Presentation Outline

- Preliminary Engineering Report general outline
- Project location
- Project background
- WWTP effluent volume
- Existing effluent reuse locations
- Existing reuse distribution
- Effluent reuse storage
- Need for project
- Alternatives considered
- Alternatives A through H
- Recommended alternatives
Project Location

- City of Deming
- South of Interstate 10
- Mainly along Poplar Street
- Reuse water to municipal parks and athletic fields
Existing
Reuse
Distribution
Existing Reuse Storage

- Golf Course Storage Pond
- Pond #5
- Pond #6

Legend:
- City Limits
Alternative A: Replace Booster Pumps to Golf Course Ponds at the WWTP

Opinion of Probable Project Cost: $997,100
Construction Cost: $761,800
Non-Construction Cost: $235,300 (including the PER)
Alternative B: Treatment to Achieve Improved NMED Class 1B Requirements Using Filters

Opinion of Probable Project Cost: $615,600
Construction Cost: $432,700
Non-Construction Cost: $182,900 (including the PER)
Alternative C: Treatment to Achieve NMED Class 1A Requirements Using Filters and UV

Opinion of Probable Project Cost: $930,300
Construction Cost: $704,700
Non-Construction Cost: $225,600 (including the PER)
Alternative D: New Booster Pumps for Expanded Reuse System at the Golf Course

Opinion of Probable Project Cost:
$587,000
Construction Cost:
$404,000
Non-Construction Cost:
$183,000 (including the PER)
Alternative E: Replace All Booster Pumps at the Golf Course

Opinion of Probable Project Cost:
$941,600
Construction Cost: $711,800
Non-Construction Cost: $229,800 (including the PER)
Alternative F: Construct a New Pond at the Golf Course

Opinion of Probable Project Cost: $422,600
Construction Cost: $264,100
Non-Construction Cost: $158,500 (including the PER)
Opinion of Probable Project Cost: $1,095,400
Construction Cost: $843,200
Non-Construction Cost: $252,200 (including the PER)

9,605 LF of 10-inch PVC
800 LF of 12-inch PVC
Alternative G, Option 1: New Reuse Line for the High School Fields, Scout Park and Hooten Park

Opinion of Probable Project Cost: $368,800
Construction Cost: $224,200
Non-Construction Cost: $144,600 (including the PER )
Alternative G, Option 2: New Reuse Line for the County Courthouse Park

Opinion of Probable Project Cost: $105,900
Construction Cost: $13,900
Non-Construction Cost: $92,000 (including the PER)
Alternative G, Option 3: New Reuse Line for Pearl Park

Opinion of Probable Project Cost: $218,200
Construction Cost: $97,300
Non-Construction Cost: $120,900 (including the PER)

1,530 LF of 6-inch PVC
Alternative G, Option 4: New Reuse Line for Lloyd Pratz T-ball Complex and the BMX Park

Opinion of Probable Project Cost: $228,200
Construction Cost: $106,900
Non-Construction Cost: $121,300 (including the PER)

1,100 LF of 6-inch PVC
Alternative G, Option 5: New Reuse Line for Florida Park

Opinion of Probable Project Cost: $386,700
Construction Cost: $239,800
Non-Construction Cost: $146,900 (including the PER)

Legend
- Blue: 6-inch Reuse Line
- Pink: 10-inch Reuse Line (Alt. G)

2,670 LF of 6-inch PVC

Florida Park
3.3 acres

Opinion of Probable Project Cost: $445,400
Construction Cost: $295,200
Non-Construction Cost: $150,200 (including the PER 5,000 LF of 10-inch PVC)
Alternative H: Upgrades to the Existing Sprinkler System at the Golf Course

Opinion of Probable Project Cost: $175,900
Construction Cost: $66,500
Non-Construction Cost: $109,400 (including the PER)
Proposed Project
(Recommended Alternatives/Options)
Conclusions and Recommendations

- The recommended (immediate) alternatives/options will:
  - Modernize and upgrade both existing pumping systems for reuse
  - Upgrade treatment to more versatile Class 1A standard
  - Add distribution to support 96% of identified reuse needs
  - Modernize the existing golf course irrigation system to improve efficiency