

# **Technical Customer Advisory Committee**

# **AGENDA**

## **Members**

Melissa Armijo Andrew Bernard Janie Chermak Mike Hightower Amy Miller Ege Richardson

Ron Schwarzwalder Scott Verhines

Dave Hill

Thursday, September 6, 2018		4:00 PM	ABCGC – 7th Floor Conference Room 7096
1.	Call to Order		4:00-4:05
2.	Approval of Agenda		4:00-4:05
3.	Approval of August 16, 2018 Action Summary		4:00-4:05
4.	Water 2120 Status Report		4:05-5:00
5.	Presentation on Asset Management Program		5:00-5:45
6.	Public Comment		5:45-5:50
7.	Adjournment		5:50

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**

August 16, 2018

Members Present:

Melissa Armijo

Andrew Bernard

Janie Chermak

Mike Hightower

Dave Hill

**Amy Miller** 

Ege Richardson

Ron Schwarzwalder

# Water Authority Staff Present:

Frank Roth, Senior Policy Manager Mark Kelly, Compliance Division Manager Elizabeth Anderson, Water Quality Program Manager

## Item 1 - Call to Order - Note presence of quorum

The meeting was called to order at 4:02 pm by Chair Ege Richardson.

Members Excused:

**Scott Verhines** 

## Item 2 – Approval of Agenda

Amy Miller made a motion to approve the agenda. Janie Chermak seconded the motion. The motion passed on a 7-0 vote.

For: 7 Bernard, Chermak, Hill, Miller, Hightower, Richardson, Schwarzwalder

Against: 0

Excused: 2 Armijo, Verhines

Melissa Armijo entered the meeting at this time.

## Item 3 – Approval of June 7, 2018 Action Summary

Dave Hill made a motion to approve the action summary. Janie Chermak seconded the motion. The motion passed on an 8-0 vote.

For: 8 Armijo, Bernard, Chermak, Hill, Miller, Hightower, Richardson, Schwarzwalder

Against: 0

Excused: 1 Verhines

# Item 4 – Presentation on Customer Opinion Survey Results

Frank Roth provided a presentation on the 2018 Customer Opinion Survey focusing on reliability and water quality related questions. He provided both current and historical results on key questions.

## Item 5 – Presentation and Discussion of Water Quality Report

Elizabeth Anderson provided background information on drinking water quality and the annual water quality report. The information presented will be used for the FY19 Customer Conversations meetings. TCAC members provided input on a proposed activity centered around exploring customers' main concerns about their water quality. After reviewing the 2017 Water Quality Report, TCAC members participated in a second proposed activity that utilized the feedback capture grid technique. Staff captured committee input on what they like about the report, what they do no like, what else they would like to know about water quality, and ideas they may have to improve the water quality report. TCAC members were asked to attend one of the four Customer Conversations meetings planned for October and November.

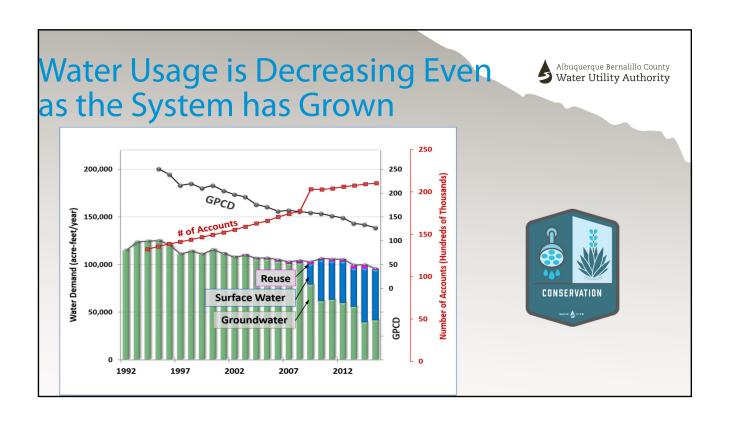
## Item 6 - Public Comment

There was no public comment.

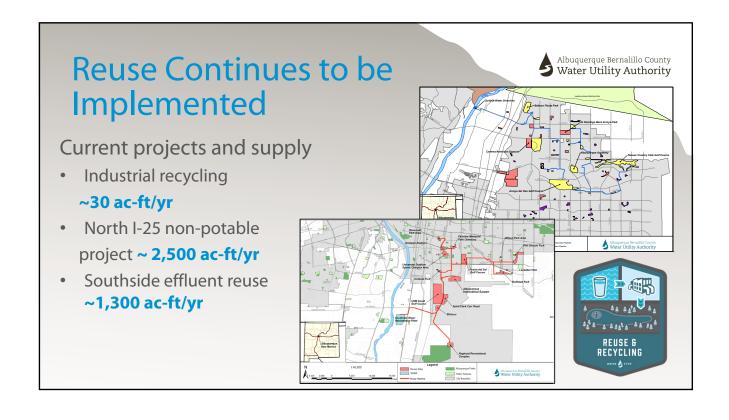
# Item 7 – Adjournment

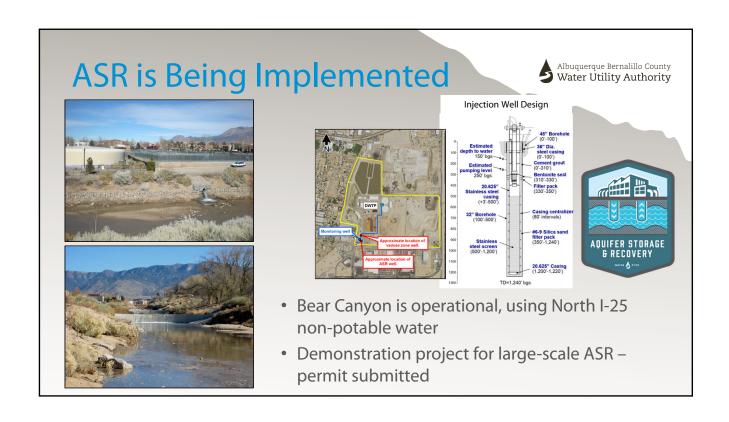
The meeting concluded at 5:55 pm.

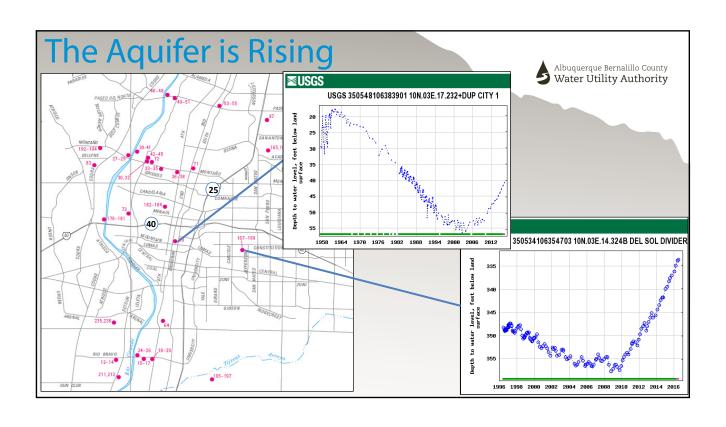


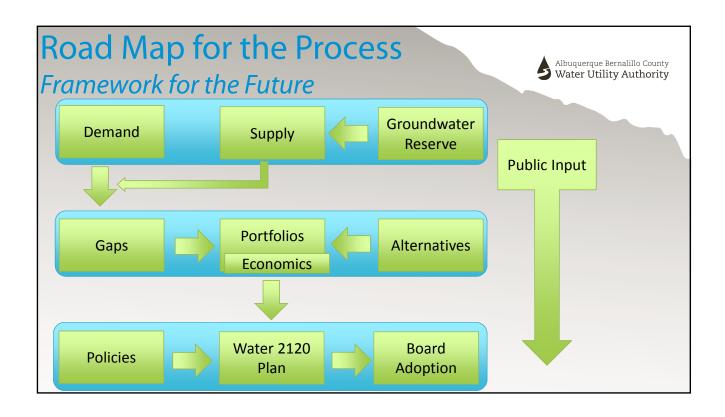


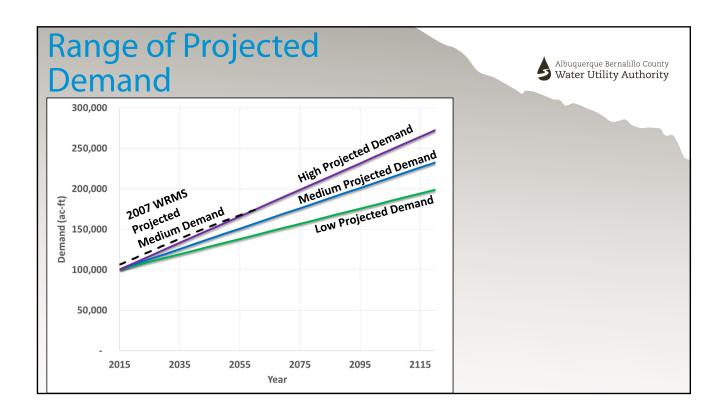
# Drinking Water Project Implemented Multiple Benefits Co-locate wells near transmission pipelines for ASR New infrastructure can move supply throughout the system Reduced need for arsenic treatment





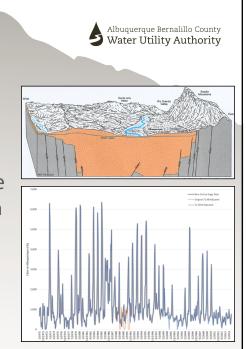


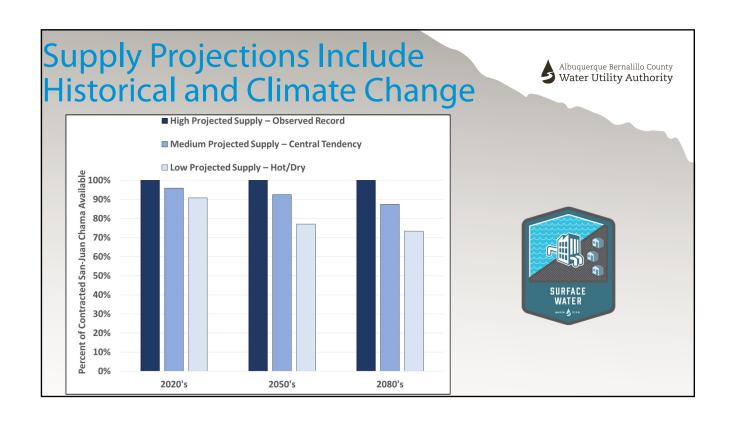


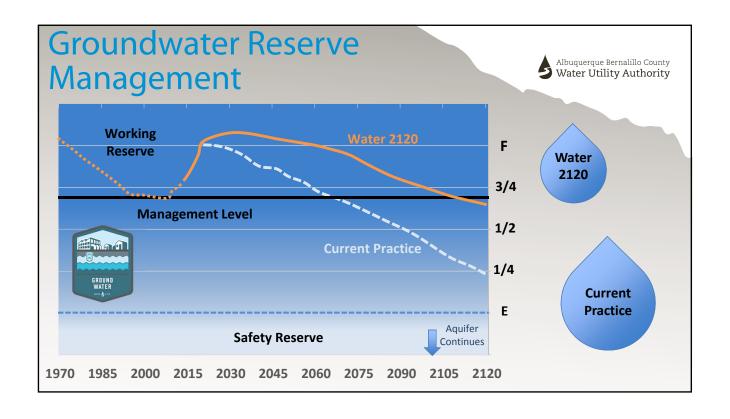


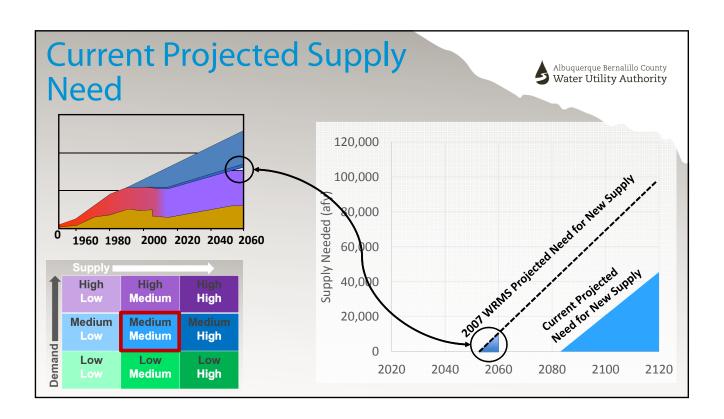
# New Information on Supply

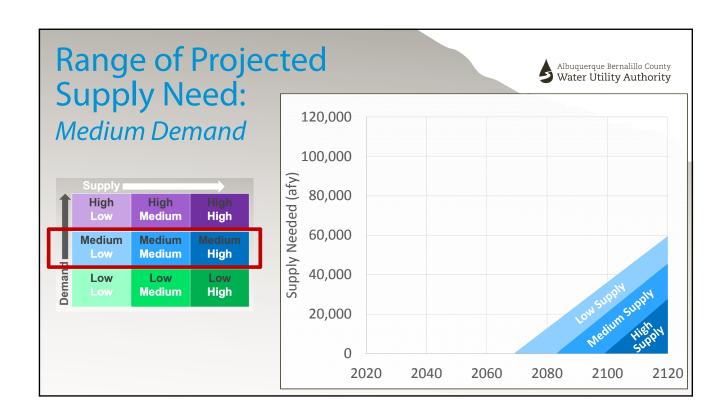
- Groundwater levels are known with relatively high certainty
- Surface water we have developed time series of flow for low, medium, and high surface water supply – highly variable
- We considered the observed record, as well as potential climate variability







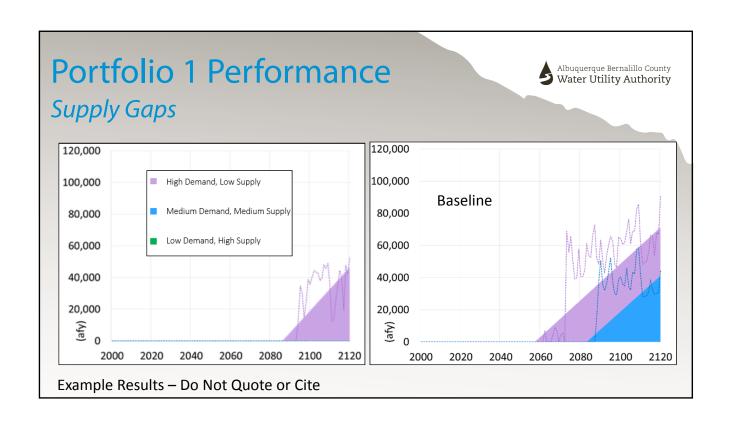


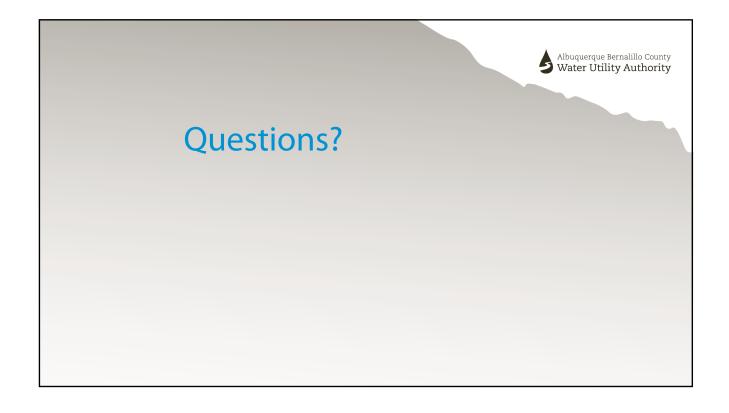


# Meeting the Demand Portfolio 1

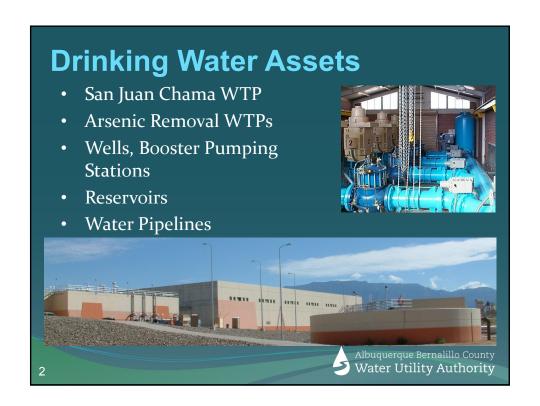


- Existing supplies (groundwater and surface water)
- Conservation 110 GPCD in 20 years
- Reuse includes ASR and/or new storage
- Connect North I-25 Non-potable to Southside Reuse
- Storm water capture
- Indirect potable reuse
- Watershed management





# The Water Authority's Asset Management Program Albuquerque Bernalillo County Water Utility Authority



# **Wastewater Assets**

- Sewage Collection Pipelines
- Sewage Lift and Vacuum Stations
- Southside Water Reclamation Plant
- Soil Amendment Facility



# **Non-Potable Water Assets**

- Northeast Non-Potable Water System
- Southeast Non-Potable Water System

# **Compliance Division Assets**

- Analytical Laboratory at the SWRP
- Process Laboratory at the SJCWTP



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# **Asset Management**

# **Definition:**

An integrated set of processes to minimize the life-cycle costs of infrastructure assets, while maintaining acceptable levels of customer service and risk.

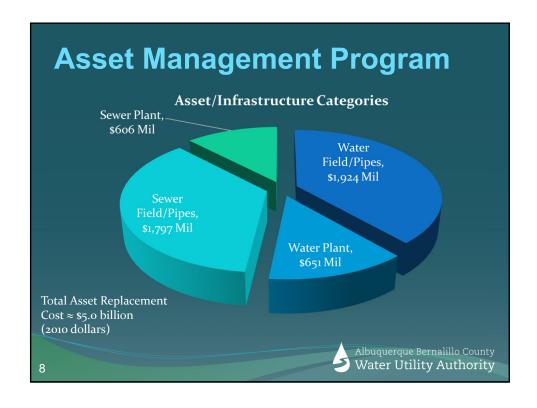
<u>Life-Cycle Costs</u> include all costs associated with an asset from planning and design, through construction, operation and maintenance, rehabs, and eventually decommissioning.

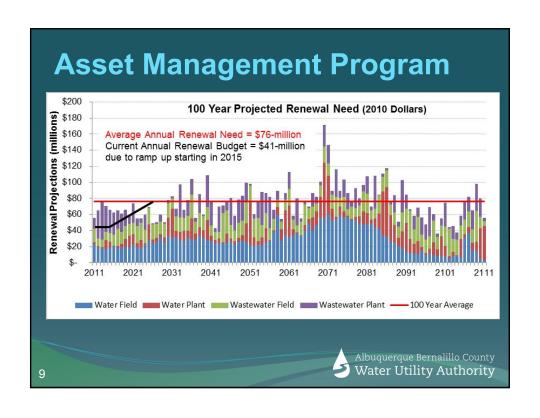
<u>Risk</u> = Probability of Failure multiplied by Consequence of Failure

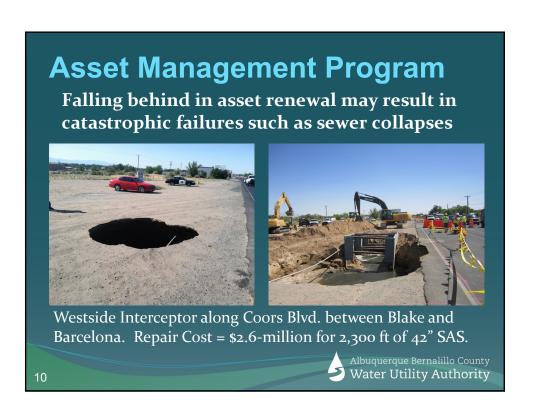


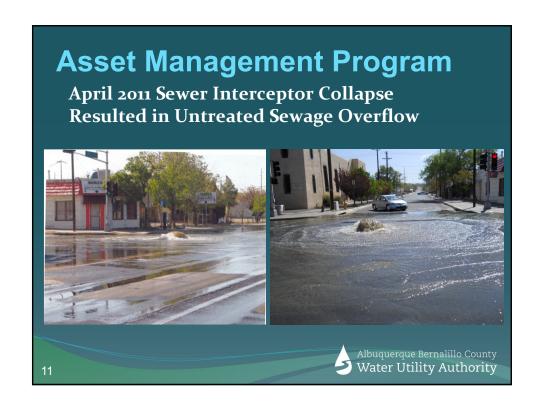
# Asset Management Example of Life Cycle Cost Analysis: Power Cost Construction Cost Total Cost Pipeline Diameter (inches) Albuquerque Bernalillo County Water Utility Authority

# **Asset Management Program 2011 Asset Management Plan** ASSET • Evaluated over 200,000 assets MANAGEMENT • Scheduled the asset renewal **PLAN** requirements largely based on their age and anticipated useful life plus through individual asset condition assessments • Highest "risk" assets given priority for renewal • Risk = Probability of Failure X Consequence of Failure Albuquerque Bernalillo County Water Utility Authority

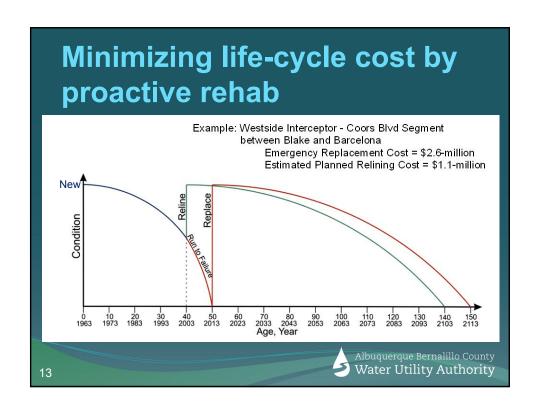


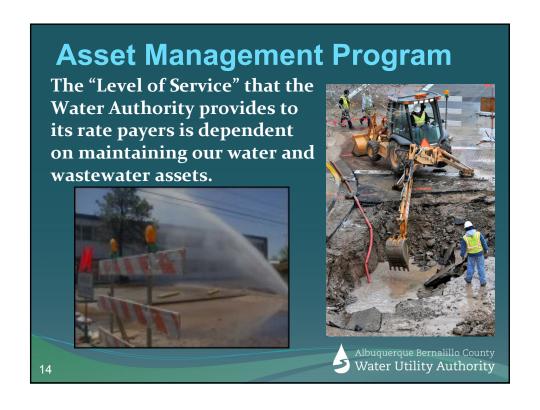








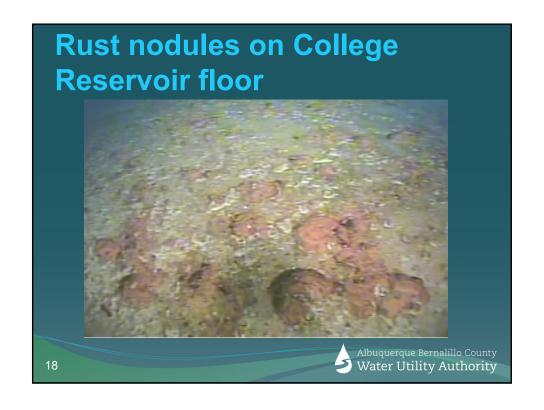


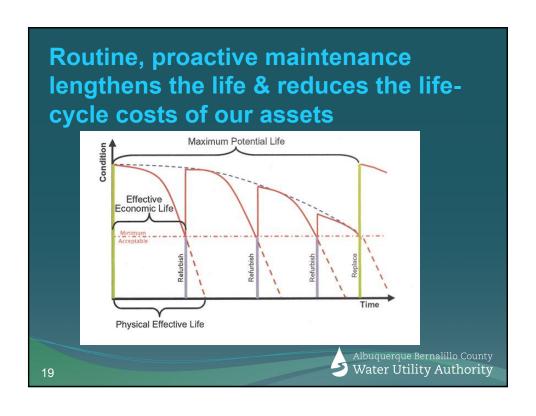


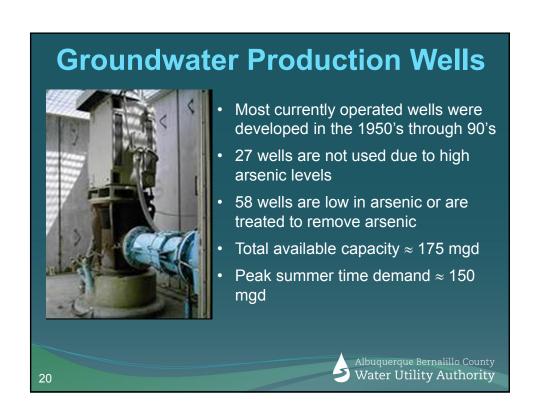


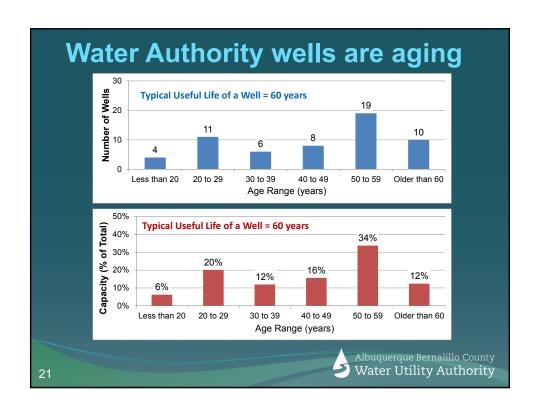


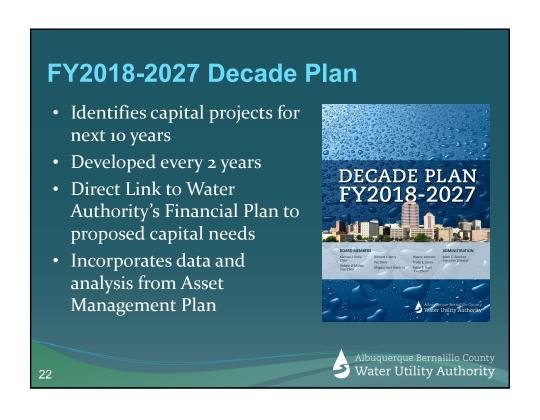


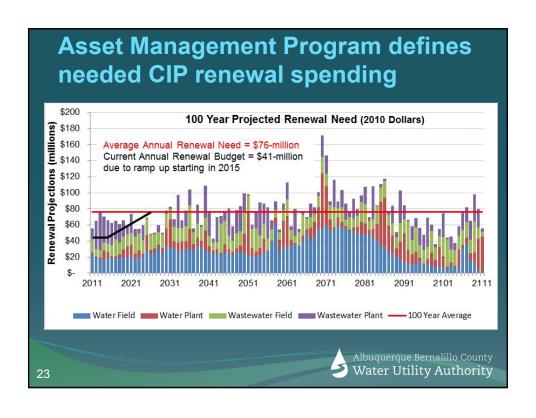


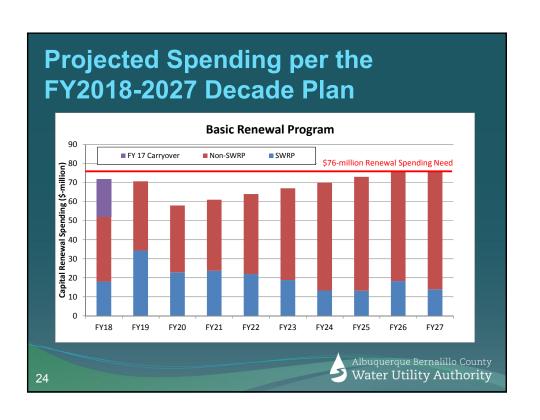












# **Update of the 2011 Utility Wide Asset Management Plan**

- Incorporate data from 10-year specific category asset management plans:
  - Southside Water Reclamation Plant
  - Large Diameter Sewer Interceptors
  - Large Diameter Water Transmission Lines
  - Small Diameter Water and Sewer Lines
  - Lift Stations and Vacuum Stations
  - Wells
  - Reservoirs
  - Vehicles and Mobile Equipment
- Add all "capital assets" to Maximo asset registry



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# **Update of the 2011 Utility Wide Asset Management Plan**

- Re-evaluate risk scoring using triple bottom line parameters
- Re-estimate current asset renewal backlog
- Revise 100-year forecast of annual renewal spending needs in terms of current dollars

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