City of Peachtree City

Lake Peachtree Spillway Replacement

City Council Update

December 5, 2016
Project Team

Project Principal
Dan Davis, Jr., PE
Integrated Science & Engineering, Inc.

Program Management
Rich Greuel, PE
Integrated Science & Engineering, Inc.

Spillway Design
Randy Bass, PE
Schnabel Engineering

Environmental Permitting
John Vermont, PWS, CE
Corblu Ecology Group

Landscaping Design
Annette Bowman
Bowman Landscape Design

Peachtree City
Plan to Stay™
Project History to Date

Key Milestones

- Design of New Spillway Authorized Apr 2016
- Preliminary Planning Meeting Held Jun 2016
- Final Concept for Spillway Selected Sept 2016

Key Objectives Met

- New Spillway Design will Meet Current Georgia Safe Dams Standards
- New Spillway Design will not Increase Flooding During 100-year Storm Either Upstream or Downstream of Dam
Schedule

- Phase 1 – Schematic Design (Apr – Aug 2016)
- Phase 2 – Public Meetings (Aug 2016 – Sep 2016)
- Phase 3 – Preliminary Design (Sep 2016 – Dec 2016)
- Phase 4 – Design Development (Dec 2016 – Apr 2017)
- Phase 5 – Final Design (Apr 2017 – May 2017)
- Phase 7 – Bidding (Jun 2017 – Aug 2017)
- Phase 8 – Construction (Aug 2017 – Apr 2018)
- Phase 9 – Project Closeout (May 2018 – Jun 2018)
Preliminary Design
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Preliminary Design
Anticipated Lake Impacts

- **Stage 1** – Lower Lake Peachtree 8.5-feet
  - Approximately 3-Weeks
- **Stage 2** – Construct Coffer Dam
  - Approximately 4-Weeks
- **Stage 3** – Lower Lake Kedron 2-feet / Raise Lake Peachtree 2-feet
- **Stage 4** – Construct New Spillway Foundation
  - Approximately 3 Months
- **Stage 5** – Raise Lake Peachtree 2-feet
- **Stage 6** – Construct New Spillway Walls / Weirs
  - Approximately 3 Months
- **Stage 7** – Return Lake Peachtree to Full Pool
Lake Initial Conditions
Lake Initial Conditions
Lake Down Approximately 8 Feet

Legend
Water Extents at 8-ft of Draw Down
- Yellow: Less Than 2-ft of Water
- Blue: 2-ft of Water or More

Start to Month 2
Lake Down Approximately 6 Feet
Lake Down Approximately 4 Feet

Legend
Water Extents at 4-ft of Draw Down
- Yellow: Less Than 2-ft of Water
- Blue: 2-ft of Water or More

Month 5 to Finish
Preliminary Cost Opinion

Anticipated Construction Cost of Spillway - Approx $3.46 Mil
Recommended Contingency - 15% ($519,000)
Multi-Use Bridge Discussion

Recommended Bridge

Contech Continental Thrust Arch

- Located Above Plunge Pool / Downstream of Spillway
- Will Span Entire Spillway
- Open Design Allowing Unimpeded Views of Spillway
Multi-Use Bridge Discussion
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Dredging Discussion
Questions?