

HDR



Proposed McLennan County Water Supply Amendment to the 2016 Brazos G Plan

Agenda Item 6.11

August 16, 2017



Background

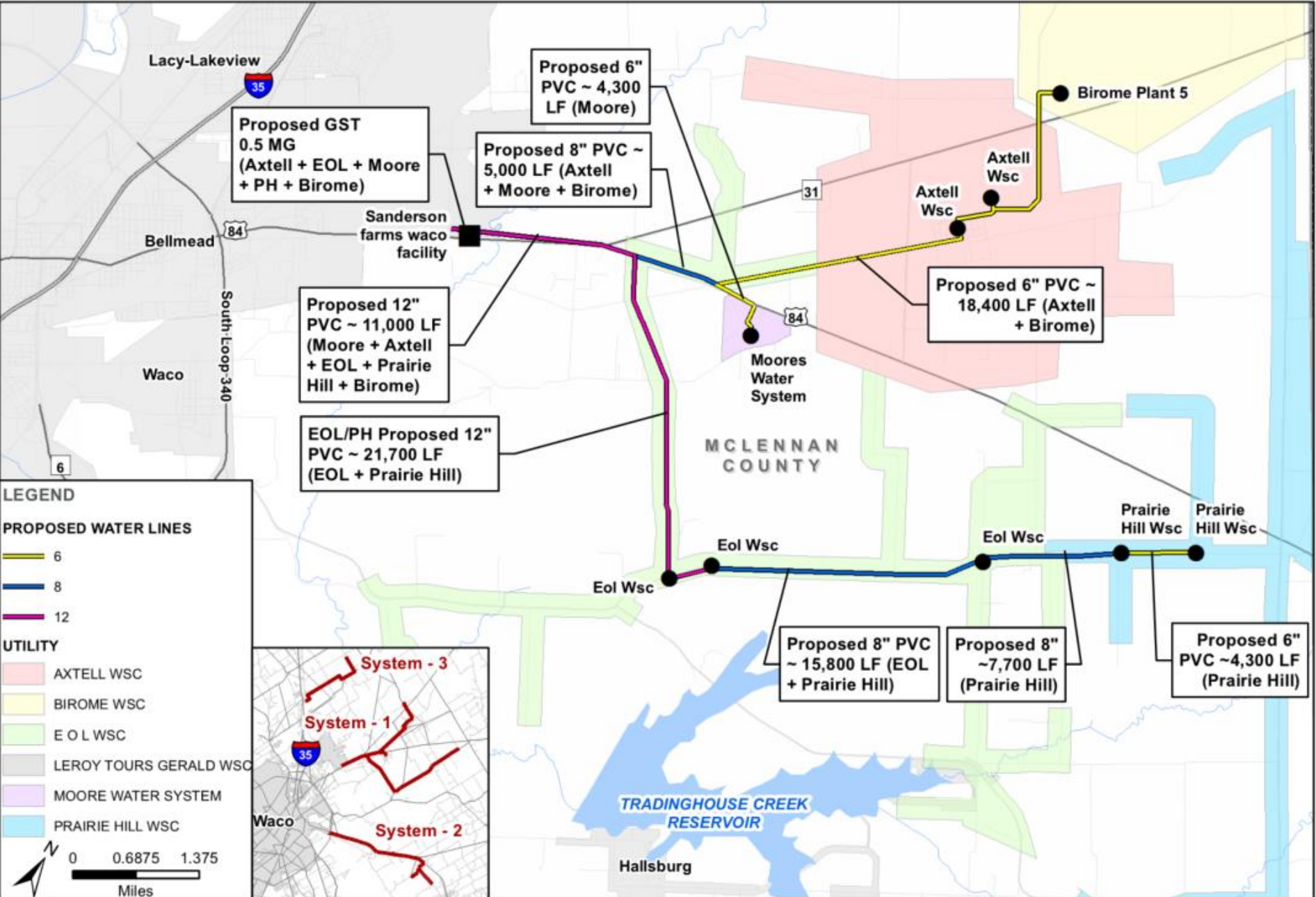
- Previous planning cycle – Brazos G RWPG informed of FHLM study to develop water plan for multiple smaller water utilities in Falls, Hill, Limestone and McLennan Counties
 - Arsenic levels is a key issue
- FHLM study strategies considered (incomplete list)
 - Additional Carrizo-Wilcox Groundwater supplies
 - Regional reverse osmosis treatment of brackish groundwater
 - New reservoir
 - Supplies from Brushy Creek Reservoir (from City of Marlin)
 - City of Waco supplies
 - Arsenic treatment at individual well sites
- 2016 Brazos G Plan – recommends well site arsenic removal
- City of Waco has agreed to provide treated water to McLennan County entities

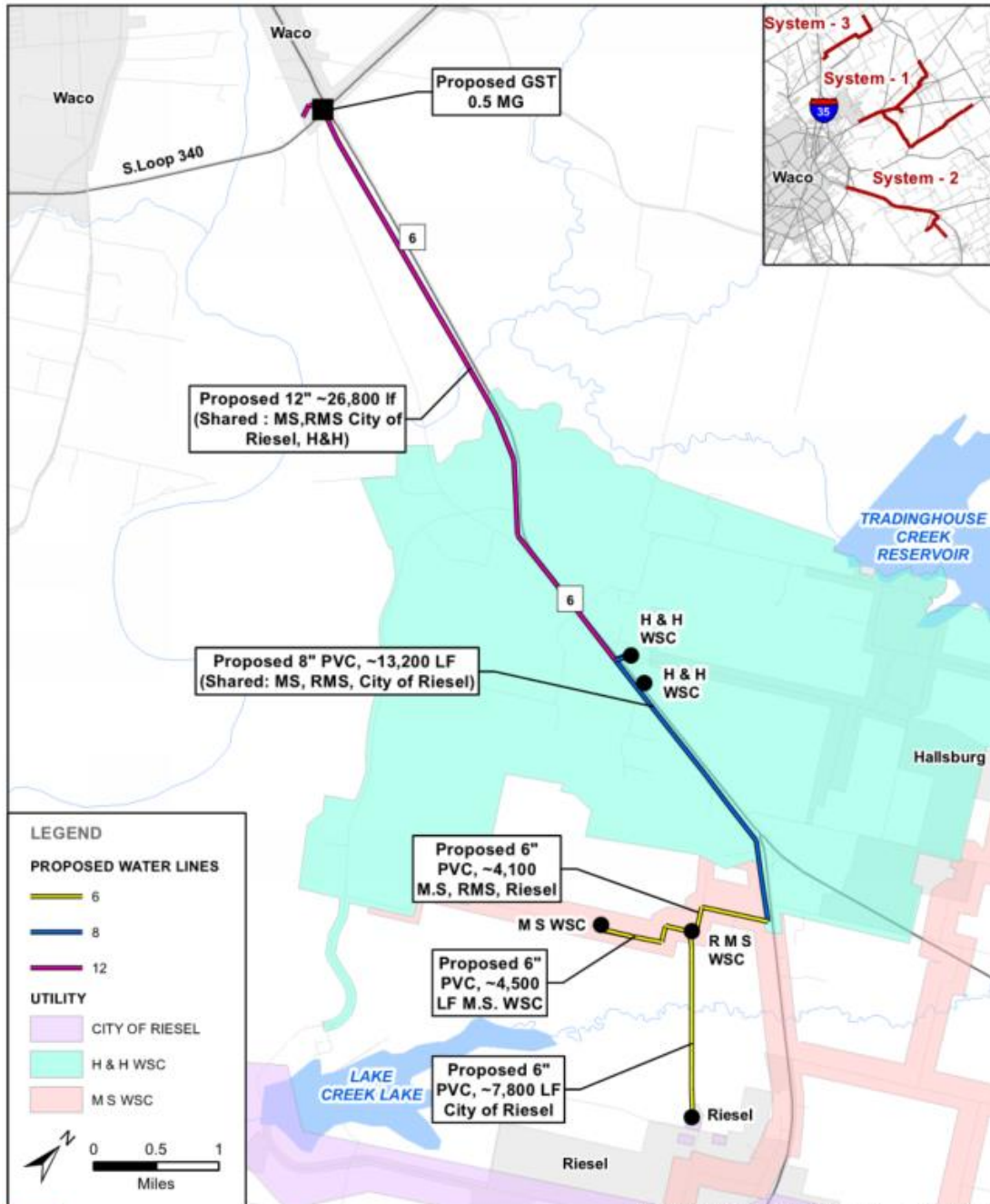


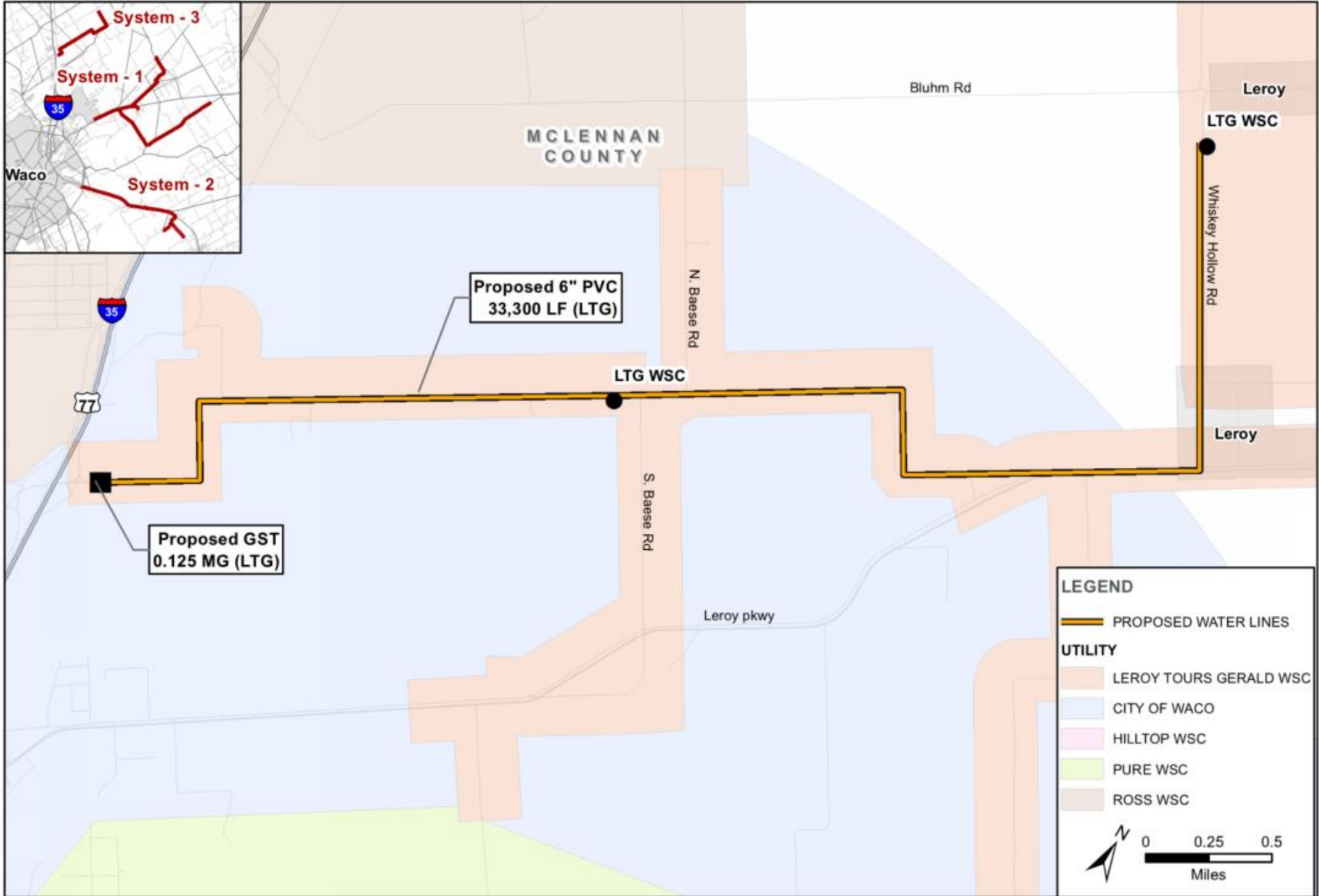
Proposed Amendment to 2016 Plan

- City of Waco has agreed to provide treated water to McLennan County entities to provide dilution of elevated arsenic levels
 - City of Riesel
 - Multiple County-Other utilities
 - Axtell WSC, Birome WSC, Elk Oak Lake WSC, Leroy-Tours-Gerald WSC, Moore Water System, Meier Settlement WSC, Prairie Hill WSC, Reisel-Meier Settlement WSC and H&H WSC (not arsenic mitigation)
- Proposed amendment
 - Recommended strategies for Riesel and McLennan County-Other
 - Replace “Upgrade Treatment for Arsenic” with “Purchase Water from City of Waco (McLennan County Arsenic Mitigation)”
 - Upgrade Treatment for Arsenic becomes an Alternative Strategy
 - Riesel – 78 acft/yr, \$1.0 million total project cost, \$6.69/1,000 gals
 - McLennan County-Other – 972 acft/yr, \$14.8 million total project cost, \$7.44/1,000 gals
 - Three separate systems (costs shared between system participants)









LEGEND

- PROPOSED WATER LINES

UTILITY

- LEROY TOURS GERALD WSC
- CITY OF WACO
- HILLTOP WSC
- PURE WSC
- ROSS WSC

0 0.25 0.5
Miles

Recommended Action

Pending input received in the 14 day comment period that merits a revision, the Brazos G Regional Water Planning Group hereby amends the 2016 Brazos G Regional Water Plan by:

1. Adding 'Purchase Water from City of Waco (McLennan County Arsenic Mitigation)' as a recommended water management strategy for the City of Riesel and McLennan County-Other, and
2. Making 'Upgrade Treatment for Arsenic' an Alternative Strategy for the City of Riesel and McLennan County-Other.

The Brazos G Regional Water Planning Group directs HDR and the Brazos River Authority to coordinate with the Texas Water Development Board to make whatever changes are necessary to the 2016 Brazos G Regional Water Plan and the 2017 State Water Planning Database (DB17) to enact the above amendment.”



HDR