



AGENDA

IDAHO WATER RESOURCE BOARD

Finance Committee Meeting No. 7-24

Friday, November 8, 2024

10:00 a.m. (MT) / 9:00 a.m. (PT)

Water Center

Conference Rooms 602 C & D

322 E. Front St.

BOISE

Brad Little

Governor

Jeff Raybould

Chairman

St. Anthony

At Large

Jo Ann Cole-Hansen

Vice Chair

Lewiston

At Large

Dean Stevenson

Secretary

Paul

District 3

Dale Van Stone

Hope

District 1

Albert Barker

Boise

District 2

Brian Olmstead

Twin Falls

At Large

Marcus Gibbs

Grace

District 4

Patrick McMahon

Sun Valley

At Large

Livestream available at <https://www.youtube.com/@iwrp>

1. Introductions and Attendance
2. Groundwater to Surface Water Conversion Grants Update
3. Water District 63 Project Proposal*
4. ARPA Spending Plan*
5. Bureau Of Reclamation ESPA Telemetry Grant Program*
6. Other Items
7. Adjourn

Committee Members: Chair Jo Ann Cole-Hansen, Jeff Raybould, Marc Gibbs, Dale Van Stone, and Dean Stevenson.

* Action Item: A vote regarding this item may be made at this meeting. Identifying an item as an action item on the agenda does not require a vote to be taken on the item.

Americans with Disabilities

The meeting will be held in person and online. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email jennifer.strange@idwr.idaho.gov or by phone at (208) 287-4800.

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 Fax: (208) 287-6700 Website: idwr.idaho.gov/IWRB/

Memorandum



To: Idaho Water Resource Board
From: Neeley Miller, Planning & Projects Bureau
Date: November 7, 2024
Re: Groundwater to Surface Water Conversion Grant Update

Action: No action at this time

On July 26th 2024 the IWRB passed resolution no. 38-2024 adopting criteria for the award of groundwater to surface water grants from the Water Management Account. The IWRB has budgeted \$20M for this effort. The application deadline was set for October 4, 2024.

A total of 13 applications were received requesting over \$23M. Staff are in the process of reviewing and scoring these applications based upon the criteria adopted by the IWRB. In several instances, staff reached out to applicants to request additional information before proceeding with the evaluation.

Staff plans to complete the review of these applications in November and will present evaluations/scoring at a Finance Committee meeting in early December 2024.

Attachment(s):

2024 GW to SW Conversion Grant Applications

2024 GW to SW Conversion Grant Applications

Entity	Project	Funds Requested	Total Project Costs	
AAFGWD	Lake Channel Pipeline	\$1,337,379.00	\$2,674,759.90	
BGWD	Morgan Enterprises	\$91,882.50	\$183,765.00	<i>requested more information</i>
BGWD	S&L Murdock	\$123,481.10	\$246,962.20	<i>requested more information</i>
BGWD	V&L Cornelison	\$32,573.12	\$65,146.23	
BGWD	R&L Polatis	\$183,666.00	\$367,332.00	<i>requested more information</i>
BJGWD	Osgood Pipeline	\$5,000,000.00	\$25,367,120.00	
BJGWD	Brett Jensen Farms	\$65,640.00	\$131,280.00	<i>requested more information</i>
City of Mt. Home	Lagoon Cell 10	\$5,000,000.00	\$10,866,600.00	<i>requested more information</i>
MVGWD	Large Conversion	\$5,000,000.00	\$26,683,560.00	
MVGWD	McManus	\$131,285.70	\$175,047.60	
MVGWD	PKD Properties	\$21,617.20	\$43,234.40	
* Raft River	Watershed Conversion	\$5,000,000.00	\$54,595,803.00	
SRVID	West Branch Canal Improvements	\$1,343,100.00	\$2,686,200.00	<i>requested more information</i>
	Total Funds Requested	\$23,330,624.62	\$124,086,810.33	

Memorandum



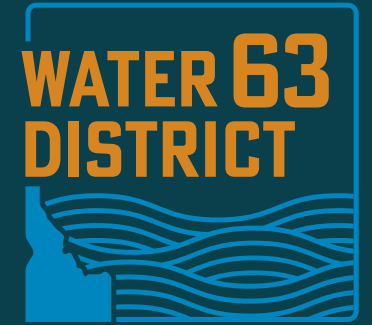
To: Idaho Water Resource Board
From: Neeley Miller, Planning & Projects Bureau
Date: November 7, 2024
Re: Treasure Valley Water Supply Project

Action: Make recommendation regarding adding additional project phases to the Priority List, consider funding recommendation

The IWRB added phase-one of the Treasure Valley Water Supply Project to the Regional Water Sustainability Priority List in July 2023 (resolution no. 31-2023) and approved contract terms and conditions for this project (resolution no. 40-2023).

Representatives from Water District 63 will provide a presentation on the Treasure Valley Water Supply Project.

Treasure Valley Water Supply Project



November 2024 IWRB Finance Committee Meeting

Presented by:

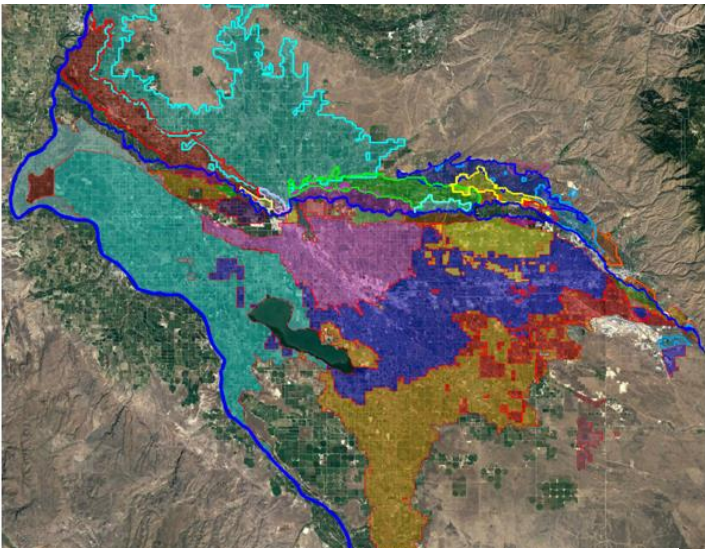
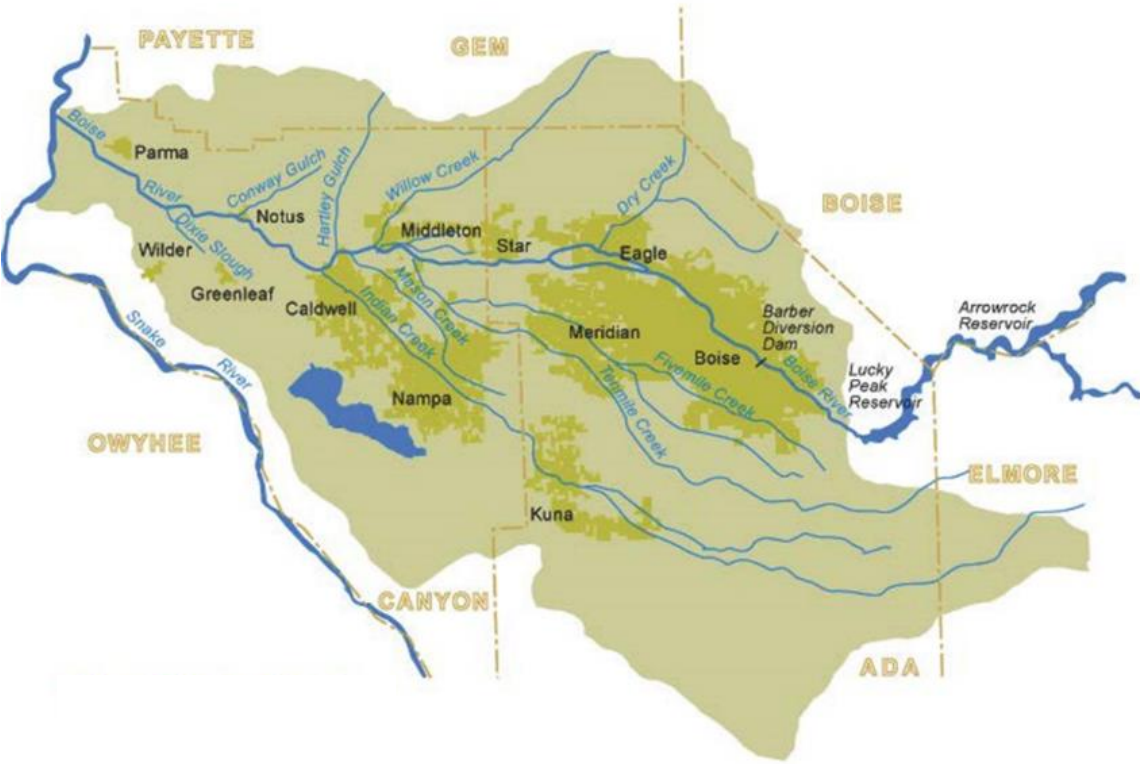
Daniel Hoke – Water District 63

Mike Schubert – HDR

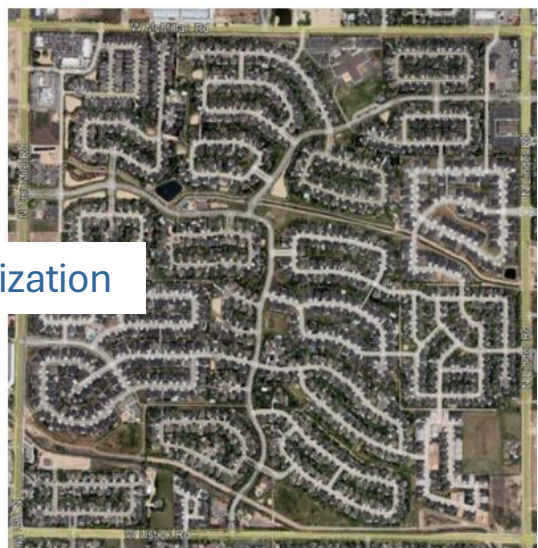
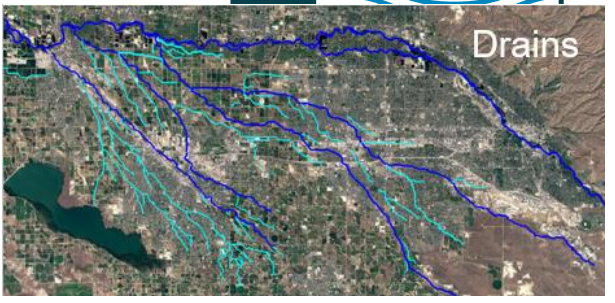
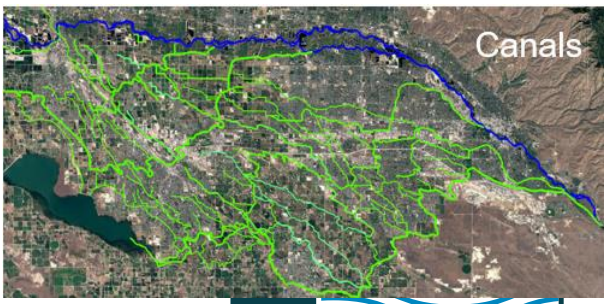
Agenda

- Project Background
- Phase 1 Update
- Phase 2 Funding Request
- Fifteenmile Creek Regulating Facility- Upcoming Request

The Watershed



Treasure Valley Irrigation Organizations



Urbanization

WD63

Treasure Valley Water Supply Project

- The drains in the Treasure Valley are our Thousand Springs
- Surface water delivery historically has relied on drain return flow
- Changes to the Treasure Valley landscape (land use, irrigation practice, delivery systems, operations) have impacted drain flow
- Water District 63 is leveraging data collection, automation, and analytics to understand the changes and facilitate collaboration among stakeholders



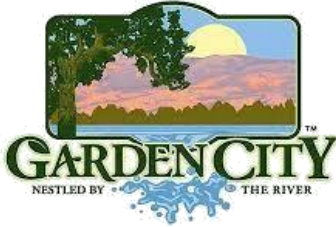
Objective

To avoid additional administration of water rights within the Boise River basin by **improving data collection and water management on the drains.**



Treasure Valley Water Supply Project

Project Partners





History

- **1860's-1900's:** Irrigation system built, Treasure Valley is settled, Irrigation Districts are formed
- **1910-1925:** Solving the drainage problem
 - Rising water table results in water-logged lands
 - Natural waterways were straightened, deepened, widened to convey water, drop water table

Water delivery downstream of Caldwell relies entirely on drain return flow

Boise River June 30, 2022 Low Flow

On June 30th of 2022 Water District 63 did not have enough water in the Boise River to supply the demand below Caldwell. The only reason we were able to deliver water to 5 different canal companies and farmers was that we had BOR flow augmentation water in the river. Looking at the accounting, we were approximately 150 CFS short.

WATER DISTRICT 63 - BOISE RIVER FLOW ACCOUNTING (VER 2.1.2.126) - Jun 30, 2022												20221004	
REACH FLOWS IN CFS	ACTUAL DATE	NATURAL FLOW	ACTUAL FLOW	REMAINING NAT FLOW	OPERATN FLOW	STORED RESRVOIR FLOW	NATURAL EVAP FLOW	TOTAL RCH DIV	NATURAL DIV	TOTAL DIV	REACH GAIN	REACH LAST RIGHT	
TWIN SPRINGS	Jun 30	2052.	2050.	2050.	0.	0.	0.	2.	2.	2052.	19031214		
FEATHERVILLE	Jun 30	1101.	1090.	1091.	0.	-1.	0.	10.	11.	1101.	19031214		
FTHRVL TO ANDERSN RANCH	Jun 30	1168.	585.	1158.	0.	-573.	22.	0.	0.	67.	19031214		
ANDSN RANCH TO ARROWROCK	Jun 30	3298.	4042.	3286.	0.	755.	14.	0.	0.	78.	19031214		
MORES CREEK	Jun 30	187.	182.	182.	0.	0.	0.	4.	5.	187.	19031214		
ARROWROCK TO LUCKY PEAK	Jun 30	3500.	4293.	3484.	0.	809.	14.	0.	1.	15.	19031214		
LUCKY PEAK TO DIVSN DAM	* Jun 30	3430.	2181.	1628.	0.	553.	0.	1786.	2112.	-70.	19031214		
DIVSN DAM TO BOISE	* Jun 30	3430.	1730.	1180.	0.	550.	0.	448.	450.	0.	19031214		
BOISE TO GLENWOOD BR	Jun 30	3274.	1320.	776.	0.	544.	0.	248.	254.	-156.	19031214		
GLENWOOD BR TO MIDDLETN	Jun 30	3391.	794.	0.	250.	544.	0.	643.	644.	117.	19031214		
MIDDLETON TO CALDWELL	Jun 30	3800.	721.	127.	50.	544.	0.	481.	481.	409.	19500511		
CALDWELL TO NOTUS	* Jun 30	4055.	578.	0.	50.	528.	0.	383.	398.	255.	19500511		
NOTUS TO PARMA	Jun 30	4532.	764.	378.	0.	387.	0.	149.	197.	476.	20220101		
* - INDICATES FLOW ESTIMATED, NOT MEASURED							TOTALS:		4154.	4555.	4532.		

June 30, 2022

Drain	June 30 Mean Daily Flow, 2017-2022 (cfs)	June 30, 2022 Mean Flow (cfs)	Difference (cfs)
Eagle Drain	34	40	+6
Fifteen Mile Creek	103	97	-6
N Middleton Drain (Mill Slough)	38	25	-13
S Middleton Drain	71	43	-28
Mason Creek	151	75	-76
West Hartley Gulch	21	12	-9
East Hartley Gulch	55	47	-8
Conway Gulch	31	27	-4
Dixie Drain	160	135	-25
TOTAL	664	501	-163

Lessons from June 30, 2022

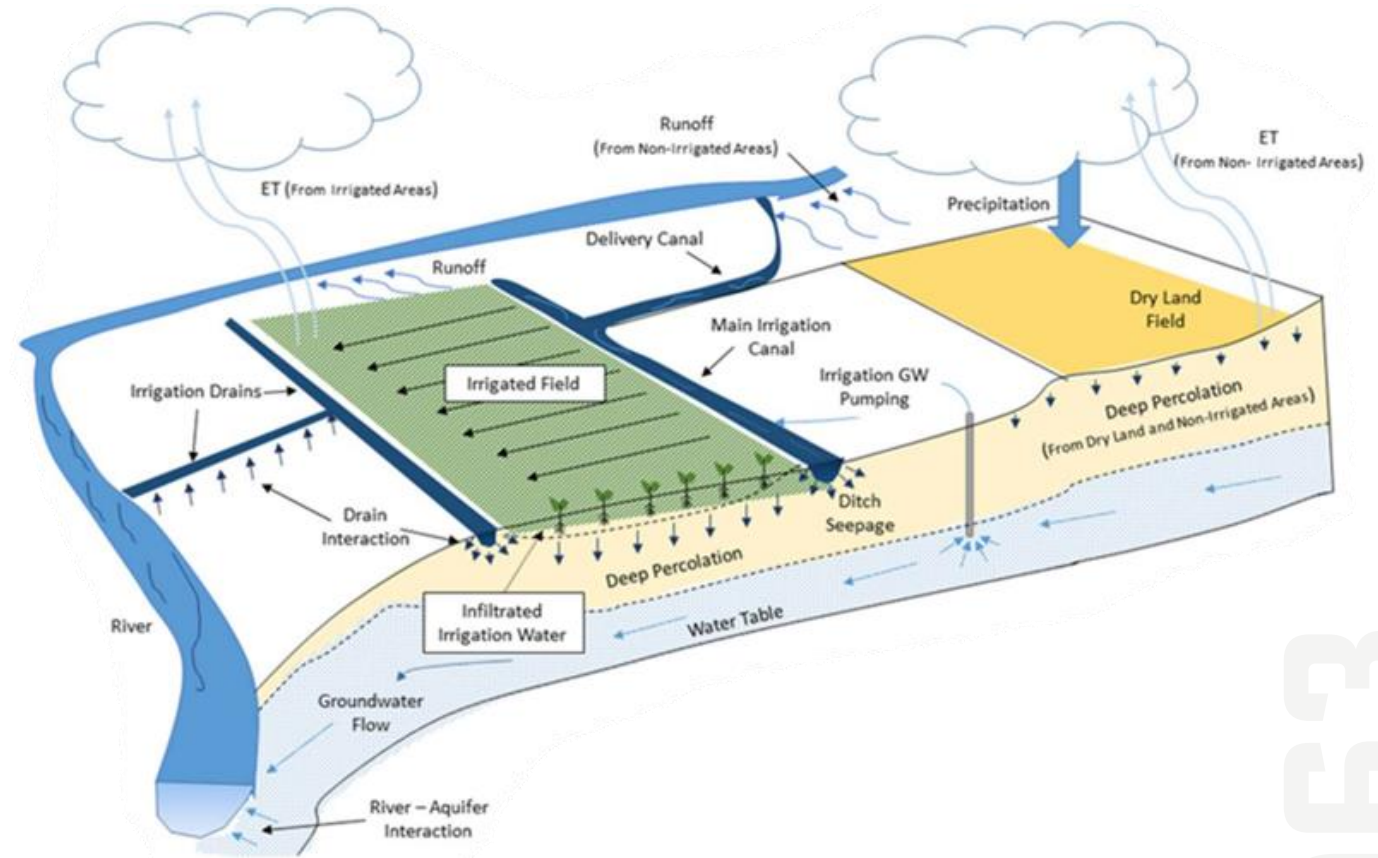
- Remaining natural flow in Boise River approached zero flow between Caldwell and Notus.
- WD63 should not have been able to make deliveries in this reach.
- WD63 needs to understand real-time and future drain flows to continue to properly deliver Boise River surface water.

If this trend continues...

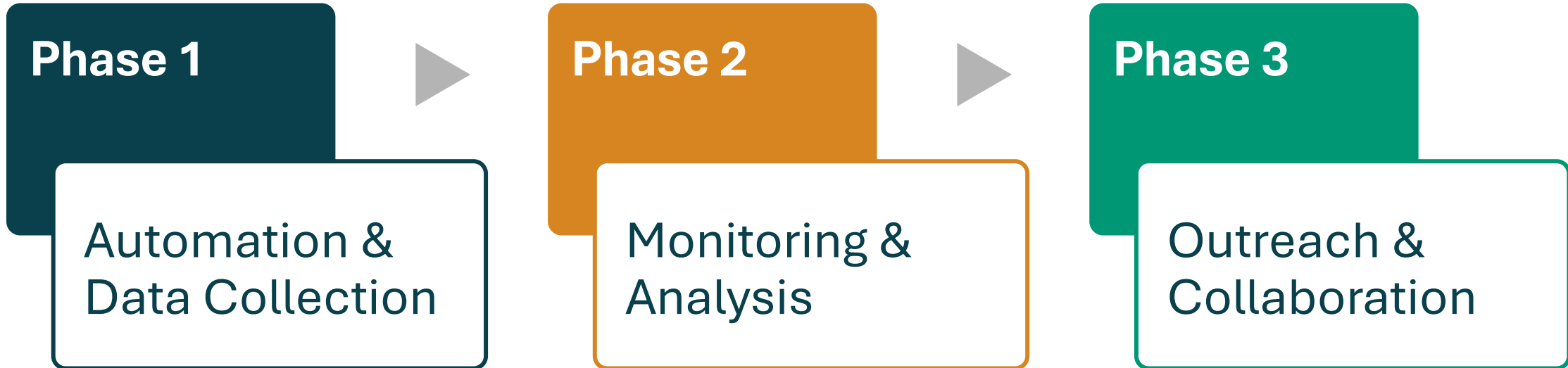
- Downstream water rights will likely be shorted
- State law will require WD63 to administer water rights on the Lower Boise River and its tributaries

What causes reduced return flows?

- Urbanization
- Irrigation practice – conversions from flood irrigation to pressure
- Preferential use of drain water in canal system
- Year to year water availability
- Groundwater levels
- Climate change
- Tighter management and water conservation



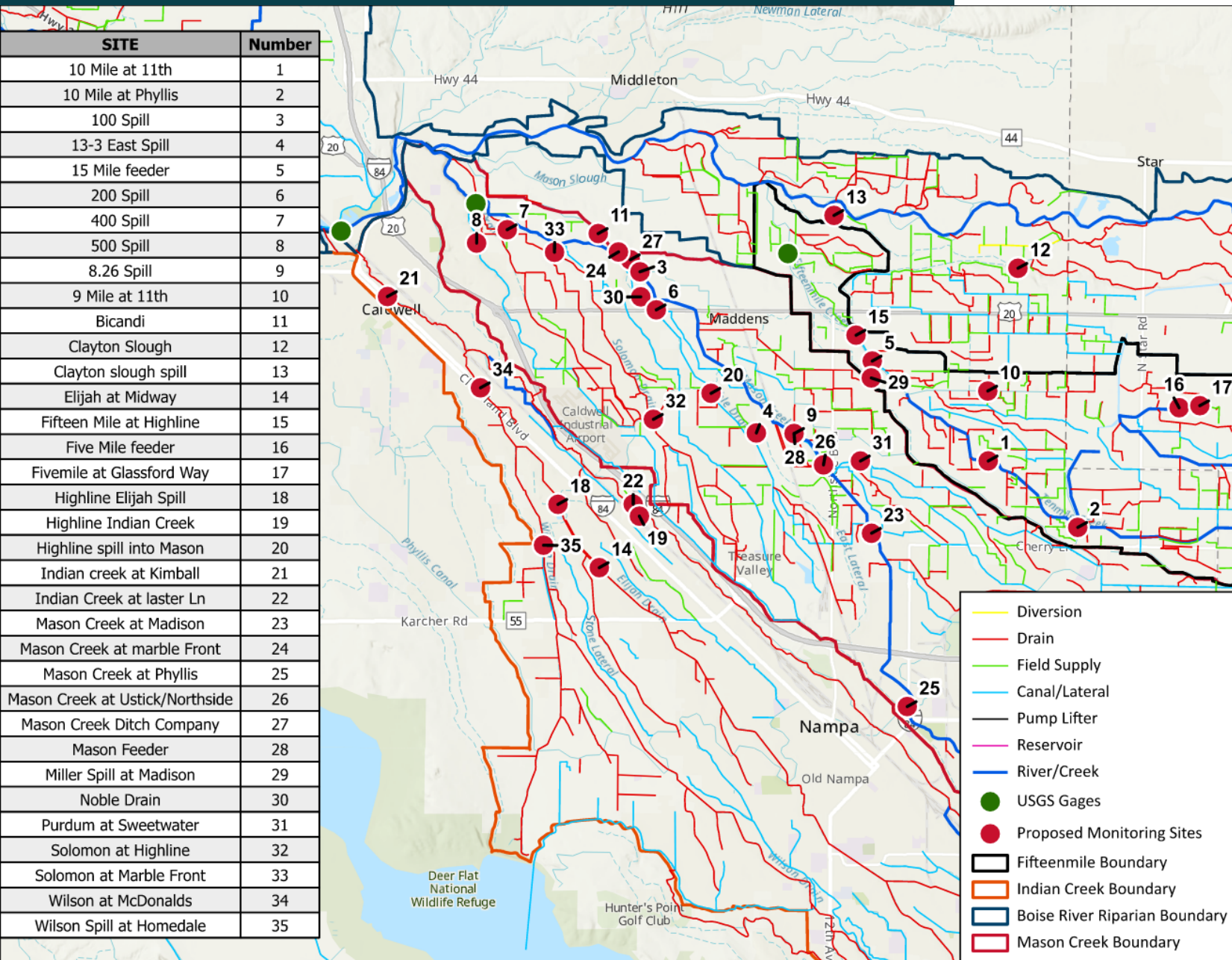
Treasure Valley Water Supply Project



WD63

TVWSP Phase 1- Complete

- Equipment Installation
- Boise River Mass Balance
- Trend Analysis
- Tributary Flow Evaluation

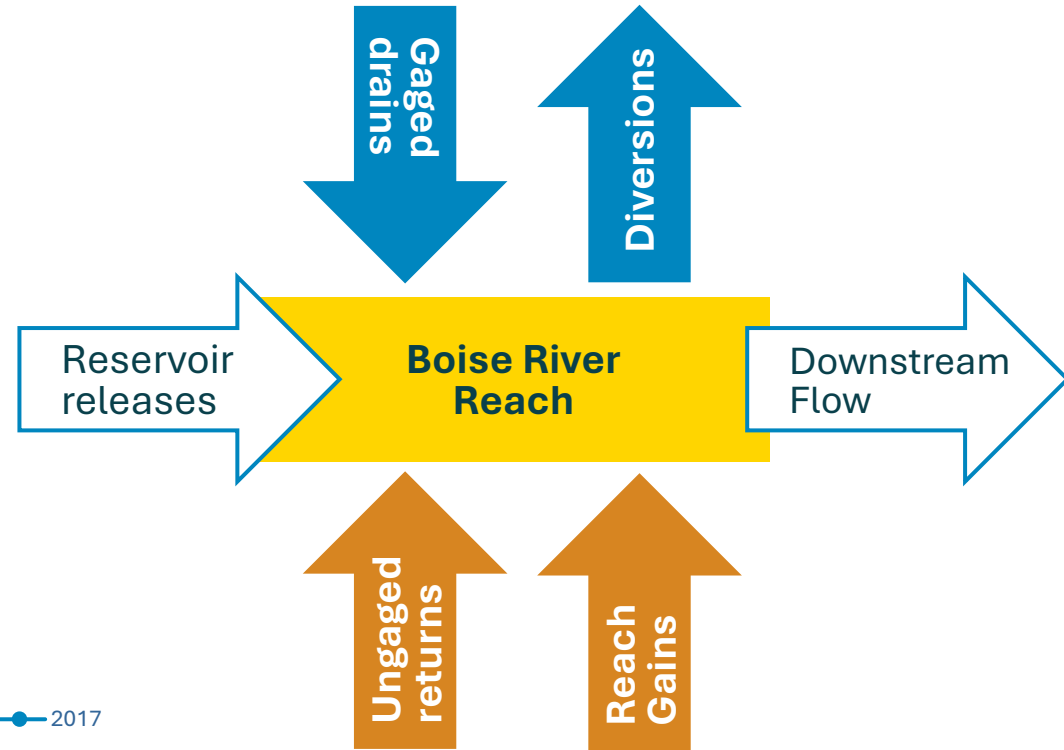
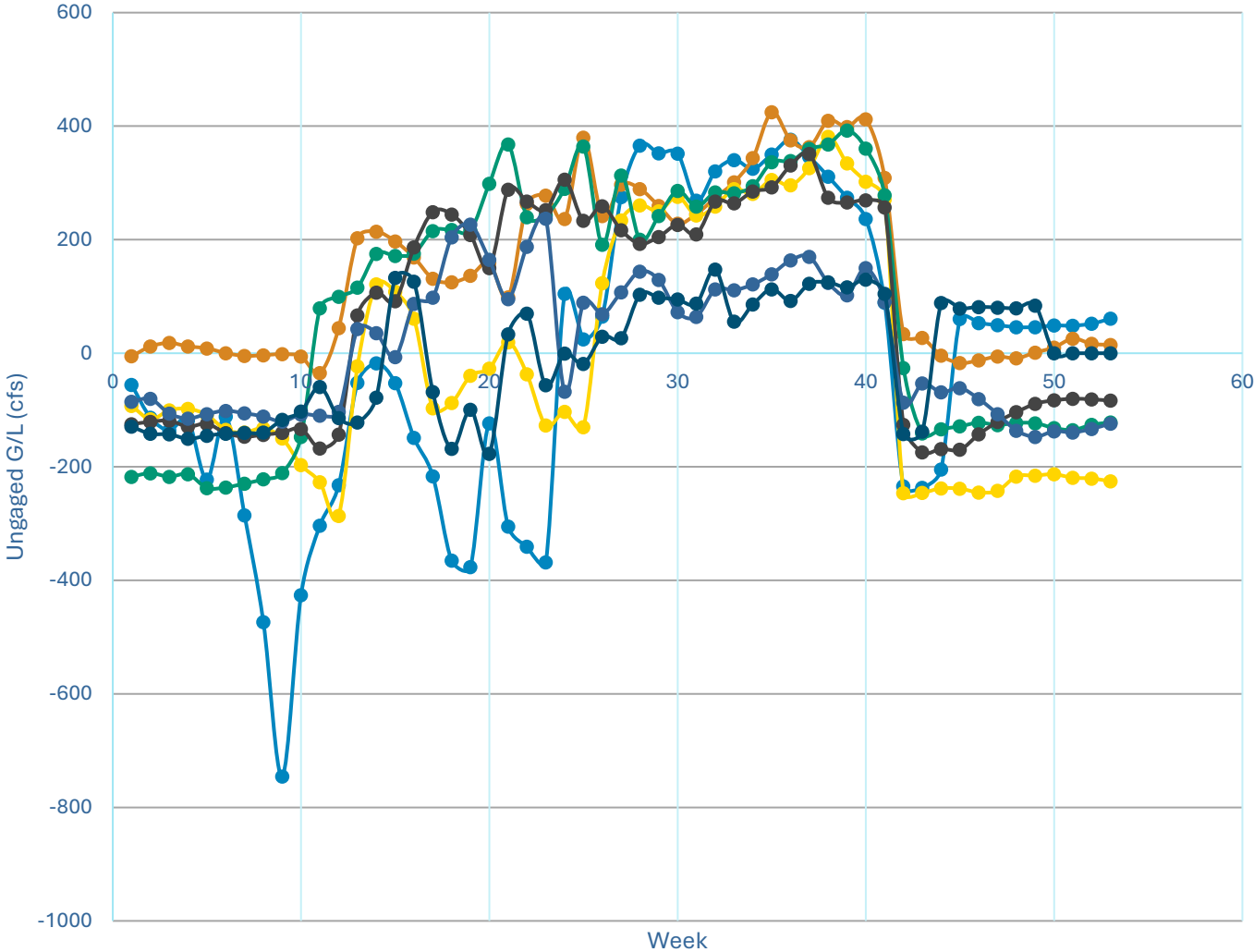


Monitoring Sites Installed

- LoRaWAN telemetry established for Treasure Valley (Ethos Connected)
- Drain flow, spills, and returns measured in Fifteenmile Cr., Mason Cr., and Indian Cr.
- [Ethos Connected Dashboard](#)

Boise River Mass Balance and Trend Analysis

Middleton to Caldwell



- 2017
- 2018
- 2019
- 2020
- 2021
- 2022
- 2023

Influence of Urbanization and Climate on Irrigation Drainage Flows to the Boise River

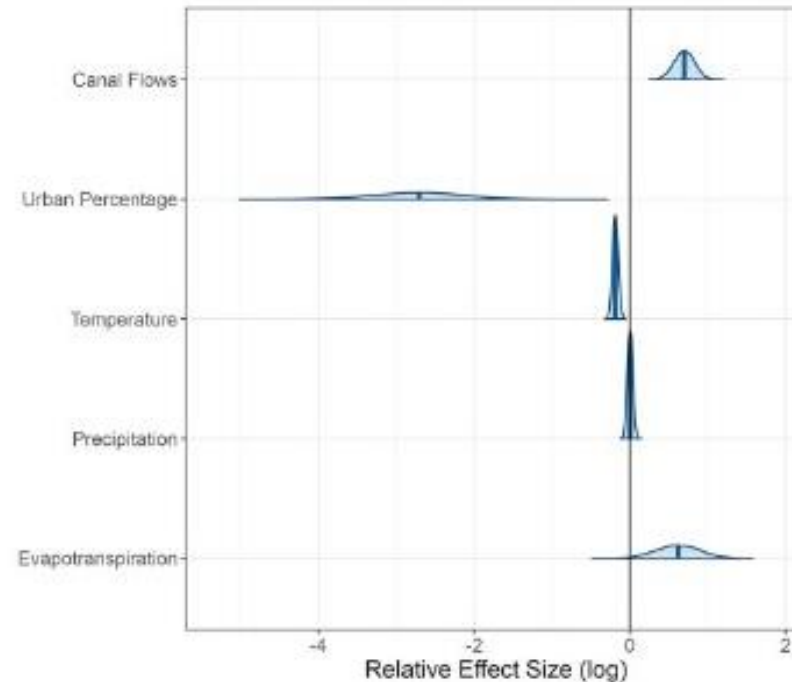
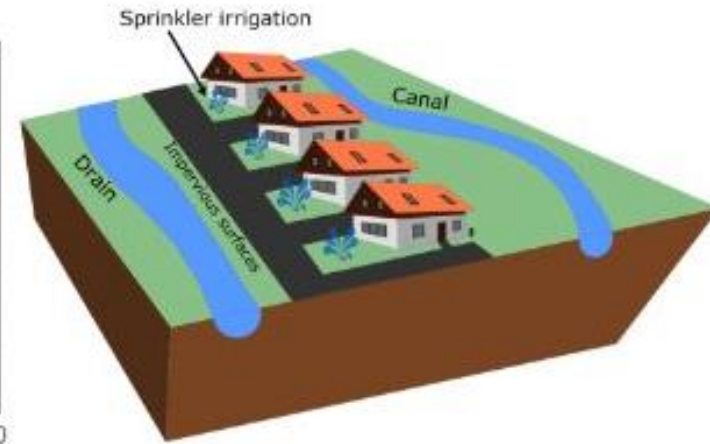
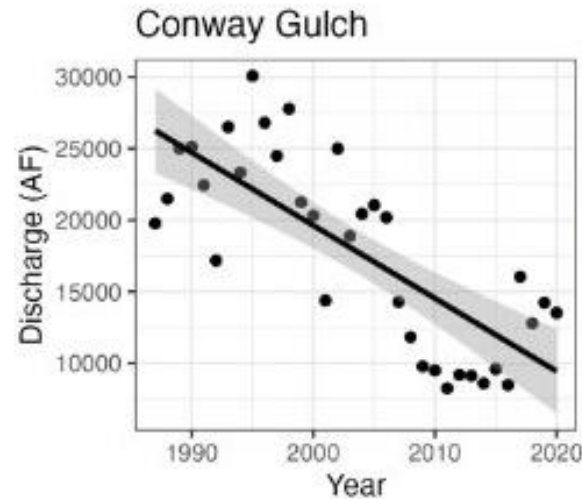
Bridget Bittmann¹, Kendra E Kaiser¹,
Mike Meyers², and Daniel Hoke²

¹Boise State University, Department of Geoscience

²State of Idaho Water District 63

- Observed 6/15 of the drains had a significant decreasing trend through time
- ↑ Urban area = ↓ drainage flows
- ↑ Canal inflows = ↑ drainage flows
- ↑ Evapotranspiration = ↑ drainage flows
- ↑ Temperatures = ↓ drainage flows

Contact Kendra Kaiser with any questions –
kendrakaiser@boisestate.edu



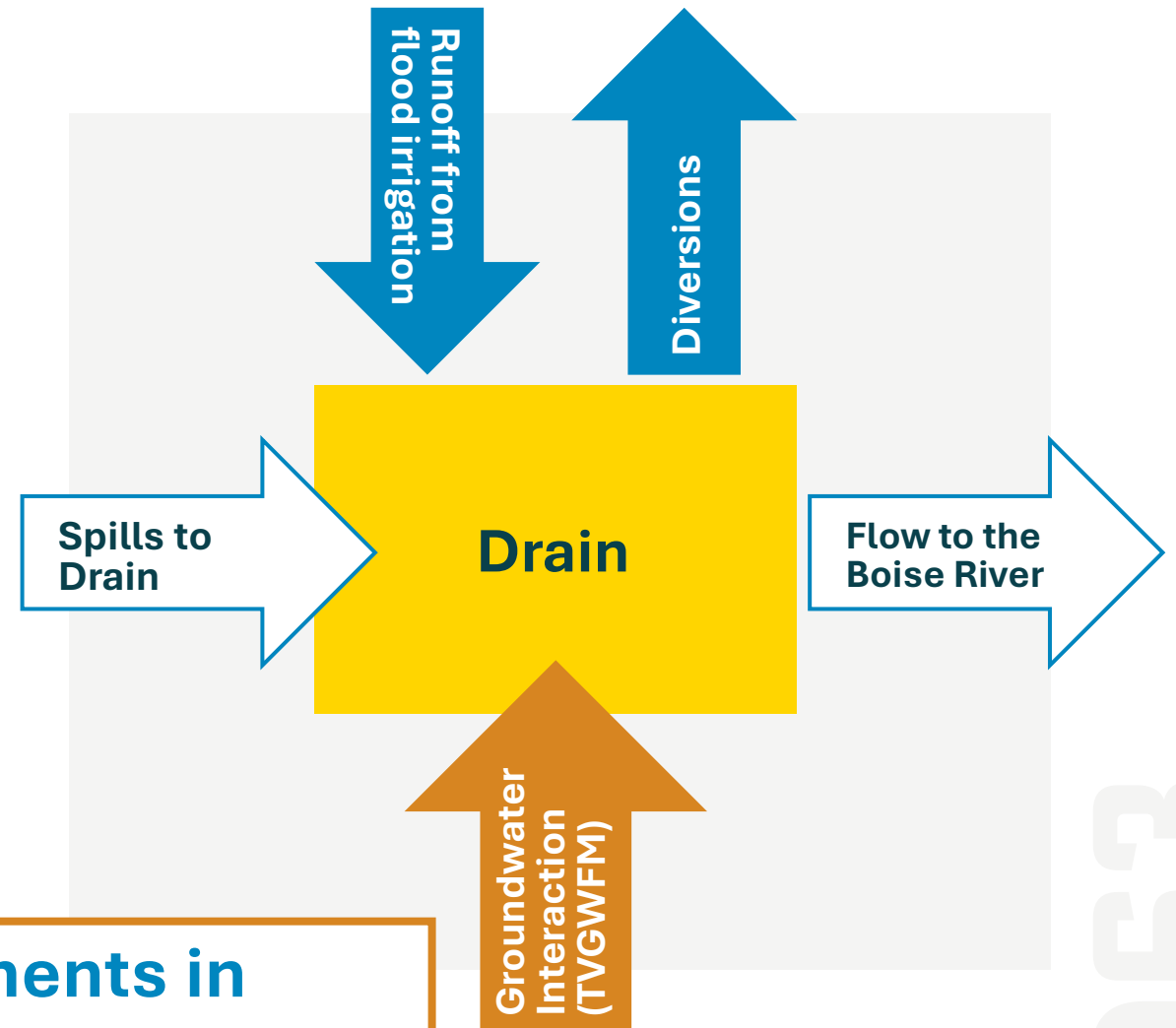
TVWSP Phase 2- Modeling and Analytics

- Project and anticipate return flows to the Boise River
 - Groundwater Trends
 - Development Trends
 - Irrigation and delivery efficiency
 - IWRB aquifer recharge scenarios
- Develop real-time data to inform Water District 63 delivery operations

Completing the Hydrologic Picture

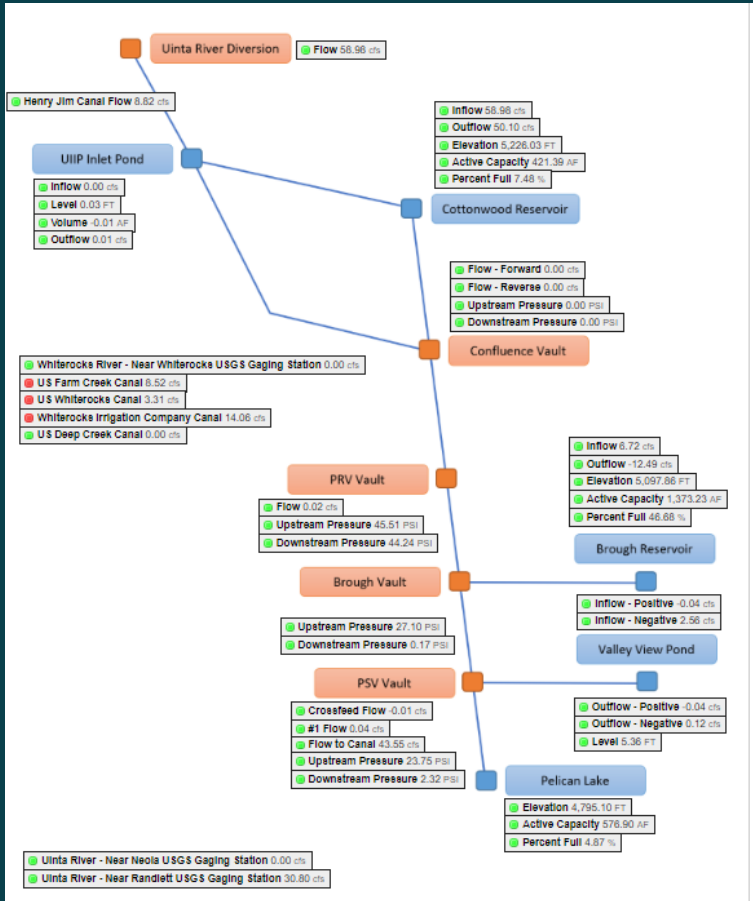
- Hydrologic Modeling to project future drain flow based on future land use, irrigation practice, operations, and groundwater
- Treasure Valley GWF Model
 - Groundwater flow to drains
 - Land use/ET data
- Evaluate IWRB Recharge Scenarios
- Incorporate changes to direct runoff and water delivery operations

This project builds on IWRB's investments in groundwater and recharge to evaluate how WD63 will adapt to changes in the Treasure Valley



Real-time Data Dashboard

- Quick visual for flow conditions, comparisons to recent years, trends, and projections
- Operational data (returns, diversions, river flow) for WD63 to manage deliveries



This dashboard will allow WD63 oversee and manage deliveries throughout the Boise River System

Oaks Park Reservoir Outflow		11/07/2024 05:00PM MST	-14.99cfs
Leidy Peak Ditch Leidy Peak Ditch		11/07/2024 05:00PM MST	0.00cfs
Oaks Park Reservoir Elevation		11/07/2024 05:00PM MST	9,254.24FT
Deep Creek Ditch Deep Creek Ditch		11/07/2024 05:00PM MST	0.00cfs
Oaks Park Reservoir Active Capacity		11/07/2024 05:00PM MST	1,301.57AF
Oaks Park Reservoir Active Capacity Percentage Full		11/07/2024 05:00PM MST	22.23%
Ashley Creek Gauging Station (USGS) Stream Flow		11/07/2024 04:45PM MST	19.80cfs

Phase 2 Schedule

Task	Start	Finish
Grant Funding Awards	December 2024	January 2025
BI Dashboard Development	January 2025	May 2025
Field Data Collection	April 2025	August 2026
BI Dashboard Testing and Refinement	May 2025	May 2026
Hydrologic Model Development	January 2025	June 2025
Hydrologic Model Calibration and Verification	June 2025	June 2026
Future Conditions Simulations	June 2026	December 2026
Reporting	December 2026	May 2027

WD63

TVWSP Phase 2- Cost and Funding Summary

Budget Summary

Task	Cost
Field Work and Data Collection	\$120,230
Data storage, LoRaWAN Subscription, Flow data maintenance	\$151,200
Dashboard Development and Hydrologic Modeling	\$600,000
Total Project Cost	\$871,430

Funding Summary

USBR WaterSMART Applied Science Grant	\$400,000
Non-federal WD63 In-Kind Contribution	\$120,230
IWRB Funding Request	\$351,200
Total Project Funding	\$871,430



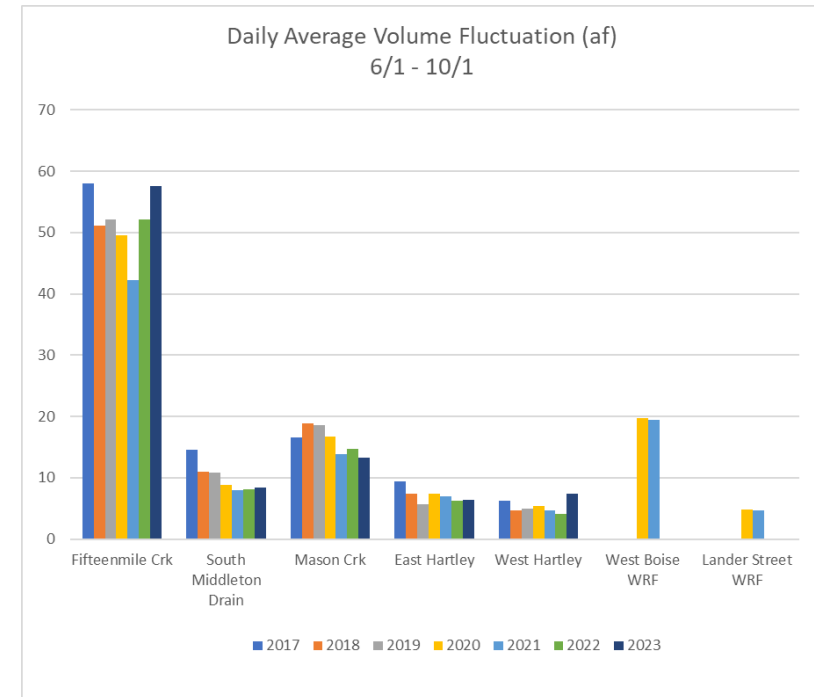
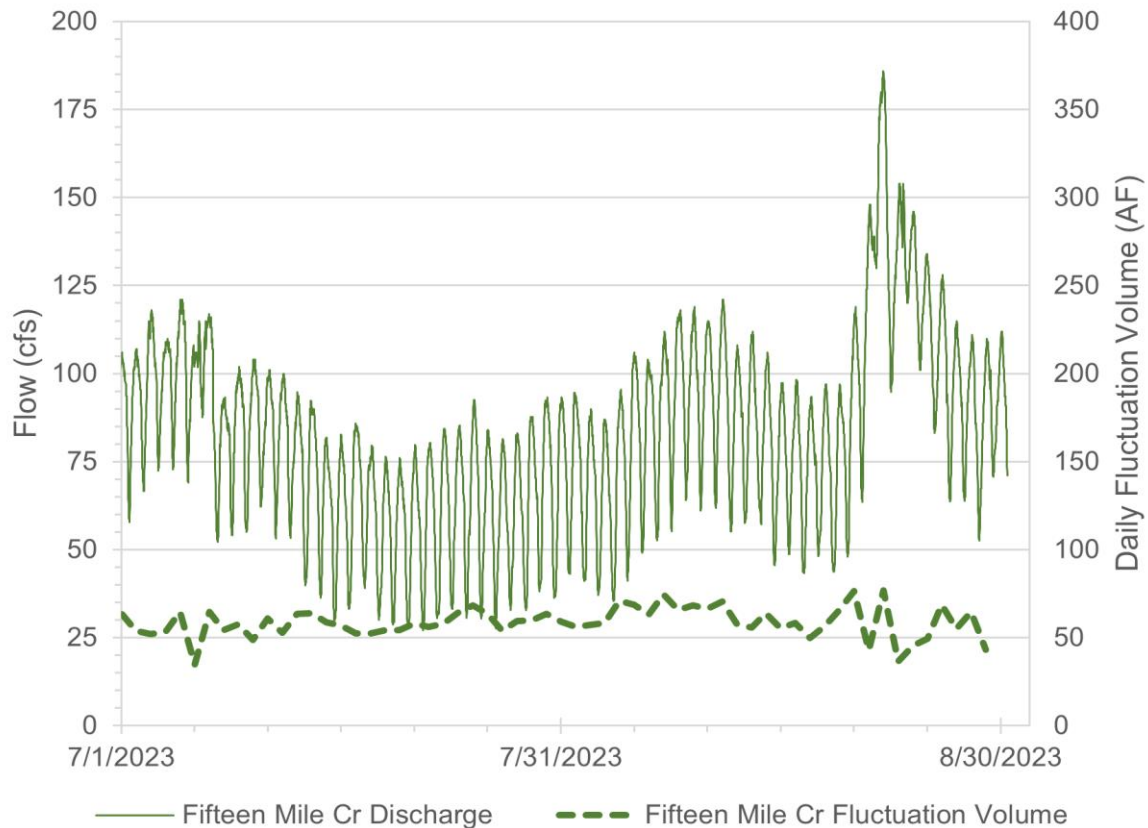
Phase 3: Manage and mitigate hydrologic impacts

- Surface water supply management and mitigation
- Groundwater management and mitigation (e.g. managed recharge)
- Water conservation incentives
- Water quantity and timing



15 Mile Drain Regulation

- Daily drain fluctuations impact WD63 deliveries in the Boise River
- WD63 could regulate Fifteen Mile Creek with 25 ac-ft
- Gravel pits exist near the Boise River confluence with adequate volume



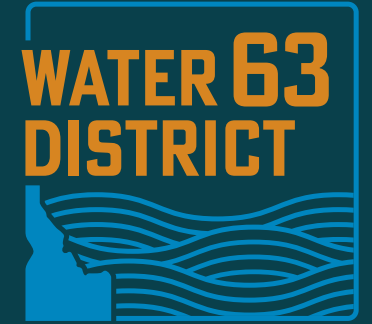


15-Mile Drain Regulation

- Water right discussions with IDWR
- Landowner Agreement
- Engineering Feasibility

WD63 plans to submit a funding request to IWRB for engineering feasibility in early 2025

Treasure Valley Water Supply Project



Objective

To avoid additional administration of water rights within the Boise River basin by improving data collection and water management on the drains.

Thank you for your time

Memorandum

To: Idaho Water Resource Board (IWRB)

From: Cynthia Bridge Clark

Date: November 7, 2024

Re: FY 2025 American Rescue Plan Act Funds (ARPA) Spending Plan and Status



REQUIRED ACTION: No action required.

The IWRB has developed spending plans to direct funding appropriated for regional water sustainability projects, grants, and loans. These projects are supported with state general funds, ARPA funds, and other sources. Since 2019, the Idaho Legislature has appropriated a total of \$325 million (excluding interest) to the IWRB's Water Management Account (WMA) and has set aside approximately \$250 million of the State's ARPA funding to support IWRB approved projects.

Federal ARPA guidance requires that funds are obligated and under contract by December 31, 2024, and that funds must be expended prior to December 31, 2026. The IWRB developed a spending plan for the entire \$250 million of ARPA funding and has obligated all the funds through contracts.

Staff will review the status of the IWRB's ARPA funding commitments with Finance Committee on November 8, 2024.

ATTACHMENTS(S)

- IWRB ARPA Funding Table

IWRB ARPA Funding

Received and Scheduled to Receive

\$250,000,000

	Spending Plan	Under Contract	Spent *
Anderson Ranch Dam Raise	\$112,500,000	\$112,500,000	\$73,346,406
MHAFB Water Pipeline	\$33,000,000	\$31,741,177	\$20,339,481
ESPA Recharge Infrastructure	\$14,000,000	\$15,272,065	\$4,969,792
American Falls Dam Spillway Repair	\$12,500,000	\$12,486,758	\$3,500,000
Lewiston Orchards Exchange Project	\$28,000,000	\$28,000,000	--
New York Canal Rehabilitation	<u>\$50,000,000</u>	<u>\$50,000,000</u>	<u>--</u>
TOTALS	\$250,000,000	\$250,000,000	\$102,155,679

**spent as of 9/2024*



Memorandum



To: File

From: *Justin Ferguson, Project Manager*

Date: November 8, 2024

Re: *DRAFT - Telemetry & Monitoring Program Administration Guidelines and Qualification Criteria*

Program Description

The Idaho Water Resource Board (IWRB) was awarded \$2 million dollars to promote water conservation efforts throughout the Eastern Snake River Plain (ESPA). This program is focused on helping irrigators throughout the ESPA with the costs of purchasing telemetry and monitoring equipment for ground and surface water diversions.

Funding under this program will be a cost-reimbursement contract, with invoices to be submitted to Staff for review and approval. Contracts will be limited to a one-year term, and proof of cost share is required at the time of application to keep the maximum amount of funding available.

Qualification Criteria

Eligible Projects:

Projects considered under this program are for the purchase of monitoring and telemetry equipment for both surface and groundwater diversions within the ESPA. Projects that are completed by the application deadline are not eligible for this program.

Eligible Entities:

Irrigation Districts, Irrigation Boards of Control, Canal Companies, Drainage Districts, Groundwater Districts, Ditch Companies, Lateral Ditch Users Associations, Reservoir Districts, Municipal Irrigation Districts (formed per Title 42, chapter 18, Idaho Code), Municipalities, Counties and Water Districts

Geographic Area

Limited to diversions within the Eastern Snake River Plane Common Groundwater Boundary

Award Limit

Funding under this program will be limited to 50% up to a maximum of \$250,000

Project Funding Method

Proposals for the purchase of automation and/or telemetry equipment will be scored on the following criteria:

Telemetry Equipment

- Up to 50 points can be awarded if the project proposes to install telemetry equipment on the Sponsor's diversion works

Monitoring Equipment

- Up to 30 points can be awarded if the project proposes to install monitoring equipment on the Sponsor's diversion works

Initial Equipment Installation

- Up to 10 points can be awarded if this is the first installation of telemetry and/or monitoring equipment on the Sponsor's diversion works

Description of Equipment Installed

- 5 points can be awarded if the Sponsor is able to provide a description of the equipment being installed

Diversion Rate Monitored and/or Telemetered

- Up to 20 Points will be awarded based on the proposed Project's total diversion rate to be monitored and/or telemetered.
 - Diversions monitored and/or telemetered for each project will be used to create a per round scoring system
 - Each application will then be scored based on where the proposal falls within that scoring system

Project Proposal & Clarity

- Up to 10 points can be awarded if the Sponsor provides a description of the Project and identifies the Project's need, proposed budget, and public interest
- Up to 5 points can be awarded if the Sponsor can provide plans, timeline, and drawings for the Project

Grant Application Requirements

- Grant applications will require the applicant to provide:
- Project background (infrastructure description, repair, rehabilitation, improvement needs/objectives/benefits)
- Project sponsor description (organization type, background, revenue sources, current operations)
- Project description (narrative, map, conceptual plan and design, land entitlements at project location, description of any known environmental issues).
- Cost estimate and budget
- Project funding sources (IWRB grant, other state and federal grants, sponsor's contribution)
- Project implementation schedule

Program Administration

Contracts under this program will be a 50% cost share of the total project costs. A final accounting of all funding sources used on the project may be requested by Staff at the end of the project for verification. Applications will be accepted year-round, with an annual deadline of the last Friday in March and an annual award date each *May*. In-kind services for installation work can be reimbursed for up to 50% of the total amount awarded; legal and Administrative in-kind services will be limited to 5%. Funding may be reallocated if the contract expires without a notification from the recipient or if the project is not completed within the award contract duration.

Application Process

Staff will review the funding request and, when necessary, schedule a meeting with the applicant to discuss the information provided. For a request to be considered complete, all sections of the application must be filled out, with supporting documentation provided where necessary. All incomplete applications will be held for 30 days from receipt; incomplete applications past 30 days will be declined and returned to the applicant, at which time a new, complete application must be submitted.

Funding requests will be presented to the IWRB Finance Committee for a recommendation at a scheduled meeting between the close of applications and the May IWRB meeting. Upon the receipt of a favorable recommendation, Staff will take the request to the IWRB for approval via funding resolution. Funding request applications that do not receive funding or do not receive a favorable recommendation will be declined and returned to the applicant. An unfavorable recommendation or incomplete application does not prevent applicants from applying in subsequent funding rounds.

Grant Submission

Completed applications can be emailed to the Idaho Water Resource Board's Grants Team at IWRBGrants@IDWR.Idaho.gov and must be received by 5:00 pm on the application date. Physical copies must be postmarked by the application date and can be mailed to:

Idaho Department of Water Resources
Attn: IWRB Grants Team - Telemetry & Monitoring Grant
P.O Box 83720
Boise, ID 83720

Applications can also be dropped off in person on the 6th floor of the Idaho Water Center in Boise, ID, and must be received by 5:00 pm on the application date. The Idaho Water Center is located at:

322 E. Front Street
Suite 648
Boise, ID 83702-7371

For questions on the application package or to schedule a meeting with the Grants Team, email us at IWRBGrants@IDWR.Idaho.gov and please specify the Telemetry & Monitoring Grant Program.