1967: Newtown Creek WWTP Commissioned

1972: Spring Creek CSO Facility Commissioned

1972: Clean Water Act

1973 – 2011: Upgraded 12 WWTPs to Secondary Treatment and built 2 new Wastewater Treatment Plants

$40 Billion
OMB Records & 10-yr Capital Plan

1992: CSO Consent Order

1995 – 2030: Construct Grey / Green Infrastructure to Mitigate CSOs

$4.2 Billion
OMB Records & 10-yr Capital Plan
Grey (1995 – 2030, $2.7 B)
Green (2012 – 2030, $1.5 B)

2005: CSO Consent Order

1999 – 2020: Upgrade Biological Nitrogen Removal at 70% of WWTPs

$1.1 Billion
OMB Records & 10-yr Capital Plan

2012: Modified CSO Consent Order

OMB = Office of Management and Budget
NYC Income Levels and Poverty Rates

<table>
<thead>
<tr>
<th></th>
<th>Median Household Income (MHI)</th>
<th>% of Residents Living Below Federal Poverty Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>$53,675</td>
<td>15.5%</td>
</tr>
<tr>
<td>NYC</td>
<td>$52,996</td>
<td>20.9%</td>
</tr>
<tr>
<td>Bronx</td>
<td>$33,712</td>
<td>31.6%</td>
</tr>
<tr>
<td>Brooklyn</td>
<td>$47,966</td>
<td>23.4%</td>
</tr>
<tr>
<td>Manhattan</td>
<td>$76,089</td>
<td>17.6%</td>
</tr>
<tr>
<td>Queens</td>
<td>$57,241</td>
<td>15.2%</td>
</tr>
<tr>
<td>Staten Island</td>
<td>$71,121</td>
<td>14.5%</td>
</tr>
</tbody>
</table>


- While NYC MHI is comparable to national average, cost of living and housing burden for NYC residents is generally much higher.
- ~21% of NYC population (>1.7 million people) lives below the federal poverty level.
- ~19% of elderly population lives in poverty.
DEP has partnered with the Human Resources Administration and the Department of Finance to provide assistance to low income, senior, and disabled households that either participate in the federal Home Energy Assistance Program or receive tax exemptions because of their income or status.

In January 2016, approx. 52,000 homeowners received a credit of $115.89.
### Average Wastewater Bill Compared to HH Income

<table>
<thead>
<tr>
<th>Year</th>
<th>Average Wastewater Bill/MHI</th>
<th>% of HH estimated to be paying more than 2% of HH income on Wastewater Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>1%</td>
<td>27%</td>
</tr>
<tr>
<td>2025</td>
<td>1.5%</td>
<td>40%</td>
</tr>
<tr>
<td>2040</td>
<td>2%</td>
<td>50%</td>
</tr>
</tbody>
</table>

#### Water Demand (MGD) and Population (Millions)

- **1992**: 996 MGD
- **2016**: 8.3 Million

#### Water & Sewer Rate ($/100 gal)

- **1992**: $1.24 per 100 gal
- **2016**: $1.31

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*Note: The graph visualizes the trends in water demand, population, and water rates over time.*