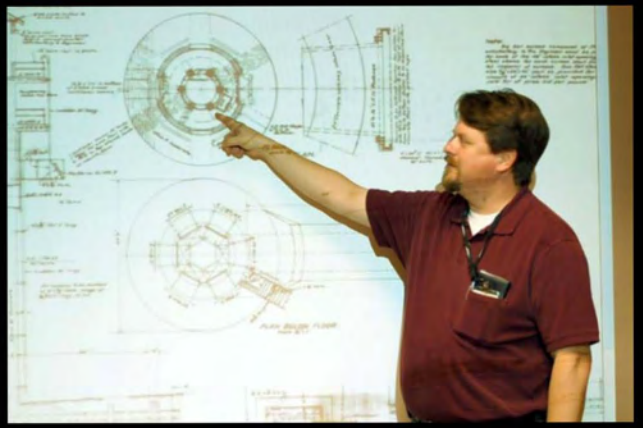
Oklahoma City

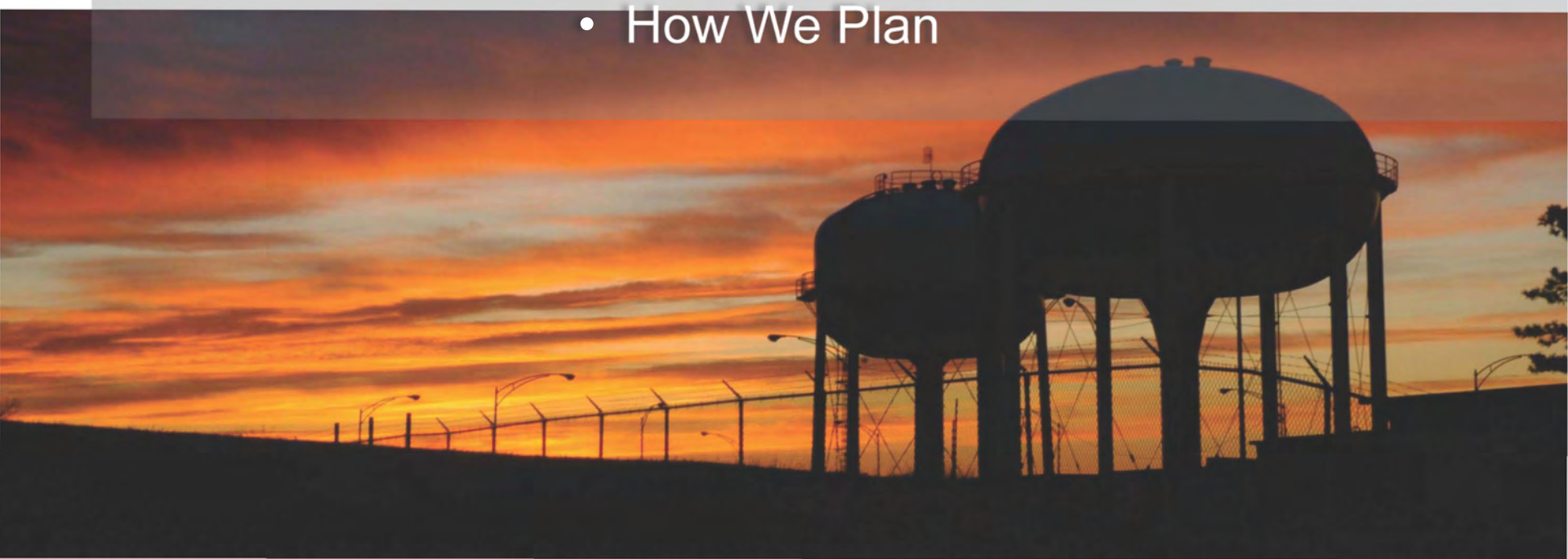
Common Challenges Common Goals

Marsha Slaughter
Oklahoma City Utilities



Common Goals, Common Challenges

- Water Utilities are Alike
- Oklahoma City Utilities
- How We Plan



Common Challenges

- High-volume, low-price commodity needed to sustain life
- Meeting payroll
- Meeting regulations

Common Goals

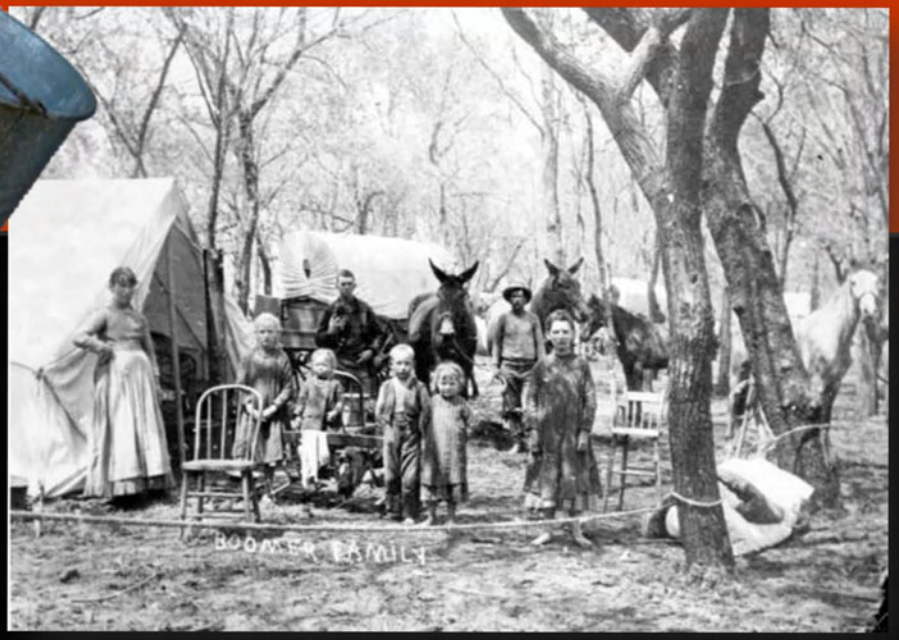
- Ample water supply
- Reliable delivery
- Affordable rates

Water's Economic Impact

- No water = no jobs
- Water capacity critical for future growth & business development

Oklahoma City

One Well in April 1889



Oklahoma City citizens in 1889

Oklahoma City 121 years later

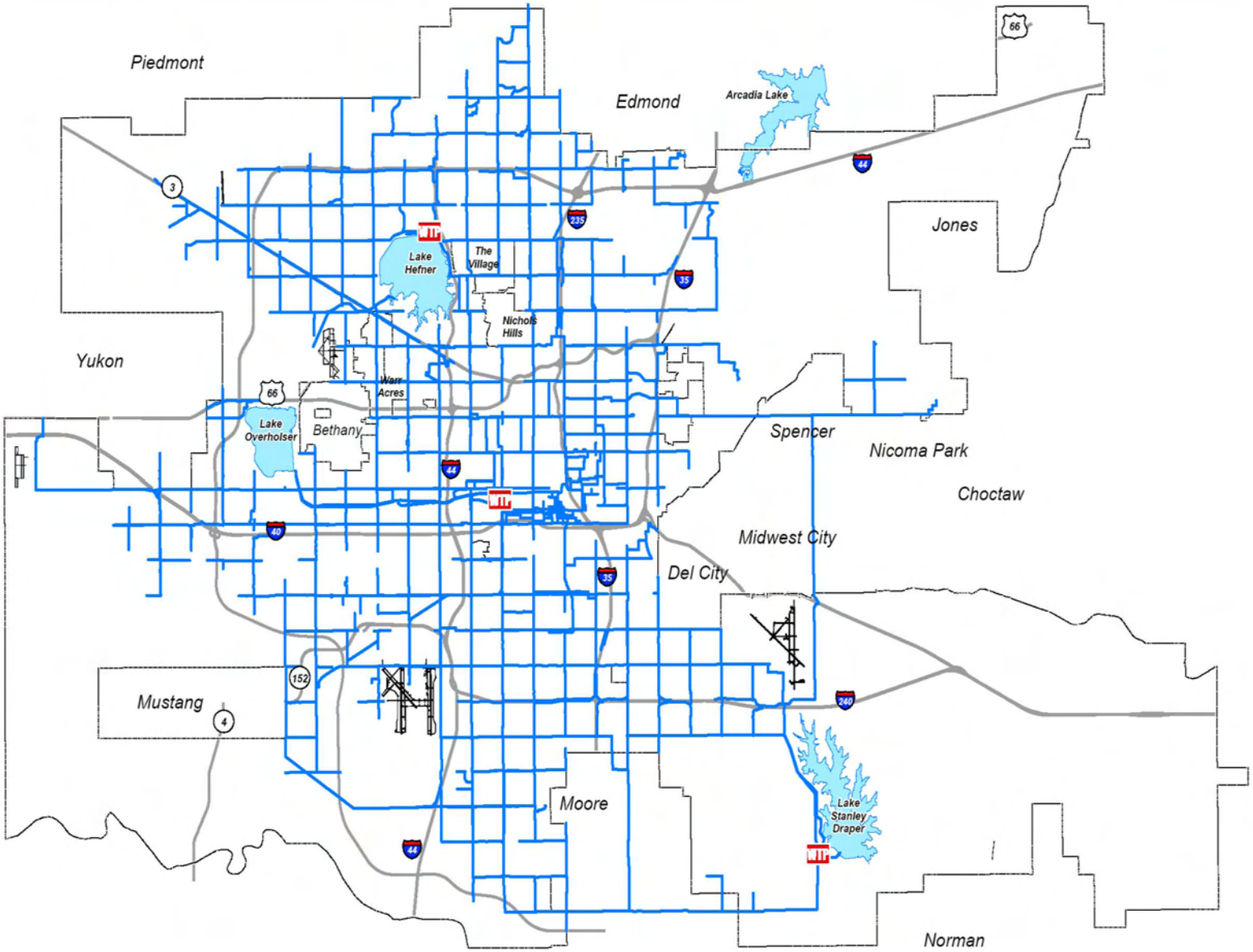
- 621 square miles
- About 560,000 citizens
- More than 1.2 million in metro area

Central Oklahoma Economy

- GMP more than $57.1 Billion
- 33% of the state's population

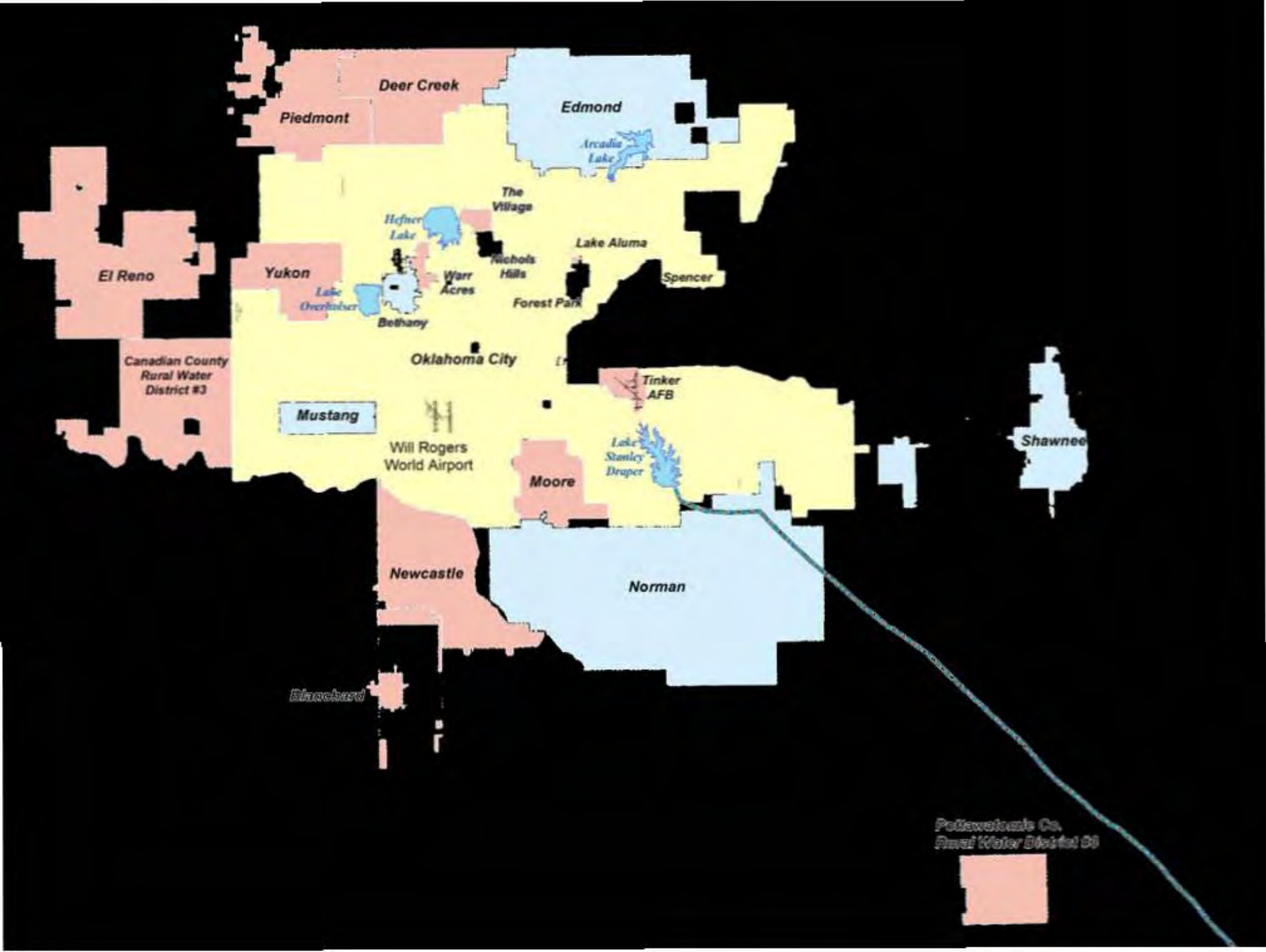
Oklahoma City Water Utilities Trust

- 5,300 miles of water & sewer pipe
- 4 water supply lakes
- 8 treatment plants


Piedmont
Edmond
Arcadia Lake
66
3
44
235
Jones
Lake Hefner
The Village
35
Nichols Hills
Yukon
Warr Acres
66
Lake Overholser
Bethany
Spencer
Nicoma Park
44
Choctaw
40
Midwest City
Del City
35
152
Mustang
4
240
Lake Stanley Draper
Moore
44
Norman

Regionalization

- Goal set in 1990
- Value in sharing expensive infrastructure


Deer Creek
Piedmont
Edmond
Arcadia Lake
The Village
Hefner Lake
Lake Aluma
Nichols Hills
El Reno
Yukon
Warr Acres
Spencer
Lake Overholser
Forest Park
Bethany
Canadian County Rural Water District #3
Oklahoma City
Tinker AFB
Mustang
Will Rogers World Airport
Lake Stanley Draper
Shawnee
Moore
Newcastle
Norman
Blanchard
Pottawatomie Co. Rural Water District #1

Planning for the Future

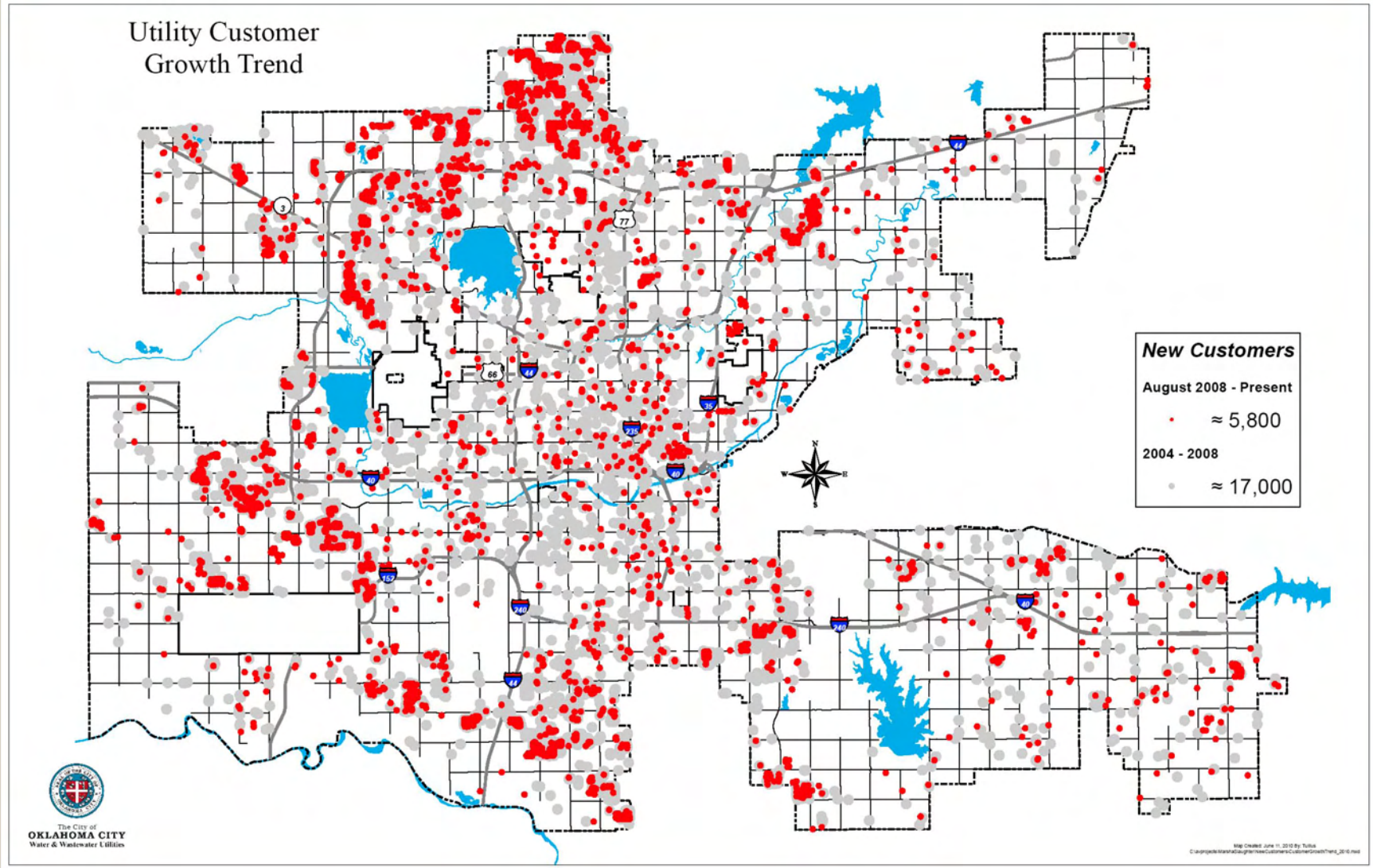
Capital Investment

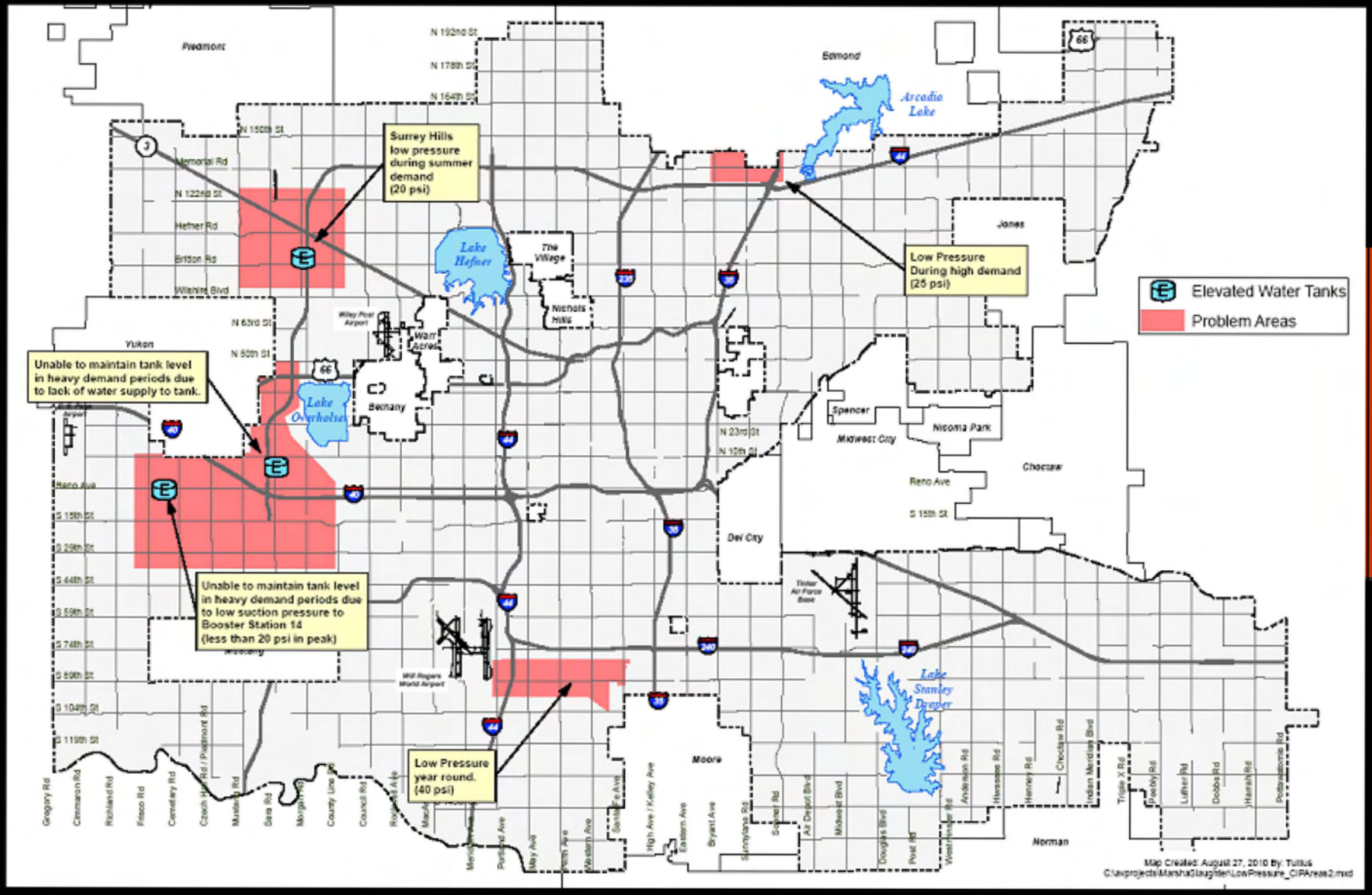
- Renewal and Replacement
- Growth and Development

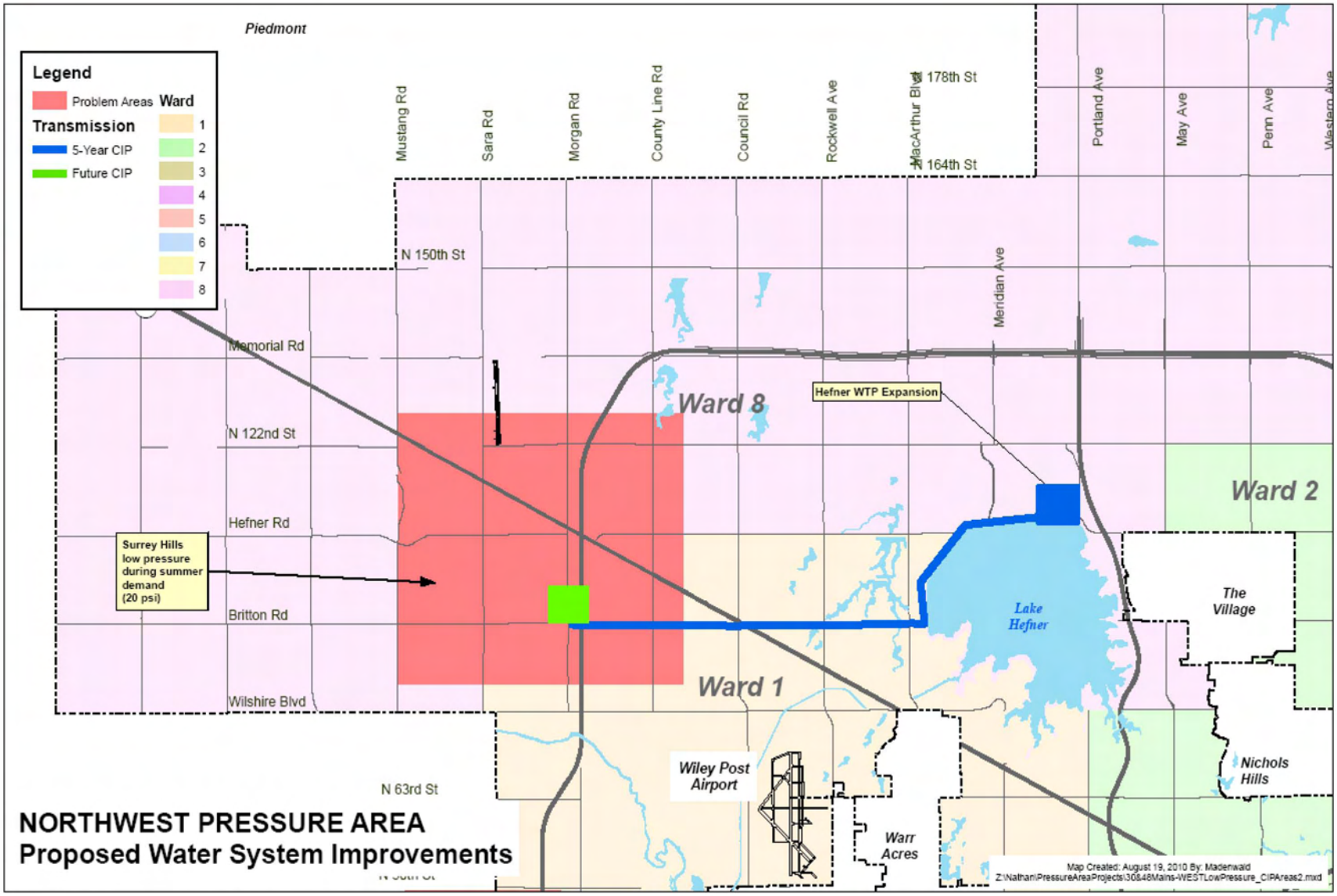
Intergenerational Planning

Capital Planning

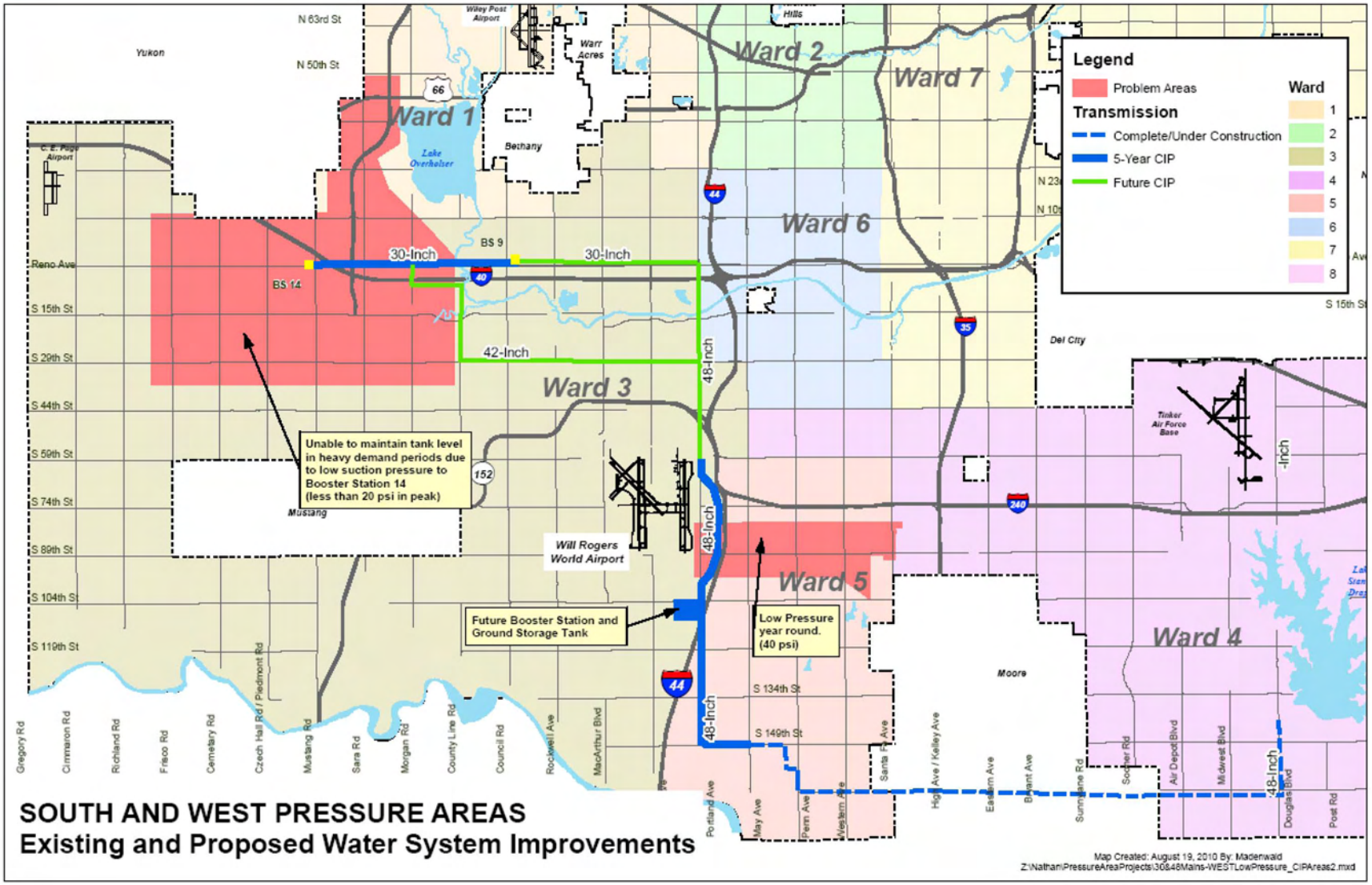
- Strategic process engineering
- 20-year capital plan


Utility Customer
Growth Trend
New Customers
August 2008 - Present
≈ 5,800
2004 - 2008
≈ 17,000
The City of
OKLAHOMA CITY
Water & Wastewater Utilities


Surrey Hills low pressure during summer demand (20 psi)
Low Pressure During high demand (25 psi)
Unable to maintain tank level in heavy demand periods due to lack of water supply to tank.
Unable to maintain tank level in heavy demand periods due to low suction pressure to Booster Station 14 (less than 20 psi in peak)
Low Pressure year round. (40 psi)
Elevated Water Tanks
Problem Areas
Arcadia Lake
Lake Hefner
Lake Overholser
Lake Stanley Draper
Edmond
Jones
Yukon
Bethany
Spencer
Midwest City
Nicoma Park
Choctaw
Del City
Moore
Norman
Piedmont
Tinker Air Force Base
Will Rogers World Airport
Map Created: August 27, 2010 By: Tullius
C:\arcprojects\MarshaSlaughter\LowPressure_CIPAreas2.mxd



NORTHWEST PRESSURE AREA
Proposed Water System Improvements



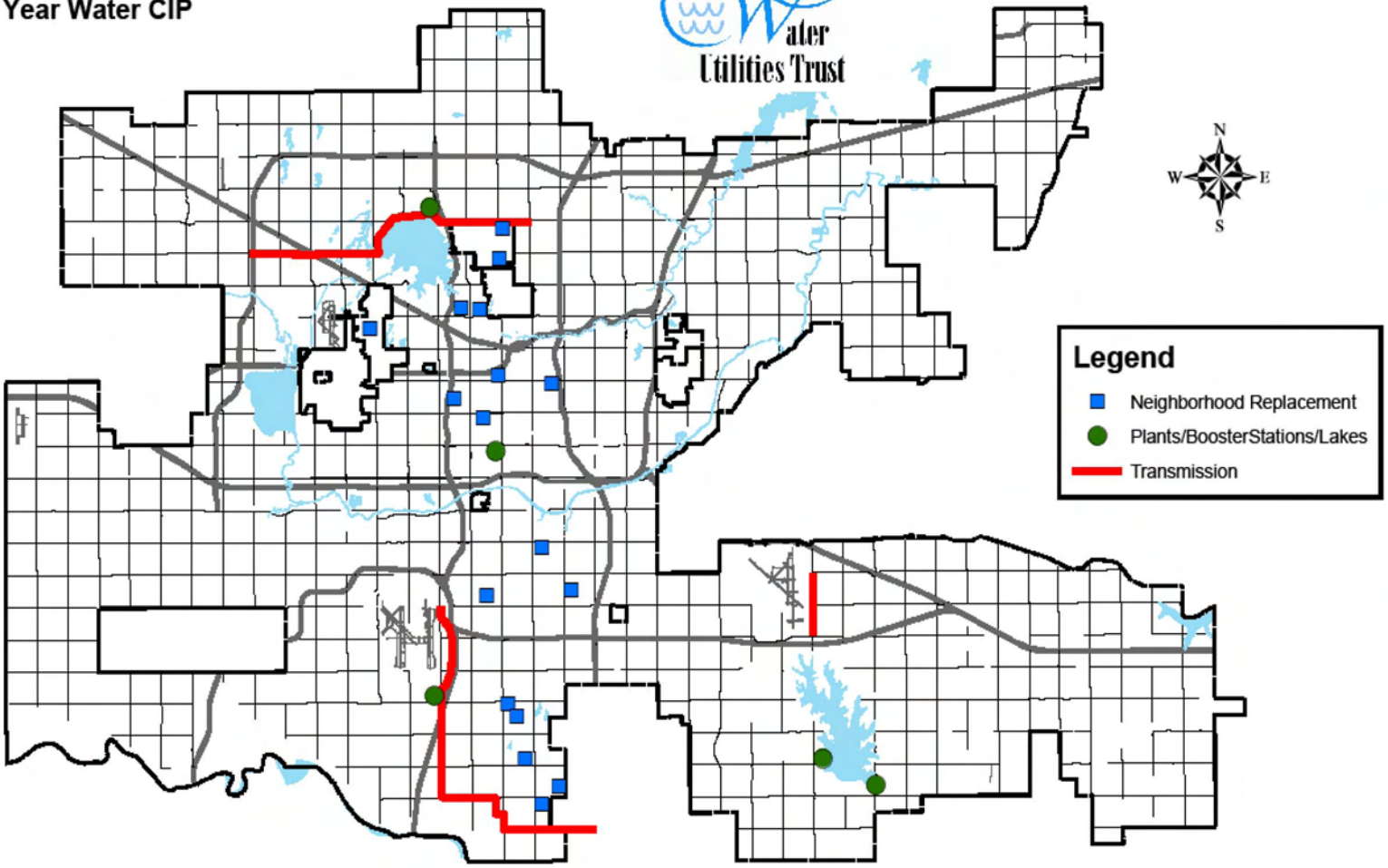
SOUTH AND WEST PRESSURE AREAS
Existing and Proposed Water System Improvements

Map Created: August 19, 2010 By: Madenwald
Z:\Nathan\PressureAreaProjects\30&48Mains-WEST\LowPressure_CIPAreas2.mxd

OCWUT

Five Year Water CIP

Oklahoma City Water Utilities Trust



Atoka Pipeline

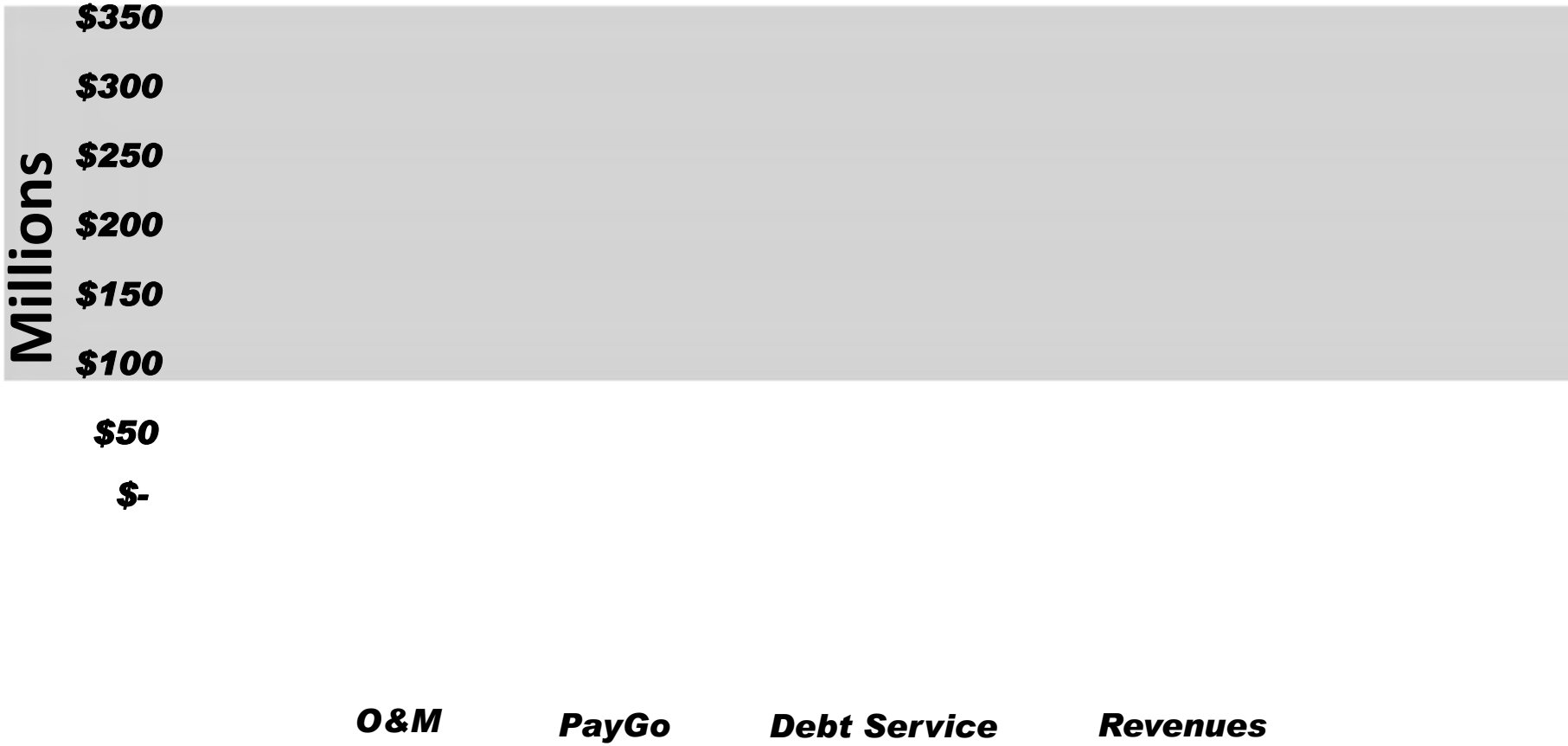
- From Atoka Lake to Draper Lake
- 100 miles long, 60-inch diameter
- Nearly 50 years old

Common Challenges

Funding the Future

- Revenue requirements forecast
- Adjust the capital plan

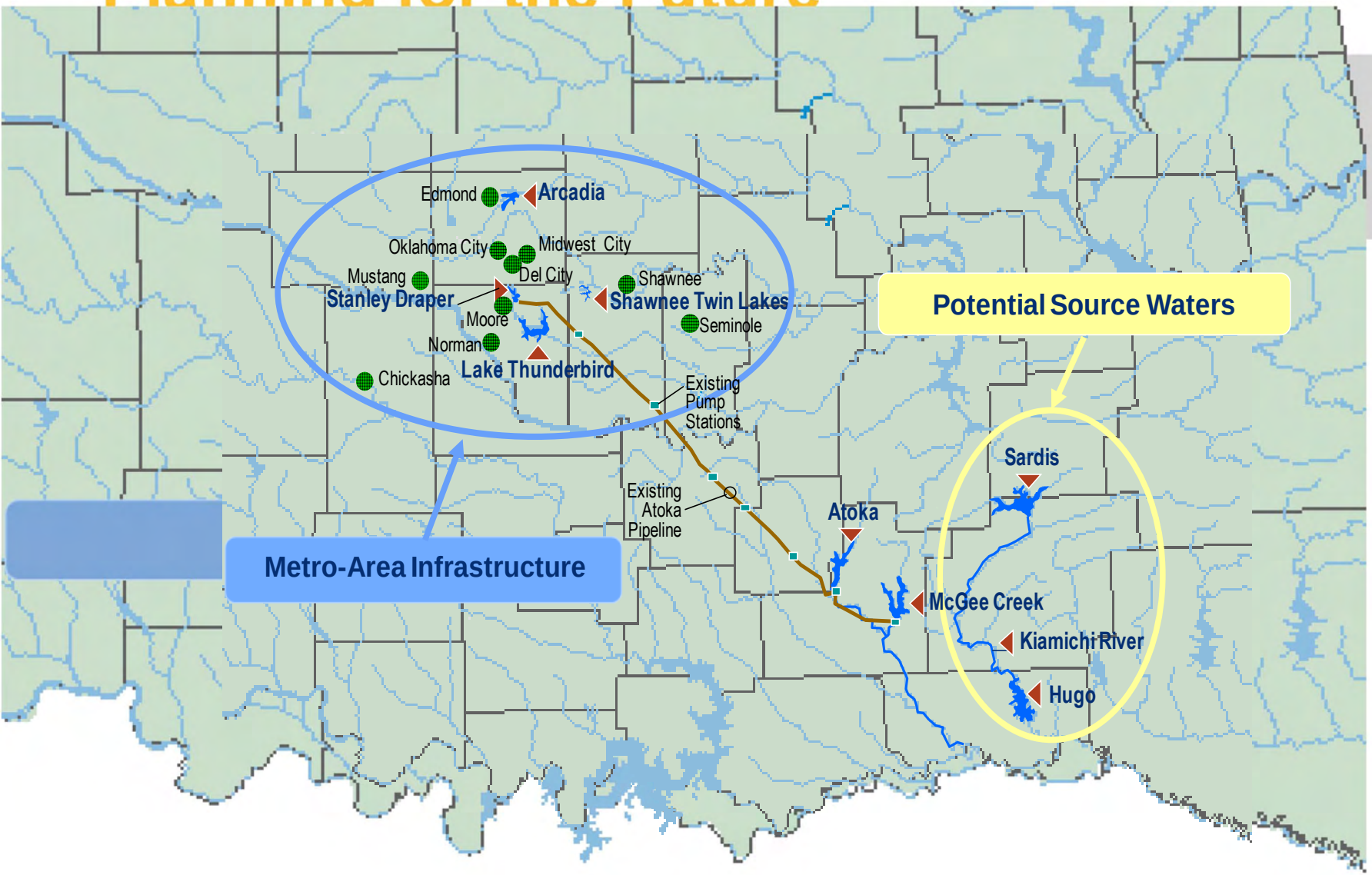
Financial Planning Output



Making the Most of Water

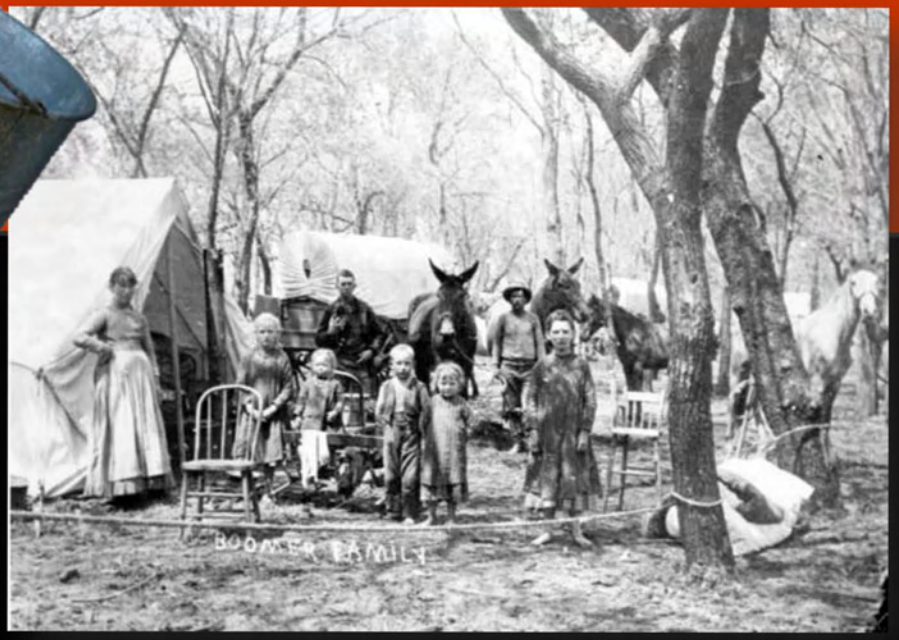
Water Reuse

Planning for the Future



Oklahoma City

One Well in April 1889



Oklahoma City citizens in 1889

Oklahoma City

Marsha Slaughter
Director, Utilities Department
The City of Oklahoma City

“Whiskey is for drinking.
Water is for fighting over.”

Mark Twain