Board of Directors Report

on

Key Indicators of MWRA Performance

for

Third Quarter FY2016

Frederick A. Laskey, Executive Director
Michael J. Horanbrook, Chief Operating Officer
May 11, 2016
Field Operations Maintenance

Maintenance Backlog in Crew Hours

Overtime Spending

FY16 OT Budget

OT Actual
Operations Division Metering - Miles Surveyed for Leaks

- Monthly
- Cumulative
- Target

January to January: 134.93 miles surveyed for leaks.
Water Distribution System Valves

### Main Line Valves Exercised

- **Target**: 1,100 main line valves annually

### Blow-Off Valves Exercised

- **Target**: 500 blow off valves annually

<table>
<thead>
<tr>
<th>Type of Valve</th>
<th>Inventory #</th>
<th>Operable Percentage</th>
<th>FY16 to Date</th>
<th>FY16 Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Line Valves</td>
<td>2,159</td>
<td>96.30%</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Blow-Off Valves</td>
<td>1,317</td>
<td>94.30%</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Air Release Valves</td>
<td>1,380</td>
<td>92.80%</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Control Valves</td>
<td>49</td>
<td>100.00%</td>
<td>95%</td>
<td></td>
</tr>
</tbody>
</table>
MWRA Projects in Stoneham
MWRA Projects In Stoneham
Stoneham High School Parcel
Beacon Street Line: Water Pipeline Repair - Brookline

Construction Contract 7458

May 11, 2016
<table>
<thead>
<tr>
<th>Contractor</th>
<th>Bid Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Engineer’s Estimate</em></td>
<td>$1,475,000</td>
</tr>
<tr>
<td>R. Zoppo Corp.</td>
<td>$1,566,178</td>
</tr>
<tr>
<td>P. Gioioso &amp; Sons, Inc.</td>
<td>$1,688,500</td>
</tr>
<tr>
<td>P. Caliacco Corp.</td>
<td>$1,691,815</td>
</tr>
<tr>
<td>RJV Construction, Corp.</td>
<td>$1,718,000</td>
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</tbody>
</table>
Beacon Street Line - Brookline

• Constructed in the 1870s, it is part of MWRA’s Boston Low Service System

• 48-inch diameter cast iron pipe cement mortar lined in 2000

• A significant portion of it is located underneath the MBTA’s Beacon Street Green Line tracks

• The Beacon Street Line water main provides important service to the Longwood Medical area
Beacon Street Line - Brookline

- Primary Access Pit
- Kent St AV
- Hawes St AV
- Egress Pit
- 2013 Leak/CFRP Repair
- Meter 44

2,700+ ft
Beacon Street Line – Carbon-Fiber Reinforced-Polymer (CFRP) Installation

• CFRP installed from within pipe

• Multiple layers of carbon fiber mesh with a resin mixture forms high strength structural lining

• Primary access pit located at previous cleaning & lining 8-ft spool pipe 1,400-ft from repair area

• New chambers installed at access pits
Beacon Street Line - Brookline

ACCESS PIT #1

Emergency Egress Pit / Ventilation

ACCESS PIT #2

Primary Access Pit for Labor and Materials
Southern Extra High Pipeline

Section 111 (Boston)

Construction Contract 6454

May 11, 2016
## Section 111 (Boston) – Bid Tabulation

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Bid Amount</th>
</tr>
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<tbody>
<tr>
<td><em>Engineers Estimate</em></td>
<td>$13,500,000</td>
</tr>
<tr>
<td>Baltazar Contractors Inc.</td>
<td>$10,880,000*</td>
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<tr>
<td>P. Gioioso and Sons, Inc.</td>
<td>$11,770,000</td>
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<tr>
<td>RJV Construction Corp.</td>
<td>$11,915,000</td>
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<tr>
<td>Fed. Corp.</td>
<td>$12,837,560</td>
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<tr>
<td>Albanese Brothers Inc.</td>
<td>$14,374,735</td>
</tr>
<tr>
<td>Revoli Construction Co., Inc.</td>
<td>$14,608,000</td>
</tr>
</tbody>
</table>

* The contractor, Baltazar Contractors Inc., has requested to withdraw their bid due to a bid error.
Southern Extra High Pipeline – Section 111 (Boston)

- 5.4 mile, 36 inch diameter
- DCR Roadways
- Dedham Residential
- Mother Brook Crossing
- Walnut Street Bridge Crossing
- MBTA Crossing
- Route 95 Crossing
Section 111 - Construction Sequencing

<table>
<thead>
<tr>
<th>Contract</th>
<th>Length</th>
<th>Approx. Cost</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>6454</td>
<td>11,000’</td>
<td>$11.8M</td>
<td>5/16</td>
</tr>
<tr>
<td>7504</td>
<td>10,000’</td>
<td>$10.7M</td>
<td>9/16</td>
</tr>
<tr>
<td>7505</td>
<td>6,800’</td>
<td>$7.3M</td>
<td>12/16</td>
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</tbody>
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Section 4 Webster Avenue Pipe and Utility Bridge Replacement Somerville

Contract 7335, NEL Corporation

May 11, 2016