The Integrated Pipeline Project (IPL)

Overview, Update, and Envision Award

NCTCOG – Water Resources Council Meeting
September 8, 2016

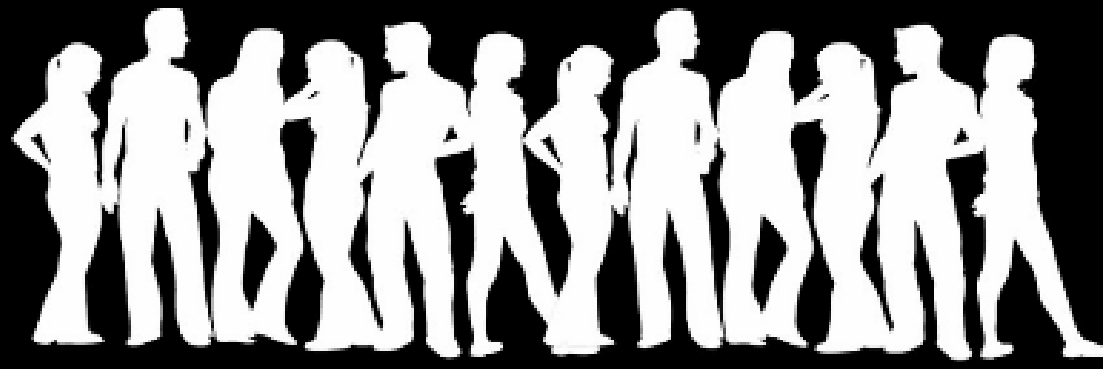
J. Zachary Huff, P.E.
Water Resources Engineering
Tarrant Regional Water District

TRWD POPULATION EXPECTED TO DOUBLE IN THE NEXT 50 YEARS

Current Population

1.8 million

2060 Population



3.6 million

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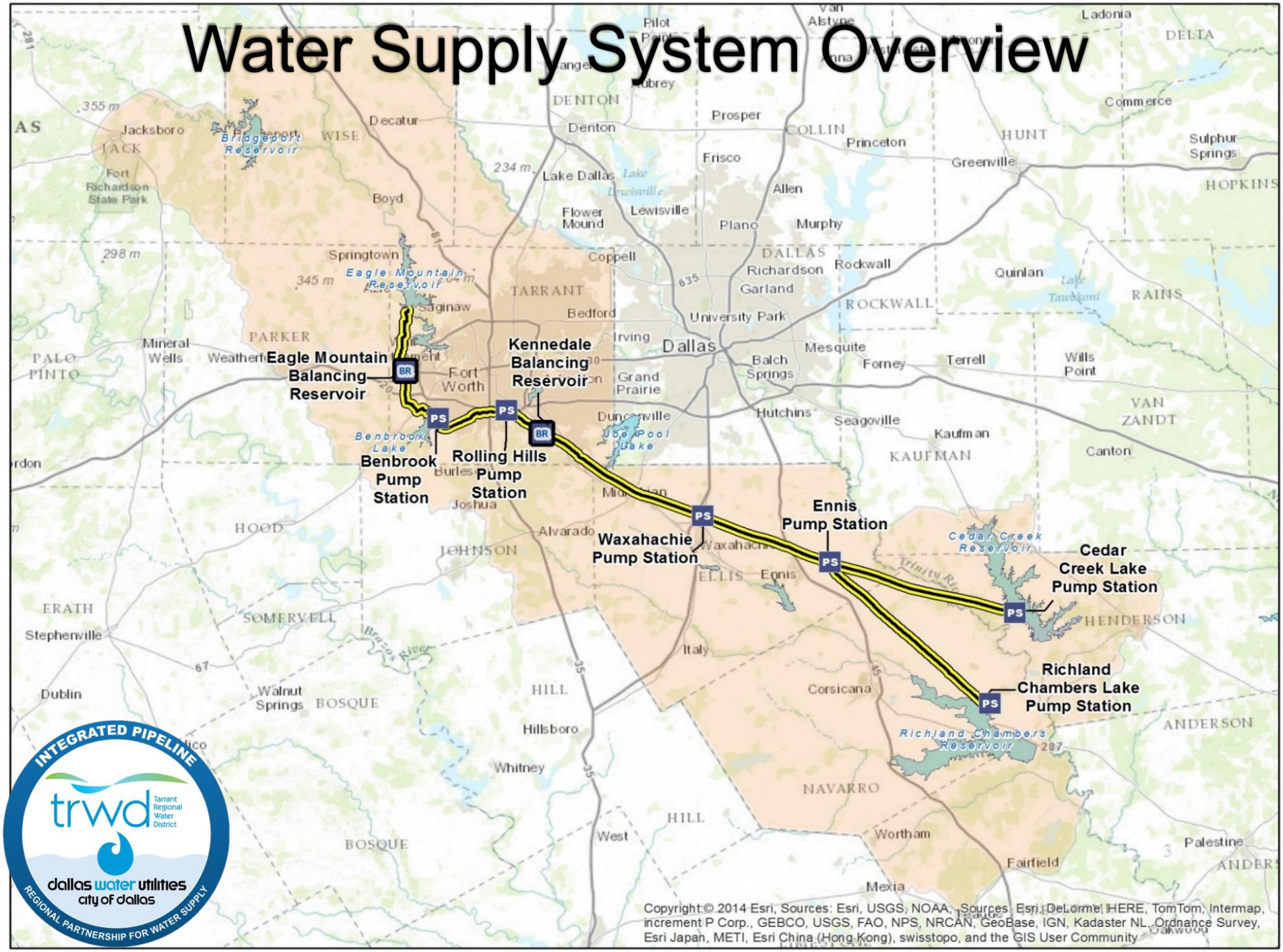
dallas water utilities
city of dallas
REGIONAL PARTNERSHIP FOR WATER SUPPLY

Water Supply System Overview



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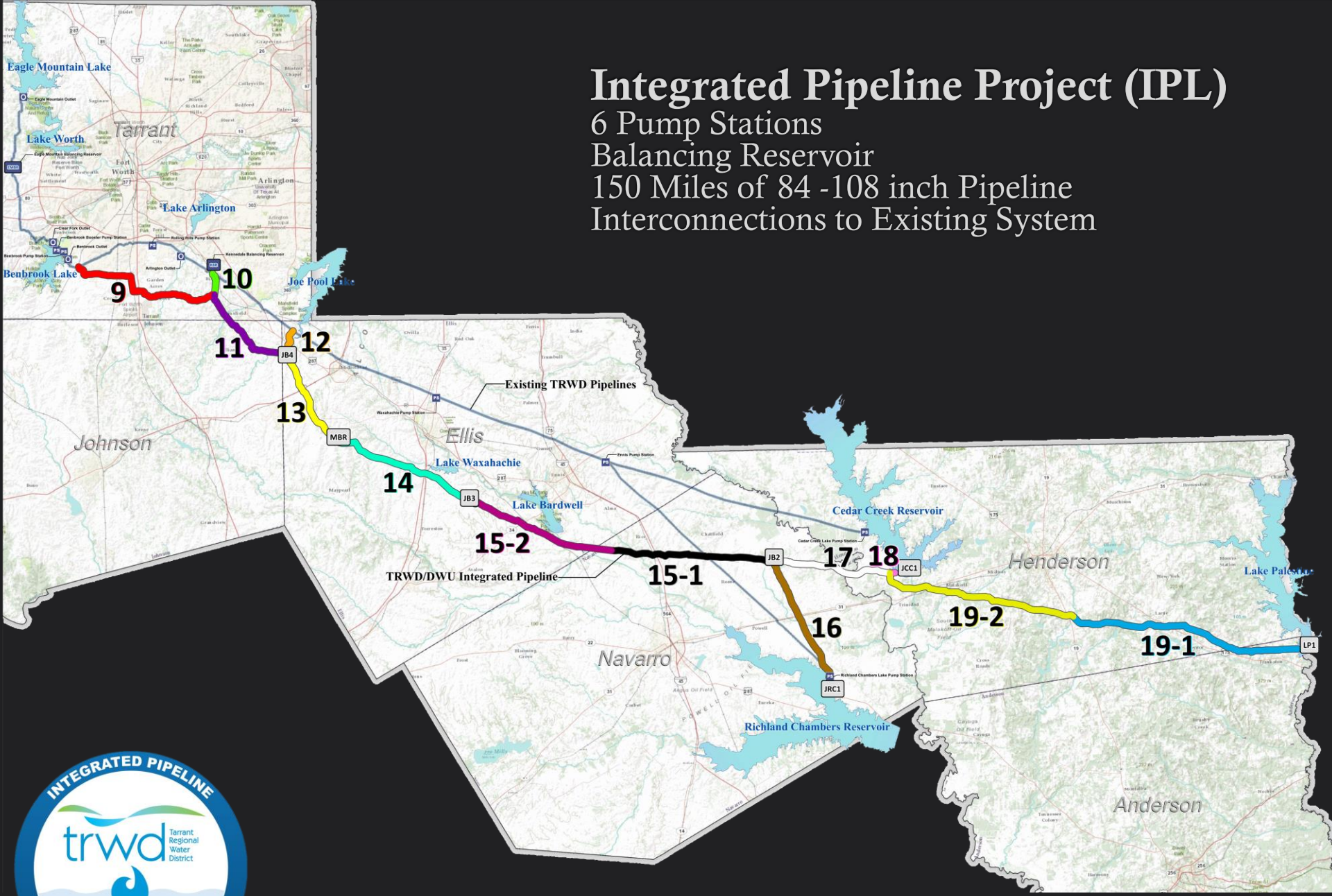
Integrated Pipeline Project (IPL)

6 Pump Stations
Balancing Reservoir
150 Miles of 84 -108 inch Pipeline
Interconnections to Existing System



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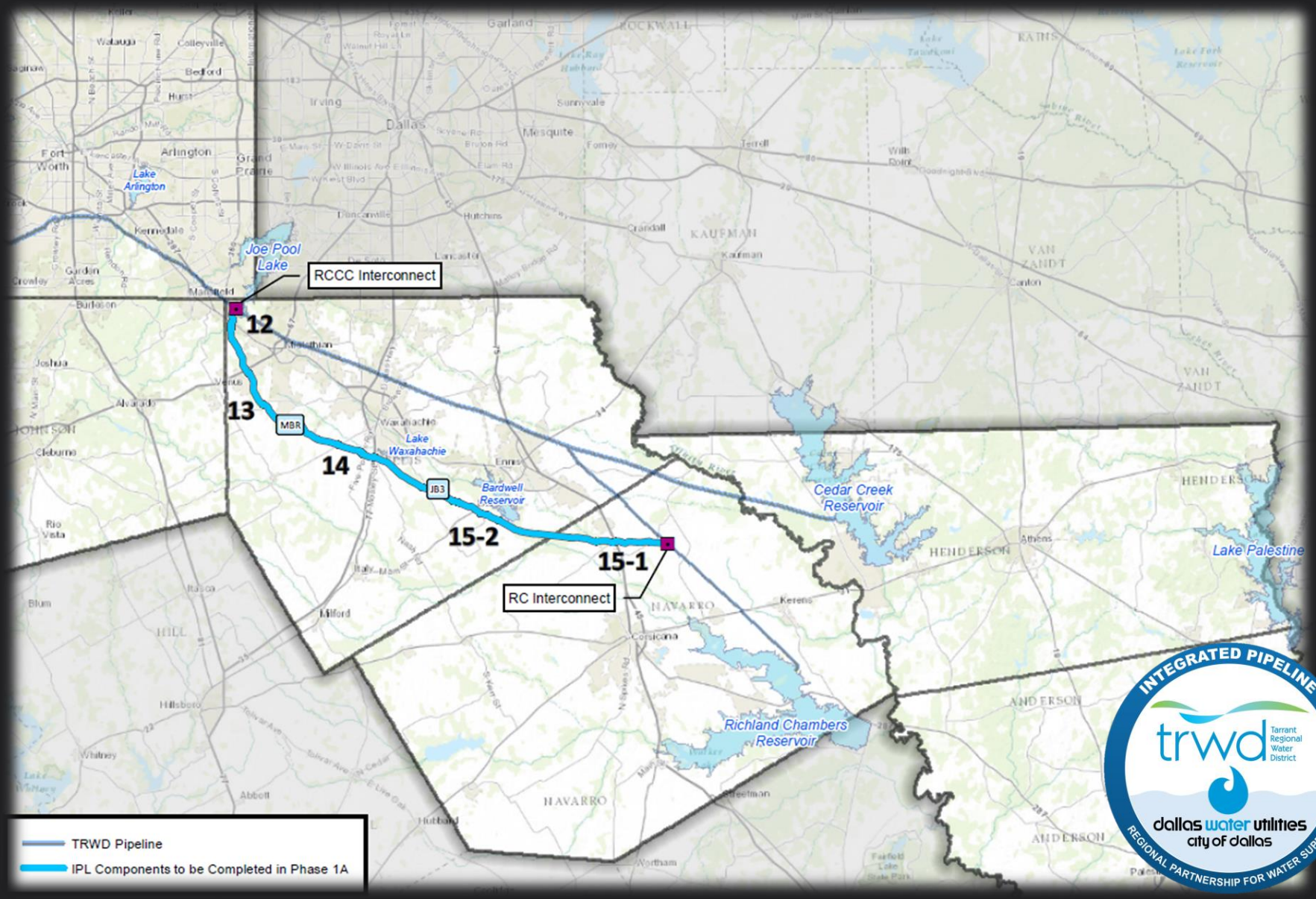
Phase 1 - 2018


RCCC Interconnect
12
13
MBR
14
JB3
15-2
15-1
RC Interconnect
Joe Pool Lake
Lake Arlington
Lake Waxahachie
Bardwell Reservoir
Cedar Creek Reservoir
Lake Palestine
Richland Chambers Reservoir
TRWD Pipeline
IPL Components to be Completed in Phase 1A
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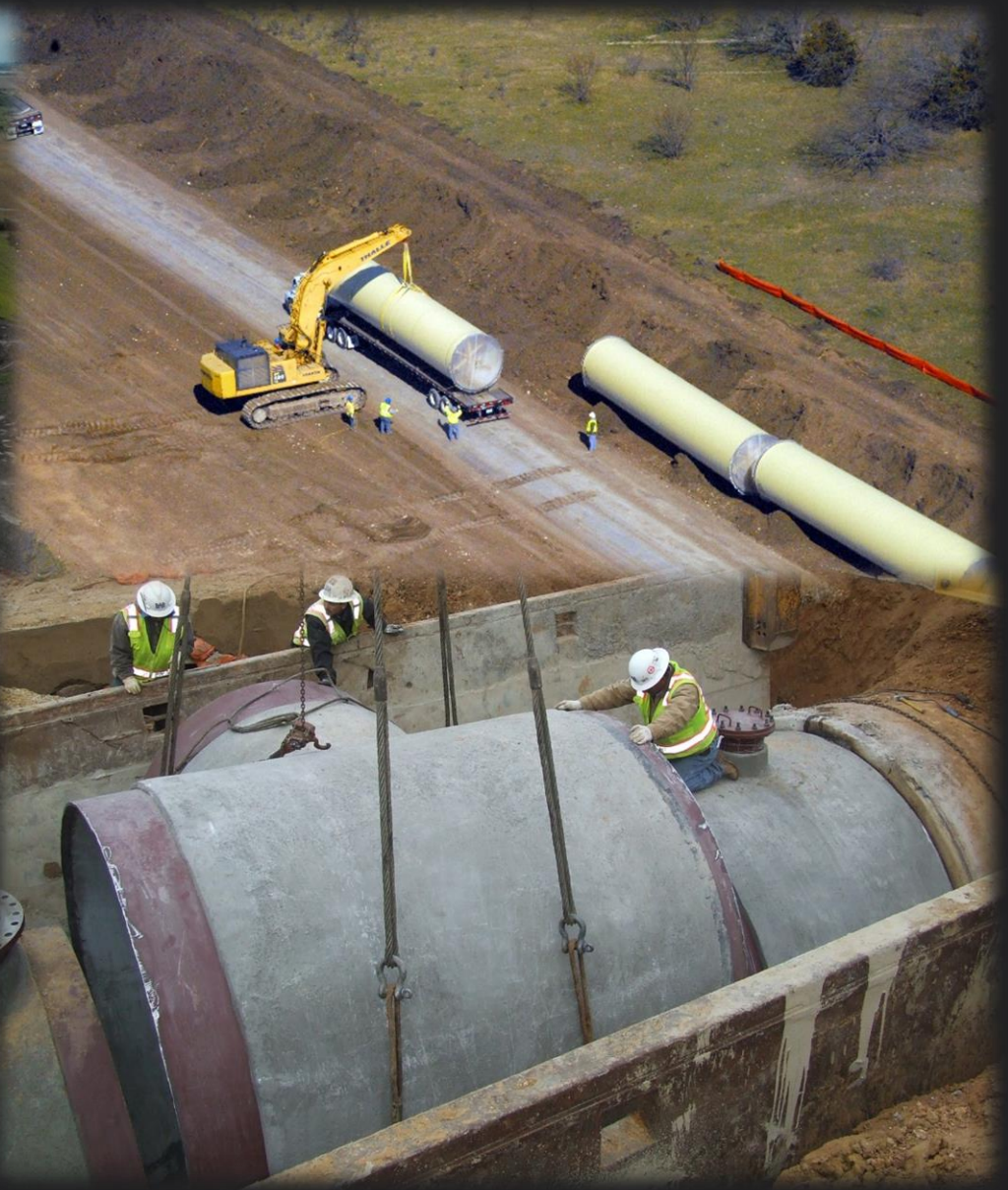
Phase 1 Under Construction



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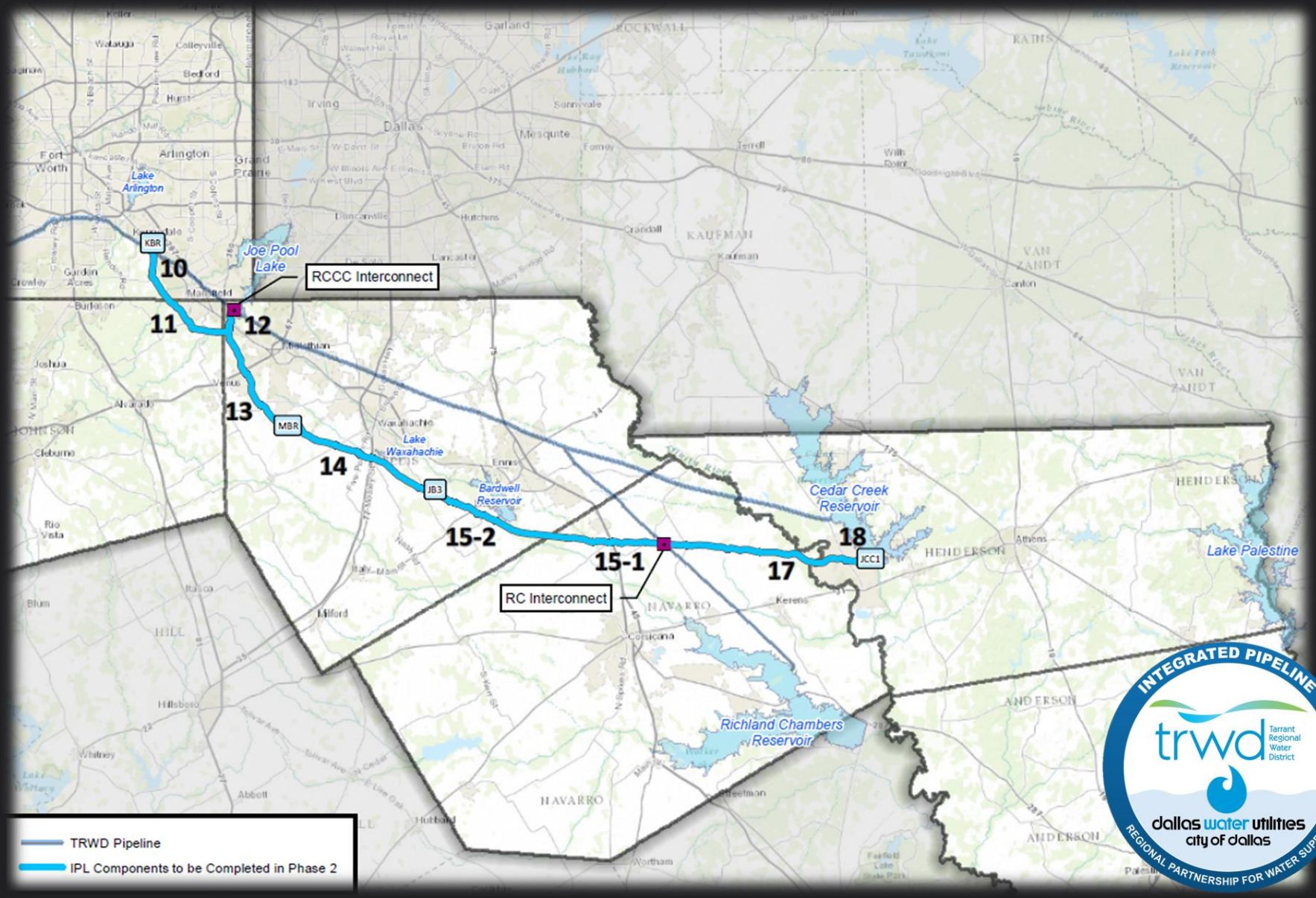
Phase 2 - 2020



KBR
10
11
12
13
MBR
14
JB3
15-2
15-1
17
18
JCC1
RCCC Interconnect
RC Interconnect
Joe Pool Lake
Lake Arlington
Lake Waxahachie
Bardwell Reservoir
Cedar Creek Reservoir
Richland Chambers Reservoir
Lake Palestine
TRWD Pipeline
IPL Components to be Completed in Phase 2
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THE ENVISION™ RATING SYSTEM

INSTITUTE FOR SUSTAINABLE INFRASTRUCTURE
ISI

ZOFNASS PROGRAM FOR SUSTAINABLE INFRASTRUCTURE
Graduate School of Design
Harvard University

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Objective framework of criteria and performance achievements for infrastructure projects

Evaluation of 5 Categories

QUALITY OF LIFE	Purpose, Community, Wellbeing
LEADERSHIP	Collaboration, Management, Planning
RESOURCE ALLOCATION	Materials, Energy, Water
NATURAL WORLD	Siting, Land & Water, Biodiversity
CLIMATE AND RISK	Emission, Resilience

Envision® Award Levels

Recognition Level	Minimum Applicable Points	Minimum in Each Category
Bronze	20%	No minimum category percentage required
Silver Award	30%	
Gold Award	40%	
Platinum Award	50%	

Thank you!

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Enriching Communities
Improving the Quality of Life