

Every drop counts. Use Water Wisely.

"A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis."

[BAWSCA Act, AB2058 (Papan-2002)]

Water Supply Reliability Roundtable

Workshop 5: Long-Term Reliable Water Supply Strategy 2050 June 17, 2024



Agenda





Introduction & Purpose of Workshop Five

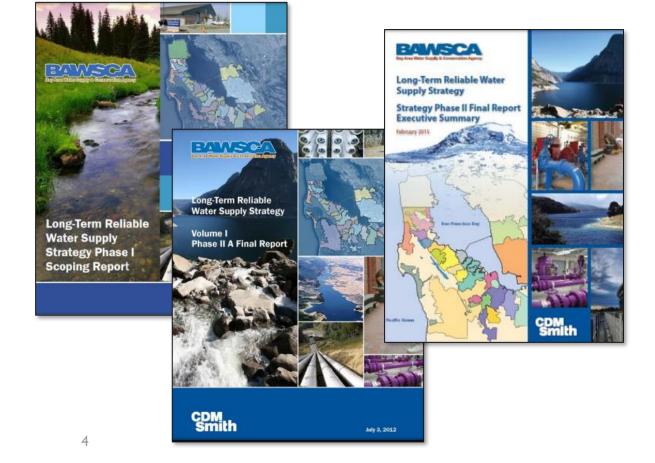
• Participants will learn:

- What is Strategy 2050 and what will it seek to accomplish?
- How has input from prior Roundtable workshops been incorporated in Strategy 2050 objectives?
- Participants will share:
 - Needs, concerns, and priorities related to Strategy 2050
 - Ideas for how Strategy 2050 can support the region
 - Related efforts to be considered in Strategy 2050 and other potential participants
 - Desired participation in Strategy 2050 development



Item # 2

BAWSCA's Reliable Water Supply Strategy (Strategy) 2015



- Six-year, multi-phase regional effort that needs updating
 - BAWSCA region's water demands have changed
 - Reliability of existing water supplies is in question
 - Potential for BAWSCA's future independent participation in other agencies' water supply projects



Item # 3

Strategy 2050 Goals and Objectives

BAWSCA's Goal

Ensure that a reliable, high-quality supply of water is available at a fair price.

Strategy 2050 Draft Purpose

To identify the water supply management needs and opportunities for the BAWSCA region and establish a framework to collectively support water reliability and resilience.



Strategy 2050 Objectives

I.	Provide a comprehensive picture of the region's supply and demand management needs and options.
2	Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.
3	Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.
4	Expand regional dialogue and collaboration to collectively address common needs.
5	Close the gap on funding needed for water supply resilience and reliability.
6	Support availability of affordable water supplies and demand management strategies to all customers.



Strategy 2050 Development Process

Current step		
Beginning in January 2025	TBD, following plan adoption	
Development (Phase 2)	Implementation (Phase 3)	
"Develop"	"Do"	
the plan for advancing these objectives	the things identified in the plan	
 Development Phase Quantify needs Develop and evaluate potential actions Determine BAWSCA's role 	 Implementation Phase Implement action plan Track and report on progress Incorporate findings from implementation activities 	
	 Beginning in January 2025 Development (Phase 2) "Develop" the plan for advancing these objectives Development Phase Quantify needs Develop and evaluate potential actions Determine BAVVSCA's 	Beginning in January 2025TBD, following plan adoptionDevelopment (Phase 2)Implementation (Phase 3)"Develop""Do"the plan for advancing these objectives"Do"Development PhaseImplementation PhaseQuantify needsImplement action planDevelop and evaluate potential actionsImplement action planDetermine BAVVSCA's roleIncorporate findings from implementation activities



Participant Poll – Which Strategy 2050 Objective Are You Excited Further Explore?

Provide a comprehensive picture of the region's supply and demand management needs and options.

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

2

3

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.



Strategy 2050 Objectives

I.	Provide a comprehensive picture of the region's supply and demand management needs and options.
2	Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.
3	Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.
4	Expand regional dialogue and collaboration to collectively address common needs.
5	Close the gap on funding needed for water supply resilience and reliability.
6	Support availability of affordable water supplies and demand management strategies to all customers.



Providing Comprehensive Picture of Region's Supply and Demand Management Needs and Options

Regional Needs

- Variability among BAWSCA Agencies in availability of recent water supply plans or system master plans.
- Limited understanding of groundwater characterization and lack of comprehensive groundwater monitoring.
- Limited studies on the technical feasibility and economics of alternative supply options.
- Limited understanding of climate change and other stressors on future water supplies.

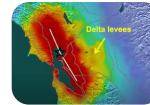


Providing Comprehensive Picture of Region's Supply and Demand Management Needs and Options

Strategy 2050 – Evaluate Supply and Demand Management Reliability

- Conduct risk assessment
 - Identify and quantify effects of stressors on water supply reliability
- Project water demand and supply for BAWSCA Agencies,
 - Support 2025 Urban Water Management Plans (UWMPs)
- Assess emergency frameworks
 - Evaluate existing planning and response frameworks and provide recommendations
 - Assess regional emergency resilience programs used by others and identify opportunities to incorporate best practices







Item # 4

Drought

Earthquake

Wildfire





Sea Level Rise

Others?



Strategy 2050 Objectives

T	Provide a comprehensive picture of the region's supply and demand management needs and options.
2	Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.
3	Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.
4	Expand regional dialogue and collaboration to collectively address common needs.
5	Close the gap on funding needed for water supply resilience and reliability.
6	Support availability of affordable water supplies and demand management strategies to all customers.



Establishing Framework for Collectively Maintaining and Improving Water Supply Reliability and Resilience

Regional Needs

- Impacts of climate change and other stressors (e.g., changes in precipitation, extended droughts) on future water supplies and resilience.
- Potential impacts of the Bay-Delta Water Quality Control Plan.
- Potential supply shortages in future dry year scenarios.
 - San Francisco Public Utilities Commission (SFPUC) anticipates a shortfall ranging from 92 million gallons per day (MGD) to 122 MGD in future dry year scenarios.
 - Supply shortfall for BAWSCA Agencies in current and future dry years ranges from 6% to 53%.



Establishing Framework for Collectively Maintaining and Improving Water Supply Reliability and Resilience

Strategy 2050 – Evaluate Existing Projects/ Identify New Regional Opportunities

- Establish project database architecture
- Refine existing project concepts
- Develop additional water supply and demand management project concepts
- Develop project portfolios
 - Develop comparative metrics
 - Evaluate project portfolios and assess reliability benefits
- Provide individual reliability planning services
- Evaluate Regional Groundwater Model
 - Develop workplan for updates and recalibration
 - Evaluate spatial and temporal trends in constituents of concern



identified through Roundtable series



Item # 5

14

Strategy 2050 Objectives

Provide a comprehensive picture of the region's supply and demand management needs and options.

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

2

3

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.



Item # 6

Elevating Awareness and Supporting Region's Interest in New and Emerging Regulations

Regional Needs

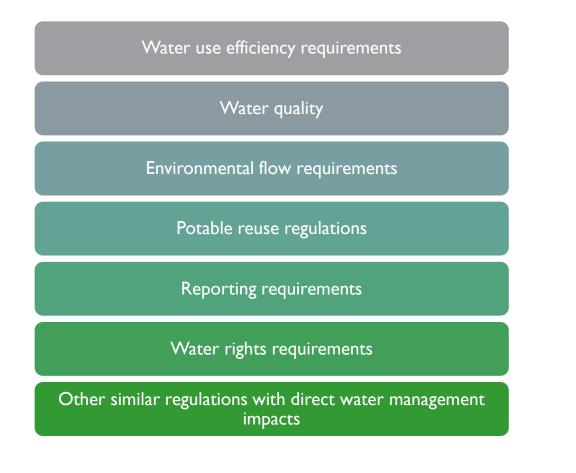
- Bay-Delta Water Quality Control Plan could lead to potential water supply shortfalls (if implemented as adopted).
- Extensive permitting and environmental requirements affect project implementation (e.g., indirect/direct potable reuse, stormwater recharge, desalination, water transfers).
- Lack of regulatory or governance authority in low priority basins.
- Emerging and/or increasingly stringent regulations for direct potable reuse, water conservation, and groundwater standards.
- Agencies working individually to address upcoming water quality regulatory hurdles (e.g., arsenic and hexavalent chromium, per- and poly-fluoroalkyl substances [PFAs], and other constituents of emerging concern).



Elevating Awareness and Supporting Region's Interest in New and Emerging Regulations

Strategy 2050 – Assess Regulatory Setting & Collaboration Opportunities

- Identify regulatory setting
 - Identify current/anticipated near-term and mid-term regulations
 - Summarize requirements, status, potential risks and opportunities, and current actions
- Assess framework for future regulatory collaboration
 - Assess other regional entities' frameworks for regulatory collaboration and advocacy
 - Explore applicability to BAWSCA
 - Identify opportunities for future regional regulatory collaboration & implementation





Poll: Which Emerging Regulations Are of Greatest Interest To You?



Discussion Questions

- How is your organization engaging in the development of, or preparing, emerging regulations?
- What opportunities may exist to expand regulatory collaboration throughout the region?



Strategy 2050 Objectives

Provide a comprehensive picture of the region's supply and demand management needs and options.

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

2

3

Expand regional dialogue and collaboration to collectively address common needs.



Close the gap on funding needed for water supply resilience and reliability.

6

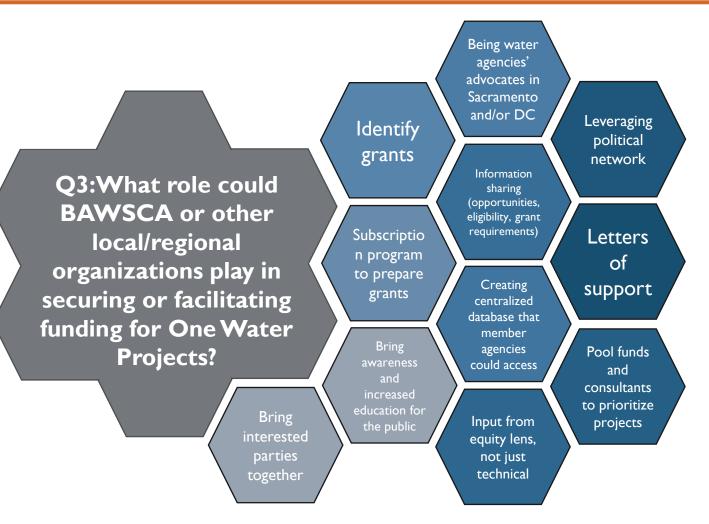
Support availability of affordable water supplies and demand management strategies to all customers.



Closing the Gap on Funding Needed for Water Supply Resilience and Reliability

Regional Needs

- Limited funding for:
 - Water supply projects (e.g., desalination and potable reuse) that tend to be more expensive than imported supplies.
 - Project operations and management.
 - Studies and monitoring
- Limited ability to compete for external funding due to:
 - Lack of economies of scale at the individual agency level.
 - Lack of individual agency resources to identify/ pursue funding opportunities.
 - Lack of individual agency resources comply with administration and reporting requirements.





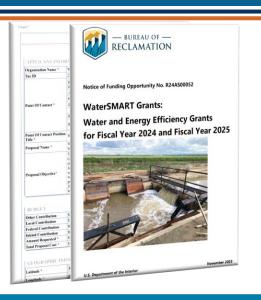
Tracking Funding Opportunities

alu 🦛 🏨		Program	Webste		
EDFA DOC 6PA	Rectamation	2022 Urban Community Drought Relief Program	https://wdw.ca.gov/Witter_Basko/Drought/Drought-Eanderg/Urban-Drought-Grant		
		Addressing Climate Impacts	https://wildlife.ca.oov/Comercation/Watenheds/Restoration-Grants/Concept		
🖉 🞯 🕗	2		Application		
CDFW DWR NRCS	Elate Wales	Applied Science Grants	http://www.usbr.gov/watersmart/apdiedspenoar/edeu/htm#		
Carrier A country of the country of		Candidate Species Conservation Fund	https://www.grants.gov/web/grants/view_opportunity.html?uppid+345058		
		Cannabia Restoration Grant Program	http://wildlife.ca.ops/Commission/Watersheds/Cannabia Restoration-Grant		
Eligible Applicants	×	Clean Water State Resolving Fund (CWSRF) Program	https://www.waterboards.ca.gov/water_issues/cooraems/goants_lisans/ora/ceanue_and https://www.waterboards.ca.gov/water_issues/cooraems/goants_loans/goa/ceanue_and _abatement.html		
All	~	Cleanup and Abatement Urgent Drinking Water Needs			
Eligible Projects All	2.2	w 2021 Oot2821 Jun 2022 Apr 2022 Jun 2022 Oot2022 Jun 2025 Apr SALC Program: Agricultural Conservation Acquisition Dirants (Acquise SALC Program: Agricultural Conservation Planning Dirants (Planning)			
pplied and Pending-Results		Bustainable Aprovitural Lands Conservation Program (SALC). Apricu	ut.		
	Status	Replacing, Removing, ar Upgrading Underground Storage Tanks (RU Drinning Illater for Schools Grant Program (DV/FS)	(51)		
	and and a				
rogram		Inhastructure State Revolving Loan Fund			
nogram Autobenefit Land Repurposing Program (MLR)		Intrastructure State Revolving Loan Fund Small Community Drought Program			
Program Multibenefit Land Repurposing Program (MLR) Sustainable Groundwater Management Grant	7 Anarded	Small Community Drought Program Riverna Devantship Program			
Program Autobenefit Land Repurposing Program (MLR) Instainable Groundwater Management Grant	7 Anarded	Small Community Drought Program Riverne Stevantship Program Integrated Regional Water Management Implementation (IRMM) Gran	ent :		
rogram Autobenefit Land Repurposing Program (MLR) ustainable Groundwater Management Grant	7 Anarded	Small Community Drought Program Riverne Stevantship Program Integrated Regional Water Management Implementation (IRMM) Gran Urban Steams Restanation Program	unt .		
Program Autobenefit Land Repurposing Program (MLR) astainable Groundwater Management Grant	7 Anarded	Small Community Drought Program Riverine Stevandship Program Integrated Regional Water Management Implementation (IRMM) Gran Urban Steams Restaration Program Clean Water State Revolving Fund (CWSRF) Program	unt :		
Program Multiberefit Land Repurposing Program (MLR) Sustainable Groundwater Management Grant Program's SGMA Implementation Round 2	 Anarded Not Awarded 	Small Community Drought Program Riverne Stewardship Program Integrated Regional Water Management Implementation (IRMM) Gran Urban Steams Restaration Program Cisan Water State Revolving Fund (CWBRF) Program Drinking Water State Revolving Fund (CWBRF)			
Program Mutiberefit Land Repurposing Program (MLR) Sustainable Groundwater Management Grant Program's SOMA Implementation Round 2 Number of Upcoming G	 Anarded Not Awarded 	Small Community Drought Program Riverine Stevandship Program Integrated Regional Water Management Implementation (IRMM) Gran Urban Steams Restaration Program Clean Water State Revolving Fund (CWSRF) Program	w 2		



Strategy 2050 "Subscription" Funding Support Services

environment & water		EKI Solicitation Tra	cking Tool BAAASCA
		* Hover over the table to see more details	
Coffa 🦛	🔒 🛛 💒 📗	Program	Website
CDFA DOC	EPA State Water	Enhanced Farmland for Pollinators, Crops, and Soil	https://www.pollinator.org/bff/ag-funding
1	٥, 🚥	2022 Urban Community Drought Relief Program	https://water.ca.gov/Water-Basics/Drought/Drought-Funding/Urban-Drought- Grant
V	IRCS USER	Addressing Climate Impacts	https://wildlite.ca.gov/Conservation/Watersheds/Restoration-Grants/Concept- Application
Eligible Applicants	~	Agricultural Conservation Easement Program (ACEP)	https://www.nrcs.usda.gov/programs-initiatives/acep-agricultural- conservation-easement-program
All	\sim	Agricultural Land Mitigation Program (ALMP)	https://www.conservation.ca.gov/dirp/grant_ programe/mitigation/Pager/Ant_andMitigationHCD/, serv
Eligible Projects All	~	Enhanced Farmland for Pollinators, Crops, and Soil	13 Oct2023 Jan 2024 Apr 2024 Jul 2024 Oct2024 Jan 2025 Apr 2025 Aut 2025 Oct2025 Jan 2
		Alliance Grants Program Alternative Manure Management Program (AMMP)	
		Biologically Integrated Farming Systems (BIOS)	
Number of Gr	and a	BIPOC Farmer Micro-Grants	
Number of Gr	ants	Brighter Future Fund	
140		Building Resilient Infrastructure and Communities (BRIC) and Flor	od Mti.
140		CA Farm to School Incubator Grant Program	
		County-wide and Regional Funding Program	d and a second se
Number of Upcomin	on Grants	Discrimination Financial Assistance Program (DFAP)	
	ig or dines	Emergency Community Water Assistance Program	
22		Farm and Ranch Solid Waste Cleanup and Abatement Program	
		Farmer Veteran Fellowship Fund	
		Farmer/Rancher	
Missing a grant or need he	lp applying for a grant?	4	
Please contact Kristy	Lindbart for help!	Evending Assess: AFT CA David of Pa. CA David of P.	Strategic CAFF CARCO CCOF COFA COFW COPR CORA CORA OWR



I. Grant Tracking

- Match available funding opportunities to your priorities
- Tailored view to the agency needs with robust filter options

2. Application Support

- Review Grant guidelines and requirements
- Coordinate with agency and project sponsor
- Prepare comprehensive grant materials and coordinate submittal

	Agency									alei
	Tat	sk Progress		Deliverable	Task		Budg	et Progress		
Task	Subtask					Category		Budget Ame	unt This Invoice Ar	nount Remaining
Task 0:	Draft Com	nponent Completion	Report				ponent Administration	\$293.000	\$4,074.94	\$285.139.
Task 0:	Final Com	ponent Completion	Report			Category (b): Envir	ronmental/Engineering/Design	\$525.762	\$57,210.29	\$276,984.5
Task 0:	Quarterly	Progress Reports	and Invoices			Category (c): Imple	ementation/Construction	\$2,372,602	\$0	\$2,372,60
Task 1: Recharge Area Identification	Collect new publicly available data needed to evaluate parcels, and solicit r information needed from willing and interested landswners through a survidentify project opportunities or parcels potentially available for recharge.		Category (d): Moni	itoring/Assessment	\$21,030	\$0	\$21,03			
			Category (e): Enga	igement/Outreach	\$10,515	\$0	\$10,51			
Task 2: Easements		easements for Con nt for operations an				Total		\$3,222,909	\$61,285.23	\$2,966,270.7
Task 3: Environmental Documentation	Complete	required CEQA doc	umentation							
Task 3: Environmental Documentation	Prepare a	and submit an Initial	Study for Con	ponent 5						
Task 3: Environmental Documentation	Prepare a Clerk's Of	appropriate CEQA de ffice and State Clear	scumentation a	and file the docume equired	ents with the					
Task 3: Environmental Documentation		EQA documents to D construction activi		nager for review an	nd concurrent		Component 1 Compone	nt 2 Component	3 Component 4	Component 5
Task & Permitting	Ohtain all	required permits a	ad submit coni	ies to DWR Grant &	lananer		Component i	component	o component a	Component a
		Jul 2022	Jan 2023	Jul 2023	Jan 2024	Jul 2024	Jan 2025 J	ui 2025 Ja	n 2026 Jul 20	126
Collapse All		0012022								
		301 1011				÷				
) be in	5012022				1				
] Task 0:		00.1022				ŧ				
Task 0: Deliverable: Component reporting to	eletion	50.2022					• •			
Task 0: Deliverable: Component reporting to Deliverable: Draft Component Comp	nletion	00 ave.					۰.			
Task 0: Deliverable: Component reporting to Deliverable: Draft Component Comp Deliverable: Final Component Comp Deliverable: Final Component Comp	aletion aletion rt					•	۰.			
Task 0: Deliverable: Component reporting to Deliverable: Draft Component Comp Deliverable: Final Component Comp Draft Component Completion Repo	nletion nletion rt rt					•	۰.			
☐ Task 6: Deliverable: Component reporting In Deliverable: Draft Component Comp Deliverable: Final Component Comp Draft Component Completion Repo Final Component Completion Repo Quarterly Progress Reports and Invi	oletion oletion rt ct oices			•			• •			
Deliverable: Draft Component Comp Deliverable: Final Component Comp Draft Component Completion Repo Final Component Completion Repo	nletion nletion nt nt nices						•			

3. Grant Administration

- Grant agreement coordination and manage documents
- Reporting, invoice packages, and progress reports
- Budget and deliverable tracking



Discussion Questions

- What funding challenges is your organization facing?
- How can Strategy 2050 help to close the gap on funding needed for water supply resilience and reliability?



Strategy 2050 Objectives

Provide a comprehensive picture of the region's supply and demand management needs and options.

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

2

3

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.



Support availability of affordable water supplies and demand management strategies to all customers.



Supporting Availability of Affordable Water Supplies and Demand Management Strategies to All Customers

Regional Needs

- Ensuring customer affordability, particularly for alternative water supplies that may require expensive new capital infrastructure and development of operational capacity to integrate new supplies.
- Limited opportunities for economies of scale during project implementation for small agencies.
- Identification of entities responsible for funding projects with multiple benefits and stakeholder collaboration.



Supporting Availability of Affordable Water Supplies and Demand Management Strategies to All Customers

Strategy 2050 – Document Affordability Challenges and Opportunities

- Evaluate affordability
 - Review State and regional findings and efforts related to affordability
 - Identify affordability challenges
- Assess affordability programs
 - Research and evaluate existing rate assistance programs
 - Develop recommendations on potential programs and/or models





Discussion Questions

- What challenges related to water affordability are your communities facing?
- What other efforts related to customer affordability could inform Strategy 2050 (e.g., work completed or in progress by your organization or others)?
- How can Strategy 2050 help to support affordable water supplies and demand management strategies?



Expanding Regional Dialogue and Collaboration to Collectively Address Common Needs

Regional Needs

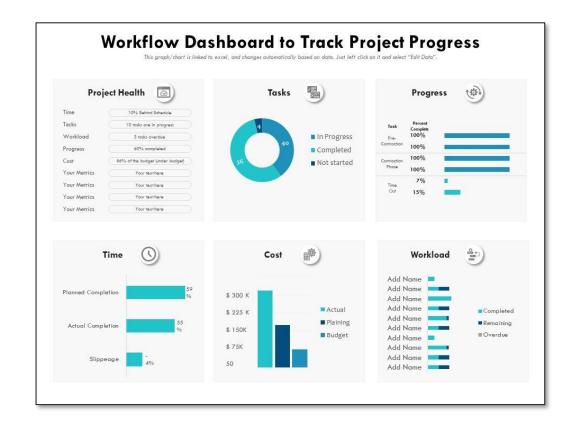
- Interagency collaboration and knowledge sharing could lead to potential cost savings and efficiencies (e.g., 85% of BAWSCA agencies are projected to fully implement AMI by 2035 but regional collaboration on project planning and implementation is limited).
- Emerging and/or increasingly stringent regulations, currently being addressed in silos at the individual agency level.
- Limited understanding of system interconnections and associated capabilities hinders the use of interconnections during emergencies.
- Community disengagement and reluctance to embrace alternative supply solutions and public acceptance of potable reuse.



Expanding Regional Dialogue and Collaboration to Collectively Address Common Needs

Strategy 2050 – Develop Strategy 2050 & Track and Report 2050 Implementation

- Facilitate stakeholder engagement in Strategy 2050 development
- Enable ongoing coordination, information sharing, and process tracking
 - Tools to facilitate effective communication with decision-makers and advocate for the region
 - Dashboard to track progress on Strategy 2050 objectives
 - Develop Decision Support Tool (DST)
 - Develop action plan and annual progress reports





Poll: In What Aspects of Strategy 2050 Development Are You Most Interested in Engaging?



Poll: Who Else Should BAWSCA Seek to Engage in Strategy 2050 Development?



Item # 11

Closing Remarks and Next Steps

Strategy 2050

Engagement Opportunities to begin in early 2025

Next Roundtable Workshop

Future Topic Ideas?

