

**SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT MEETING NOTICE AND AGENDA**

**WATER COMMITTEE**

**Tuesday, January 23, 2024, 9:30 AM**

**SRP Administration Building  
1500 N. Mill Avenue, Tempe, AZ 85288**

Committee Members: Kevin Johnson, Chairman; Robert Arnett, Vice Chairman; and Mario Herrera, Anda McAfee, Kathy Mohr-Almeida, Mark Pace, and Paul Rovey

Call to Order  
Roll Call

- 1. **CONSENT AGENDA:** The following agenda item(s) will be considered as a group by the Committee and will be enacted with one motion. There will be no separate discussion of these item(s) unless a Committee Member requests, in which event the agenda item(s) will be removed from the Consent Agenda and considered as a separate item ..... CHAIRMAN KEVIN JOHNSON
  - Request for approval of the minutes for the meeting of December 7, 2023.
- 2. Verde Reservoirs Sediment Mitigation Project and SRP-Central Arizona Project (CAP) Interconnection Facility Project Updates ..... RON KLAWITTER  
  
Informational presentation regarding updates on the Verde Reservoirs Sediment Mitigation Project, including Bartlett Dam Modification alternatives and the SRP-CAP Interconnection Facility.
- 3. SRP Water Infrastructure Modifications Under the Arizona Department of Transportation (ADOT) Broadway Curve Project ..... JORGE GARCIA  
  
Informational presentation regarding SRP water delivery infrastructure modifications made or planned to be made as a result of the ADOT I-10 Broadway Curve Improvement Project.
- 4. Report on Current Events by the General Manager and Chief Executive Officer or Designees ..... JIM PRATT
- 5. Future Agenda Topics..... CHAIRMAN KEVIN JOHNSON

The Committee may vote during the meeting to go into Executive Session, pursuant to A.R.S. §38-431.03 (A)(3), for the purpose of discussion or consultation for legal advice with legal counsel to the Committee on any of the matters listed on the agenda.

The Committee may go into Closed Session, pursuant to A.R.S. §30-805(B), for records and proceedings relating to competitive activity, including trade secrets or privileged or confidential commercial or financial information.

Visitors: The public has the option to attend in-person or observe via Zoom and may receive teleconference information by contacting the Corporate Secretary’s Office at (602) 236-4398. If attending in-person, all property in your possession, including purses, briefcases, packages, or containers, will be subject to inspection.





MINUTES  
WATER COMMITTEE  
SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND  
POWER DISTRICT

**DRAFT**

December 7, 2023

A meeting of the Water Committee of the Salt River Project Agricultural Improvement and Power District (the District) convened at 9:30 a.m. on Thursday, December 7, 2023, from the Hoopes Board Conference Room at the SRP Administration Building, 1500 North Mill Avenue, Tempe, Arizona. This meeting was conducted in-person and via teleconference in compliance with open meeting law guidelines. The District and Salt River Valley Water Users' Association (the Association) are collectively known as SRP.

Committee Members present at roll call were K.J. Johnson, Chairman; M.J. Herrera, A.G. McAfee, K.L. Mohr-Almeida, M.V. Pace, and P.E. Rovey; and L.D. Rovey of the Association.

Committee Member absent at roll call was R.C. Arnett, Vice Chairman.

Also present were President D. Rousseau; Vice President C.J. Dobson; Board Members J.M. White Jr., L.C. Williams, and S.H. Williams; Council Vice Chairman J.R. Shelton; Council Liaison G.E. Geiger; Council Member M.C. Pedersen; Mmes. I.R. Avalos, A.P. Chabrier, L.F. Hobaica, M.G. Martin, C.M. McJunkin, L.A. Meyers, G.A. Mingura, K.M. Montalvo, C.M. Sifuentes, and K.L. Wilson; and Messrs. J.M. Baran, A.C. Davis, C.E. Ester, M. Feder, J.M. Felty, Z.J. Heim, C.R. Janick, R.T. Judd, M.J. Kolb, K.J. Lee, A.J. McSheffrey, M.S. Mendonca, M.J. O'Connor, J.M. Pratt, and P.B. Sigl.

In compliance with A.R.S. §38-431.02, Andrew Davis of the Corporate Secretary's Office had posted a notice and agenda of the Water Committee meeting at the SRP Administration Building, 1500 North Mill Avenue, Tempe, Arizona, at 9:00 a.m. on Tuesday, December 5, 2023.

Chairman K.J. Johnson called the meeting to order.

Consent Agenda

Chairman K.J. Johnson requested a motion for Committee approval of the Consent Agenda, in its entirety.

On a motion duly made by Board Member M.V. Pace and seconded by Board Member P.E. Rovey, the Committee unanimously approved and adopted the following item on the Consent Agenda:

- Minutes of the Water Committee meeting on November 14, 2023, as presented

Corporate Secretary J.M. Felty polled the Committee Members on Board Member M.V. Pace's motion to approve the Consent Agenda, in its entirety. The vote was recorded as follows:

YES:	Board Members K.J. Johnson, Chairman; and M.J. Herrera, A.G. McAfee, K.L. Mohr-Almeida, M.V. Pace, and P.E. Rovey	(6)
NO:	None	(0)
ABSTAINED:	None	(0)
ABSENT:	Board Member R.C. Arnett, Vice Chairman	(1)

### SRP's Water Emergency Reservoir Operations Center (WEROC)

Using a PowerPoint presentation, Charlie E. Ester III, SRP Director of Water Supply, stated that the purpose of the presentation was to provide information regarding SRP's WEROC, which is activated when reservoirs are full and significant releases are necessary.

Mr. C.E. Ester provided aerials of water releases at Horseshoe and Bartlett Dams, and water scarcity conditions at Roosevelt Lake and Horseshoe Reservoir. He explained that the Project Reservoir Operations Planning (PROP) Committee and WEROC are responsible for planning for droughts and preparing for floods and provided a list of the PROP committee members as of August 17, 2023. Mr. C.E. Ester outlined the following flood release activation levels: 1) flood release advisory – action is initiated by PREROC; 2) flood release warning – action is initiated by PREROC and WEROC; and 3) flood release emergency – PROP Committee Chair initiates WEROC to action. He detailed how the WEROC is structured and when it's activated. Mr. C.E. Ester introduced Kisshell L. Wilson, SRP Director of Water Information Technology Services.

Ms. K.L. Wilson detailed the step-by-step process of building the WEROC simulator, including how they partnered with SRP's Water Supply group, designed the technology as a team, and collaboratively tested the final solution. She said that the WEROC simulator provides integration with the operational dashboard, storm scenarios, and real-time automated updates.

Continuing, Mr. C.E. Ester stated that WEROC's operational priorities include the safety of the dams and the public's safety risk. He concluded with a discussion of agency briefings, communications, and a WEROC summary.

Ms. K.L. Wilson and Mr. C.E. Ester responded to questions from the Committee.

Copies of the PowerPoint slides used in this presentation are on file in the Corporate Secretary's Office and, by reference, made a part of these minutes.

Board Member R.C. Arnett; and Council Members M.L. Farmer and M.A. Freeman entered the meeting during the presentation.

### Colorado River Hydrology

Using a PowerPoint presentation, Megan G. Martin, SRP Senior Water Rights and Contracts Analyst, stated that the purpose of the presentation was to provide information regarding the Colorado River hydrology and efforts by the United States, the seven basin states, Tribes, water users, and other related interests in the basin to address drought conditions.

Ms. M.G. Martin provided a map and background information regarding the Upper and Lower Colorado River Basin systems storage and water allocations. She compared water levels of Lake Powell and Lake Mead to other reservoirs on the Colorado River. Ms. M.G. Martin discussed the history of the operational guidelines from 2000 through 2022 for Lake Mead and Lake Powell and provided an update on the federal process with respect to near-term (2024- 2026) and long-term operations (post 2026). She stated that objectives for the Lower Basin are as follows: improve the sustainability; increase predictability of reductions; address the structural deficit; and share the risks and benefits. Ms. M.G. Martin concluded with a comparison of the Current Reduction model to the System Contents model in relation to water allocation reductions and reviewed SRP's interests.

Ms. M.G. Martin responded to questions from the Committee.

Copies of the PowerPoint slides used in this presentation are on file in the Corporate Secretary's Office and, by reference, made a part of these minutes.

Board Member K.B. Woods entered the meeting during the presentation.

### Report on Current Events by the General Manager and Chief Executive Officer or Designees

There was no report on current events by Jim M. Pratt, SRP General Manager and Chief Executive Officer.


### Future Agenda Topics

Chairman K.J. Johnson asked the Committee if there were any future agenda topics. None were requested.

There being no further business to come before the Water Committee, the meeting adjourned at 10:45 a.m.

John M. Felty  
Corporate Secretary



An aerial photograph of a large dam and reservoir situated in a deep, rugged canyon. The canyon walls are composed of layered, reddish-brown rock. The reservoir is a dark blue-green color, and the dam is a long, low structure across the middle of the canyon. The sky is a clear, pale blue.

# **Verde Reservoirs Sediment Mitigation Project (VRSMP) and SRP-CAP Interconnection Facility (SCIF) Project Updates**

**Water Committee**

**Ron Klawitter | January 23, 2024**

# Agenda

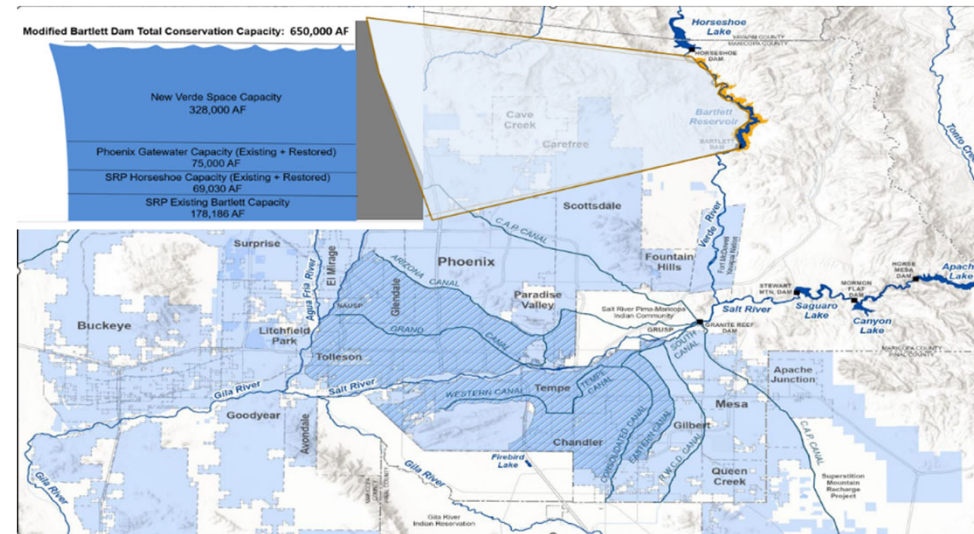
- Verde Reservoirs Sediment Mitigation Project Update
  - Bartlett Dam & Reservoir Expansion Proposal Refresh
  - Feasibility Study Update
  - Non-federal Partner Update
- SRP-CAP Interconnection Facility (SCIF) Project Updates
  - SCIF Project Proposal Refresh
  - Federal Funding Application Update
  - Project Milestones Update
- Key Takeaways



# **Verde Reservoirs Sediment Mitigation Project (VRSMP)**

# Bartlett Dam & Reservoir Expansion Proposal

- Option 1: 102 ft raise
  - Estimated minimum of 650,000 AF total storage
  - At least 305,000 AF of New Verde Storage
- Option 2: 62 ft raise
  - Estimated 422,000 AF total storage
  - At least 99,000 AF of New Verde Storage
- Horseshoe Dam remain in place but operated as run-of-river facility
- Creates opportunities to:
  - Restore lost capacity and create new capacity
  - Manage habitat in Horseshoe Reservoir
  - Mitigate future sediment impacts
  - Add flood control capacity and/or outlet works
  - Enhance recreation opportunities

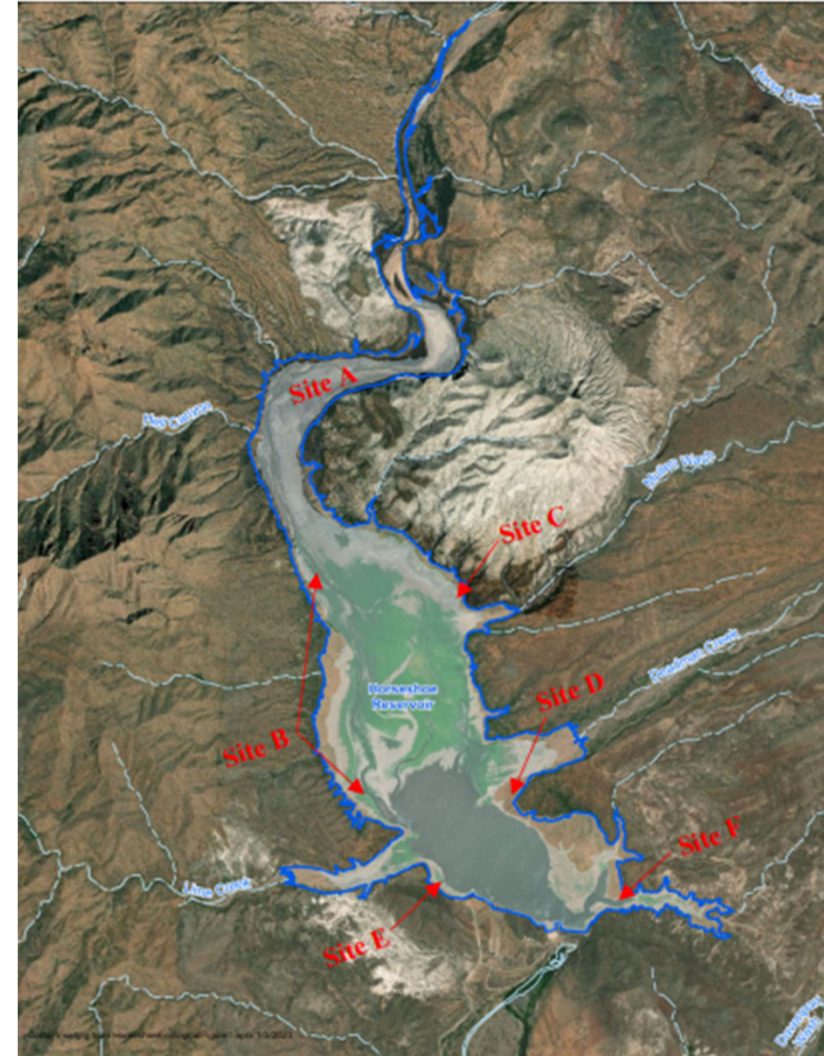


## Potential Habitat Development Sites

Collaborative research study National Audubon Society and The Nature Conservancy

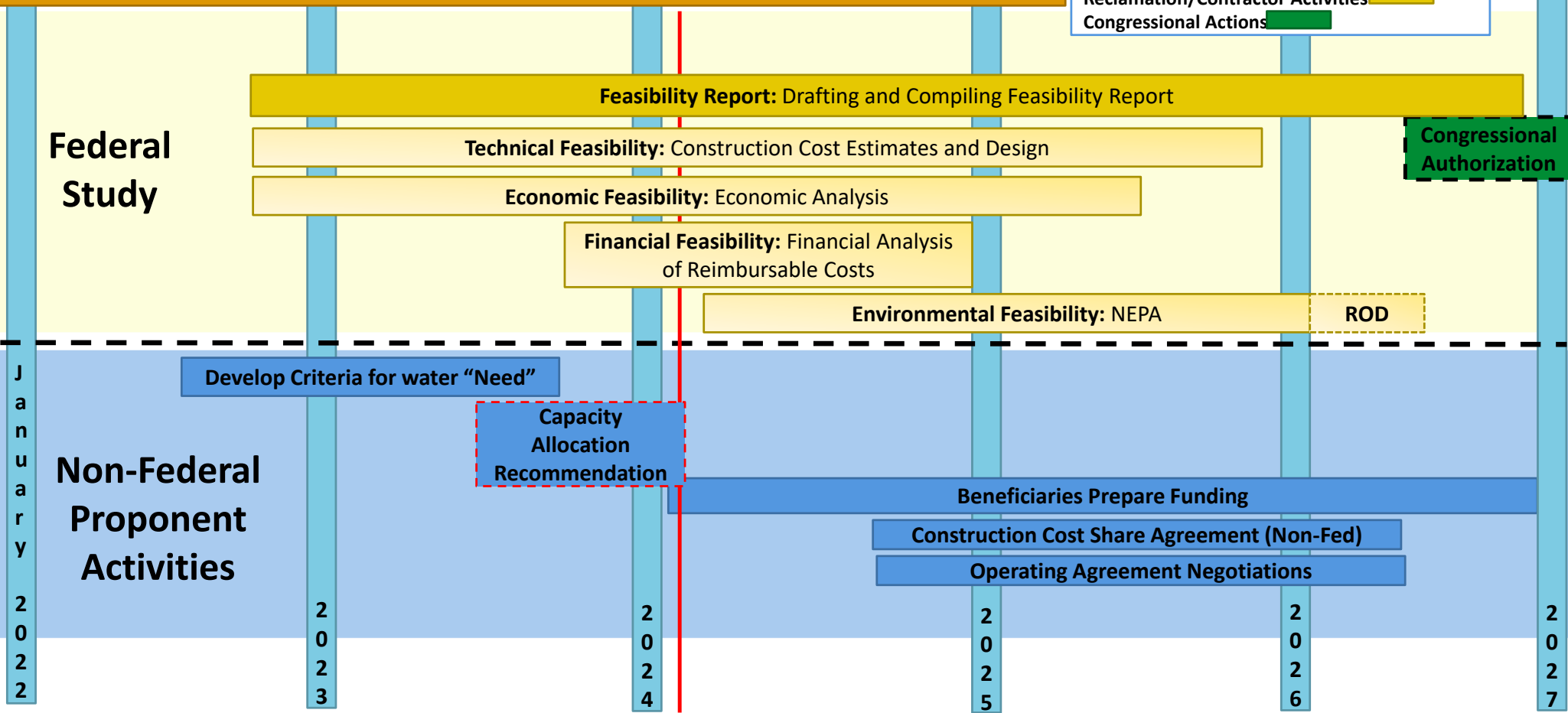
### Objective:

- Identify habitat improvement opportunities within Horseshoe Reservoir Footprint
- Identify opportunities for joint habitat and sediment management
- Identify reservoir operations to optimize habitat, sediment and flood management



# Verde Reservoirs Sediment Mitigation Project Feasibility Study Integrated Timeline

**Key:**  
 Steering Committee Activities █  
 Reclamation/Contractor Activities █  
 Congressional Actions █



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# Non-Federal Partner Update

- Funding of non-federal share of feasibility study
- Provide technical support and information to federal study
- Development of allocation recommendation to the Bureau of Reclamation (“Reclamation”)



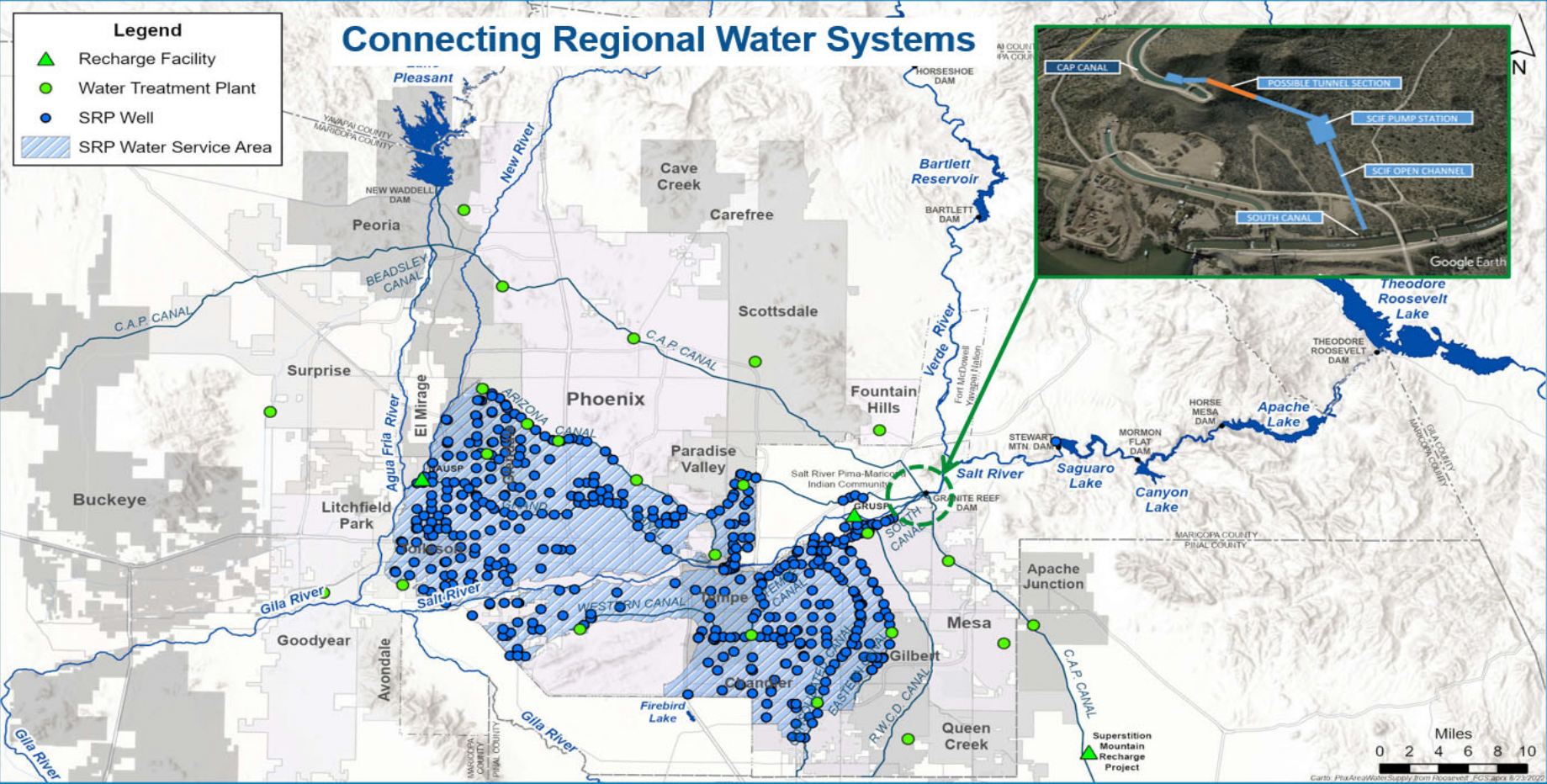
# VRSMP Feasibility Study Recent & Upcoming Milestones

- **Winter 2022:** Completion of Geotechnical Field Investigations
- **Fall 2023:** Reclamation Hosted Stakeholder Workshop
- **Spring 2024:** Completion of Preliminary Engineering Designs
- **Summer 2024:** Initiate Federal Environmental Compliance (NEPA)
- **Winter 2025:** Financial Feasibility Assessment Complete
- **Summer 2026:** Completion of Federal Environmental Compliance (NEPA)
- **Fall 2026:** Economic Feasibility Assessment Complete
- **Winter 2026:** Feasibility Report Delivered to U.S. Congress

**Construction expected to take 3-5 years following Congressional Authorization**

**SRP-CAP  
Interconnection Facility  
(SCIF) Project**

# Proposed SRP-CAP Interconnection Facility (SCIF)





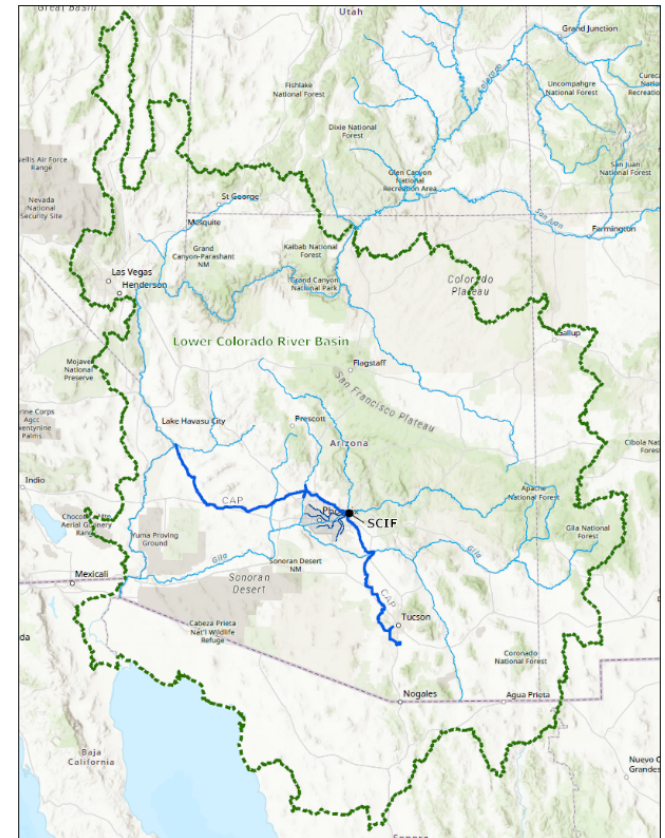
# Lower Colorado River Basin System Conservation and Efficiency Program: SCIF Application

## Strategic Interconnection for the Lower Basin:

- Physically Connects CAP and SRP
- Allows direct deliveries downstream
  - Pinal County and Pima County
- Allows exchanges for upstream diversion
  - Maricopa County westward and Colorado River mainstem water users and diverters

## Opportunities:

- Self-Firming
- Federal and State Firming
- New Water Development and Augmentation Opportunities



# Lower Colorado River Basin System Conservation and Efficiency Program: SCIF Application

## SRP Proposal:

- Local non-SRP Shareholder water supplies provided when available
- Federal funding in support of SCIF planning and construction costs

## Next Steps:

- Reclamation expected to announce selected proposals in February 2024
- Reclamation anticipates 3-6 months to negotiate funding terms for selected proposals

# SCIF Recent & Upcoming Milestones

**Winter 2023:** Completion of Geotechnical Field Investigations

**Spring 2024:** Preliminary Engineering Design Completion in preparation for environmental compliance (NEPA)

**Summer 2024:** Initiate environmental compliance

**Spring 2025:** Selection of final design and construction firm

**Winter 2025:** Progressive design-build engineering and construction initiation

**Winter 2028:** SCIF facility commissioning



# Key Takeaways

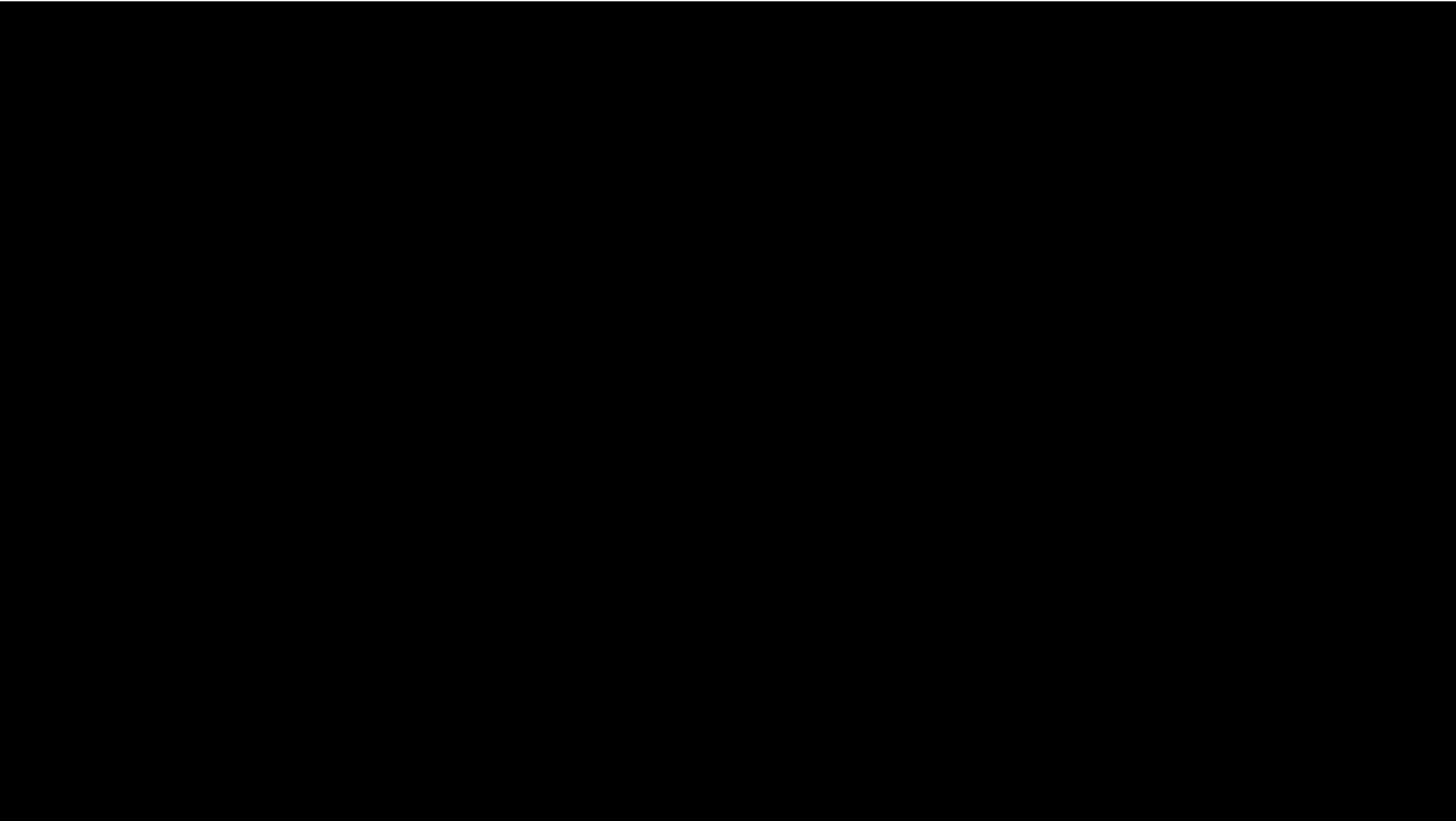
## **Bartlett Dam & Reservoir Expansion Project**

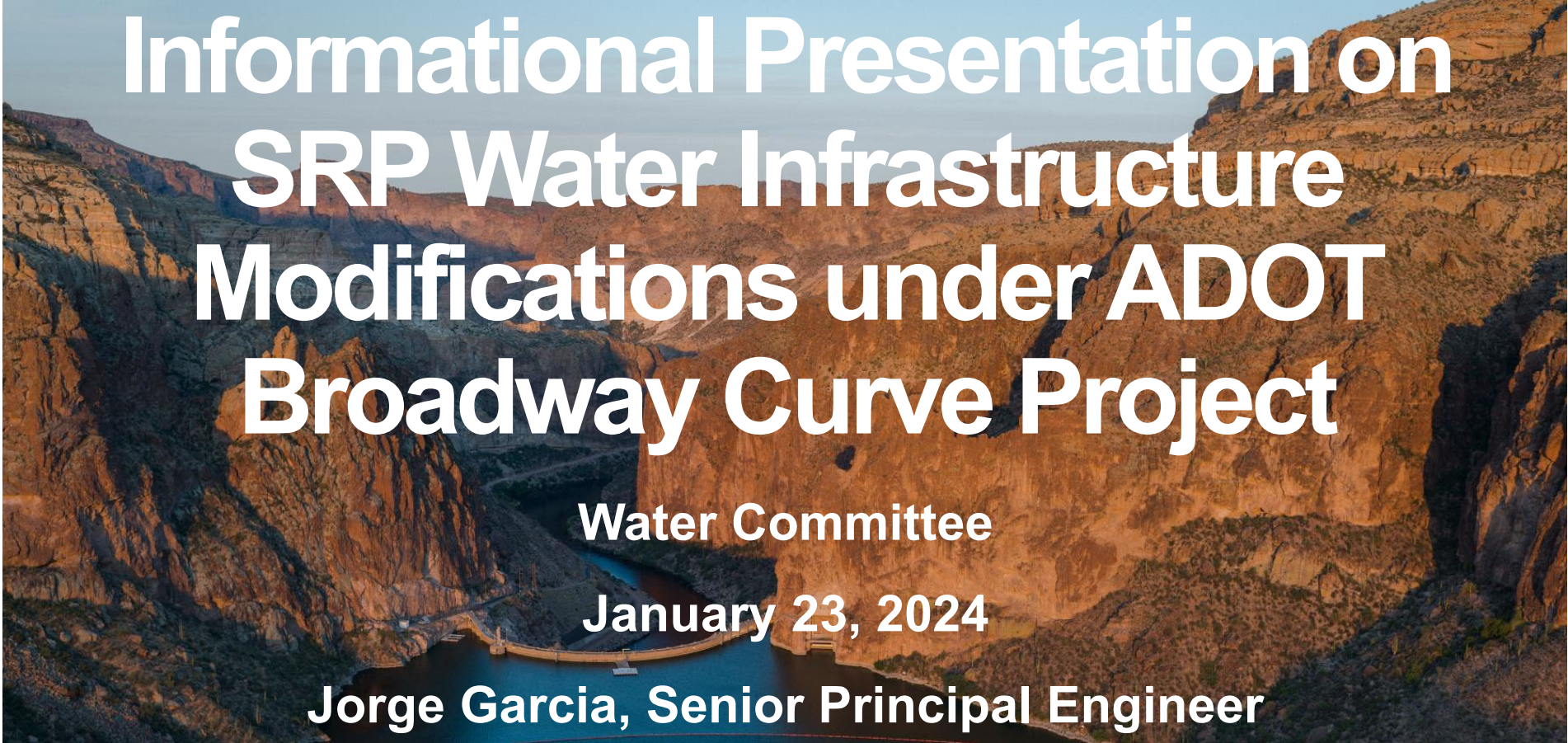
- Federal feasibility study is on schedule for completion in late-2026
- SRP continues to facilitate the group of 23 non-federal partners in supporting the feasibility study
- Federal environmental compliance and public engagement is scheduled to start summer 2024

## **SRP-CAP Interconnection Facility (“SCIF”) Project**

- Application submitted for federal funding for up-to the full construction cost estimate of project
- Reclamation is expected to announce selected projects under the “Bucket 2” program in the coming weeks, following by 3-6 months of negotiation of financial terms
- Facility design is ongoing to provide necessary information to initiate environmental compliance

**thank you!**



An aerial photograph of a large concrete dam situated in a deep, rugged canyon. The canyon walls are composed of layered, reddish-brown rock. A river flows through the center of the canyon, curving around the base of the dam. The sky is clear and blue. The text is overlaid on the top half of the image.

# **Informational Presentation on SRP Water Infrastructure Modifications under ADOT Broadway Curve Project**

**Water Committee**

**January 23, 2024**

**Jorge Garcia, Senior Principal Engineer**

A solid blue decorative bar with a diagonal cut on the right side, located at the bottom left of the slide.

# ADOT's Broadway Curve Project Background

- Largest urban freeway reconstruction project in ADOT history, 11 miles
- Expected to be completed by late 2024
- ~ \$776 Million

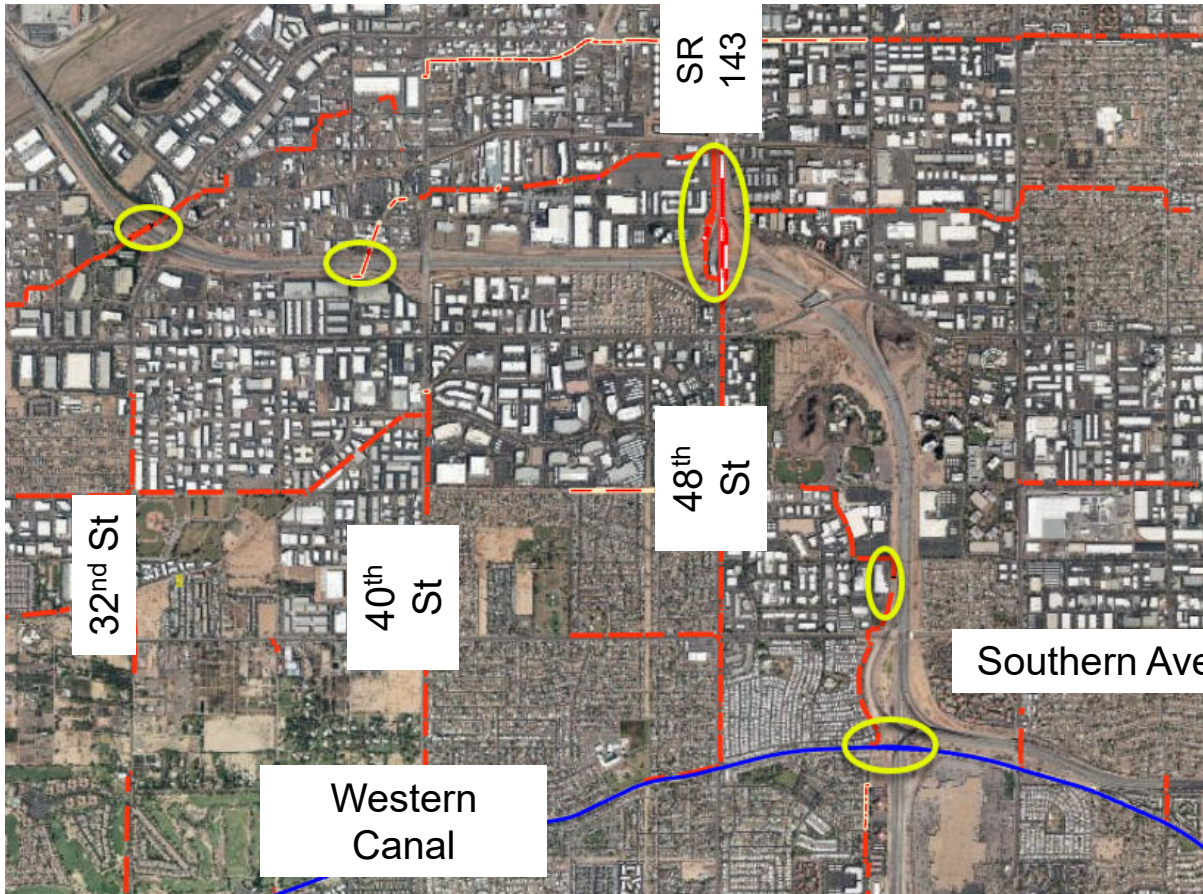


Interstate 10 Widening Near SR 143



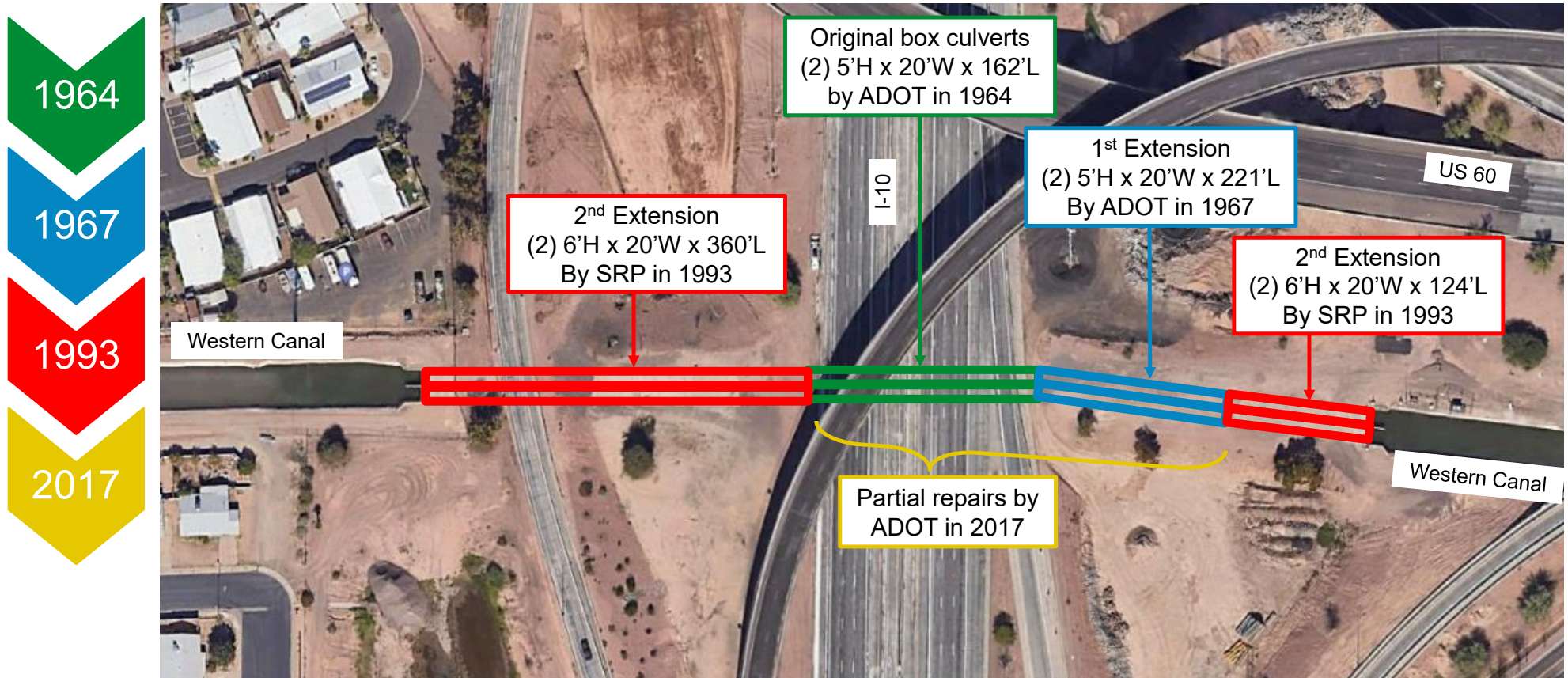


# Existing SRP Water Facilities Impacted



- 3 irrigation lateral crossings of I-10 at 32nd, 38th, and 48th Street.
- Adjacent lateral west side of SR 143.
- Adjacent lateral west side of I-10 from Southern Ave to Fairmont Dr.
- Western Canal Culvert Crossing.

# History of Western Canal Twin Culverts Crossing at I-10



# Inspection of Western Canal Culverts in 2017



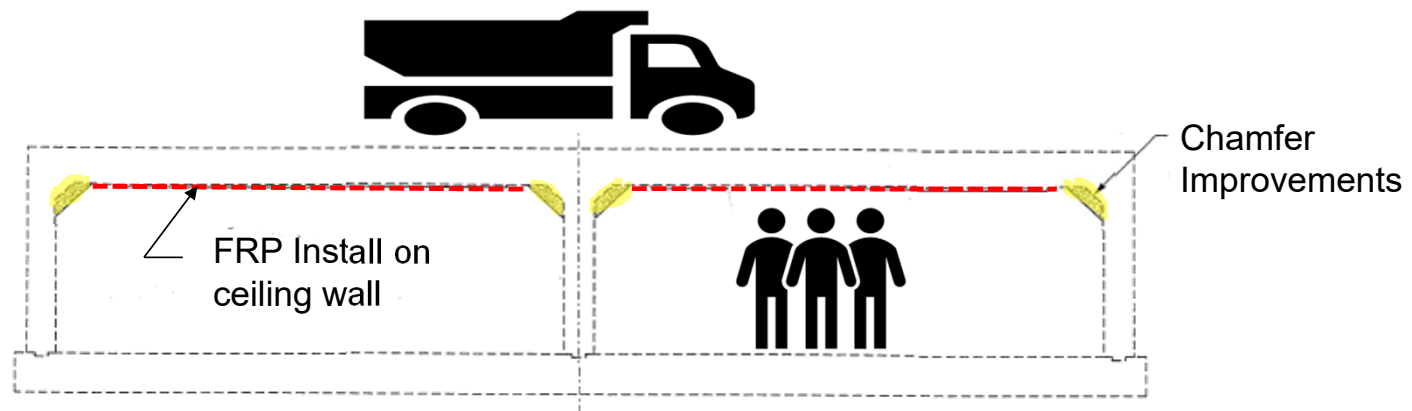
Western Canal Culverts East of I-10



Exposed Rebar on Ceiling Wall

# ADOT & SRP Collaboration

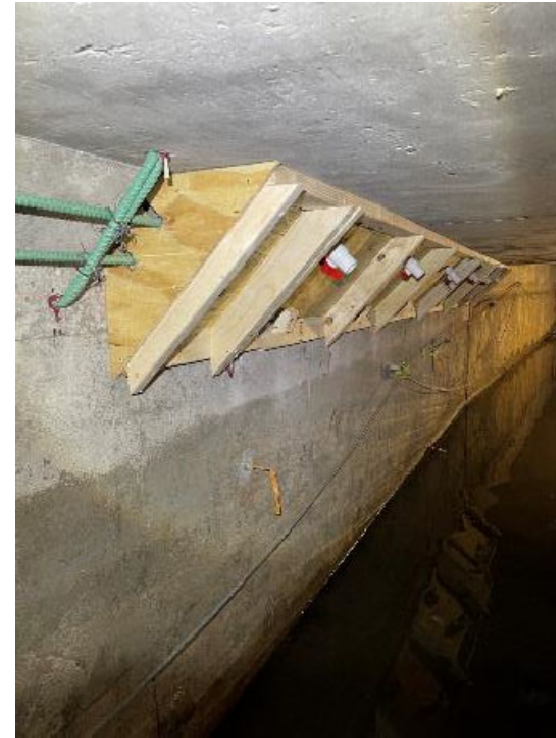
- 2017—Inspection
- 2018—Engineering structural load analysis
- 2020—Final improvements
  - Cathodic protection for entire box culvert crossing to control steel corrosion
  - Chamfer improvements for side and ceiling wall
  - Fiber Reinforced Polymer (FRP) installed on ceiling wall



## 2020 Improvements – Cathodic Protection and Chamfer Work



Cathodic Protection Work



Chamfer Enhancement Work

# 2020 Improvements – Structural Strengthening with Fiber Reinforced Polymer (FRP)



FRP Application

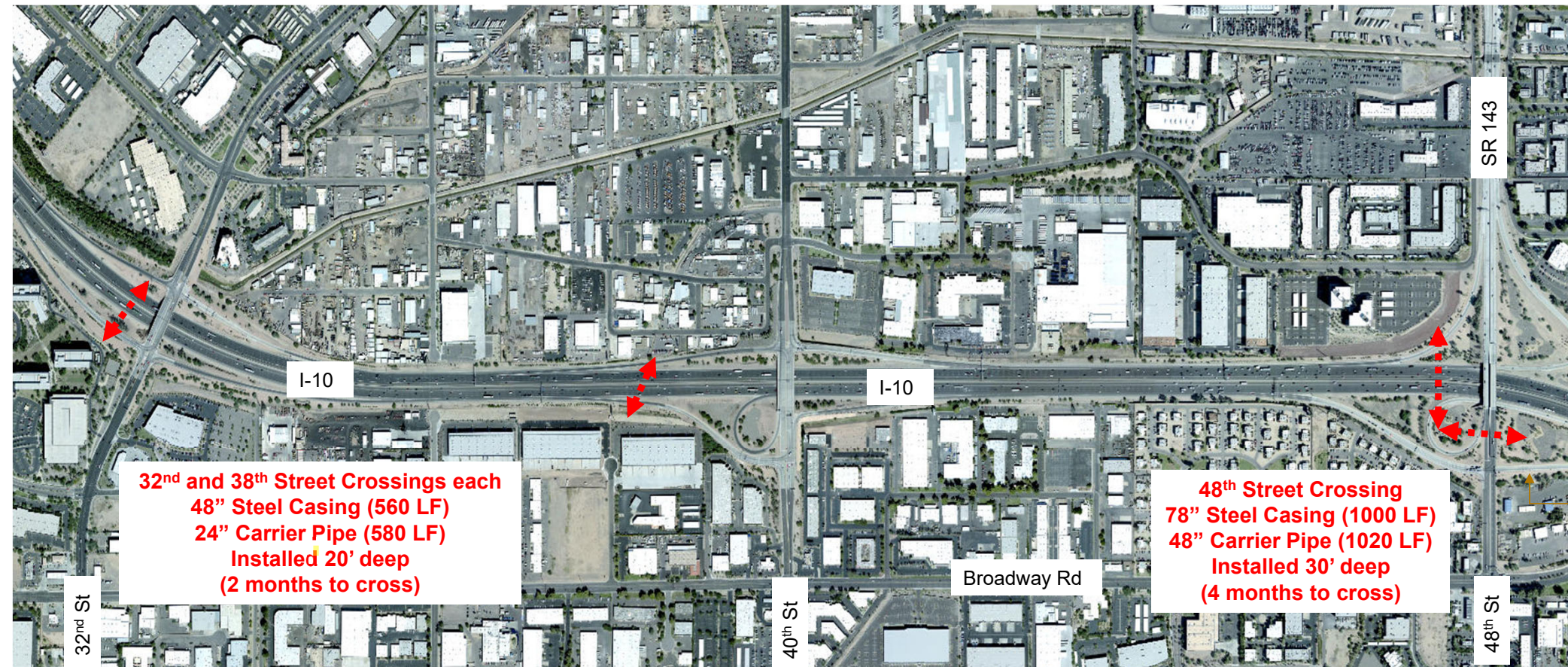


Finished Culvert Improvements

# ADOT Underground Utility Crossings of Highways

- ADOT requires a jack and bore operation for new underground utility crossings to not impact traffic. In addition, ADOT also requires a carrier pipe (SRP Water in this case) be installed inside steel casing pipe.
- Factors considered for design
  - Location of jacking and receiving pit
  - Existing soil conditions
  - Flow capacity of lateral
  - Future SRP operation and access to facilities
  - ADOT improvements

# Jack and Bore Crossings of I-10 Information





# Jack and Bore Installation (Jacking Pit)



Jacking Pit



Jack and Bore Machine

# Jack and Bore Installation (Steel Casing Pipe)



Steel Casing Pipe

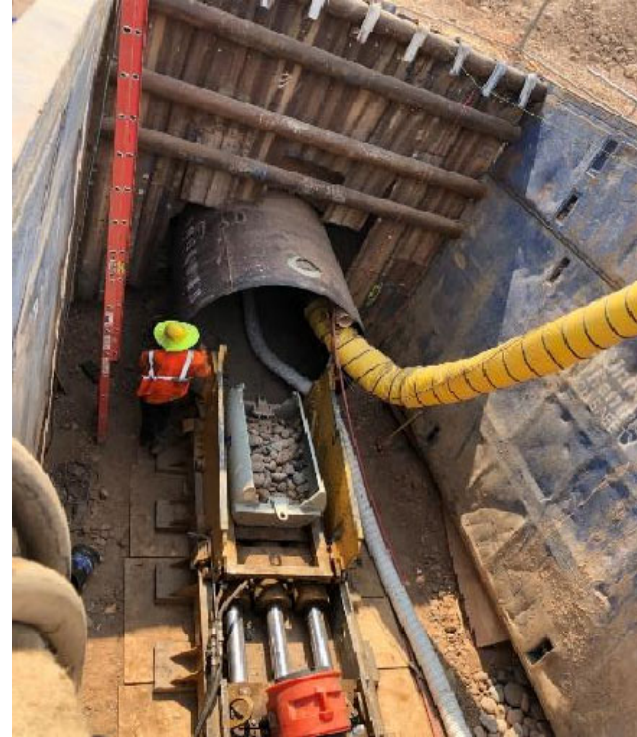


Inside of Steel Casing Pipe

# Jack and Bore Installation (Existing Soils)



Existing Earthen Materials



Boring Pit With Cobbles and Sand

## Jack and Bore Installation (Concrete Carrier pipe & Siphon Manhole)



Concrete Carrier Pipe



Tie in Siphon Manhole

# Traditional Pipeline and Delivery Structure Work



Irrigation Pipe Installation



Irrigation Delivery Structure

# Summary of SRP Water Work

- I-10 Western Canal twin box culvert reinforcement
- 3 Jack & Bore siphons installed under I-10
- Over 5000 LF of new pipe installed
- 8 siphon manholes, 16 regular manholes, and 2 delivery structures
- Design from June 2018 to June 2022
- Construction from July 2020 to February 2024
- Cost related to SRP's Water work - \$20 Million (Paid by ADOT)

**thank you!**

