



Technical Customer Advisory Committee

AGENDA

Members

Melissa Armijo	Amy Miller
Andrew Bernard	Ege Richardson
Janie Chermak	Ron Schwarzwaldner
Mike Hightower	Scott Verhines
Dave Hill	

Tuesday, January 15, 2019	4:00 PM	ABCGC – 7th Floor Conference Room 7096
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| 1. Call to Order | 4:00-4:05 |
| 2. Approval of Agenda | 4:00-4:05 |
| 3. Approval of December 6, 2018 Action Summary | 4:00-4:05 |
| 4. Approval of Open Meetings Resolution | 4:05-4:10 |
| 5. Approval of 2019 Work Plan | 4:05-4:10 |
| 6. Election of Chair/Vice-Chair | 4:05-4:10 |
| 7. Water 2120 Projects Update | 4:10-5:00 |
| 8. Water Conservation Update | 5:00-5:30 |
| 9. Public Comment | 5:30-5:35 |
| 10. Adjournment | 5:35 |

NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.



Technical Customer Advisory Committee

ACTION SUMMARY

December 6, 2018

Members Present:

Melissa Armijo
Andrew Bernard
Janie Chermak
Mike Hightower
Dave Hill
Amy Miller
Ege Richardson
Ron Schwarzwaldner
Scott Verhines

Water Authority Staff Present:

Stan Allred, Chief Financial Officer
Adrienne Candelaria, Customer Service Manager
Marta Ortiz, Controller
Elizabeth Anderson, Water Quality Program Manager
Frank Roth, Senior Policy Manager

Consultants Present:

Carol Malesky, Stantec

Item 1 – Call to Order - Note presence of quorum

The meeting was called to order at 4:00 pm by Chair Ege Richardson.

Item 2 – Approval of Agenda

Melissa Armijo made a motion to approve the agenda. Dave Hill seconded the motion. The motion passed on a 7-0 vote.

For: 7 Armijo, Bernard, Hill, Miller, Richardson, Schwarzwaldner, Verhines
Against: 0
Excused: 2 Chermak, Hightower

Item 3 – Approval of October 4, 2018 Action Summary

Ron Schwarzwaldler made a motion to approve the action summary as amended to correct the vote tally. Scott Verhines seconded the motion. The motion passed on a 7-0 vote.

For: 7 Armijo, Bernard, Hill, Miller, Richardson, Schwarzwaldler, Verhines
Against: 0
Excused: 2 Chermak, Hightower

Mike Hightower and Janie Chermak entered the meeting at this time.

Item 4 – Water-Sewer Rate Evaluation Presentation

Carol Malesky reviewed the Cost-of-Service (COS) process and discussed the different components of the COS analysis for rate design. She also reviewed the rate revenue policies and rate design pricing objectives. In addition, she discussed the fixed charges and commodity rates of the Water Authority's current rate structure.

Item 5 – Customer Conversations Results Presentation

Elizabeth Anderson presented the results from the FY19 Customer Conversations meetings on drinking water quality. She reviewed the customer input on the aesthetic water quality attributes and their suggestions for improving the Water Quality Report. She stated that the input received will be incorporated into the redesign of the Water Quality Report.

Item 6 – Public Comment

Elaine Hebard provided comments.

Item 7 – Adjournment

The meeting concluded at 5:36 pm.

**ALBUQUERQUE BERNALILLO COUNTY
WATER UTILITY AUTHORITY
TECHNICAL CUSTOMER ADVISORY COMMITTEE**

RESOLUTION

**DETERMINING REASONABLE NOTICE OF PUBLIC MEETINGS OF THE
TECHNICAL CUSTOMER ADVISORY COMMITTEE.**

WHEREAS, the Albuquerque Bernalillo County Water Utility Authority's Technical Customer Advisory Committee (Committee) meets in regular session at Room 7096, One Civic Plaza, and other locations; and

WHEREAS, Section 10-15-1(B) of the Open Meetings Act (NMSA 1978, Sections 10-15-1 to Section 10-15-4) states that, except as otherwise provided in the constitution of New Mexico or the Open Meetings Act, all meetings of a quorum of members of any board, committee, administrative adjudicatory body or other policy making body of any state or local agency held for the purpose of formulating public policy, discussing public business or for the purpose of taking any action within the authority of or the delegated authority of such body, are declared to be public meetings open to the public at all times; and

WHEREAS, any meetings subject to the Open Meetings Act at which the discussion or adoption of any proposed ordinance, resolution, rule, regulation or formal action occurs shall be held only after reasonable notice to the public; and

WHEREAS, Section 10-15-1(D) of the Open Meetings Act requires the Committee to determine at least annually what constitutes reasonable notice of its public meetings.

BE IT RESOLVED BY THE COMMITTEE:

Section 1. Meetings of the Committee will normally be held in Room 7096 of the Albuquerque/Bernalillo County Government Center at One Civic Plaza, near the intersection of Fifth Street and Marquette Avenue, NW, Albuquerque, New Mexico, and other locations as needed.

Section 2. Regular meetings will normally be held on the first Thursday of each month. The agenda will normally be available seventy-two (72) hours prior to the meeting on the Water Authority website and at the offices of the Water Authority.

Section 3. Special meetings may be called by the Chair of the Committee upon seventy-two (72) hours notice. Special Meetings shall be subject to the same notice and agenda availability requirements as noted for regular meetings in Section 2.

Section 4. Emergency meetings will be called only under circumstances when an unexpected occurrence or condition, or the state resulting there from, requires immediate consideration or action to protect the health, safety and property of citizens or to protect the public body from substantial financial loss. The Committee will avoid emergency meetings whenever possible. Emergency meetings may be called by the Chair of the Committee upon twenty-four (24) hours notice. The notice for all emergency meetings shall include an agenda for the meeting or information on how the public may obtain a copy of the agenda.

Section 5. For the purpose of regular and special meetings described in Sections 2 and 3 of this resolution, notice requirements are met if notice of the date, time and place are posted at least seventy-two (72) hours prior to the meeting on the Water Authority website and on the lobby bulletin board of the Albuquerque/Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 6. For the purpose of emergency meetings described in Section 4 of this resolution, notice requirements shall be met by posting notice of the date, time, place and agenda on the Water Authority website and in the lobby of the Albuquerque/Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 7. In addition to the information specified above, all notices shall include the following language, except the last sentence applies only to full Committee meetings:

“NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.”

Section 8. Cancellations and different meeting times and places may be announced at prior meetings of the full Committee. Cancellations so announced shall also have notice given by the same methods and time frames as provided for regular meetings in Section 2. Weather, lack of quorum and other related issues may cause the cancellation of a meeting.

Section 9. Action summary minutes shall be made of all open meetings with the following minimal information:

A. Date, time, and place of meeting

B. Names of staff in attendance and a list of members present

C. A general statement of each discussion topic and of how each member voted on any motion before the Committee. A draft copy of the minutes shall be available within ten (10) working days following each meeting. Minutes do not become official until approved by the Committee at a subsequent meeting.

Section 10. Closed meetings shall not be held except as provided in Open Meetings Act.

Section 11. All or any part of this resolution may be amended or modified by the Committee from time to time. At a minimum, the Committee shall review the resolution annually as required by the Open Meetings Act.



Technical Customer Advisory Committee 2019 Work Plan

1st Quarter

- Water2120 Projects Update
- Water Conservation Update
- Water and Sewer Rate Structure
- Water Resource Charge

2nd Quarter

- FY20 Operating/Capital Budgets
- FY20 Goals & Objectives
- Clean Water Act/Safe Drinking Water Act Nexus
- Wastewater Pipe Maintenance Program and Odor Control

3rd Quarter

- Attend Customer Conversation meeting
- System Hydraulic Modeling
- Wastewater Discharge Permit Update

4th Quarter

- Silvery Minnow Monitoring Program Update
- Computerized Maintenance Management System Asset Update
- Aquifer Storage & Recovery Program Update

Albuquerque Bernalillo County
Water Utility Authority

WATER 2120
SECURING
OUR WATER
FUTURE

Water 2120 Projects Update

TCAC MEETING
JANUARY 15, 2019

1

Water 2120 Plan Elements

Albuquerque Bernalillo County
Water Utility Authority

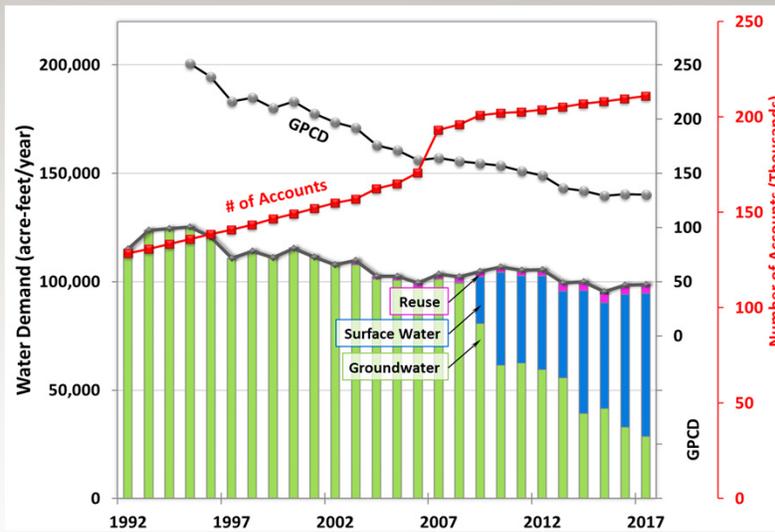
- Conservation – 110 gpcd in 20 years (plan adopted 2016)
- Diverse portfolio of supplies – includes stormwater
- No additional acquisition of Pre-1907 Water Rights
- Reuse – includes ASR and/or new storage
- Aquifer storage and recovery (ASR) – Large Scale
- Flexible infrastructure to move supply where it is needed
- Additional storage – Elephant Butte and Abiquiu Reservoirs
- Indirect potable reuse/direct potable reuse (IDPR/DPR)
- Watershed management – new agreement



The diagram illustrates the Water 2120 Plan Elements. It features a central octagonal hub with the text "WATER 2120 SECURING OUR WATER FUTURE". Surrounding this hub are ten smaller icons, each representing a different water management strategy: Conservation, Surface Water, Ground Water, Aquifer Storage & Recovery, Watershed Management, Storm Water, Storage, Reuse & Recycling, Indirect Potable Reuse, and Conservation (repeated).

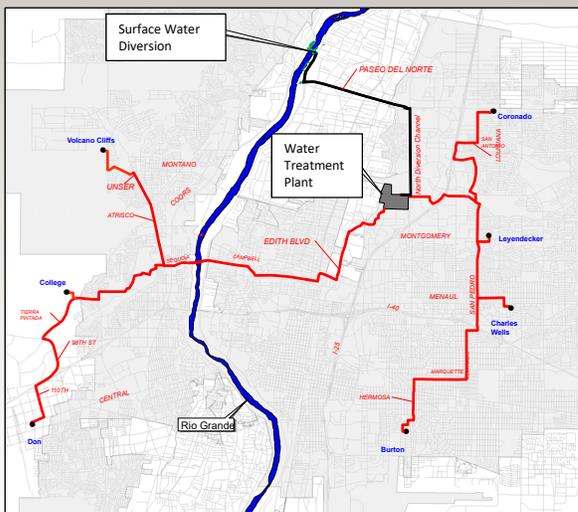
2

Water Usage has Decreased Even with Growth



3

Drinking Water Project Implemented

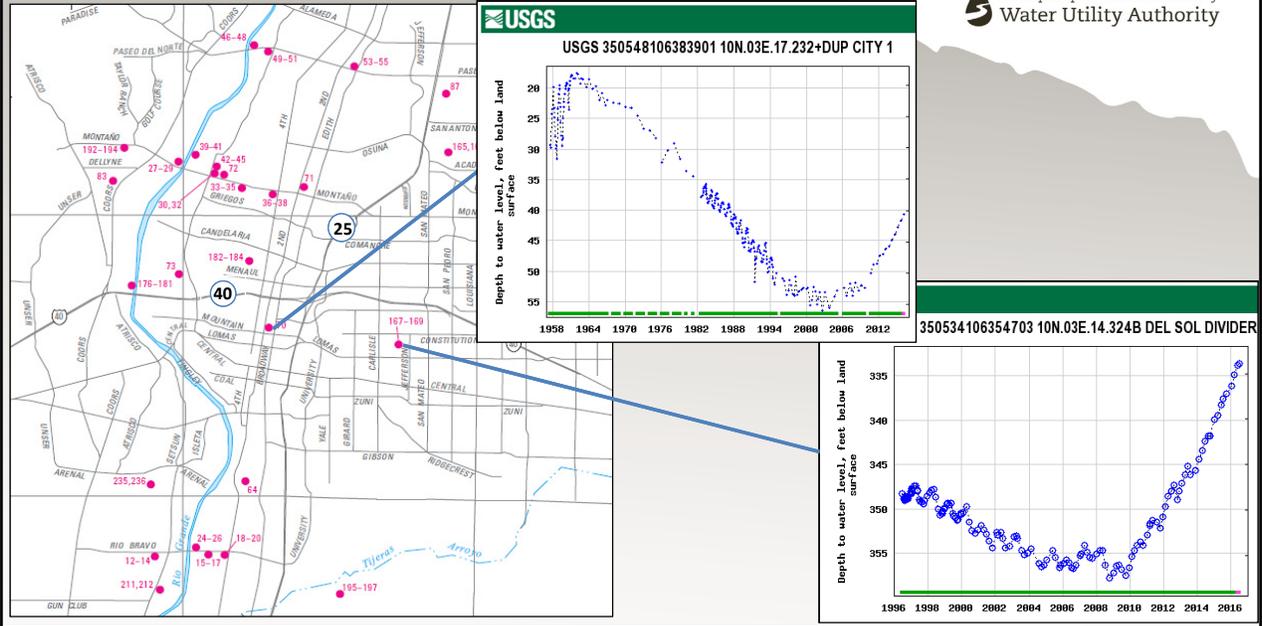


Multiple Benefits

- Co-locate wells near transmission pipelines for ASR
- New infrastructure can move supply throughout the system
- Reduced need for arsenic treatment

4

The Aquifer Continues to Rise

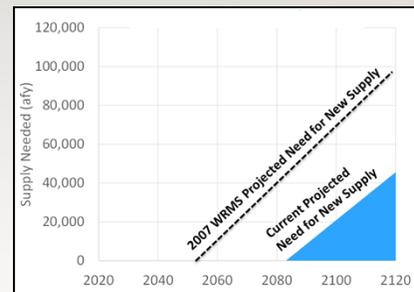


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How was the Plan Developed?

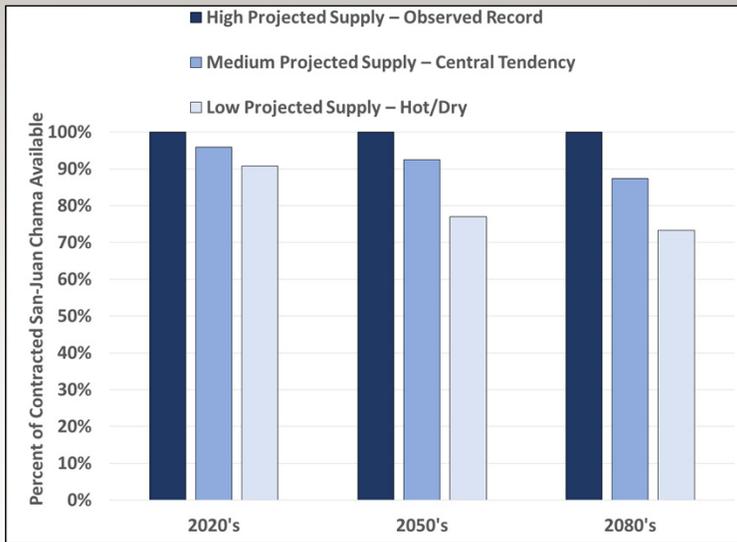
- Demand – How much water do we need?
- Supply – How much water do we have?
- Gaps – Do we need additional supply?
- Filling the Gaps – What will the new supplies be?

	Supply →		
↑ Demand	High	High	High
	Low	Medium	High
	Medium	Medium	Medium
	Low	Low	Low
	Low	Medium	High



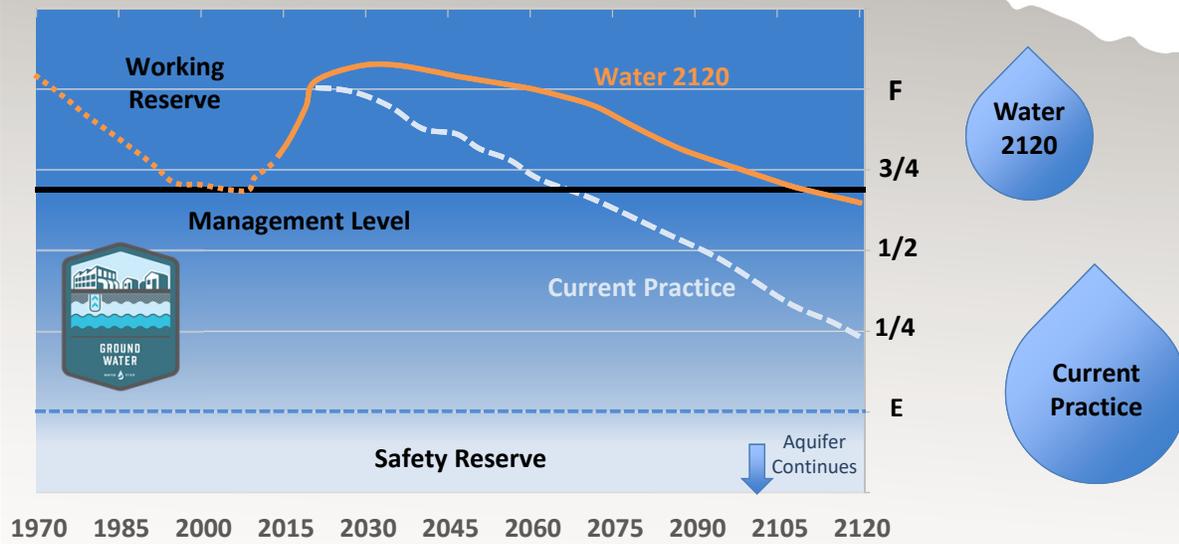
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Supply Projections Include Historical and Climate Change



7

Groundwater Reserve Management



8

Alternatives



- Conservation
- Westside reuse
- Eastside reuse
- Connect southside to NI-25 non-potable project
- Expand southside reuse project
- Indirect/direct potable reuse
- Additional large-scale aquifer storage and recovery
- New local off-channel storage
- Storm water capture
- Watershed management
- Relinquishment credit water
- Interbasin transfer
- SJC leasing
- Excess SJC water
- Regional diversion
- SP-4830 permit modification
- Water banking
- Storage fee water
- Brackish groundwater
- Produced water

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Meeting the Demand *Portfolio 1*

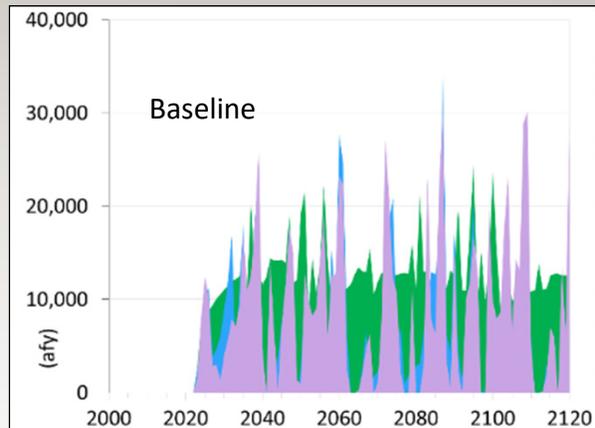
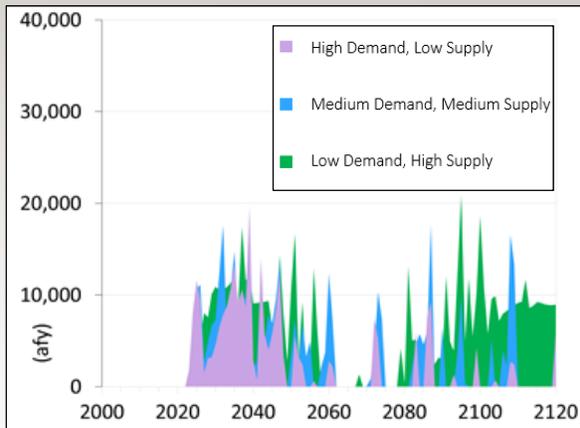


- Existing supplies (groundwater and surface water)
- Conservation – 110 GPCD in 20 years
- Reuse – includes ASR and/or new storage
- Connect North I-25 Non-potable to Southside Reuse
- Storm water capture
- Indirect potable reuse (IDPR)
- Watershed management

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Portfolio 1 Performance

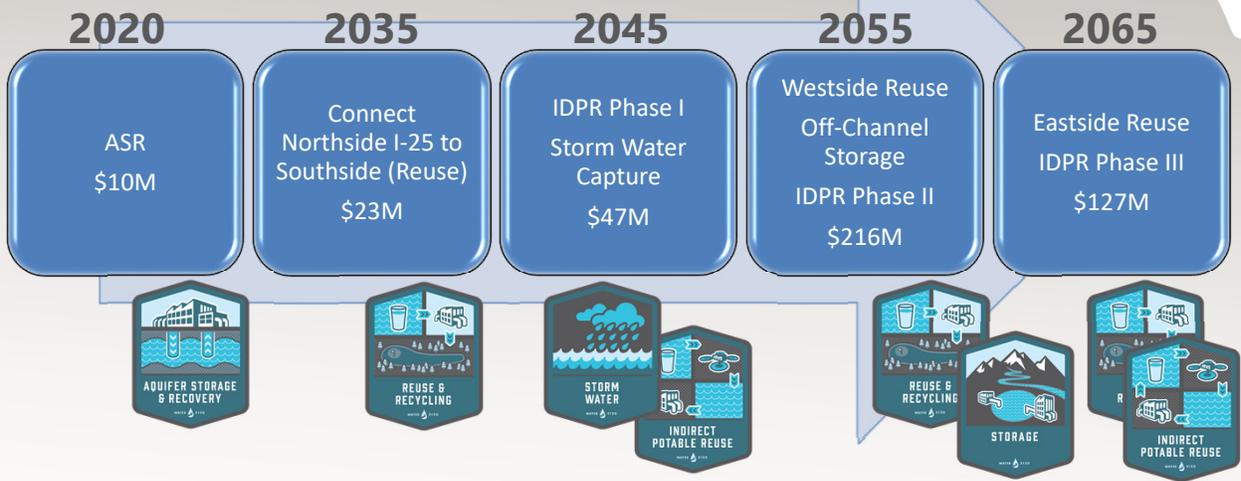
Available Return Flows



Example Results – Do Not Quote or Cite

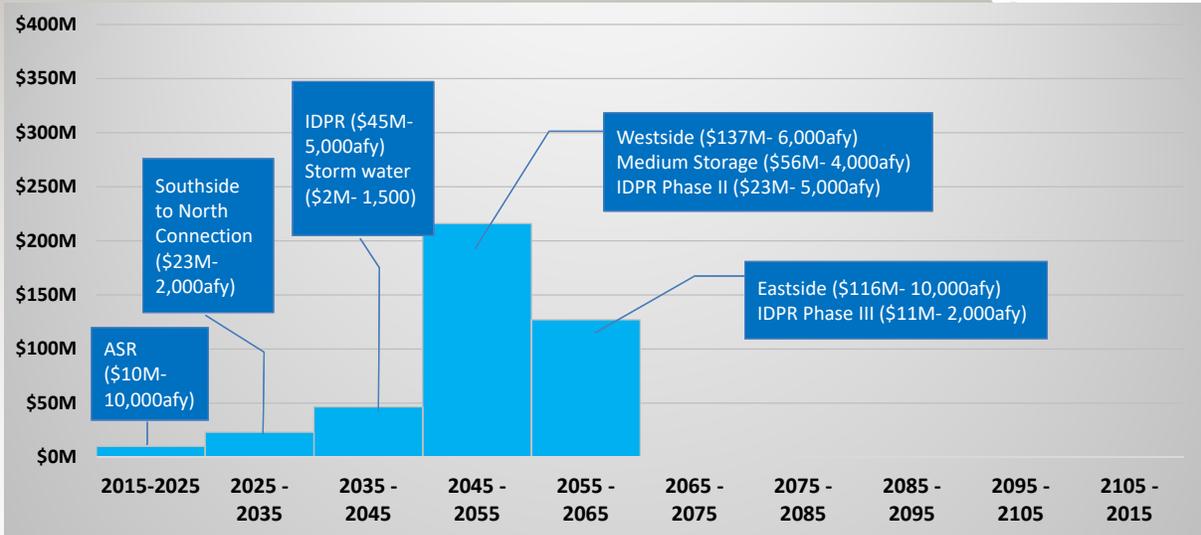
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Projected Timeline of Projects and Estimated Costs



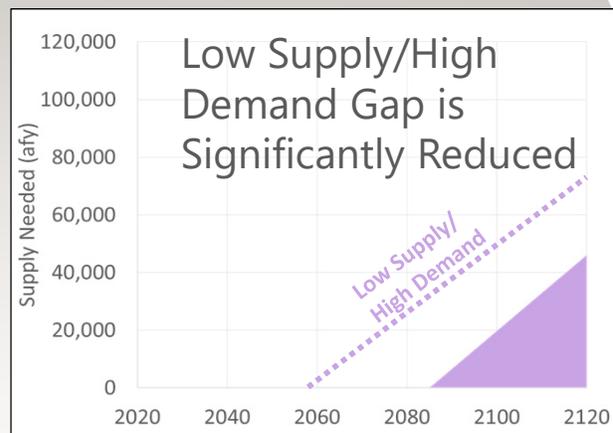
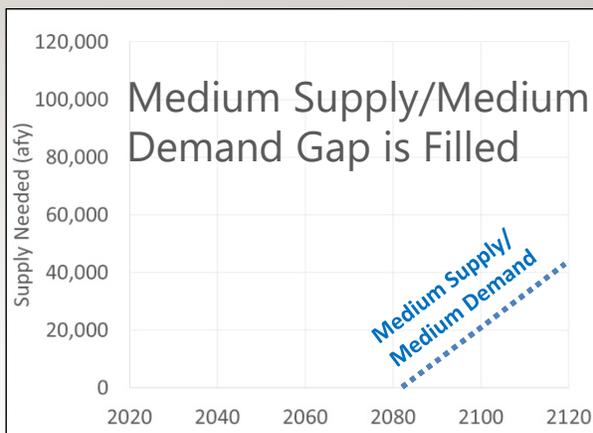
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Economic Cost Analysis Results



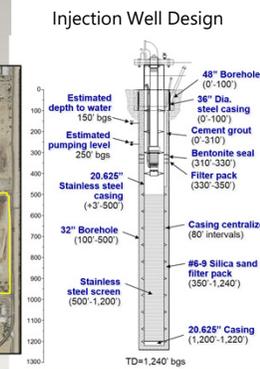
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Supply Gap is Filled by Portfolio 1



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ASR is Being Implemented



- Bear Canyon is operational, using North I-25 non-potable water
- Demonstration project for Large-scale ASR

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ASR - Infiltration/injection of reclaimed wastewater

Bosque and Tijeras

- Captures wastewater that would otherwise not be used
- Optimizes use of water rights
- Saves groundwater for future generations



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- Capture from AMAFCA Channel or modification of existing retention basins for infiltration
 - Up to 2,000 AFY captured

Stormwater Capture

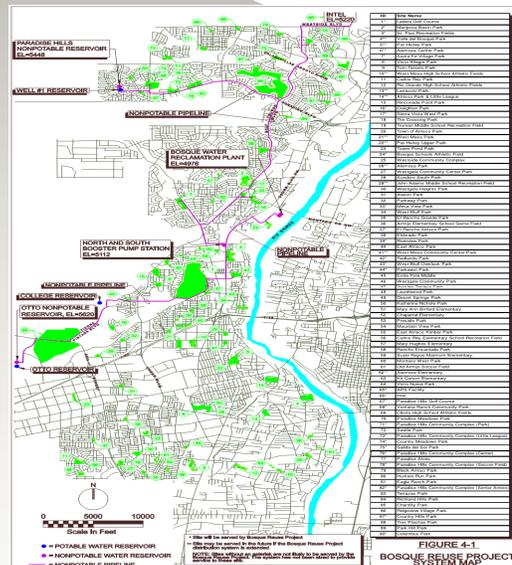
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Water 2120 Westside Reuse Project

- Bosque Reuse Plant and Project **6,000 AFY**



Bosque Water Reuse Plant Site
(North of Bosque School)



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Bosque Water Reuse Plant Conceptual Layouts



View Looking to the Northeast



View Looking to the Southwest

Water 2120 Eastside Reuse Project

- Tijeras Reuse and ASR Project
10,000 AFY



Tijeras Reuse Plant Site (KAFB)

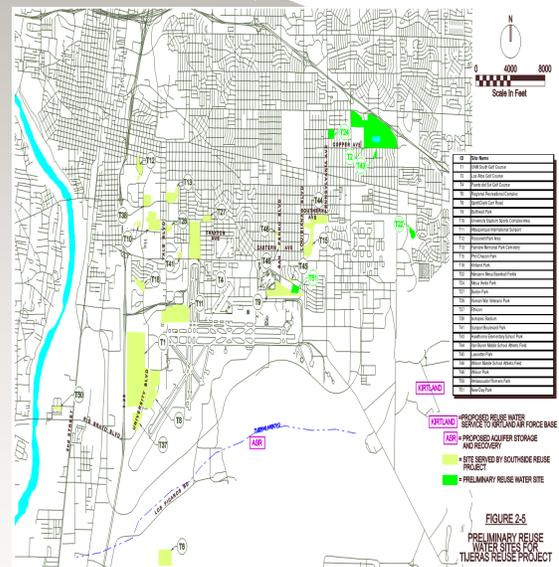


FIGURE 2-5
PRELIMINARY REUSE
WATER SITES FOR
TIJERAS REUSE PROJECT

Direct/Indirect Potable Reuse

- Excess Return Flows used for Reuse and Drinking Water
- Construct new Advanced Water Treatment Facilities – SWRP or Satellite Facilities



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Storage

Increased storage space

- Abiquiu Reservoir
Increase 35,000 AF



Source: USACE (<http://www.spo.usace.army.mil/Missions/Civil-Works/Recreation/Abiquiu-Lake/>)

- Elephant Butte Reservoir
50,000 AF for 40-years



Source: <http://www.sierracountynewmexico.info/wp-content/uploads/2012/05/Elephant-Butte-panoramic.png>

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