

# Joe Pool Storage Plan Additional Capacity: IPL to Bachman

Society of American Military Engineers

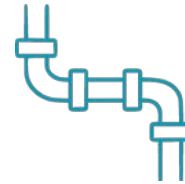
Infrastructure Forum

February 2, 2018

# Integrated Pipeline (IPL) Overview



TRWD and the City of Dallas Water Utilities (DWU) have partnered to finance, plan, design, construct and operate the IPL Project.

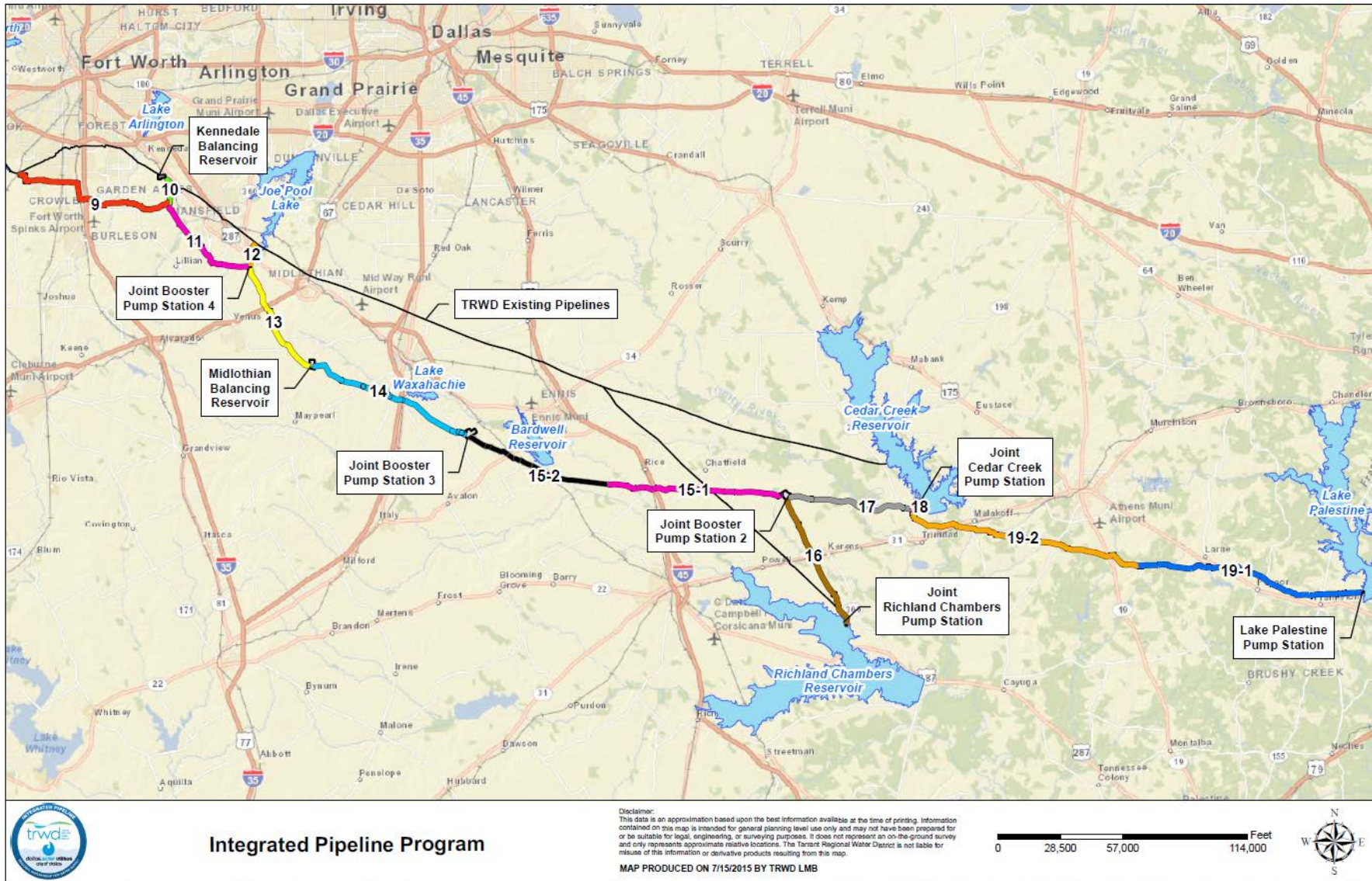


The IPL Project is an integrated water delivery transmission system connecting Lake Palestine to Lake Benbrook with connections to Cedar Creek and Richland Chambers Reservoirs



Consists of 150 miles of pipeline and multiple pump stations capable of delivering 347 million gallons per day (MGD) of raw water to North Central Texas.

# Integrated Pipeline (IPL) Project



- 350 MGD Total System Capacity –
  - 150 Dallas
  - 197 TRWD
- 149.5 miles of 108, 96, and 84 inch pipe
- Three Lake Pump Stations
- Three Booster Pump Stations
- One 450 million gallon Balancing Reservoir
- Three Redundant IPL Interconnect Facilities
- Current Project Budget - \$2.4 Billion
  - TRWD share \$1.4B
  - Dallas' share \$1.0B

# 2014 LRWSP – Alternative 1



# 2014 LRWSP – Alternative 2





# 2014 LRWSP – Alternative 4

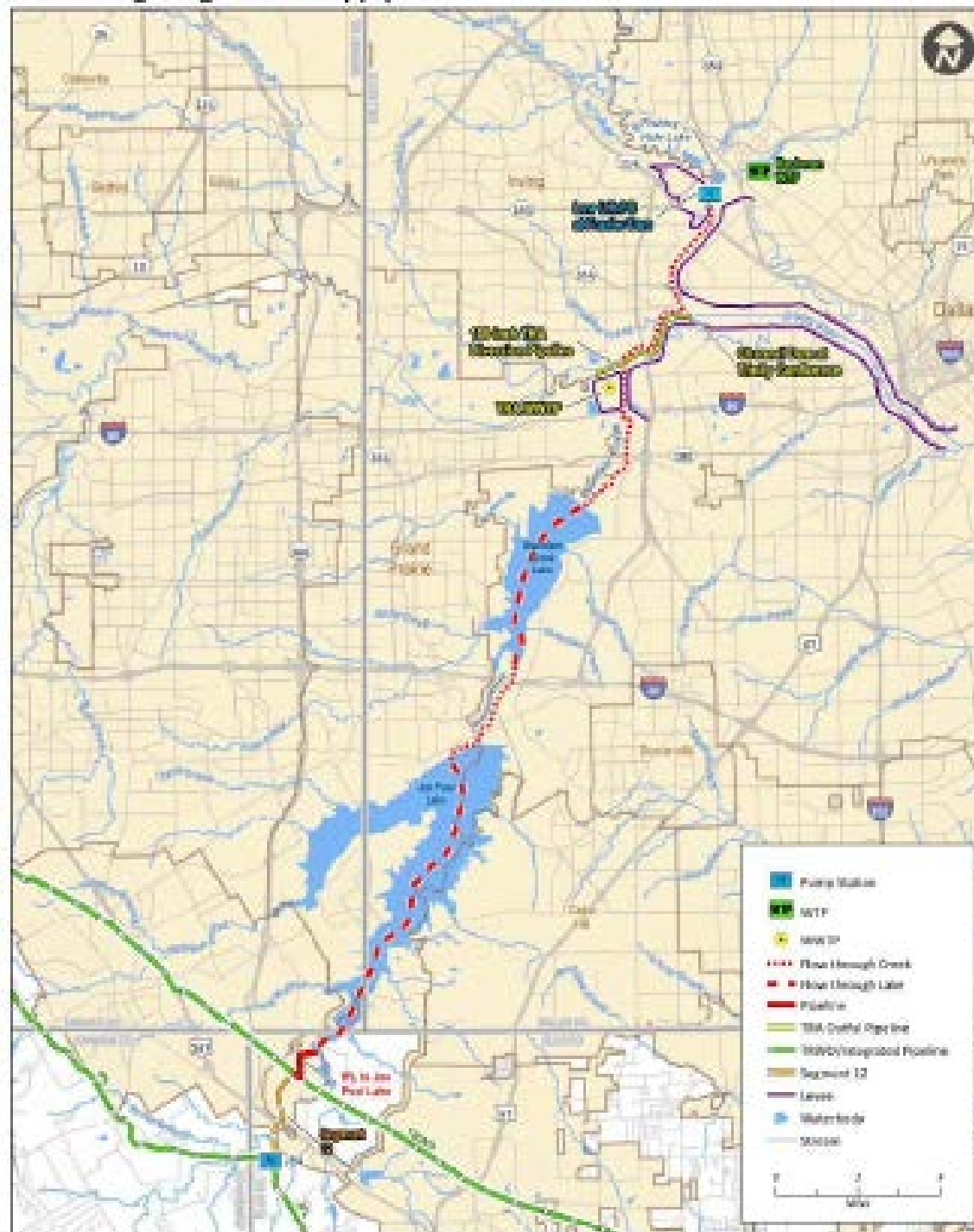


# 2014 LRWSP – Alternative 5





# 2014 LRWSP – Alternative 6



## Joe Pool Lake Advantages

- Pipeline Capital Cost
- Operations Cost
- Terminal Storage
- Dallas Customers have contracted Water Supply
  - Cedar Hill
  - Duncanville
  - Grand Prairie

# Joe Pool Lake Issues

- Water Quality
- Hydraulic
- Environmental
- Regulatory
- Contractual