Aquilla Reallocation Report

Presented by
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Water Services Manager

Meeting Date: July 30, 2018
Presentation Outline

• Purpose – Reporting on the status of the Aquilla Reallocation Study
  – Background (Corps reservoirs, storage reallocation, previous reports, etc.)
  – Study Evaluations and Assessments
  – Study Results and Current Status
  – Next Steps
Lake Aquilla

CONSERVATION POOL
43,293 AC-FT

FLOOD POOL
92,343 AC-FT

DAM

CURRENT
TOP OF CONSERVATION POOL

556'

537.5'

503'
Lake Aquilla

REALLOCATION 15,083 AC-FT

Lake Aquilla

CONSERVATION POOL 43,293 AC-FT

FLOOD POOL 77,260 AC-FT

556’

542’

537.5’

537.5’

DAM

TOP OF CONSERVATION POOL RAISED 4.5’

CURRENT TOP OF CONSERVATION POOL

503’

503’

542’

556’
Lake Aquilla

CONSERVATION POOL
58,376 AC-FT

FLOOD POOL
77,260 AC-FT

TOP OF CONSERVATION POOL RAISED 4.5'

TOP OF CONSERVATION POOL
542'

DAM
556'

503'
Timeline of Previous Studies

• Brazos River Basin Systems Assessment
  • Phase I Storage Reallocation Evaluation (Screening of reallocation potential at all 9 federal reservoirs, 2005-2007)
  • Phase II – Aquilla Lake Storage Reallocation (Authorized in 2008)
  • Additional phases if detailed storage reallocation is pursued at reservoirs other than Aquilla
Study Evaluations and Assessments

Recreation  Cultural Resources  Geotechnical

Hydrology and Hydraulics  Environmental Studies  Economics

Others – civil/structural, cost estimating, real estate, waste and reservoir control

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Study Results and Current Status

• $26.4 million for approximately 2,000 acre-feet/year yield increase
  – Cost of storage: Almost $15 million
  – Utility relocations, embankment reinforcement, recreational facilities: ~$6 million
  – Fish and wildlife mitigation: ~$1 million
  – Design and Construction Management: ~$4-5 million

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Next Steps

- Final approval of study: COE HQ
- Customer coordination
- Negotiations with the COE concerning costs
- Determine if implementation is feasible - timing

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