

CITIZENS' WATER ADVISORY COMMITTEE (CWAC)



Wednesday, October 7, 2015, 7:00 a.m.
Director's Conference Room
Tucson Water, 3rd Floor
310 W. Alameda Street, Tucson, Arizona

Legal Action Report

1. Roll Call:

The meeting was called to order by CWAC Chair, Brian Wong at 7:05 a.m. Those present and absent were:

Present:

Brian Wong	Chairperson, Representative, City Manager
Jean McLain	Representative, City Manager
Catlow Shipek	Representative, City Manager
Mark Taylor	Representative, City Manager
Mitch Basefsky	Representative, City Manager
Placido dos Santos	Representative, City Manager
Chuck Freitas	Representative, City Manager
Mark Stratton	Representative, City Manager
Ryan Lee	Representative, Ward 1 (arrived after roll call)
Amy McCoy	Representative, Ward 2
Bruce Billings	Representative, Ward 3
George White	Representative, Ward 4
Mark Lewis	Vice Chair, Representative, Ward 5
Albert Elias	Tucson Water, Acting Director, Ex-Officio Member
Jackson Jenkins	Pima County Regional Wastewater Reclamation Department Director, Ex-Officio Member

Absent:

Mark Murphy	Representative, Mayor
Kelly Lee	Representative, Ward 6

Tucson Water Staff Present:

Sandy Elder	Deputy Director
Scott Clark	Deputy Director
Jeff Biggs	Water Administrator
Andrew Greenhill	Intergovernmental Affairs Manager
Melodee Loyer	Water Administrator
Pat Eisenberg	Water Administrator
Wally Wilson	Chief Hydrologist
Johanna Hernandez	Staff Assistant
Kris LaFleur	Staff Assistant

Others Present:

Chris Avery	City of Tucson, Attorney's Office
David Ortega	City of Tucson, Budget
Amy Stabler	City of Tucson, Ward 6
Jeff Tannler	ADWR
Michael Block	Metro Water
Betsy Wilkening	Project Wet
Ty Morton	HDR

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2. **Announcements** – Member McLain announced the joint CAP WRRRC Sustainable Water for Southern Arizona event. The event takes place November 6, 2015 at 7:30 a.m., and members have all received email with detailed information. Tucson Water staff announced that the meeting room has been wired for recording and is sensitive to conversations held in the audience. An update was provided on the process for City/State Garage parking.
3. **Call to Audience** – No action taken.
4. **Review of September 2, 2015 Legal Action Report and Meeting Minutes** – Committee Member Stratton motioned to approve the Meeting Minutes of September 2, 2015. Member McLain seconded. Motion passed unanimously by a voice-vote of 12-0.
5. **Director's Report** –
 - a. **Mayor and Council Items** – On October 20th, Mayor and Council will consider an amendment to the Intergovernmental Agreement (IGA) with the City of Phoenix for additional water storage. Mayor and Council will also consider an amendment an IGA with the University of Arizona to expand an existing study to determine effective messages for the marketing of conservation programs.
 - b. **Department Updates** – Tucson Water currently has 61 vacancies, 27 active recruitments and 7 pending new hires. The Utility is aggressively pursuing filling its vacancies. A brief discussion was held on the nature of the Utility's vacancies.
 - c. **Informational Items** – Potable water production is down 4.1% for the Fiscal Year and down 7.1% for the Calendar Year. Reclaimed water production is down 7.1% for the Fiscal Year and down 15% for the Calendar Year. Recent rains have likely contributed to lower demands. The Director's Recruitment will be closing soon; the announcement was passed around for members to see. At the request of the member's information regarding the financial impact of decreased production on this year's budget will be provided to the Committee.
6. **Subcommittee Reports** –

Technical, Policy, and Planning Subcommittee – On behalf of Subcommittee Chair, Member Wong reported the TPP received a presentation on the Alternative Infrastructure Assessment; Tucson Water will speak to that presentation today. Tucson Water also presented a Staff Report on the use of glyphosate on Tucson Water property; the full Committee will receive a report on this issue in November or December.

Finance Subcommittee – Subcommittee Chair Billings reported meetings are approaching to begin the financial process.

Conservation and Education Subcommittee – Subcommittee Chair McCoy, Member Shipek reported that the next C&E Subcommittee meeting is scheduled for Wednesday, October 14 at 3:00 p.m.

Bill Redesign Ad-Hoc – Subcommittee Chair Freitas reported the Subcommittee is proceeding apace with redesign, and expect to meet in the near future.

RWRAC Update – Member Taylor reported that RWRAC did not meet last month, but the financial process has begun. Having not achieved rate increases, there will be a focus on looking at multiple scenarios.
8. **Subcommittee Appointments** – Member Stratton requested to join Bill Redesign, Member Lee requested to join C&E, and Member Lewis requested to join Finance. Member Billings motioned to appoint members to subcommittees as requested. Motion seconded by Member Freitas. Motion passed unanimously by a roll-call vote of 13-0.
9. **Alternative Infrastructure Assessment (AIA)** – Tucson Water staff member Melodee Loyer presented a PowerPoint on the preliminary results of the Alternative Infrastructure Assessment (AIA) Study. The AIA Study was undertaken as a result of rising costs for the Avra Valley Transmission Main (AVTM) Program.

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The intention of the Study was to evaluate and assess the Utility's infrastructure and determine how best to achieve the redundancy of the planned AVTM with the most efficient use of funds given the falling gallons per capita per day (GCPD) projections. Multiple portfolios were considered, evaluated, and compared to one another. The final evaluation included five portfolios: maintain business as usual; proceed with a 66" AVTM; enhance the Santa Cruz well field; enhance the Santa Cruz well filed along with a 48" AVTM; and enhance the Santa Cruz well filed along with the development of Indirect Potable Reuse, and a 48" AVTM. The Study recommended that the Utility would benefit from focusing on maintaining the current infrastructure, expanding the Santa Cruz well field, and continuing investment in system reliability. Ms. Loyer discussed the implications of the recommendations to Tucson Water's CIP. Current projections may push the need for the AVTM out to 2025 or possibly beyond. The property needed for the AIA is mostly within the Right of Way, little property would need to be purchased. Discussion was held regarding under what circumstances would the 96' be out; how was reliability measured; redundancy and capacity considerations; conservation versus infrastructure investment; and conservation messaging surrounding the reduction in GCPD reducing infrastructure needs

10. **Arizona Department of Water Resources (DWR)** – Jeff Tannler, Active Management Area (AMA) Director for DWR. DWR's new director is Tom Buschatzke, and he has a background in water; the new Deputy Director is Lynn Smith, and her background is in finance, budget, and personnel. Ms. Smith is implementing the Lean Process, which focuses on efficiency in processes, not reduction in staff. The department's budget is in good shape, and the Governor is involved in getting additional support and funding. The department is limited by the hiring freeze, but dispensation has been granted to fill some positions. DWR is focusing on consistent messaging conveying that we are not in crisis. Extensive water planning, storage, redundancy, and vigilance have all played a role in our current position. The Groundwater Management Act of 1980 accelerated that planning. Arizona's 2014 Strategic Vision is integral to future planning. The Vision includes 22 planning areas and DWR will be heading up the next steps on the Vision, which will be tailored to fit each planning area's needs. Another aspect of the Vision is an Augmentation Council, members of which will be appointed by the governor, to look at state wide augmentation. Both the planning area activities and the Council will be getting started in the coming months. While El Nino may not positively impact water levels in CAP, it will help the region with increased rains. In the past plans were done concurrently, with a much reduced staff plans are being done one-by-one, the 4th Management Plan for the Tucson AMA is in process now; Prescott is done. A draft may be ready by end of month. No significant changes in conservation requirements are expected. The calculation of gallons per capita per day will be slightly different, with no significant impact. The Tucson AMA has generally met safe yield, due in part to storage in Avra Valley. Comparatively, Prescott may reach safe yield by 2025 if they import another source of water. Pinal faces challenges in meeting agriculture irrigation needs and they rely heavily on CAP water. A discussion was held on the make-up and purpose of the Augmentation Council, which will have representatives of water users and providers; agriculture water uses; government; and many more. Extensive delays to the 4th management plan were discussed in more detail and it was noted that careful internal review is being undertaken

Ex-Officio Member Jenkins departed at 8:00 a.m.

11. **TW Strategic Plan** – Tucson Water staff member Jeff Biggs presented a PowerPoint on Tucson Water's Strategic Plan. Extensive water planning has led to the delivery of CAP water, the development of the reclaimed system (saving 4 billion gallons of potable water yearly), widespread conservation, Long Range 2050 plan, and Recycled Water Master Plan resulting in Tucson Water's Water Reliability Program and drought preparedness. The benefits of a Strategic Plan are: optimization of operation, providing an internal and external blueprint, documentation of standards, engagement of stakeholders, communication of values and goals, and providing transparency and consistency. The result of the Strategic Plan was the development of Water Reliability and ensuring consistency with voter approved plans.

Member Wong departed at 8:11 a.m. and returned at 8:13 a.m.

The Plan is made up of behavioral values, business values, standards, and key policy issues. It is a living document, and will be updated as necessary. The business values were reviewed generally. The key policy issues were discussed generally and the issue of "Meet all current and future water quality issues and requirements" was discussed in depth as an example of the use of the strategic plan. The Plan is currently being used in budget and program planning.

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Committee discussion was held regarding the uses of technologies to reduce costs and increase efficiency, in-house vs external testing, and engagement versus advocacy. Discussion was held regarding a more concerted focus on conservation in the Strategic Plan and Long Range Plan and not be purely reactionary to planning efforts. The Utility may benefit from a more concentrated effort to consider conservation independently, and to coordinate planning efforts and goals specific to conservation. It was suggested that a scenario box, like the AIA scenario result box, reflecting planning for conservation and/or water demand and impacts (finance, infrastructure, and water use) would be a useful graphic for communication. In regards to water demands, the Water Service Area Policy (WSAP) is relatively static, and defines the Utility's service area; all planning is done within the current parameters of the Policy. A discussion was held on the possible effects of the WSAP on demands.

Member McClain departed 8: 31 a.m. returned 8:34 a.m.

12. **Update on IAPC Subcommittee Review of the Admin Service Charge** – Tucson Water staff member Johanna Hernandez briefly summarized recent proceedings of the Independent Audit and Performance Commission (IAPC) and its Cost Allocation Subcommittee's review of the City's Administrative Service Charge procedures. The Subcommittee focused on the methodology, process and program and did not go into detailed review of specific cost allocation factors. The Cost Allocation Subcommittee submitted a report to the full Committee finding that the City's procedures and allocation system is sound and as a result any allocations are fair, equitable, and reasonable. The Committee directed that the Subcommittee provide additional information and data to support its conclusions. When the Committee completes its work, staff will report back to CWAC. The IAPC meets today to consider the revised report. If the report is accepted, staff will request a representative to discuss their conclusions. Staff discussed the Utility's ability to negotiate the number of units of service, but clarified that it cannot negotiate the cost per unit. It was also clarified that Tucson Water is part of the City, and the Utility cannot independently choose not to participate in centralized services. Additionally, it was discussed that independent services from for-profit private organizations would not be reasonably, directly comparable to a centralized system such as the one City utilizes. The City allocates direct costs to recoup the City's cost to provide centralized systems; there is no rate set that could be compared to a private rate. It was noted that the regardless of Tucson Water's participation in the City's centralized services; citizens would still have to cover the cost of the services. It was clarified by members that as citizens pay for centralized services in their taxes, and are assessed fees to cover centralized services in their water rates, the concern is that perhaps rate payers are assessed twice for the same services.

Ex-Officio Member Elias departed at 8:51

13. **Future Meetings/Agenda Items** – See projected agenda.
14. **Adjournment** – Meeting was adjourned at 9:00 a.m.

Alternative Infrastructure Assessment (AIA)

CWAC Update - October 7, 2015

- Melodee Loyer PE, Planning Administrator, Tucson Water

Purpose

Share the results of the Alternative Infrastructure Assessment that will allow the Citizens Water Advisory Committee to provide informed recommendations to Tucson Water and the City Council

Bottom Line

The AIA results suggests that sustaining capacity in the Central Well Field and expanding the Santa Cruz Well field while investing in the existing system's reliability will allow for the Avra Valley Transmission Main to be reduced in size and constructed much further into the future and substantially reduce interim capital cost.

Agenda

- Background: AVTM route study & costs
- AIA Highlights, & Results
- How AIA relates to TW's Strategic Plan

The AVTM Program Included

TW CIP	Project Description	Estimated Project Cost
W570	Country Club Reservoir and Zone Booster	\$22.5M
W144	Drexel PRV	\$0.15M
W795	Hayden-Udall Prime Reservoir and Booster Station	\$13.86M
W410	Avra Valley TM Augmentation Phase I	\$44.95M
W762	Avra Valley TM Augmentation Phase II	\$20.0M
W080	Avra Valley TM Augmentation Phase III	\$17.0M
W067	Country Club C-Zone Augmentation Transmission Main	\$13.75M
W068	Park Ave B Zone Augmentation Main	\$9.95M
W142	SW Turnout PRV	\$0.35M
W143	Augmentation Surge Protection Facility	\$0.8M
W145	3rd Ave PRV	\$0.6M
	Total	\$143.9M

Original AVTM Schedule *

ID	Task Name	Duration	Start	Finish	2015				2016				2017				2018				2019				2020				2021			
					Q3	Q4	Q1	Q2	Q3	Q4																						
1	Phase I Design	305 days	Mon 10/6/14	Fri 12/4/15	█																											
2	Bid/Award	60 days	Mon 8/14/17	Fri 11/3/17									█																			
3	Construction	295 days	Mon 11/13/17	Fri 12/28/18									█																			
4																																
5	Phase II Design	262 days	Mon 8/20/18	Tue 8/20/19													█															
6	Bid/Award	60 days	Mon 9/30/19	Fri 12/20/19																	█											
7	Ph II Construction	270 days	Mon 1/6/20	Fri 1/15/21																	█											
8																																
9	Phase III Design	240 days	Mon 11/25/19	Fri 10/23/20																	█											
10	Bid/Award	60 days	Mon 11/9/20	Fri 1/29/21																					█							
11	Phase III Construction	240 days	Mon 2/1/21	Fri 12/31/21																					█							

* Project schedule based on 2050 plan, using 130 gpcd

Alternatives Infrastructure Assessment (AIA) – Scope of Work

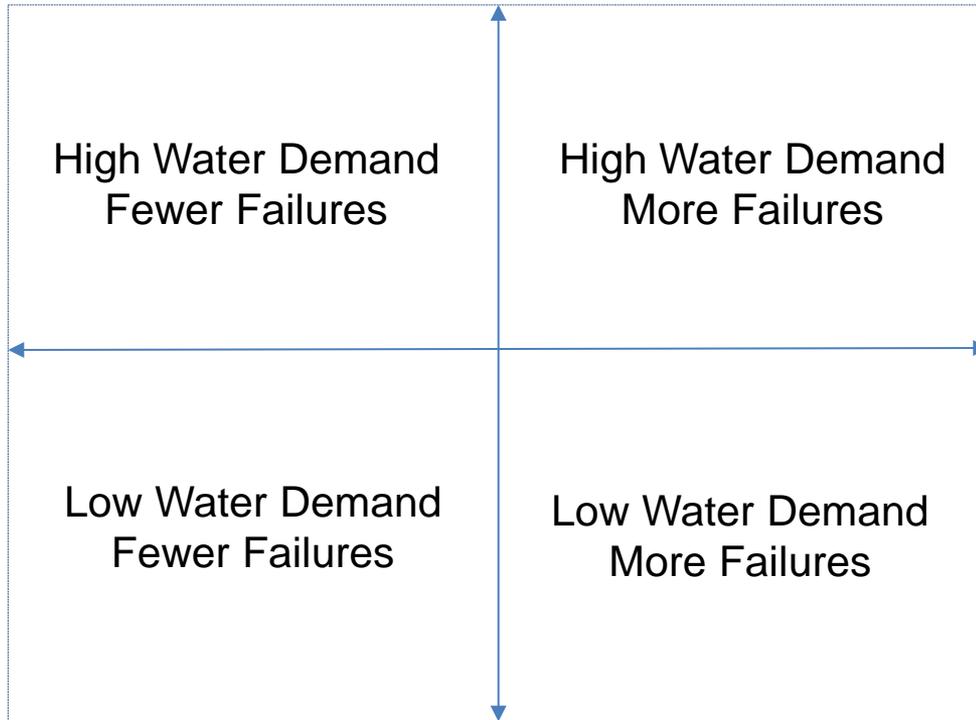
a.k.a. Making sure we are spending funding wisely & providing the needed redundancy

Some Possible Options:

- Maintain/Enhance Central Wellfield production capability?
- Increase Santa Cruz Wellfield capacity?
- Increase capacity through Plant 9?
- Implement Recycled Master Plan (Indirect Potable) sooner?

Scenario Planning: Four possible futures

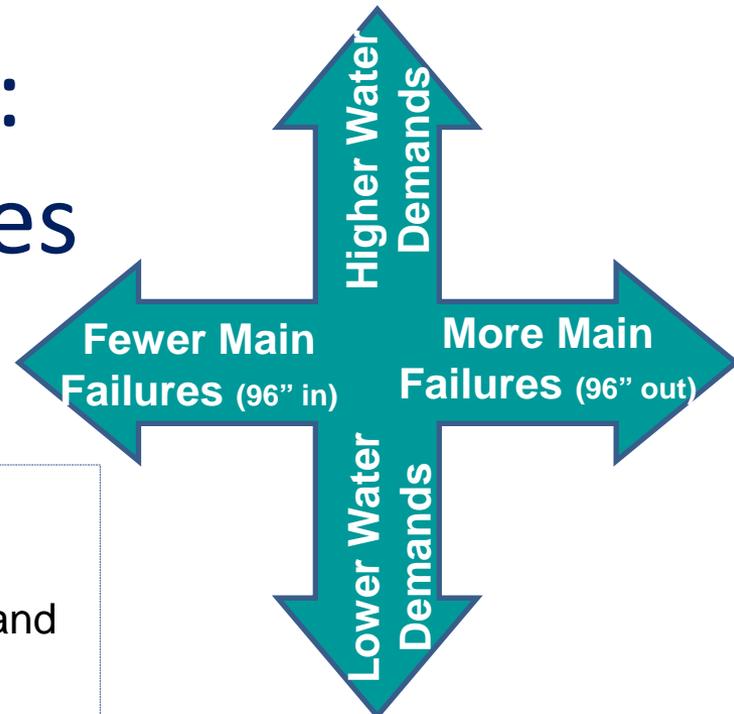
Potable Water Demand Higher than Expected



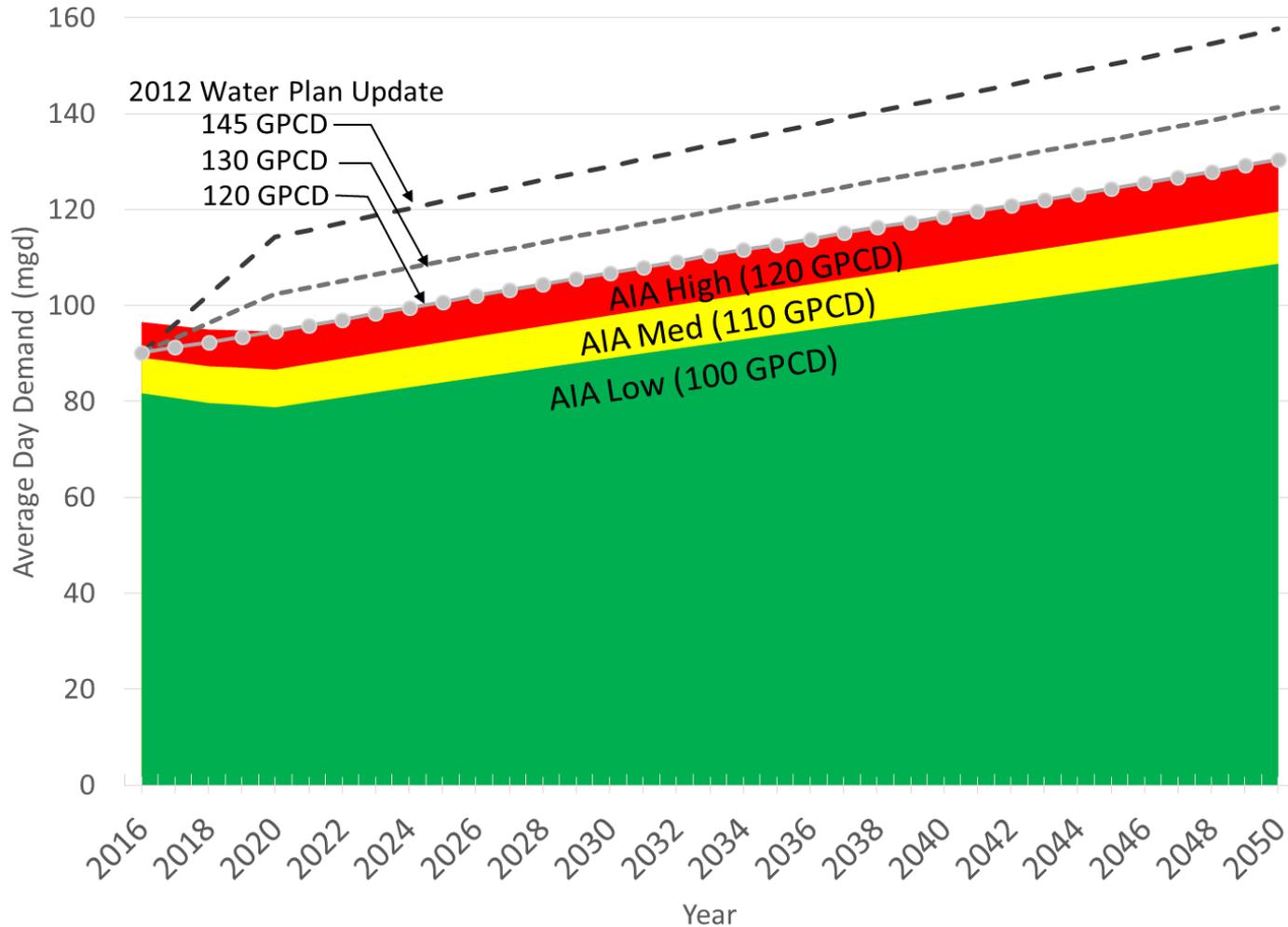
Fewer Critical Transmission Main Failures than Expected

More Critical Transmission Main Failures than Expected

Potable Water Demand Lower than Expected



Declining Potable Demands impact Infrastructure Needs



System Alternative Development: Initial Strategy Table

AVTM	Santa Cruz	Central Well Field	42" Valencia Main	IPR
No action	No action	No action (maintain existing capacity)	Remain at 20 mgd	No action
Smaller capacity	New recovery wells	Reequip wells	Increase to 30 mgd	11.6 mgd to 96" or A Zone
Build 66"		Construct new super wells (ASR)		
		Reequip wells and construct new super wells (ASR)		

Scenarios

Low Demand and 96" in

High Demand and 96" in

Low Demand and 96" out

High Demand and 96" out



System Alternatives Development: Revised Strategy Table

Scenarios

AVTM	Santa Cruz	Central Well Field	42" Valencia Main	IPR
No action	No action	Maintain existing capacity	No action (Remain at 28 mgd)	No action
Smaller capacity	New recovery wells			11.6 mgd to 96" or A Zone
Build 66"				



Low Demand and 96" in
High Demand and 96" in
Low Demand and 96" out
High Demand and 96" out

Portfolio Review

Portfolio	Description
1 – BAU	Business as Usual
2 – AVTM 66	AVTM 66”
3 – SC	Santa Cruz wellfield enhancement
4 – SC/AVTM 48	Santa Cruz plus AVTM 48”
5 – SC/IPR/AVTM 48	Santa Cruz plus IPR and AVTM 48”

Water Balance Results

The combination of scenario (X) and portfolio (Y) = One simulation (X-Y)

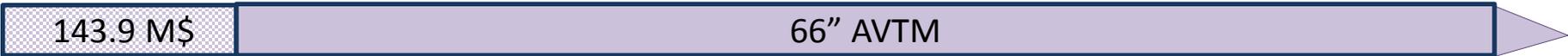
		Scenario			
		1 – Hi/In	2 –Hi/Out	3 – Low/In	4-Low/Out
Portfolio	1 – BAU		2020		2036
	2 – AVTM 66"	AVTM 66" not needed		AVTM 66" not needed	
	3 – SC		2025		2042
	4 – SC/AVTM 48"	AVTM 48" not needed	2049	AVTM 48" not needed	
	5 – SC/IPR/AVTM 48"	AVTM 48" not needed		AVTM 48"/IPR not needed	

Findings and Recommendations

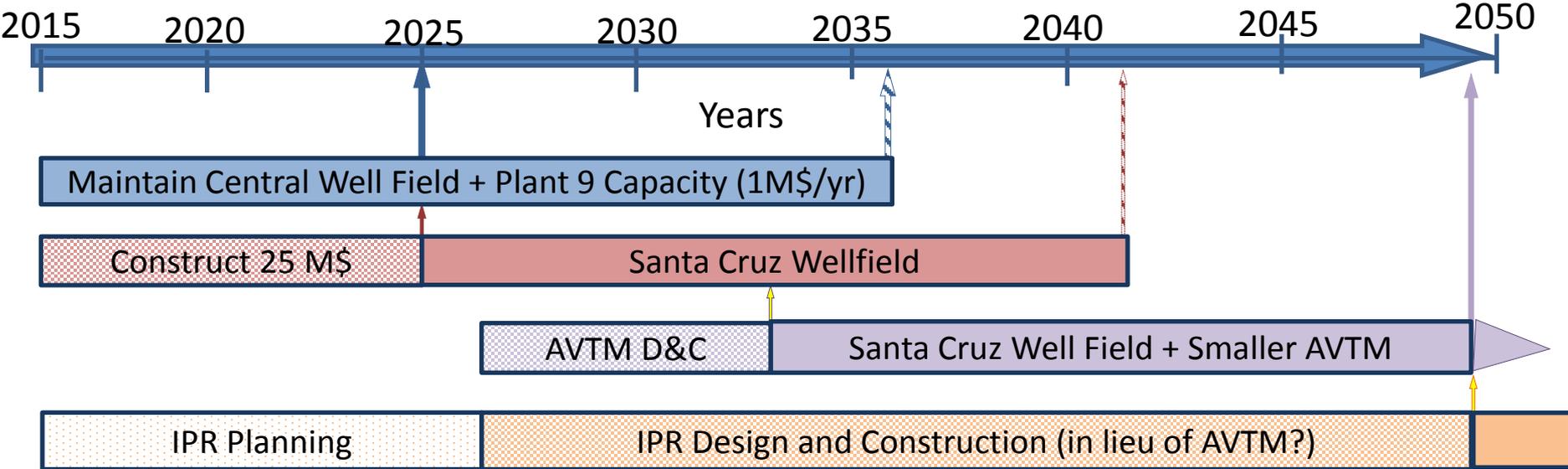
- Water demand forecasts for this study are substantially lower than prior projections.
- Under these forecasts, the choice of the preferred solution is unaffected by water demand.
- Actions common to all scenarios:
 - Sustain Central Well field capacity
 - Santa Cruz Well Field Expansion
- Continued investment in existing system reliability will be less costly than building the AVTM, with the same overall value
 - Risk Assessment results suggest that a comprehensive large diameter pipeline management program would enhance system reliability.

AIA Outcome

Original AVTM Plan



AIA Plan



Sound Planning and Appropriate Investment in Water and Infrastructure

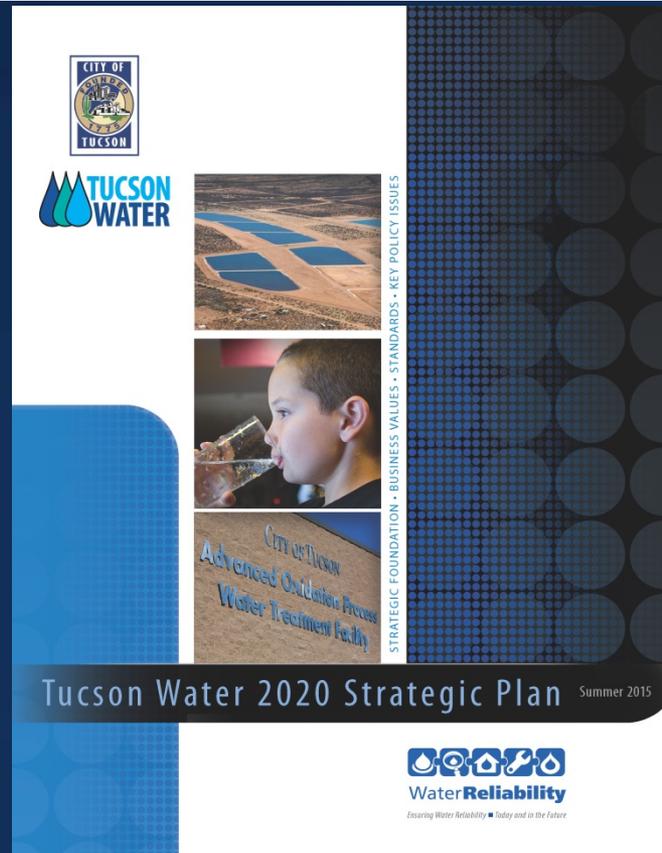


Water **Reliability**

Questions / Comments

- **Melodee Loyer, PE – Planning Administrator**
 - Melodee.Loyer@tucsonaz.gov, 520-850-8950
- **Dean Trammel, PE – Civil Engineer**
 - Dean.Trammel@tucsonaz.gov, 520-837-2221

Integrated Management: Tucson Water Strategic Plan



Citizens Water Advisory Committee
October 7, 2015



Tucson Water's History

Careful Planning and Investment in Water

4. 2050 Long-Term Strategic Plan, 2012 Update Water Plan: 2000-2050, Recycled Water Master Plan



Navigating the Future

The Benefits of a Strategic Plan

Optimal Utility Operation

- Establish 5-year planning horizon
- Identify key policy issues to be addressed within the planning horizon
- Utilize the Strategic Plan to determine capital and operating budgets
- Provide all employees a blueprint for utility's goals and operation
- Fully address future risk opportunities and investments



Navigating the Future

The Benefits of a Strategic Plan

An Administrative Blueprint

- Integrate management, strategic planning and operations
- Provide a process for documenting standards and compliance
- Establish a planning framework using the utility's highest values and standards



Navigating the Future

The Benefits of a Strategic Plan

Effective Stakeholder Engagement

- Provide substantive yet accessible information about Tucson Water
- Clearly communicate Tucson Water's roles, motivations, standards and values to the community
- Demonstrate that Tucson Water's mission and goals are consistent with community wide objectives
- Provide a clear and consistent format for describing major policy issues and necessary investments

The collage features two main pieces of communication:

- Water Matters Magazine (March 2015):** The cover includes the City of Tucson logo and the title 'WATER MATTERS'. The 'inside this issue' sidebar lists:
 - Your Utilities: Wastewater & Environmental Services (2-3)
 - Working with Water: Learn about the AOP Facility (4-5)
 - Water Efficiency: Tips (6-7)
 - Water Smart: Quiz & Question (8)
- SmartScape Flyer:** Titled 'ARE YOU WATER SMART?', it promotes Tucson Water's reclaimed water system. It states that approximately 900 reclaimed water residences are served, including 80 commercial sites, median areas, and more than 700 customers (18 golf courses, 55 schools, 100 plus parks). It includes a 'Customer Question' about water-efficient landscaping and an 'Answer' section. It also mentions year-round free workshops for homeowners through the Pima County SmartScape Program.



Developing the Strategic Plan Through Organizational Collaboration

- **Multiple employee workshops were held to identify utility's values and standards**
- **“Water Reliability” emerged as the utility's central theme (brand)**
- **Key policy issues identified and actions proposed using framework of values and standards**
- **Consistency with voter and Mayor & Council approved plans**



Result

Strategic Plan 2020

Key Components

1. **Strategic Foundation:** Mission and “Behavioral Values”
2. **Business Values:** Utility-wide commitments to reliability, quality, efficiency, sound financial planning, etc.
3. **Standards:** Rules, levels of quality or achievements that are considered optimal or desirable
4. **Key Policy Issues:** Strategic challenges or opportunities that face the utility within the planning horizon



Strategic Plan 2020

Business Values and Standards

Safe, High-Quality Water Conservative Approach to Protect Public Health Comply with the Safe Water Drinking Act Comprehensive Source and System Water Quality Info High Standards for both Potable and Recycled Water	Appropriate Investment Rates Cover Full Cost of Service Appropriate CIP Funding to Ensure Reliability Explain Rationale for Investment Decisions Maintain Strong Credit Ratings
Reliable Water Supplies	Sound Financial Management

Reliable Water Supplies

Maintain 100-year Assured Water Supply Designation

Maximum Utilization of CAP Water Allocation

Diverse Water Supply Portfolio

No Systemic Groundwater Mining

Sound Planning Standards-Driven, Data-Driven Planning & Decision Making Long-Range Water Planning through 2050 Anticipate Future Regulations, Evolving Standards Engage CWAC and Community in Planning Processes	Transparency & Communication Comply with Mayor & Council Policies Accurate, Publicly Accessible Data & information Meet All Reporting Requirements Utilize Various Media for Timely Public Communications
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Strategic Plan 2020

A Flexible and Responsive “Living Document”

- **Changes in Standards:** Anticipate and respond to changes in regulations or internal standards
- **Physical Changes:** Respond to changes in water demands, the water environment, and asset conditions
- **Community Needs:** Address evolving community needs
- **Efficiency:** define opportunities to increase efficiency



Strategic Plan 2020

Tucson Water's Key Policy Issues Identified

- 1. Improve customer service**
- 2. Improve water infrastructure reliability, maintenance, and efficiency**
- 3. Meet all current and future water quality issues and requirements**
- 4. Support economic development-related water infrastructure needs**
- 5. Strengthen both the water supply sustainability and financial stability of Tucson Water**



Strategic Plan 2020

Each Key Policy Issue Includes these Elements

- **Applicable Business Values**
- **Most Relevant Standards**
- **Background Information**
- **Challenges/Opportunities**
- **Solution/Estimated Costs**
- **Timing Concerns**
- **Alternatives**
- **Plan Tucson/WISP References**



Strategic Plan 2020

Tucson Water's Key Policy Issues Identified

3. Meet all current and future water quality issues and requirements



Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Applicable Business Values

- Safe, high-quality water
- Sound planning
- Appropriate investment

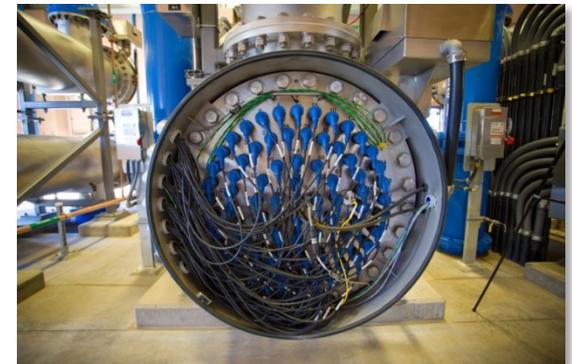


Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Most Relevant Standards

- Conservative approach to protecting public health
- Comply with Safe Water Drinking Act
- Comprehensive source & system water quality info
- Standards-driven, data-driven planning & decision making
- Anticipate future regulations, evolving standards

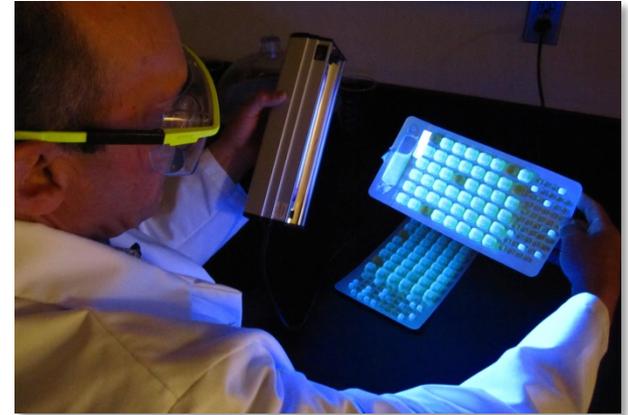


Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Background

- Tucson Water is committed to meeting “Safe Drinking Water Act” requirements
- Internal standards must meet customer needs and create confidence in water quality



Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Challenges/Opportunities

- Stay connected with regulatory trends and latest water quality insights
- Participate in the development of new regulations and share expertise with others
- Listen to community needs/desires on water quality aesthetics and issues



Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Solution/Estimated Cost

- Maintain and enhance communication and interaction with relevant governmental and private industry stakeholders
- Update CWAC and Mayor & Council on changes in water quality issues, customer desires, or regulations



March 2015

To ensure your tap water is safe, clean and secure, Tucson Water conducts approximately 14,500 individual tests each year on the water in the main distribution system – before it reaches your home. Test results for key parameters are reported by 10 water quality zones for a water distribution system that covers some 375 square miles.

Main Water System

TEST RESULTS BY WATER QUALITY ZONE

Zones	Hardness (mg/L*) 55 SP	Sodium (mg/L*) 53 SP	Nitrate-N (mg/L*) 86 SP	Fluoride (mg/L*) 86 SP	pH Level (S.U.) 247 SP	Temperature (deg°F) 247 SP
1	239	67	1.56	0.43	7.9	74.1
2	243	69	0.94	0.37	8.0	73.5
3	233	66	1.18	0.42	8.0	73.5
4	245	69	0.83	0.35	7.9	74.1
5	239	67	0.98	0.38	8.0	72.8
6	241	68	0.91	0.36	8.0	73.2
7	241	67	1.00	0.38	8.0	73.3
8	209	57	1.97	0.60	7.8	74.1
9	219	62	1.55	0.51	7.8	75.2
10	255	72	1.17	0.37	7.9	75.1
Avg	235	66	1.18	0.42	7.9	73.7

*mg/L means milligrams per liter 1 mg/L = 1 teaspoon in 1,302 gallons SP = Sample Points S.U. = Standard Units



Strategic Plan 2020

3. Meet all current and future water quality issues and requirements

Timing Concerns

- Ongoing activity that must be continued

Alternatives

- None

Plan Tucson/WISP References

- Continue to plan and manage the City's water supplies, quality, and infrastructure for long-term reliability and efficiency



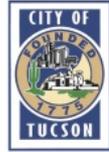
Strategic Plan 2020

Initial Applications

- FY 2016 Operations and Maintenance Budget
- FY 2016 Financial Plan
- Development of Future CIP Budgets
- Website Usability and Design
- Conservation Strategic Work Plan



Questions???



STRATEGIC FOUNDATION • BUSINESS VALUES • STANDARDS • KEY POLICY ISSUES

Tucson Water 2020 Strategic Plan Summer 2015



WaterReliability

Ensuring Water Reliability ■ Today and in the Future





Citizens' Water Advisory Committee

Projected Agenda



Meeting Date/Agenda Items

Materials Deadline

November 4, 2015

- CIP (20 min) – Melodee Loyer
- WaterSMART Program – Eve Harper, BOR
- Open Meeting Law – Johanna Hernandez

October 28, 2015

December 2, 2015

- Officer Elections
Chair/Vice Chair/Subcommittee Chair (as needed)
- 2016 Meeting Schedule
- IAPC Report and Recommendation
- Operations and Maintenance Budget

November 25, 2015

*January 6, 2016

- TW Financial Plan
- Miscellaneous Fees

*December 30, 2015

*February 3, 2016

- Adoption of Tucson Water Financial Plan
- Adoption of Miscellaneous Fees

*January 27, 2016

*March 2, 2016

- Adoption of Tucson Water Rate Schedule

*February 24, 2016

Future Agenda Items without a Date:

- Effluent Sales and ground water use Analysis **Wally
- Staff Report on History of Pool Conservation **C&E
- Administrative Fee/Cost Allocation Review **IAPC
- Customer Service Updates **Chris/Melodee
- Generation of electricity by water flowing downhill **T.Arnold/Victory
- Presentation of CWAC research findings by Julie Brugger (C Freitas)
- CAP/TW Shortage and Drought Presentation **Mitch/Wally (May)
- Antibiotic resistant genes in the Wastewater system (J McLain) **TPP
- Green Streets Presentation OIP
- Water Conservation efforts in CA (J Jenkins)

*Date subject to change pending approval of 2016 meeting schedule at December's regular meeting