune*

California, Arizona and Nevada have agreed to use less Colorado River water in the next few years. And while the deal doesn't apply to the Upper Basin states like Utah, it doesn't mean Utahns won't feel any impact.

The Colorado River supports around 40 million people living in seven Western states, tribal reservations and Mexico, but its volume has dropped by one-third in recent years. About half of the river basin's water goes to beef and dairy production, recent research has found. Climate change coupled with population growth in the region has further fueled water shortages.

All that has put hydropower production and more than 5 million acres of farmland at risk, while also stoking political tensions.

The U.S. Department of Interior called on the river's water users to curtail their use by two to four million acre-feet this year alone. When the seven Colorado River Basin states couldn't reach a resolution on how to do that earlier this year, the feds upped the pressure by signaling they would force mandates of their own, with big implications for California and Arizona, which apparently prompted the latest deal.

The three Lower Basin states, which hold senior water rights on the river, announced Monday they had found a short-term solution. In a three-page letter, they outlined plans to cut a collective 3 million acre-feet over three years in exchange for \$1.2 billion from the federal government.

Why only the Lower Basin states had to submit a Colorado River plan

So, why don't Upper Basin states like Utah have to contribute cuts of their own?

Part of the reason is that the law of the river is a century old, with extensive litigation

sprinkled between the signing of the Colorado River Compact in 1922 and the conflicts states are experiencing today. In a nutshell, the interstate agreements mean the Upper Basin states must deliver 7.5 million acre-feet to the senior water right holders in the Lower Basin states before they use their own allotted 7.5 million acre-feet.

"What's important to realize is the Lower Basin states have already used up their full allocation," said Gage Zobell, a water law expert and partner at the firm Dorsey & Whitney. "There was already litigation and fights going on in the Lower Basin even before the Upper Basin had to get involved."

A spat between Arizona and California more than six decades ago resulted in the Interior Department — currently helmed by Secretary Deb Haaland — becoming a "water master" of sorts for the Lower Basin, which is why Haaland has the authority to make cuts there.

"However, she does not have the same authority in the Upper Basin," explained Amy Haas, executive director of the Colorado River Authority of Utah. "Rather, any reductions in use in the Upper Basin are a function of individual state law and regulation, as well as hydrologic shortage — something Utah, Colorado, New Mexico and Wyoming experience almost every year."

Because Upper Basin states only use a fraction of what they are allowed in the compact — Zobell estimates it's around 4.5 million acre-feet — they haven't had a need for a federal water master yet.

But with growing populations and stresses of their own, it's clear the system isn't working in the Upper Basin either.

"Even though we don't have a water master, the measurement of drought conditions at Lake Powell and Lake Mead affect us in the Lower Basin," Zobell said.

That's because when there are shortages in Lake Mead and Lower Basin States, Upper Basin states have to release water out of Lake Powell to ensure senior water rights get fulfilled.

That means a loss of recreational opportunities for Utahns in Lake Powell and Flaming Gorge reservoirs as tapped to meet those downstream obligations.

It also means communities like St. George



FRANCISCO KJOLSETH | *The Salt Lake Tribune*

Mud cracks form along the shores of the Colorado River in Cataract Canyon as mountains of sediments are slowly washed away and beaches begin to return at Lake Powell.

can't count on water or the Lake Powell Pipeline to meet growing demand.

"It's that obligation of release that I think has triggered, if not animosity, then friction among the Upper Basin (states)," Zobell said.

Food costs will 'absolutely' rise

The Lower Basin states arrived at their current \$1.2 billion figure based on a formula in the federal Inflation Reduction Act, Zobell said, and it will most likely be used to encourage farmers to follow their fields and improve irrigation practices. But because the announcement is just a three-page summary of what those states intend to do, details remain slim and they will need to somehow prove their efforts result in actual reduced use.

"You can't force the farmer to take the money," Zobell said. "In some ways, this is very aspirational. We think it will work, but we haven't seen it work yet."

The Lower Basin states include farms that produce much of the food the United States relies on, however, and water cuts will "absolutely" drive up food prices, he added.

"We, as a nation, are going to bear the cost of this," Zobell said. "We're going to see prices go up, beyond inflationary issues."

Ultimately, the Lower Basin plan is also

just a "stopgap" scramble for solutions over the next three years, Zobell said.

"We can't pay ... billions of dollars every year for people to stop using water," he said.

With full details yet to be fleshed out, there is no guarantee it will even work.

Drought forced states to the negotiating table in 2007, when they developed "Colorado River Interim Guidelines" which include drought contingency plans. The Department of Interior is currently working to update and revise those guidelines, set to expire at the end of 2025, as Lake Powell and Lake Mead remain dangerously low and precariously close to failure all these years later.

"If we don't get this right, and drought conditions worsen, how far is the (department) going to go in a way that might impact Utah?" Zobell asked.

Haas, with the Colorado River Authority of Utah, said in a statement the state so far supports the temporary, three-year plan announced this week. But she called for longer-term curtailments in Arizona, Nevada and California.

"What we need are permanent, uncompensated reductions in Lower Basin use to help bring the system into balance," Haas said. "This will require that the Secretary of Interior make hard decisions in the future and not simply pay her way out of the problem."

RECIPE FOR DISASTER

Record snowpack and saturated soils lead to landslides — lots of them



Crews work to remove mud at the scene of a mudslide in Morgan on April 17.

Kristin Murphy, Deseret News

By Amy Joi O'Donoghue
Deseret News

Those luxury homes that creep up the side of a mountain and often sit overlooking a wondrous landscape with stunning views are nice to look at, even drawing some envy from the flatlanders.

But are they safe?

This year's record snowpack along with saturated soils have led to 100 documented landslides across the state and there are many, many more that the Utah Geological Survey say have not yet been discovered.

"There's a lot more that we don't know about, probably magnitudes more," said Bill Keach, state geologist and director of the Utah Geological Survey, during a presentation May 17 before the Natural Resources, Agriculture and Environmental Interim committee.

Part of the problem is where these stunning homes are being built and where roadways have been engineered with "cuts" into mountain terrain that provide an ideal recipe for a slide.

"The other thing that we think and worry about here at the Utah Geological Survey is urbanization that has really pushed people into areas that might not be as safe geologically. They're moving and trying to build homes in areas that aren't as easy or as safe as they could be," he said. "And that's a big part of this, you know, and when we see homes falling, they're probably in places that 40 years ago, we wouldn't have put a home, but there's a great push to get into those areas. And so we think that's a big part of it."

So far this year, staff at the Utah Geological Survey have taken 1,000 photos, spent 400 hours on landslides in the last six weeks and had 20 emergency responses.

Two homes have collapsed and one had to be razed by the city, Keach said.

Keach said there are many types of causes of landslides that

include:

- Soil type.
- Too much water/moisture.
- The "toe" of the affected land has been cut out.
- Overly steep slopes and burn scars.

Not all landslides are the same. There are rock formations or slope failure, bedrock failure, loose sediment and more.

He specifically mentioned the slide at Trappers Loop and what happened in Draper.

"The Trappers Loop, that's a cut slip and we were helping tell from the video that the road cut, the cut back changed the angle the slope, which then accentuated and made it easier when that slope got wet, for the slide to happen," he said. "And then we have what happened at Draper, and I am going to call that an infrastructure failure." Two houses slid into a ravine.

Multiple landslides have cut off access in Little Cottonwood Canyon and a section of banking failed underneath state Route 39 through Ogden Canyon, resulting in a slide and closure of the main thoroughfare to Ogden Valley.

Keach said landslides and debris flows are impacting all areas of the state, and in all manners.

In Park City, there was particular trouble.

"I don't know how many of you saw this in the news, but basically the bedrock failed and that's way different than loose dirt getting oversaturated but the bedrock was steep," he said. "And it failed almost all at once and came down and basically pushed into the front doors of the Marriott out there. And that's a different type of a slide."

Lawmakers stressed Utah values private property rights and Keach conceded that if a geotechnical engineering report indicates to a municipality it is safe to build, there is not much that can be done.

He shared a pair of anecdotes with lawmakers, including a time when his real estate son was showing a prospective buyer a home who inquired if there would be any runoff

encountered.

"And he said, being the son of a good geologist, he says, of course, definitely. You're going to have runoff problems here."

Another homeowner in Ogden Valley bought his home last fall.

"He had five electric pumps in a sump pump and a sump in his basement and one gas sump pump running that had a three-inch line on it," Keach said. "And he was pumping 11,000 gallons of water an hour. Not a day, an hour. And he was really working hard to try and keep up and understand it."

The survey keeps a database of current hazardous landslides and data that also includes photo depictions of these potentially catastrophic events.

Keach said there are a number of problems that have amplified the state's numbers of landslides this year and ways to help, including increased landslide inventory mapping (landslide footprints, type, etc.) and increased mapping of other geologic hazards, as well as increased technical outreach to Utah's local governments.

He added that another problem is most geologic hazards are not covered in the 2021 International Building Code and the 2021 International Residential Code.

There has also not been an adoption and thus enforcement of mass grading codes and ordinances covering construction cuts and fills.

Local governments, too, are not required to submit geologic reports to the survey for archiving.

"I think we can probably improve the buyer beware information," he said. "That should be easy to achieve."

Finally, the survey has asked for two consecutive years for \$120,000 to add another hazard geologist to their staff of three geologists. While the request was part of the governor's budget and was among the top funding requests by the Natural Resources Appropriations subcommittee, the money has not been allocated.



The debris of two homes in Draper that have reportedly been evacuated for months sits at the bottom of a hill after sliding overnight on April 22.

Scott G Winterton, Deseret News

"When we see homes falling, they're probably in places that 40 years ago, we wouldn't have put a home."

— Bill Keach, director of the Utah Geological Survey

UTAH FLOODING » WATER, WATER EVERYWHERE



Uinta-Wasatch-Cache National Forest

Spring runoff has washed away a section of the Nebo Loop Scenic Byway, which typically opens on Memorial Day weekend. The roadway will remain closed as repairs are being made, which could take about two weeks, officials said. At least one trail and a campground in the area also remain closed until further notice. See story on A3.

Davis County, with a long history of landslides, is bracing for trouble

There have been 80 recorded landslides around the state this year, with eight taking place in the county.

By JACOB SCHOLL | *The Salt Lake Tribune*

1983 was Utah's great flood year, the year when Salt Lake City's Main Street briefly turned into a river. But Davis County was among the areas with the most extensive destruction that year. For the historic floods, yes, but also for the number of landslides and the sheer amount of damage.

In May and June of that year, the county saw over 100 debris slides, destroying homes and causing millions of dollars in damage, according to a 1989 report from the Utah Geological and Mineral Survey.

Davis County is historically one of

the hardest-hit counties by landslides in the state, although Utah's biggest slide happened in Utah County near the town of Thistle in Spanish Fork Canyon.

This spring has also been wet, and the Utah Geological Survey estimates there have been 80 recorded landslides around the state this year, with eight taking place in Davis County, according to Greg McDonald with the UGS.

While the slides this year haven't been as damaging as 1983, the uptick in landslides can be linked to the huge amount of snow from this winter, which leads to saturated soil that can deteriorate during the spring runoff, according to a Utah Geological Survey presentation to

the Utah Legislature earlier this month.

But given the high snowpack around Utah, McDonald said there have been fewer landslides this year than the UGS anticipated.

"We knew with the record snowpack this year, we were gonna have landslide issues," McDonald said. "There have been quite a few, and we're still responding to several, but it's not as widespread as it has been in past years."

THE 1983 LANDSLIDES

Around Memorial Day in 1983, the cool, wet weather that plagued Utah for months

Please see **LANDSLIDES, A3**

Landslides

Continued from A1

gave way to temperatures in the 90s, causing widespread floods around the state.

The already damp mountain soil couldn't absorb the record snowpack, as the state had seen back-to-back years of heavy winters, further compounding the risk of landslides and mudslides.

"The snow melt just crashed. It just heated up way too fast," McDonald said. "That caused a bunch of soils on the sides of these side canyons to become saturated and mobilize to debris slides, which then became debris flows as they entered flooding channels."

Among the areas hardest hit was Farmington, where a landslide tore through nearby Rudd Canyon and scattered dirt and debris across nearly 18 acres of land, according to the 1989 UGS report. The landslide caused \$3 million in damages to homes alone, as it leveled eight houses and damaged 35 others. The slide also caused over \$1 million in damage to public facilities.

An article from United Press International from May of 1983 described the Rudd Canyon slide as "a 20-foot-high wall of mud" that forced the evacuation of the Lagoon Amusement Park. Farmington's public works director told UPI that officials evacuated the park "because of the number of people there and we weren't sure what the slide would do."

In nearby Fruit Heights, 75 people were evacuated that spring after officials started to worry about a landslide in Baer Canyon. The area avoided widespread catastrophe, but the report says, "water lines, culverts, and personal property in that community were subjected to damage."

Bountiful also suffered extensive damage. The 1989 report says two significant slides pushed debris out of Stone and Barton creeks, causing around \$4 million in damages. Water systems in Bountiful were contaminated after the aqueduct that moved irrigation water to the town was destroyed.

In total, the report says Davis County suffered around \$18 million in damage in the spring of 1983 due to landslides.

YEARS IN BETWEEN

Even without the record snow that helped trigger the '83 landslides, Davis County has seen recurrent damage from landslides over the years.

In 1998, a landslide along Sunset



BEN ERICKSON | Utah Geological Survey

A landslide took place in April near the Chadwick Farms neighborhood in Layton. Davis County has been the site of at least eight landslides so far this year.

Drive in Layton damaged seven lots and led to a home being condemned, according to a report from the UGS. City officials studied the area's landslide risk and later proposed building a drainage system near the edge of the slope where the homes were on Sunset Drive. However, another UGS report says, "the majority of homeowners decided not to finance the installation."

On April 15, 2006, the same slide was reactivated. Like in 1983, the landslide could be connected to an increased amount of groundwater due to snowfall.

"A 4- to 8-foot increase in groundwater levels between March 16 and April 17, 2006, apparently triggered landslide movement, and is in part a result of the significant snow and rain that fell on April 6," the UGS report on the Sunset Drive landslide said.

Steve Garside, assistant city manager for Layton, said the Sunset Drive landslide was partially due to homeowner mistakes — one homeowner dug out part of their land to put in an in-ground trampoline for their children.

"When you pull the dirt away from the downhill side of your foundation, so there's nothing holding the foundation back, that causes a little bit of a problem," Garside said.

Nowadays, if you head to the

1800 block of East Sunset Drive, you'll see two empty lots. The home that once stood at 1843 East Sunset Drive is no more: the home sat squarely on the scarp — or the edge of a landslide — during the 2006 slide. With the foundation badly damaged, the house had to be removed.

To the southwest of Sunset Drive, you'll find another area of Layton where homes once stood.

In August 2001, a landslide along Heather Drive hit six homes, causing over \$1 million in damages and forcing evacuations, according to a UGS report. Heather Drive is located on a slope perched above South Fork Kays Creek.

The Heather Drive slide happened slowly over a few years, according to the same report. One homeowner began to see cracks in his home's foundation in 1998. Another homeowner fixed a driveway in July 2000 and noticed the ground slowly shift for a year.

Over August, homes along the northern edge of the road slowly slid away from the road, leaving a gap of several feet between Heather Drive and the sinking homes. The slide also damaged buried water and gas lines, which were shut off while the homes above creaked and popped from the slow-moving slide, the UGS report said.

Three houses were moved

off the landslide while three others were torn down.

Steve Garside, assistant city manager for Layton, said the homes lost in the Heather Drive landslide had been there for years, which made the slide all that more surprising when it happened.

Those homes "were actually built when the town of East Layton existed, and East Layton became a part of Layton City in '81, and so obviously, those homes had been there for a long time," Garside told The Tribune.

Months before the 2006 Sunset Drive slide in Layton, a child in South Weber was injured when a fast-moving landslide hit the back of a home before bursting through a wall, a UGS report says. On top of the bluff where the slide started was a pond in a gravel pit, and officials found the bluff being saturated with water was one of the main factors in creating the slide.

RECENT SLIDES

Garside said Layton continues to make improvements to mitigate landslide risk. Things like debris basins near the mouths of canyons can reduce potential damage if chunks of earth start flowing through creeks of the mountains.

"We always know that Mother Nature wins, as we say, so

the best thing that we've done is try to make sure that our storm drain system will handle what is out there," he said.

But even with mitigation, landslides are still largely unpredictable. Last month, a Layton home on Hidden Hollow Drive was evacuated after a resident heard water running underneath the pavement. Over the next several weeks, the earth shifted into the home, and according to UGS, two other homes are potentially threatened in the same slide.

In eastern Layton, another slide took place near Hobbs Creek Drive the same month. Despite the slide, a UGS report says no structures were damaged, though the bottom of the slide does appear to be close to a home.

One building was destroyed and two people were injured during a landslide in Fruit Heights last month.

The leveled building was not a home, and a UGS report said the landslide was stable, though it could potentially move again with enough precipitation.

LIKE FLOODS, LANDSLIDES DEPEND ON WEATHER

Garside said the area's landslide risk would, like with flooding, depend in part on the weather. The sudden runoff triggered the 1983 floods and landslides, and a similar temperature fluctuation would be potentially harmful.

Layton City was initially concerned about snow in mid-elevations, Garside said, but much of that snow has melted off in recent weeks. But a good amount of snow has yet to melt off around Layton.

I'm "not excited to see the 80s yet," Garside said, "but if we keep it low 80s into the 70s, we should be in good shape. And I'm not anticipating ... any additional slides." He added the caveat that more slides would be possible if heavy rainstorms were in the forecast.

But even given the region's recent shift to temperatures in the high 70s and low 80s, a jump to hot weather doesn't seem to be on the horizon, at least for now.

McDonald said this year has been hit or miss, as some slides the UGS expected to take place held steady while other areas thought to be more stable gave way. McDonald said the past three years of drought and a lack of groundwater could play a part, but there's no way to be sure.

"It's been a busy spring, but it hasn't been as bad as it could have been," McDonald said.

Climate change adds to streams' unpredictability across Utah

By DAVID CONDOS | KUER 90.1

Water is already a precious commodity in dry southern Utah.

But climate change may be making it even harder to come by — just by shifting when and how the region's precipitation arrives.

A new study from the Desert Research Institute found that three big factors are hurting the reliability of streamflows in Utah and across the arid West.

Winter temperatures have increased over the past 40 years. During that same span, snowfall has decreased. And precipitation that used to come down as snow is falling as rain instead.

Abhinav Gupta, a Nevada-based researcher who led the study, said that all adds up to be bad news for Utah's streams.

"Because of all these three factors combined," Gupta said, "what we are seeing is that these fluctuations of streamflow become more wide."

Even if Utah gets the same amount of total precipitation from one year to the next, the benefit the state derives from that precipitation can change based on how it falls.

When water arrives as winter snow, it gets stored for months and slowly trickles down as it melts.

That creates a steady supply of water in streams and helps river levels rise and fall smoothly and predictably.

But if that water arrives in short bursts of intense rainfall, that makes it harder for the soil to absorb it, for reservoirs to capture it and for underground aquifers to refill with it.

The research published in the *Journal of Hydrology* examined climate and streamflow conditions nationwide from 1980-2013. In Utah, it focused on four watersheds: the White River and Salina Creek in central Utah and the Virgin River and Coal Creek in southwest Utah.

It can be tough to draw conclusions for the whole state from just a handful of examples, Gupta said, because each watershed is unique. But the signs don't look promising.

"We are going from a stable state to an unstable state," Gupta said. "The situation is not that bad yet, but we expect that it's going to get worse in the future."

So what might the local impact of this trend look like in the southwest part of the state? Erich Mueller, a hydrologist with Southern Utah University, describes it as "flashy."

Rivers rise and fall more rapidly. More severe storms and floods.

The exceptionally wet year Utah is experiencing now could be a symptom of this unpredictability, too. As climate change shifts temperature and precipitation trends over the long term, it could become more common to see extended periods of drought punctuated by short, intense wet seasons.

"It's not like we're not going to have wet years anymore," Mueller said, "but maybe the pattern of wet and dry is changing."

A study from the Utah Snow Survey showed that nearly all — north of 98% — of the water that sloshes down Utah's streams comes from



DAVID CONDOS | KUER

The Virgin River flows in March through Zion National Park.

melting snow.

Even in watersheds with lower elevations and warmer temperatures, such as the Virgin River in southwest Utah, the study estimates that snow contributes more than 90% of the streamflow.

Because snowpack elongates the time period in which that precipitation flows down, healthy snowmelt can provide dependable streamflow well into the summer. But warmer temperatures could drive more rapid snowmelt, both shifting the melting season earlier in the year and condensing it. So by the time the heat of summer arrives — when Utahns need water the most — there's less streamflow around.

Streamflow petering out earlier in the summer, Mueller said, could even open the door for higher wildfire risks as soil and plants have more time to dry out.

And as rain becomes more prevalent in the colder months, another risk would be winter flash floods caused by showers falling on snowpack.

"It adds enough energy to both rapidly melt the snowpack [and] also we have that addition of the rain as well," Mueller said. "So it's sort of like a double whammy."

These types of floods haven't been common, Mueller said, but have led to some of the worst flooding in southwest Utah's history, such as the disasters that washed over the banks of the Santa Clara and Virgin rivers near St. George in January 2005 and December 2020, respectively.

Evaporation and population are two other factors that put extra pressure on Utah's water supply.

As the climate gets warmer, more water is lost to evapotranspiration. In southwest Utah, Mueller said, up to 80-90% of all precipitation floats back into the atmosphere before it even ends up in streams and rivers. So towns like St. George are left with the remaining 10-20%.

If the region's population today were the same as it was in 1950, Mueller said, that might not be much of an issue. But as one of the nation's fastest-growing states, the demand for water is higher than ever.

"Just that alone," Mueller said, "without any climate change at all, is going to put a stress on our water resource."

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Climate change gave us the Great Salt Lake, but it's not the reason it's shrinking today



Spring runoff water enters the Great Salt Lake on May 9.

Jeffrey D. Allred, Deseret News

By William Hayden Smith
For the Deseret News

The Great Salt Lake, or the “Bad Water,” as it was known to the Shoshoni, exists thanks to climate change.

The present lake was formed from a much larger lake, Lake Bonneville, about 30,000 years ago. A drier climate reduced Lake Bonneville to the Great Salt Lake’s current dimensions. The lake has persisted within its historical size range for nearly 13,000 years. Records show the lake was largest in 1985 at 8,500 square kilometers, and then shrank to 2,500 square kilometers in 2021, only 40 years later.

The evaporation of the lake seemed imminent just last year. Such concerns can change quickly.

Up to 1985, rapid lake growth resulted in flooding. At that time, as older residents of Utah will remember, the West Desert Pumping Project diverted nearly a cubic mile of water into a depression to the west to prevent flooding of farms to the east of the lake. The pumping stopped in 1989 as inflows from the Bear River and smaller rivers again declined. The pumps are in place still, just in case.

Changes in climate over thousands of years reduced the depth of Lake Bonneville from nearly 1,000 feet to today’s average of only 16 feet for the Great Salt Lake. The lake still contains nearly 4.6 cubic miles of water. The Great Salt Lake is a terminal lake — that is, water flows in, but does not flow out. Lake Bonneville did drain to the Snake River, at times, before 13,000 years ago. Since then, as a terminal lake, the lake exists due to a balance between inflow from rainfall and rivers competing with evaporation by the sun.

A simple calculation shows that the sun heating the Great Salt Lake could evaporate all its water in a year, leaving only salt pans and saline puddles behind. For millennia, the lake has been constantly replenished by inflow, but the inflow is changing as humans increasingly divert water for other purposes.

Today, as much as two-thirds of the potential river inflow never reaches the lake. Consequently, the lake is shrinking. However, it is not climate change, but human water use that’s cutting the Great Salt Lake’s lifeline. Humans take the water and then mutter something about “climate change,” hoping that no one will notice what they’re doing to Utah’s most famous natural symbol.

Manicured green lawns consume vast amounts of water, not to mention fertilizers and pesticides. The proposed Bear River Development Project would take 30% of the average Bear River water flow, mostly to water lawns. Thirty percent of the average Bear River water flow amounts to 100% in dry years. Then, the lake would shrink or even vanish.

A perfect green lawn, once a symbol of suburban bliss, is seen increasingly as an environmental threat, not just in semi-arid regions like Utah, but all over America. For Utahns determined to have a green lawn, “gray water” — waste water from individual homes — could be a way to keep their lawns green. That was the solution at Pebble Beach Golf where perfect greens trumped imperfect water. A better solution is to dispense with the perfect green lawn entirely, substituting native plants, which

are beautiful as well as commensurate with the local environment.

Let’s take a closer look at the long-term history of the water level in the Great Salt Lake. Hydrologists have reconstructed the level of the lake over the past 600 years. The level changes constantly, but the average remains close to 4,202 feet above sea level. Utah’s geology agency data shows the same variations for more than 180 years. The ups and downs closely correlate with rainfall changes. If rainfall is high, the lake rises, and if low, the lake level sinks, just as one expects for a lake in close equilibrium with the climate. If human-originated climate change were altering the lake, the average would decline (or rise), but nothing remarkable is found during the entire industrial age, from 1800 to today. Climate change, clearly, is not the main threat to the lake.

The Great Salt Lake has important environmental, ecological and dollar values. The lake is responsible for a local “lake effect precipitation” — typically 10% of the average 16 inches a year is provided to areas toward the east. The semi-arid Great Salt Lake region has highly variable annual rainfall. The year 1979 was the driest year on record with 8.70 inches of measured rainfall, while only four years later, 1983 was the wettest year on record, with 24.26 inches.

The large variation in annual rainfall is due to weather, not climate change. The “average” Great Salt Lake level has been nearly constant over hundreds of years. The rapid variation in area results from evaporation and water diversion in the shallow lake.

The Great Salt Lake is a major tourist attraction for water sports, for viewing migratory birds and for enjoying the spectacular Utah scenery in quiet contemplation. If the Great Salt Lake is strangled by water diversion, its benefits — and a part of the soul of Utah — disappear. The Great Salt Lake wetlands are, biologically, highly productive sites and a critical wildlife habitat. The lake’s wetlands are essential resting and feeding sites for migratory birds. The rapidly expanding wind turbine “farms” on the Great Plains are directly in the paths of migratory birds, increasingly slaughtering them. Eliminating the migratory bird habitats could easily be a coup de grâce for those beautiful birds.

“Climate change” is blamed for lots of things, but water diversion is the greatest threat to the Great Salt Lake. Utahns should oppose water diversion for real estate development, and work to maintain natural water flows into the lake. The lake will still fluctuate, but as for thousands of years, it will not disappear.

Decisions affecting Utah’s land and natural resources should be made by Utahns, not by unelected bureaucrats in the federal government or real estate developers. Utah needs to take back control of its land, as Eastern states have already done, and then do what’s best for Utah, and for its beautiful resource, the Great Salt Lake.

William Hayden Smith holds a doctorate in chemistry from Princeton University and is now a professor of earth and planetary sciences at Washington University in St. Louis, Missouri. His most recent work is at the interface of climate and energy and can be seen at www.unpopular-truth.com.



The sun sets on the Spiral Jetty on the Great Salt Lake on March 16. Utah Gov. Spencer Cox nominated Brian Steed to serve as Utah's first-ever Great Salt Lake commissioner last week.



Great Salt Lake Collaborative
Brian Steed, Utah Gov. Spencer Cox's pick to be the Great Salt Lake commissioner, speaks with members of the Great Salt Lake Collaborative in an online meeting Tuesday. If confirmed, he could start as early as July 1.

New Great Salt Lake commissioner says he hopes Utah avoids 'Great Salt Lake fatigue'

'I think we all have to avoid Great Salt Lake fatigue,' Brian Steed said as he spoke with members of the Great Salt Lake Collaborative on Tuesday

By Carter Williams
KSL.com

Editor's note: This article is published through the Great Salt Lake Collaborative, a solutions journalism initiative that partners news, education and media organizations to help inform people about the plight of the Great Salt Lake — and what can be done to make a difference before it is too late.

Brian Steed is still piecing together what his next job will entail, but he already has at least one goal in mind before becoming the state's first-ever Great Salt Lake commissioner.

He wants to make sure Utahns are still engaged in the process of helping the lake's recovery, because it's not going to happen overnight.

"I think we all have to avoid Great Salt Lake fatigue," said Steed as he spoke with members of the Great Salt Lake Collaborative Tuesday, after expressing his concern that people may revert back to practices that helped drain the Great Salt Lake over the past few decades. "I think that those kinds of small changes and choices (in water use) can make a big impact, collectively."

Utah Gov. Spencer Cox nominated Steed, the executive director of Utah State University's Janet Quinney Lawson Institute for Land, Water and Air, to be the state's first-ever Great Salt Lake commissioner last week, pending confirmation by the Utah Legislature. It's unclear when that confirmation will take place, but Steed could begin his new job — while retaining his current job — as early as July 1.

If and when he is confirmed, he's ready to hit the ground running because his team will have to put together an initial report for Utah leaders by November.

What does a Great Salt Lake commissioner do?

The Utah Legislature approved a bill that created the role of Great Salt Lake commissioner this year. The commissioner

is tasked with meeting various agencies that study the lake and with Utah government leaders, as well as preparing "an approved strategic plan for the long-term health" of the lake, according to HB491.

That's sort of what Steed was already doing. He, his USU colleagues, members of the University of Utah and three state agencies joined forces to create the Great Salt Lake Strike Team, a coalition of some of the state's top research minds together to come up with solutions to the drying lake. The team issued a report earlier this year that offered lawmakers a look at what happened to the Great Salt Lake and what they can do to help fix the problem.

The new job comes with at least some level of policy power, though.

Cox explained that the new position comes with a "lot of authority" to bring all the governor's cabinet members and the state's water managers together, when he was asked about this during his monthly meeting with Utah journalists last week. The commissioner also reports directly to the governor and legislative leaders on issues about the Great Salt Lake, making this leadership the "significant authority and leverage" with the job.

"This position is really unprecedented. We've never had a position like this," Cox said.

The job is also more of a "coordinational role" than any sort of regulatory role, Steed explained. A large part of the job is tracking Great Salt Lake data and identifying what is and isn't working at the moment so solutions can be discovered.

But he said having the ear of the governor and legislative leaders likely gives the position a "large policy lever to pull," especially when state agencies and water managers are able to find something that needs to be addressed from a legislative standpoint.

"Brian gets to walk into a room now with the full backing of legislative leadership, as well as the executive branch," Cox pointed out. "That's a pretty big deal."

The work continues

The Great Salt Lake is continuing to rise as a result of this year's record snowpack. The Great Salt Lake's Saltair Boat Harbor site is now up to 4,193.4 feet elevation — more than 5 feet above its estimated lowest point in November, according to U.S. Geological Survey data.

Yet, Steed points out that the primary factors that contributed to the Great Salt Lake's decline, such as water overconsumption, "have not changed" much over the past six months. The Great Salt Lake Strike Team's report found that between 67% and 73% of the lake's water is lost to "natural and human consumptive use."

In addition, some of the lake's toxic dust is still blowing into Utah communities during storm events even after all the water the lake has received this spring.

"My guess is we're going to see continued challenges on the Great Salt Lake ecosystem over longer time horizons," Steed said. "So while, yes, we're all very heartened by the recent year we've had, we still have great cause for concern."

This is why Utah leaders continue to expand their messaging around reducing water even after such a prolific winter, offering a new turf grass buyback program and launching a new public service announcement promoting the removal of ornamental grass lawns.

The report outlined other possible solutions, noting that programs to optimize agricultural water use and for water rights holders to lease their water to temporarily go directly to the lake are likely the state's best bang-for-your-buck options. It estimates that Utah could send 180,000 acre-feet of additional water to the Great Salt Lake just by reducing agricultural consumption by 15%, while the state's leasing program could net an additional 200,000 to 300,000 acre-feet of water.

These options are already in motion. Steed said he's eager to help negotiate potential leases, which could be similar to water donations made by The Church of Jesus of Christ of Latter-day Saints and Rio Tinto Kennecott over the past few years.

He added that the strike team report is a "good first start" when it comes to future policy, clarifying that the report offered a slew of options to consider more than it provided guidance. The team is already set to issue a follow-up report later this year, but he believes his role is to come up with a game plan for the lake.

"Quite candidly, I think there's really good information in (the report) and I think it would be foolish to put that aside," he said. "There's lots of good information out there. Part of what I think we need to do is to synthesize that into something more actionable."

Fighting lake 'fatigue'

Every dataset right now points to 4,198 feet elevation as being the Great Salt Lake level objective at the moment. Researchers say that it's the minimum level for the lake to still be considered healthy. It's not exactly clear how quickly the lake can return to those levels unless there's another record winter or Utahns drastically change the way they view water, Steed said.

This uncertainty means that the same message about saving water will continue to play out for a long, long time. Steed said he's hopeful that it becomes a message that Utahns ingrain in their daily habits, much like residents have in other dry places across the globe like Israel.

The ultimate goal is to avoid the toughest possible conversation, which could be whether Utah should spend billions of dollars on a pipeline to bring water to the Great Salt Lake or spend billions to mitigate all the dust from the dried-out lake.

Avoiding that debate will likely require ways to keep people engaged in the process, which could be simply reflecting back at the "successes" made in the long journey to protect the lake, Steed says. One of the early wins so far is acknowledging the importance of the lake and finding ways to try and save it.

"I think there's this fear we're all looking at Sisyphus pushing this rock up the hill and it's just exhausting ... and no one ever stops to look and say 'we've actually made some effort in pushing the rock up the hill,'" he said. "We've made some gains and those choices, those changes have made an impact."



The railroad causeway is breached on the Great Salt Lake on May 2.