

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

WATER COMMITTEE Tuesday, April 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 meetings of March 14, 2024.
2. Leveraging Technology for Spillway Inspections IVAN INSUA

Informational presentation regarding the role of advanced technology in monitoring and inspecting SRP's water storage dams to meet SRP's obligation to maintain these critical facilities.
3. Report on Current Events by the General Manager and Chief Executive Officer or Designees..... JIM PRATT
4. 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.



THE NEXT WATER COMMITTEE MEETING
IS SCHEDULED FOR TUESDAY, MAY 21, 2024

04/16/2024

MINUTES
WATER COMMITTEE
SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND
POWER DISTRICT

DRAFT

March 14, 2024

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, March 14, 2024, 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; R.C. Arnett, Vice Chairman; M.V. Pace and P.E. Rovey; and L.D. Rovey of the Association.

Committee Members absent at roll call were K.L. Mohr-Almeida, M.J. Herrera, and A.G. McAfee.

Also present were President D. Rousseau; Vice President C.J. Dobson; Board Members N.R. Brown, J.M. White Jr., L.C. Williams, and K.B. Woods; Council Chairman T.M. Francis; Council Vice Chairman J.R. Shelton; Council Liaison G.E. Geiger; Council Members M.L. Farmer and M.C. Pedersen; Mmes. I.R. Avalos, E.N. Barton, M.J. Burger, A.P. Chabrier, T.A. Kaschak, V.P. Kisicki, C.M. McJunkin, L.A. Meyers, G.A. Mingura, and C.M. Sifuentes; Messrs. A.C. Davis, J.M. Felty, Z.J. Heim, R.L. Hinds, K.J. Lee, A.J. McSheffrey, M.S. Mendonca, M.J. O'Connor, B.A. Olsen, J.M. Pratt, J.C. Robertson, P.B. Sigl, R.R. Taylor, and K.J. Tilghman; Brad Moore of Arizona Municipal Water Users Association (AMWUA); and Luke Mecklenburg, a member of the public.

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, March 12, 2024.

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 Vice Chairman R.C. Arnett, the Committee unanimously approved and adopted the following item on the Consent Agenda:

- Minutes of the Water Committee meeting on February 20, 2024, 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; R.C. Arnett, Vice Chairman; and M.V. Pace and P.E. Rovey	(4)
NO:	None	(0)
ABSTAINED:	None	(0)
ABSENT:	Board Members M.J. Herrera, A.G. McAfee, and K.L. Mohr-Almeida	(3)

Governor's Water Policy Council

Using a PowerPoint presentation, Leslie A. Meyers, SRP Associate General Manager and Chief Water Resources and Services Executive, stated that the purpose of the presentation was to provide information regarding Arizona Governor Hobbs' Water Policy Council established to analyze and recommend updates, revisions, and additions to the Groundwater Management Act (GMA) of 1980 and related water legislation including recommendations for groundwater management outside of current active management areas.

Ms. L.A. Meyers explained that Arizona obtains its water supply from the following four sources: 41% from ground water, 36% from the Colorado River, 18% from in-state rivers, and 5% from reclaimed water. She highlighted key provisions included in the 1980 GMA as follows: 1) water management – the Arizona Department of Water Resources (ADWR) was established to oversee all facets of water management; 2) regulation of groundwater – the Active Management Areas (AMAs) (Phoenix, Tucson, Pinal, Prescott, Santa Cruz, and Douglas) regulate how groundwater is utilized within these AMAs; 3) balanced growth – the Assured Water Supply Program protects innocent homebuyers and ensures sustainable growth; and 4) reduction in water use – mandatory conservation requirements contribute to an overall decrease in groundwater pumping for all sectors.

Ms. L.A. Meyers said that since 1957, Arizona's population has grown nearly 500% to 6.7 million residents; since the creation of the ADWR in 1980, Arizona's water management has been successful despite the astonishing growth; Arizona's total water use has declined and usage is less than 7 million acre-feet of water per year. She stated that on January 9, 2023, Governor Hobbs issued an Executive Order to establish the Governor's Water Policy Council, which is tasked with modernizing the Arizona GMA, the state's playbook for protecting its groundwater. Ms. L.A. Meyers said that the group will update the groundwater management tools and protect groundwater, which serves as 41% of the state's water supply.

Ms. L.A. Meyers said that the Governor's Water Policy Council will focus on recommended proposals with respect to the Assured Water Supply Program including providing an alternative path to designation, build to rent, and "Wildcat" development. The Water Policy Council defined "Wildcat" development as "proliferation of development by splitting residential parcels of six or more lots with the intent to circumvent laws relating to the creation of a subdivision." Ms. L.A. Meyers explained that "Wildcat" development was discussed as an informal term used to characterize illegal lot splitting, and that the purpose of the proposal is to stop those who are intentionally circumventing laws that relate to assured water supply and other improvements in subdivisions. She said that recommended proposals regarding rural groundwater will focus on rural groundwater management area framework and rural groundwater measuring and reporting.

In conclusion, Ms. L.A. Meyers stated that the Governor's Water Policy Council's recommendation is that the "Rural Groundwater Management Area" framework be submitted to the Governor as a foundation for a new groundwater management program in rural Arizona. She 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.L. Mohr-Almeida; and Mr. R.T. Judd entered the meeting during the presentation.

SRP's Forest Health Goal Update

Using a PowerPoint presentation, Elvy N. Barton, SRP Senior Manager of Water and Forest Sustainability, stated that the purpose of the presentation was to provide information regarding SRP's forest health goal, partnerships, and projects for 2023 and 2024.

Ms. E.N. Barton reminded the Committee that SRP's 2035 forest health goal is to increase SRP's leadership role in forest restoration treatments through partnerships, influence, education, and support for industry to thin 800,000 acres total by 2035. She provided the following updates for SRP's 2023 forest projects: seven projects have been funded (Roosevelt, Gifford, McCarty, Roberts, Pringle Tater Chip, Keger, and Dude Phase 1); the project investments total \$4.73 million; 8,866 acres have been funded; and 4,081 acres have been completed.

Ms. E.N. Barton presented before and after images of the strategic forest thinning work at the Dude Phase 1 project. She provided an overview of SRP's completed, ongoing, and planned forest projects. Ms. E.N. Barton said that in 2023, the following new partnerships joined SRP in meeting its forest health goal: Biomass Power Partnership, Gila County, National Forest Foundation, EdgeCore, PepsiCo, Google, and Meta. She updated the Committee on current research projects.

Ms. E.N. Barton highlighted forest projects for 2024 as follows: eight projects to be funded (Kinder, Kehl, S. Payson Phase 1, Dude Phase 2, Poco Pino, Highway Tanks Phase 1, Drake Phase 1, and Beaver Creek Phase 1); the project investments total \$13.45 million; and 16,930 acres have been funded. She provided images of the Poco Pino and Payson Phase 1 forest thinning projects.

Ms. E.N. Barton concluded with a list of the new partnerships in 2024 as follows: Mule Deer Foundation, The Nature Conservancy, Arizona Elk Society, Apache-Sitgreaves National Forest; and Coconino National Forest. She 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.

Executive Session: Water Rights Claims

Chairman K.J. Johnson requested a motion to enter into executive session, pursuant to A.R.S. §38-431.03(A)(3) and (A)(4), to discuss or consult with attorneys for legal advice regarding the status of negotiations and other efforts to resolve water rights claims of certain tribes to water sources in Arizona prior to finally adjudicating those claims in judicial proceedings.

On a motion duly made by Vice Chairman R.C. Arnett, seconded by Board Member M.V. Pace and carried, the Water Committee convened into executive session at 10:15 a.m.

Corporate Secretary J.M. Felty polled the Committee Members on Vice Chairman R.C. Arnett's motion to enter into executive session. The vote was recorded as follows:

YES:	Board Members K.J. Johnson, Chairman; R.C. Arnett, Vice Chairman; and K.L. Mohr-Almeida, M.V. Pace and P.E. Rovey	(5)
NO:	None	(0)
ABSTAINED:	None	(0)
ABSENT:	Board Members M.J. Herrera and A.G. McAfee	(2)

Ms. E.N. Barton; Messrs. R.L. Hinds and K.J. Tilghman; Brad Moore of AMWUA; and Luke Mecklenburg, a member of the public, left the meeting.

The Committee reconvened into open session at 10:37 a.m., with the following members and others present: President D. Rousseau; Vice President C.J. Dobson; Board Members R.C. Arnett, N.R. Brown, K.J. Johnson, K.L. Mohr-Almeida, M.V. Pace, P.E. Rovey, J.M. White Jr., L.C. Williams, and K.B. Woods; Board Member L.D. Rovey of the Association; Council Chairman T.M. Francis; Council Vice Chairman J.R. Shelton; Council Liaison G.E. Geiger; Council Members M.L. Farmer and M.C. Pedersen; Mmes. I.R. Avalos, M.J. Burger, A.P. Chabrier, T.A. Kaschak, V.P. Kisicki, C.M. McJunkin, L.A. Meyers, G.A. Mingura, and C.M. Sifuentes; and

Messrs. A.C. Davis, J.M. Felty, Z.J. Heim, R.T. Judd, K.J. Lee, A.J. McSheffrey, M.S. Mendonca, M.J. O'Connor, B.A. Olsen, J.M. Pratt, J.C. Robertson, P.B. Sigl, and R.R. Taylor.

Luke Mecklenburg, a member of the public, reentered the meeting.

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 10:38 a.m.

John M. Felty
Corporate Secretary

Leveraging Technology for Spillway Inspections

Water Committee

April 23, 2024

Ivan A. Insua



Technology roadmap at Hydro Generation



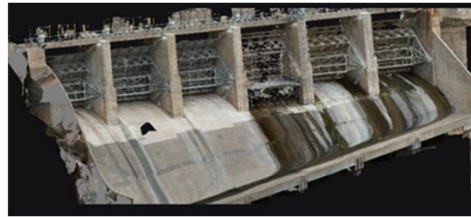
Asset tagging



Beamex for Instrument Calibrations

Spatial Imaging

Maximo Mobile SR and WO



Drone spillway inspections

Digital Twin project with ASU

Advanced instrumentation

More to come...

Maximo Mobile Inspections

FY22

FY23

FY24

FY25 and beyond

Collaborative approach: Power Generation Service, Information Technology Services, Cyber/Security Services

Asset and PM verification and cleanup
 Strengthening planning and scheduling functions
 Continuous improvement

Spillway inspections

Dam structures are visually inspected on a continual basis

- Ongoing Visual Inspection Checklist (OVIC)
- Bureau of Reclamation (BOR), Annual Inspection
- BOR Inaccessible Features Inspection

Additionally, SRP arranges more detailed inspections

- Visual inspection and sounding
- Working from heights
- Mark, document, and report
- Manual process

Visual inspection and sounding at Horse Mesa in 1999



Spillway repairs at Horse Mesa in 2003



Horse Mesa Left and Right Spillways being repaired, with extensive scaffolding and equipment visible



Drone assisted spillway inspections

Leveraged technology from outside company

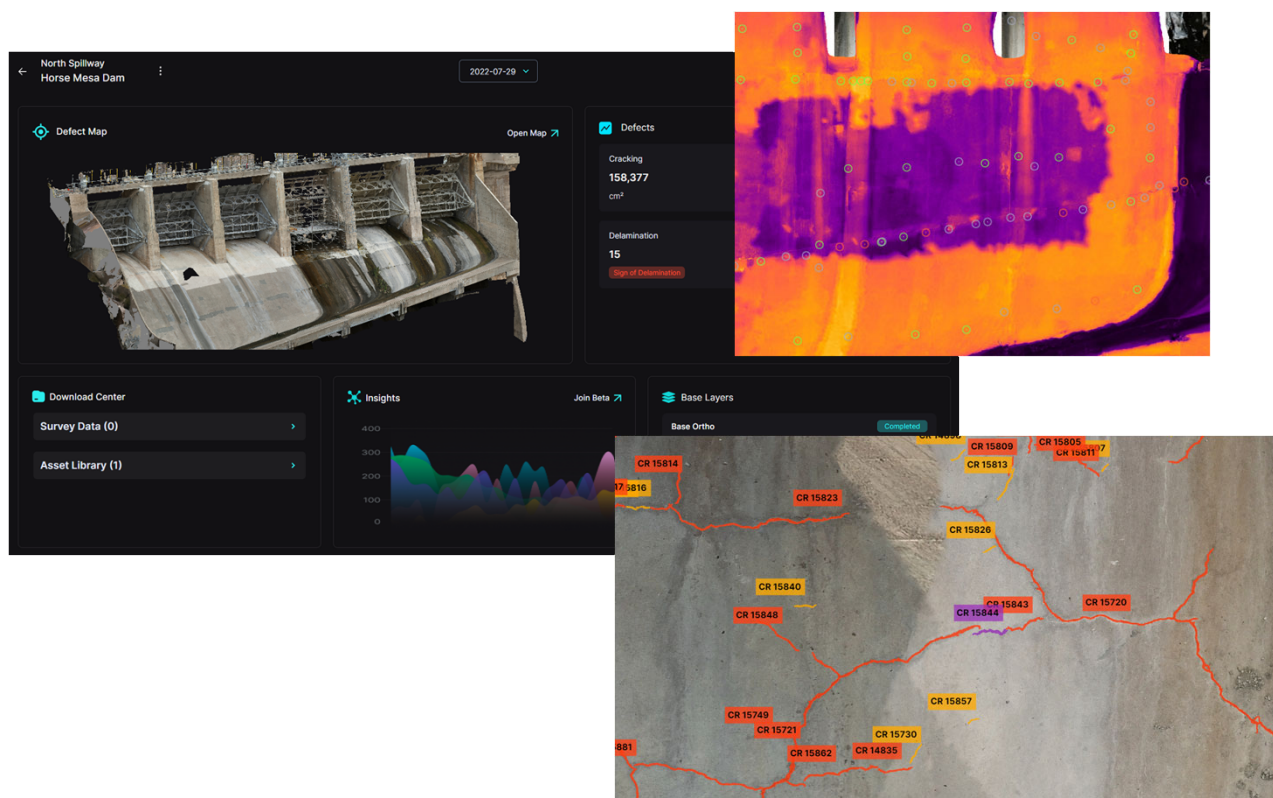
- Drone imaging and sounding
- Multi-layered, computerized data collection and reporting
- Safety, time, cost, repeatability
- Performed at Horse Mesa and Stewart Mountain
- Any repairs are a manual, hands-on process
- BOR has interest, looking for more use examples



*Sounding being performed on Horse Mesa
Right Spillway in July 2022*



Computerized data analysis and reporting



- **Interactive dashboard**
 - Detailed imagery
 - Feature identification and numbering
 - Filter by feature type, length, width
- **Enables more accurate repair planning**

The journey ahead

- Continue to evaluate and leverage technologies
- Build a library of data, gain expertise, share experiences
- Practice continuous improvement
- Thinking about future resources

**Thanks to Water Supply, Flight Services,
Cyber Security, and the Bureau of
Reclamation**



*Spill test at Roosevelt Dam on May 10, 2023
Total flow at approximately 12,000 cfs*

thank you!

