KC Water FY22-FY23 Capital Improvements Program

Matt Bond, Deputy Director
Jeff Martin, Chief Engineering Officer
Srini Vallabhaneni, Smart Sewer Officer

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Engineering Business Unit Updates

Matt Bond
Deputy Director, Engineering and Compliance
Rolling Out Design Professional Evaluations

- Design Professional Evaluation Process in e-Builder –
  - E-Builder Digital Form and Process
  - Provide feedback at key project milestones
  - Drive effective accountability and communication

- Process:
  - **Start**: PM Completes Evaluation
  - **Division Head Reviews**
  - **Evaluation Emailed to DP PM & Executive**
  - **DP Reviews & Provides Comments**
  - **PM + Division Head Receives & Reviews DP Comments**
  - **Meet with DP if Requested**
  - **Finish**

*Responsiveness:*
- [ ] A. KC Water Comments:
  - 1 - Does Not Meet Expectations
  - 2 - Meets Expectations
  - 3 - Exceeds Expectations
  - N/A - Not Applicable
- [ ] A. DP Response Comments:
New Envision Sustainability Guidance

Updated Envision policies and program/project requirements around Version 3

- KC Water Sustainability Playbook updated and PM’s trained in November 2020
- Tiered approach developed to allow for the best level of Envision assessment to be applied to all KC Water project
- Additional tools developed
  - Sustainability Process Diagram
  - Tier 1 Sustainability Tracking Spreadsheet
  - Conversation Guide
  - Training video
Chief Engineering Officer

Jeff Martin, PE
Chief Engineering Officer
Water Main Replacement Program

- Current year CIP includes:
  - 15 distribution main construction projects totaling $25,750,000
  - 4 additional transmission/distribution main construction projects
    - $8,700,000 total
    - 1 design-build
  - 16 distribution main design projects totaling $4,800,000
    - 7 SLBE-WSD EPS
Water Master Plan Risk & Resilience Update

• Design Professional Services
• Update of existing water masterplan
• Update of distribution master plan model
• Develop model scenarios to improve operational efficiency
• Identification of risk reduction opportunities
  • Refinement of asset inventory
  • Failure Modes and Effect Analysis
Capture and utilization of excess biogas at the Blue River Wastewater Treatment Plant and other opportunities

Two stage procurement process

Request for Expressions of Interest
  • Q4 2021
  • List of rights

Workshops with Potential Parties

Contract(s) Development

Request(s) for Proposals
Smart Sewer and Stormwater

Srini Vallabhaneni
Smart Sewer Officer
Update: Smart Sewer Program (2010-2040)

**Combined Sewer System**
- GREEN INFRASTRUCTURE
- PUMPING & CONVEYANCE
- SEWER SEPARATION
- NEIGHBORHOOD SEWER REHABILITATION
- IN-LINE & OPEN BASIN STORAGE
- FURTHER MEASURES PLAN

**Separate Sanitary Sewer System**
- PUMPING & CONVEYANCE
- INFLOW AND INFILTRATION REDUCTION
- SEWER REHABILITATION
- TREATMENT PLANT DISINFECTION

**Citywide**
- HIGH-RATE TREATMENT

- 2010 | 2015 | 2020 | 2025 | 2030 | 2035 | 2040

**Program Cost through 2035**
$2.3 billion

**90 Projects completed w/$800M, on time and budget**

**COVID-19 schedule extensions for several active and future projects**
FY 22 Projects: Smart Sewer and Wastewater Collection Engineering

- 15 Construction Projects
- 3 Design Professional Contracts
- 1 Professional, Specialized or Technical Services Contract
Project Highlights

Green Infrastructure: Daniel Morgan
Boone Park (63rd and Paseo)

Data Analytics and Digital Strategy
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