2019 UPDATE:
WATER CONSERVATION PLAN & DROUGHT CONTINGENCY PLAN

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HOUSTON WATER
MAY 2, 2019
REQUIRED WATER CONSERVATION PLAN

– Texas Commission on Environmental Quality &
– Texas Water Development Board
– all cities with 3,300+ connections
– Texas Administrative Code Title 30, Chapter 288
REQUIRED WATER CONSERVATION PLAN

- update every 5 years
- 2009, 2014 and 2019
- specific content
- council approval
PLAN GOALS

– reduce water demand/consumption
– improve water-efficiency
– reduce water loss & water waste
– increase water reuse & recycling
– incorporate plan for drought
2019 WATER CONSERVATION PLAN - UPDATES

- customer use characteristics
- 5 & 10 year targets
- implementation plan
- tracking method
- water loss program
- public education programs
# Drought Contingency Plan - No Updates

<table>
<thead>
<tr>
<th>Stage</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>Goal Reduction</td>
<td>5%</td>
<td>10%</td>
<td>20%</td>
<td>35%</td>
</tr>
<tr>
<td>Participation</td>
<td>Voluntary</td>
<td>Mandatory</td>
<td>Mandatory</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Outdoor Watering Restriction</td>
<td>2x week</td>
<td>2x week</td>
<td>None allowed</td>
<td>None allowed</td>
</tr>
</tbody>
</table>
## 2018 HOUSTON RETAIL WATER CUSTOMERS

<table>
<thead>
<tr>
<th>CUSTOMER</th>
<th>CONNECTIONS</th>
<th>TOTAL USAGE (GALLONS PER YEAR)</th>
<th>AVERAGE USAGE (GALLONS PER DAY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>commercial-industrial-institutional</td>
<td>55,976</td>
<td>32.1B</td>
<td>88.0M</td>
</tr>
<tr>
<td>single family</td>
<td>415,228</td>
<td>26.0B</td>
<td>71.2M</td>
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<tr>
<td>multifamily</td>
<td>15,759</td>
<td>27.4B</td>
<td>75.0M</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>486,963</td>
<td>85.5B</td>
<td>234.2M</td>
</tr>
</tbody>
</table>
5 & 10 YEAR GOAL | 0.32% REDUCTION PER YEAR

- **2009**: 142 gallons per capita per day
- **2014**: 144 gallons per capita per day
- **2019**: 127 gallons per capita per day
- **2024**: 125 gallons per capita per day
- **2029**: 123 gallons per capita per day

- **actual 5-year average**
- **2014 goal**
- **2019 goal**
IMPLEMENTATION

Water Main Replacement Program
- CIP investment (2019-2023)
- $890M water transmission
- $110M water distribution

Water Loss Program
- more accurate metering practices
- improved record-keeping standards
- improved infrastructure

Consumption Awareness Program
- Automated Metering Infrastructure provides real time customer interface
- www.houstonwaterbills.houstontx.gov
TRACKING EFFECTIVENESS

Water Conservation Team
- expand the Water Conservation Program
- coordinate efforts with internal, local and regional stakeholders

American Water Works Association Benchmarking Tool
- compares Houston to other utilities

Water Conservation Dashboard
- for City and wholesalers
- identify real and hypothetical water savings
- future request for council approval
PUBLIC EDUCATION PROGRAMS

WaterWorks Education Center
- located at Northeast Water Purification Plant

School Education Program
- host Institution of Project WET curriculum
- certified more than 300 educators
- 25 school districts, 47 private schools, 8 colleges and 60+ home school students

Annual WaterWorks Festival
- 10,464 attendees (2014-2018)
SCHEDULE FOR ADOPTION OF PLANS

Council Adoption
June 12, 2019

Region H Notification
June 13, 2019

Texas Commission on Environmental Quality Submission
July 1, 2019

Texas Water Development Board Submission
July 1, 2019
Look for the e-blast announcement for the public comment period!

thank you!