Engineering and Smart Sewer Updates

Matt Bond
Deputy Director
Engineering and Compliance

Effective April 1, 2022

Section Heads (Bold Italics)

*Acting

Environmental Compliance

- Matt Lary
  - Discharge permits
  - Industrial Pretreatment
  - Inspections
  - City-wide Environmental Coordination
  - Scott Cahall
    - Sewer Allowance Credit
    - Household Hazardous Waste
    - Robert Fort

Assistant Laboratory Manager

Jessica Jensen
- Sample Collection and Receiving-Daryl Young
- Microbiology-Keshawne Ingram
- General Chemistry-Ashley Larsen
- Organics- Lori Scott
- Metals- Stephen Albin

Aurora Shields Laboratory Services

Environmental Compliance Matt Lary
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Green Infrastructure Project 1:1
Mill Creek Park (Construction)

Project Highlights
• Tallgrass Prairie Concept
• Includes earthwork, retaining walls, walkways, plantings, and lighting
Sewer Separation: 40th and Monroe (Construction)

Project Area
- 220 acres
- 8 CSO Outfalls

Work Includes
- 12,000 LF 15” through 60” storm sewer
- 1,000 LF 8” through 15” sanitary sewer
- 5,300 LF Water Main Replacement
- 20,000 LF Sewer Rehabilitation
- 135 EA Manhole Rehabilitation
- Green Infrastructure
Santa Fe Sewer Rehabilitation Phase 2 (Design-Build)

Project Highlights
• 120” non-reinforced concrete
• Cast-in-Place Construction
• Proposed as a Design-Build project
Chief Engineering Officer

Jeff Martin, PE
Chief Engineering Officer
Water Main Replacement Program

- Current year CIP includes:
  - Distribution main construction projects totaling $28,300,000
  - 4 additional transmission/distribution main construction projects
    - $9,450,000 total
    - 1 design-build
  - N Waukomis 36” Transmission Main design contract
Prospect Road Elevated Tank and Transmission Main (Construction)

Projects Include:

- Construction of 3 million gallon elevated storage tank at site of our Blue River Pump Station

- Construction of 16” transmission main from Blue Ridge Blvd and Holmes Rd to serve new tank
North Auxiliary Pump Station (Design)

Project Includes:

• Pump station design to serve future water demands north of the river
• Repurposing of underutilized existing south serving pumps
• Evaluation of pump location within the plant space
Lab Remodel and Building Renovations (CM at Risk)

Project Includes:

• Remodeling and expansion of KC Water Laboratory building
• Parking lot and site work immediately adjacent to building
• Improved workflow for sample intake and testing operations
• Improved office, employee lunch/break room and meeting areas
Blue River WWTP Facility Plan (Design)

Facility Plan Includes:

- Evaluate preliminary treatment upgrades for asset replacement and improved service
- Evaluate primary treatment for wet weather upgrades
- Evaluate secondary treatment system for asset replacement and improved service and future total phosphorus regulations
Blue River WWTP Screen Replacement (Design-Build)

Project Includes:

• Replacement of mechanical screens
• Modification to the inlet sewer to allow equal distribution of grit and screening
• Channelization of the screen house to prevent wet weather flow from bypassing the screens
• Building envelope and HVAC upgrades
Westside WWTP Sludge Screening (Design-Build)

Project Includes:

• Construction of a sludge screening facility north of the secondary clarifier #3 at Westside WWTP
• Odor control
• Sludge storage
• Dumpster for solids storage
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