WATER PROJECTS
Water Main Replacement Program

![Graph showing miles replaced and main breaks for FY14 to FY19 (Projected).](image)

- FY14: 1,375 miles replaced, 17 main breaks
- FY15: 852 miles replaced, 26 main breaks
- FY16: 35 miles replaced, 815 main breaks
- FY17: 30 miles replaced, 686 main breaks
- FY18: 28 miles replaced, 723 main breaks
- FY19 (Projected): 22 miles replaced, 902 main breaks

Note: KCWATER logo present.
# Water Main Replacement Design

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Manager</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLBE-Water Main Replacements (5 Projects)</td>
<td>TBD</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Water Main Replacements (8 Projects)</td>
<td>TBD</td>
<td>$3,500,000</td>
</tr>
<tr>
<td>Water Main Replacement Design/Build</td>
<td>TBD</td>
<td>$4,000,000</td>
</tr>
</tbody>
</table>

- Slightly fewer, larger projects
- Using design/build
- RFQ/Ps expected in Summer 2019
### Transmission and Water Main Construction

<table>
<thead>
<tr>
<th>Transmission Main Projects</th>
<th>Project Manager</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>75th Street Transmission Main - Phase 1 (Main Street to Summit Street)</td>
<td>Terry Thomas</td>
<td>$6,500,000</td>
</tr>
<tr>
<td>36”-Waukomis T. M. (Englewood to NW 62nd St)</td>
<td>Jerry Stevens</td>
<td>$2,250,000</td>
</tr>
<tr>
<td>Project is separate and ahead of road project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36”- N. Green Hills Rd. Phase 1 (Platte Brooke Dr. to 78th)</td>
<td>Melanie Jollett</td>
<td>$2,250,000</td>
</tr>
<tr>
<td>Project in conjunction with Public Works Road Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36” &amp; 12”- N. Brighton (58th St to Pleasant Valley Road)</td>
<td>Kelly Finn</td>
<td>$3,750,000</td>
</tr>
<tr>
<td>Project in conjunction with Public Works Road Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30” &amp; 16”-Maplewoods Parkway (96th to 108th St)</td>
<td>Kelly Finn</td>
<td>2,000,000</td>
</tr>
</tbody>
</table>

**12 Projected Water Main Replacement Projects--$23 M**
Primary Concerns at Site:

• Safety
• Antiquated work environment
• Substandard and crowded facilities
• Negative image of complex
• 21 Acres needed→17 Acres Available
Modified Service Center
Per Facility Plan

Warehouse/Materials

Multi-Level Vehicle Parking

Fleet Maintenance

Prospect

Meter Field Services

Brooklyn

Administration

Design/Program Management Services RFQ/P Spring or Summer 2019
WASTEWATER PROJECTS
Wastewater SCADA Phase 1 Construction

Major Goals
- User-friendly visual interface
- Focused on O&M needs
- Easily expandable
- Programming standards
- Security

Integrate Real Time Data
- Status alarms
- Equipment failure
- Run status
- Instrument readouts

Phase 1 Project Establishes Strategy, Standards, Implements 5-6 sites
Blue River WWTP Biosolids Processing

Advanced Digestion (Thermal Hydrolysis)
- Eliminates incineration, emissions
- Maximizes use of existing digesters

Recovers resources:
- 100% Class A Biosolids-suitable for marketing
- Energy recovery
- Phosphorus recovery

Implemented by design/build (Summer RFQ/P)

Approved for Innovative financing
- State Revolving Fund (SRF) Loan
- EPA WIFIA program

Driving Innovations (i.e. BIM Model)
STORMWATER PROJECTS
## FY2020 PIAC PROJECTS

<table>
<thead>
<tr>
<th>Phase</th>
<th>No. of Projects</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>3</td>
<td>$1.6 M</td>
</tr>
<tr>
<td>Bid/Construction</td>
<td>14</td>
<td>$3.3 M</td>
</tr>
<tr>
<td>Design, Bid, &amp; Construction</td>
<td>4</td>
<td>$0.7 M</td>
</tr>
<tr>
<td>Design/Bid</td>
<td>4</td>
<td>$1.3 M</td>
</tr>
</tbody>
</table>

**SLBE On Call Services RFQ/P**

*Expected Early 2020*
With USACOE, UGWYCO, and Kaw Valley Drainage Dist.

Fully federally funded at ~$453M

Expect design/build
Brookside Stormwater Improvements

Full hydraulic evaluation to maximize system improvements

Integrate with South Streetcar Extension
Brookside Stormwater Improvements

- Primary Goal: reduce flooding
- Balance cost and stormwater performance
- Improve water quality of our local waters
- Utilize Green Stormwater Infrastructure

*Initial Interceptor Construction planned from Brush Creek to 56th Terrace*