**ESTIMATE OF VALUE OF WATER LOSS WORKSHEET**

<table>
<thead>
<tr>
<th>SRF PROJECT ID #</th>
<th>2011-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Date:</td>
<td>10/23/2012</td>
</tr>
<tr>
<td>2 PWSID #</td>
<td>ME0091530</td>
</tr>
<tr>
<td>3 System</td>
<td>STRONG WATER DISTRICT</td>
</tr>
<tr>
<td>4 Project Name</td>
<td>Main Replacement Project</td>
</tr>
<tr>
<td>5 Location</td>
<td>Lambert Hill Road</td>
</tr>
<tr>
<td>6 Engineering Consultant</td>
<td>A.E. Hodsdon</td>
</tr>
<tr>
<td>7 Existing Main size, age, and type</td>
<td>6&quot; cast iron unlined</td>
</tr>
<tr>
<td>8 Proposed New Water Main size and type</td>
<td>8 inch ductile iron pipe</td>
</tr>
<tr>
<td>9 New Main Pipe Length</td>
<td>5,280</td>
</tr>
<tr>
<td>10 Estimated Project Cost</td>
<td>$ 500,000</td>
</tr>
</tbody>
</table>

Note: Data from Utilities Annual Report to Maine Public Utilities Commission

<table>
<thead>
<tr>
<th>Page</th>
<th>Line</th>
<th>Description</th>
<th>Units</th>
<th>2011 data</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-12</td>
<td>15</td>
<td>Total Production Water</td>
<td>gallons per year</td>
<td>20,690,000</td>
</tr>
<tr>
<td>W-12</td>
<td>17</td>
<td>Total Revenue Water</td>
<td>gallons per year</td>
<td>9,456,000</td>
</tr>
<tr>
<td>W-12</td>
<td>19</td>
<td>Total Non-Revenue Water</td>
<td>gallons per year</td>
<td>11,234,000</td>
</tr>
<tr>
<td>W-12</td>
<td>18</td>
<td>Percent Non-Revenue Water</td>
<td></td>
<td>54%</td>
</tr>
<tr>
<td>W-12</td>
<td>22</td>
<td>Utility Usage - treatment</td>
<td>gallons per year</td>
<td>200,000</td>
</tr>
<tr>
<td>W-12</td>
<td>23</td>
<td>Utility Usage - hydrant flushing</td>
<td>gallons per year</td>
<td>1,500,000</td>
</tr>
<tr>
<td>W-12</td>
<td>14</td>
<td>Utility Usage - bleeder</td>
<td>gallons per year</td>
<td>190,000</td>
</tr>
<tr>
<td>W-12</td>
<td>26</td>
<td>Utility Usage - all other (running customers &amp; blow-offs)</td>
<td>gallons per year</td>
<td>250,000</td>
</tr>
<tr>
<td>W-12</td>
<td>30</td>
<td>Fire Protection</td>
<td>gallons per year</td>
<td>200,000</td>
</tr>
<tr>
<td>W-12</td>
<td>31</td>
<td>Main Breaks</td>
<td>gallons per year</td>
<td>2,000,000</td>
</tr>
<tr>
<td>W-12</td>
<td>35</td>
<td>Flushing Mains</td>
<td>gallons per year</td>
<td>4,340,000</td>
</tr>
<tr>
<td>W-12</td>
<td>36</td>
<td>Total Accounted for Non-Revenue Water</td>
<td>gallons per year</td>
<td>6,894,000</td>
</tr>
<tr>
<td>W-12</td>
<td>37</td>
<td>Total Unaccounted Non-Revenue Water</td>
<td>gallons per year</td>
<td>9,334,000</td>
</tr>
</tbody>
</table>

Estimated Water Loss From ALL Breaks, Leaks, & Bleeders gallons per year 9,334,000

% of Water Loss of Total Production Water 45%

W-9 9 Total Transmission Mains | feet | 18,500 |
W-9 23 Total Distribution Mains | feet | 37,000 |
Total Mains in Service | feet | 55,500 |
miles | 11 |

Estimated Distribution System Losses:
Loss Water per mile of pipe | gallons per mile per year | 887,991 |
Loss Water per foot of pipe per year | gallons per foot per year | 168 |
Loss water per foot of pipe per day | gallons per foot per day | 0.46 |

Water loss will vary with age of water main - assume Straight line projection as follows:

| Age of Main to be replaced years | 50 |
| Length of Main to be Replaced mile | 100 |
CALCULATED WATER LOSS - FOR PROPOSED PROJECT gallons per year 532,795 |

W-2 29c Total PRODUCTION COST of Water $/year $ 49,142 |
W-12 15 Total Production Water 1,000 gallons per year 20,690 |
Production Cost of Water per 1,000 gallons $ 2.38 |

PROJECTED ANNUAL VALUE of WATER LOSS per year $ 1,265 |

Annual Savings $ 1,265 |
PV Factor (uniform series present worth factor (1%, 75 years): $ 52,587 |
Present Value of Savings over Economic life of pipeline: $ 66,547 |
Project Cost $ 500,000 |
PV Percent of Project Cost: 13% |

ESTIMATED % Green 13% |
$ Amount Green $ 66,547 |