Memorandum

DATE February 6, 2015

TO Honorable Members of the Quality of Life & Environment Committee: DWaine R. Caraway (Chair), Sandy Greyson (Vice-Chair), Rick Callahan, Carolyn R. Davis, Lee M. Kleinman, Adam Medrano

SUBJECT Dallas Water Utilities Water Conservation Program Update

Attached is a briefing that will be presented to the Quality of Life & Environment Committee on Monday, February 9, 2015. The briefing will provide an update on the status of current water conservation programs and topics under review for development of the 2015 Water Conservation Five-Year Strategic Plan Update, currently scheduled for final consideration in early June.

Please let me know if you should need additional information.

Mark McDaniell
Assistant City Manager

C: The Honorable Mayor and Members of the City Council
   A.C. Gonzalez, City Manager
   Warren M.S. Ernst, City Attorney
   Judge Daniel F. Solis, Administrative Judge
   Rosa A. Rios, City Secretary
   Craig D. Kinton, City Auditor
   Ryan S. Evans, First Assistant City Manager
   Eric D. Campbell, Assistant City Manager
   Jill A. Jordan, P.E., Assistant City Manager
   Joey Zapata, Assistant City Manager
   Jeanne Chipperfield, Chief Financial Officer
   Sana Syed, Public Information Officer
   Elsa Cantu, Assistant to the City Manager – Mayor and Council
   Jo M. (Jody) Puckett, P.E., Director of Dallas Water Utilities

“Dallas, the City that Works: Diverse, Vibrant and Progressive”
Briefing Purpose

- Provide an overview and update on:
  - Status of current water conservation programs
  - Topics under review for 2015 Water Conservation Five-Year Strategic Plan Update
Outline

- Water Conservation Program Background
- 2015 Water Conservation Five-Year Strategic Plan Update
- Summary and Timeline
- Appendix
Water Conservation Program
Background
Water Conservation Program Background

- The 2000 Long Range Water Supply Plan recommended that aggressive water conservation measure be implemented and funded to reduce per capita consumption (GPCD) and water demand

- In 2001 Water Conservation Ordinance passed to change behavior and to reduce peak usage

- In 2004, Dallas continued to pursue water conservation by:
  - Expanding public awareness campaign
  - Developing technical studies
  - Developing a Five-Year Strategic Plan on Water Conservation
Water Conservation
Five-Year Strategic Plan

- First Plan adopted by City Council in 2005
  - Defined goals for a five year period ending in FY 2009

- 2010 Strategic Plan Update adopted to:
  - Build on accomplishments of the original plan
  - Set new goals and programs for period ending in FY 2015
Strategic Approach to Achieve Water Conservation Goals

- Ordinance changes
- Programs to reshape behaviors
  - Public education and outreach
  - Rebate and incentive programs
- Programs impacting structural changes
  - Water loss/leak detection
  - Main replacement program
  - Toilet replacement programs
  - ICI and irrigation audit programs
Conservation Accomplishments

- Conservation measures adopted by the Council in Oct 2001 have been positive
  - Dallas has saved an estimated 250 BG of water (extending supply by almost 1.75 years)
  - GPCD has been reduced 27%
  - As a result, Dallas has been able to mitigate the impact of drought weather conditions on water supply

- Annual customer surveys from 2003 through 2014 indicate positive results:
  - Awareness of watering ordinance has increased from an average 60% to 76%
  - Customers reporting behavioral changes increased from an average 46% to 71%
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Water Conservation Program
Chronology and Trends

1980's
- Education and outreach only

2001
- Ordinance passed prohibiting landscape water waste

2005
- Water Conservation Five-Year Strategic Plan Adopted

2007
- Time-of-Day watering restrictions expanded

2010
- Five-Year Strategic Plan Updated

2012
- Landscape irrigation limited to a maximum of twice weekly

2015
- Five-Year Strategic Plan Updated

- Estimated Water Savings Since FY2001 – 250 Billion Gallons

Target GPCD
- 1%
- 1.5%

Estimated Water Savings *
GPCD With Conservation
2015 Water Conservation Five-Year Strategic Plan Update
Evolution of the Water Conservation Program

- With the success of water conservation programs over the past decade, the program has matured.

- 2015 Strategic Plan focus is to:
  - Maintain successes of prior programs
  - Evaluate effectiveness and life cycle of existing programs
  - Continue to develop and implement water conservation programs that will:
    - Reduce peak demands, water loss and waste
    - Decrease per capita water use
    - Maintain quality of life
    - Allow for continued growth and economic development
Topics Under Review for 2015 Strategic Plan

- Key Initiatives for additional conservation savings being evaluated include:
  - Landscape Ordinances
  - Focus on high-use retail customers
    - Addition of a multi-family retail rate class
  - Wholesale Customer Cities Outreach
  - Use of mobile technologies to impact customer behavior
  - Continuation and/or revision of existing programs includes:
    - Water system efficiencies
Landscape Ordinance Amendments

- In Spring 2015, Sustainable Development and Construction will work with the Zoning Ordinance Committee to review measures to strengthen current landscape and tree ordinance for both residential and commercial customers.

- Strategies to be reviewed for new and renovated landscapes include:
  - Limiting turf areas in all new landscapes
  - Define and require drought tolerant plants in new landscapes
  - Require a minimum of 6 to 8 inches of quality topsoil
  - Guidelines for operating ornamental water features
  - Incorporate rainwater harvesting in buildings and roof areas exceeding 10,000 square feet

- Require existing irrigated plant material to be mulched

- Incorporate water efficient landscape design in irrigation system plan submissions and train city reviewers.
Focus on High-Use Customers

- Multi-family customers use almost 25% of all billed retail water and have similar use patterns to single-family residential customers

- Detailed analysis of multi-family includes:
  - Evaluation of a separate multi-family customer rate class
  - Additional outreach working with Code’s Multi-Family Task Force

- Approximately 9% of commercial demands are from parks and golf courses

- Projects under evaluation for inclusion in the 2015 Plan include
  - Develop water budgets for customers modeled after Denver Water Program
  - City Hall Median Project
DWU’s Wholesale Customer Cities Outreach

- Wholesale treated water customers comprise approximately 40% of DWU’s total demand

- Wholesale Customer’s treated water contracts require:
  - “Customer agrees to institute and maintain usage practices which ensure water is used in a manner that prevents waste, conserves water resources for their most beneficial and vital uses, and protects the public health.”
  - Customers also agree to develop and implement water conservation and drought contingency plans and associated reports consistent with State requirements

- DWU will continue to work with wholesale customers to ensure contract compliance
  - Evaluate wholesale customer water conservation and drought plans
  - Establish and monitor metrics to measure water conservation goals based on:
    - water loss
    - water consumption
    - peak day demands
    - GPCD
Using Mobile Technologies to Impact Customer Behavior

- Enhanced utilization of AMR/AMI technology
  - Improves customer service by providing “real time” feedback on water usage
  - Helps customers conserve by identifying possible leaks on a timely basis
- Public education using mobile applications and increased internet customer engagement
  - Collaborative efforts with North Texas Commission (SPRINKLY) and Wyland Foundation WaterSmart Program
- Increased social media presence
Water System Efficiencies

- Well-run utilities maintain their infrastructure through proper levels of inspection, repair and replacement

- Three pronged effort to actively manage water distribution system
  - Leak detection
  - Main break and service repairs
  - Main replacement

- Accurate measurement of water delivered
  - Meter testing
  - Meter repair
  - Meter replacement
**Water System Management**

- DWU has 4,922 miles of water pipeline and over 300,000 meters
  - Pipeline replacement and maintenance is required for system reliability
  - Known system replacement need is approximately 309 miles or 6%

- Pipeline failures result in higher repair costs and significant potential customer impacts including:
  - Service interruption to schools, hospitals, homes and businesses
  - Traffic delays due to reconstruction
  - Potential public safety issues
    - Road damage, sinkholes, frozen streets, etc.
    - Possible additional impact on other utilities such as gas, electric, phones/internet, etc.
Reduce Water Loss through Inspection of Pipelines - Leak Detection

- **Benefits of program:**
  - Estimated to reduce main breaks by about 25%
  - Less impact to customers and environment
  - Reduces likelihood of personal injury or property damage that can occur from a failure
  - Reduced impact to paved roadways

- **2014 Accomplishments**
  - Leak Detection resulted in savings of 0.2 BG
  - An avoidance of approximately 1.0 BG from a reduction in main breaks
  - Annual operating cost of the program is about $2M resulting in a cost of $1.67 per 1,000 gallons (average cost of new water supply is $2.00 per 1,000)
Distribution System Main Replacement Program

- Main replacements are primarily driven by the business decision to continue to repair versus replacement.

- Recurring repairs result in additional water loss that could be avoided when the main is replaced.

- Projects are identified and prioritized based on maintenance history and not on an estimate of water loss savings.

- A 1% annual average replacement rate has resulted in a reduction of 0.06 breaks/mile each year with cumulative savings estimated to be 15 BG.
Estimated Impact of 1% Main Replacement Rate

Estimated Cumulative Water Loss of 29 BG

Cumulative Water Loss of 14 BG

Main Breaks/Mile
- Main Breaks/Mile
- Main Breaks/Mile w/out Replacements
- Linear (Main Breaks/Mile)
Main Replacement Goals and Accomplishments

Action Taken:
- Based on the 2002 Efficiency Study a goal was set to replace 50% of Water Distribution System in next 30 Years to achieve a 70 Year Replacement Cycle (averaging 1.4% per year)
- Pipelines are replaced based on parameters including: likelihood of failure, consequence of failure, water quality, materials, break frequency, soil, etc.
- FY 2014
  - 45.0 miles of water pipeline replaced at a cost of $42 Million
  - Average replacement rate of approximately 1.0% of System per year

Accomplishments:
- Since 2001 DWU has achieved the following:
  - Percent of system older than 50 years has been reduced from 48% to 42%
  - Main breaks per mile has decreased from 0.6 to 0.3
Meter Maintenance Program

- **Actions Taken**
  - Goal to replace meters every 10 to 15 years
  - Eight two-man crews work on large meters
  - 65 employees work on small meters

- **Accomplishments**
  - FY 2014 Accomplishments
    - 38,314 small meters were replaced in FY2014
    - Tested 1,663 large meters
      - Exceeds two-year test goal
    - A 60% increase in exchange volume
Summary and Timeline
Summary

- Water Conservation remains our most cost-effective water supply
  - Reuse and conservation are an integral part of Dallas’ future water supply planning scheduled to meet 48% of our future need

- Dallas has made great strides in reducing its per capita water demand through the use of conservation and efficiency programs
  - A 22% decrease in annual usage since FY 2002
  - Ongoing water conservation efforts have saved approximately 250 BG or 68 MGD

- Current water conservation goal is to reduce per capita water use by 1.5 percent per year

- 2015 Water Conservation Five-Year Strategic Plan Update will keep momentum going and set new goals for further reductions in per capita water use
2015 Water Conservation Five-Year Strategic Plan Update Timeline

**December 2014 - February 2015**
- Identification and screening of proposed new measures
- Seek stakeholder input/feedback

**March - April 2015**
- Determine annual water savings potential
- Develop budget and staffing requirements

**May 2015**
- Develop implementation schedule for FY 2016- FY 2020
- Develop new five year goal for annual reduction in GPCD

**June 2015**
- Council adopts 2015 Water Conservation Five-Year Strategic Plan Update
Appendix

- How DWU’s Water is Used
- Status of Conservation Strategic Plan Programs
- Lawn & Landscape and Green Building Ordinances
- Conservation Program Budget
- Public Awareness Annual Survey Results
- Pipeline Replacement Prioritization
- Per Capita Water Use from Texas 2012 State Water Plan
- Mobile Applications
How DWU’s Service Area Treated Water is Used

Average Annual Treated Water Use from FY 2011 – FY 2014

- Billed Retail (46.7%)
- Billed Wholesale (38.1%)
- Unbilled Authorized (5.6%)
- Unbilled Water Loss (9.6%)
How DWU’s Unbilled Treated Water is Categorized

Annual Average Unbilled Water Use from FY 2011 – FY 2014

- Unbilled Water Loss (63.9%)
- System Maintenance (Flushing, Meter Testing, and Sewer Cleaning) (17.6%)
- Treatment Plant Process Water (Bachman and Elm Fork) (9.8%)
- Main Breaks (3.4%)
- Maintenance on Storage Facilities (2.9%)
- Fires and Fire Training (2.3%)
- Unbilled Municipal Uses (0.04%)
How City of Dallas Retail Treated Water is Used

Annual Average Retail Treated Water Use from FY 2011 – FY 2014

- Residential Single-Family (39.8%)
- Multi-Family (25.3%)
- Commercial (25.6%)
- Industrial (7.4%)
- Municipal (1.9%)
How DWU’s Wholesale Treated Water is Used

Total Wholesale Treated Water Use for FY 2014

Carrollton 16%
Grand Prairie 14%
Irving 9%
Coppell 8%
Lewisville 7%
Farmers Branch 6%
Cedar Hill 6%
DeSoto 6%
Flower Mound 5%
Duncanville 4%
Addison 4%
Lancaster 4%
The Colony 3%
D/FW Airport 2%
Balch Springs 2%
Seagoville 1%
Glenn Heights 1%
Hutchins 1%
Red Oak 1%
Ovilla <1%
Cockrell Hill <1%
Combine WSC <1%
Status of Conservation Strategic Plan Programs
Maximum Twice Weekly Watering

- **Actions Taken**
  - 2010 Strategic Plan Update initially recommended as voluntary measure
  - Water Conservation ordinance amended in April 2012 requiring mandatory action due to drought conditions

- **Accomplishments**
  - Since implementation, water consumption is 5 to 6% lower
  - Non-watering days are 25 to 40 MGD or an average of 8% less than watering days

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Status of Conservation Strategic Plan Programs
ICI Water-efficient Equipment Rule

- **Action Taken**
  - Guidelines effective October 2013 with ordinance amendment to Dallas Green Construction Code

- **Accomplishments**
  - Ordinance requires minimum water efficiency standards for commercial equipment in new and newly occupied ICI establishments
  - Proposed projects must meet water reduction strategies that include
    - Installing high-efficiency (low flow) fixtures
    - Meet 3 of the 5 following criteria:
      - Average flow rates for lavatory faucets, shower heads, and/or toilets
      - And/or ENERGY STAR labeled dishwashers or clothes washers
Status of Conservation Strategic Plan Programs

Water-wise Landscape Design Requirements

- Measure developed to expand ordinance requirements to limit turf areas in all new landscapes and require low water-use landscaping in other areas.

- Actions Taken
  - DWU will be working with Sustainable Development and Construction Department on proposed ordinance amendment to Chapter 51 Article X-Landscape and Tree Preservation Regulations of Dallas City Code.

- Next Steps
  - Zoning Ordinance Committee (ZOC) currently reviewing ordinance amendment for urban agriculture.
  - ZOC is scheduled to begin review of Article X to include landscape, irrigation and trees.
  - It is anticipated ZOC and CPD review will take months given the complexity and nature of issues being considered.
Status of Conservation Strategic Plan Programs
Texas High Efficiency Toilet (HET) Law

- **Actions Taken**
  - 2009 Texas HB 2667 requires high-efficiency toilets in all new residential and commercial construction
  - Required that toilet and urinal retailers phase in HETs within four years starting in 2009

- **Accomplishments**
  - As of January 1, 2014, all toilets and urinals sold in Texas must be HETs
Status of Conservation Strategic Plan Programs

ICI Hospitality Program

- **Actions Taken**
  - Authorized by Council in FY2011
  - Participating hotels urge guests to request fewer linen and towel changes
  - Participating restaurants serve water by request only
  - Free marketing and promotional tools are provided to participating customers

- **Accomplishments**
  - Forty-six hotels and 36 restaurants currently participate in the program
Status of Conservation Strategic Plan Programs
ICI Customers Water Audits

- **Actions Taken**
  - Authorized by Council in FY 2012 to help commercial customers and small businesses save water and money
  - On-site evaluations include
    - Cooling towers, boilers and other thermodynamic operations
    - Plumbing fixtures, fittings and equipment
    - Landscape irrigation
    - Laundry operations
    - Laboratory and medical facilities

- **Accomplishments**
  - Over 100 water efficiency assessments have been performed since program launch
  - Recommended process and equipment improvements could result in estimated water savings of over 215 MG per year
Develop training programs for facility managers of premise types that use the most water and licensed irrigators with a focus on the EPA Water Sense program

Develop process for ongoing dialogue with business leaders who represent top water using industries with focus on new programs, what’s working, what’s not working

Both strategies are scheduled for implementation in FY 2015
Actions Taken

- “New Throne for Your Home” toilet program launched in FY 2007
- Offers free toilets and/or rebates to qualified residential and multi-family applicants
- Contract awarded in May 2014 to continue program through May 2019

Accomplishments

- To date, over 77,000 toilets have been distributed with an estimated water savings of over 350 MG per year
- Saturation point expected to be reached by FY 2023
Status of Conservation Strategic Plan Programs

ICI Financial Incentive Program

- **Actions Taken**
  - Program authorized by Council in FY 2012
  - Offers incentives to Industrial, Commercial and Institutional (ICI) customers for water efficient equipment installation and upgrades
  - To date, two rebate applications have been submitted

- **Program under evaluation for re-structuring as part of 2015 Strategic Plan Update**
  - Issues raised by ICI audit customers about current program structure
    - Rebates not enough to motivate customers to take action
    - Does not include project labor costs
    - Toilet rebate/voucher component needed for middle and small business customers
Public Awareness Campaign Results

- Creative partnership with Tarrant Regional Water District since 2009 has resulted in:
  - Dallas and Tarrant Counties share a message with one voice to conserve
  - Double the message coverage
  - Costs for creative development are shared by the two agencies

Water twice a week or less and you’re on the team
Join the team at SaveNorthTexasWater.com
Status of Conservation Strategic Plan Programs

Measures Not Implemented

- Residential Irrigation and Landscape Incentive Program to help customers retrofit existing irrigation systems with water-conserving equipment
- Residential Clothes Washer Rebate to help customers replace older clothes washers with high-efficiency clothes washers
Lawn & Landscape and Green Building Ordinances
Background - Ordinances

- Dallas currently operates under the 2006 International Plumbing Code (IPC) with adopted NTCOG and city amendments
- A primary objective of the 2006 IPC is to protect the potable water supply from contamination
- The use of gray water and other non-potable water is allowed with this primary consideration in mind
- 2006 IPC provides for the minimum code requirements for potable water fixture use
- Dallas code amendments allow for the use of water-efficient fixtures and non-potable water systems for reuse
Lawn and Landscape Watering Ordinance

- Requires that landscape irrigation water be used in a manner that prevents waste, conserves resources and protects public health and safety
  - Adopted in 2001 and amended in 2007 and 2012

- Major components of the ordinance include:
  - Mandatory maximum twice-per-week irrigation schedule
  - Irrigation prohibited between 10 a.m. and 6 p.m., from April 1 through October 31 of every year
  - Operation of irrigation systems with faulty pipes or systems with broken, misaligned or missing sprinkler heads is prohibited
  - Irrigation prohibited during any form of precipitation or when temperatures are below freezing
  - Rain and freeze sensors are required on all automatic irrigation systems
  - Excessive runoff resulting from overwatering is prohibited
  - Watering impervious areas such as sidewalks and streets is prohibited
The purpose of the Green Building Ordinance is to:

- Reduce the use of natural resources
- Create healthier and more sustainable living environments
- Minimize the negative environmental impacts of development in Dallas

Ordinance adopted in April 2008
Phase I became effective October 2009
Phase II became effective in September 2012
Green Building Ordinance – Phase I and II

- Phases I and II apply to all new construction
  - Phase I requires that
    - All projects must demonstrate a 20% reduction in water use from the baseline calculated for the total water fixtures determined under the 2006 IPC
    - 20% water reduction may be met by compliance with Greenbuilt Texas, LEED or LEED equivalent acceptable methods
  - Phase II strengthens the water conservation requirements of Phase I, including but not limited to
    - The utilization of drip irrigation emitters for all bedding areas
    - Meeting water reduction strategies that include installing high efficiency (low-flow) plumbing fixtures and fittings
# Water Conservation Five-Year Strategic Plan

## Budget Summary (FY 2011 - FY 2015)

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<td><strong>New Throne for Your Home</strong></td>
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<td>$1,217,220</td>
<td>$1,217,820</td>
<td>$1,376,000</td>
<td>$1,376,000</td>
</tr>
<tr>
<td><strong>Residential Irrigation/Landscape Rebates</strong></td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$250,000</td>
<td>$250,000</td>
</tr>
<tr>
<td><strong>ICI Customer Water Audits</strong></td>
<td>$0</td>
<td>$148,462</td>
<td>$148,462</td>
<td>$148,462</td>
<td>$148,462</td>
</tr>
<tr>
<td><strong>ICI Training Programs</strong></td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$25,000</td>
</tr>
<tr>
<td><strong>ICI Hospitality Program</strong></td>
<td>$110,000</td>
<td>$110,000</td>
<td>$110,000</td>
<td>$110,000</td>
<td>$110,000</td>
</tr>
<tr>
<td><strong>ICI Rebate Program</strong></td>
<td>$695,000</td>
<td>$2,000,000</td>
<td>$2,000,000</td>
<td>$1,555,000</td>
<td>$1,555,000</td>
</tr>
<tr>
<td><strong>City Leadership Grant Program</strong></td>
<td>$195,000</td>
<td>$195,000</td>
<td>$195,000</td>
<td>$195,000</td>
<td>$195,000</td>
</tr>
<tr>
<td><strong>Approved Budget</strong></td>
<td>$5,391,708</td>
<td>$6,607,759</td>
<td>$6,799,485</td>
<td>$6,839,839</td>
<td>$6,655,785</td>
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</tbody>
</table>
Ordinance Awareness vs. Water Use

[Graph showing the comparison between Ordinance Awareness and Water Use (April-October) from FY2003 to FY2014]
Behavioral Changes vs. Water Use

Behavioral Changes vs. Water Use (April-October)


Billion Gallons

50 55 60 65 70 75

5% 10% 20% 30% 40% 50% 60% 70% 80% 90%
Pipeline Replacement Prioritization Based on Repair History

- **Break Index Calculation**

\[
\text{Break Index} = \left( \frac{\text{Number of repairs}}{\frac{\text{length of pipe segment}}{1,000}} \right) \times \left( \text{Years since first recorded repair} \right)
\]

- **Prioritization**

<table>
<thead>
<tr>
<th>Priority*</th>
<th>Break Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.0+</td>
</tr>
<tr>
<td>2</td>
<td>2 to 1.5</td>
</tr>
<tr>
<td>3</td>
<td>1.5 to 1.0</td>
</tr>
<tr>
<td>4</td>
<td>1.0 to 0.75</td>
</tr>
<tr>
<td>5</td>
<td>0.75 to 0.4</td>
</tr>
</tbody>
</table>

*Priority 1 = Most urgent need of replacement

- **Other Factors Considered in Prioritization**
  - Water quality issues
  - Potential property damage
  - Impact to customer service
  - Other projects in the area
  - Soil corrosivity
  - Type of thoroughfare
  - System improvement (capacity)
  - Size, age and type of pipe
  - Impact to other utilities
  - Difficulty of access for maintenance
## Per Capital Water Use

- Excerpts from Texas 2012 State Water Plan’s Population and Water Demand Projections

<table>
<thead>
<tr>
<th>City</th>
<th>2008 Per Capita Use</th>
<th>2008 Residential Per Capita Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frisco</td>
<td>254</td>
<td>158</td>
</tr>
<tr>
<td>Plano</td>
<td>223</td>
<td>113</td>
</tr>
<tr>
<td>Dallas</td>
<td>213</td>
<td>95</td>
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<tr>
<td>Irving</td>
<td>193</td>
<td>104</td>
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<tr>
<td>Fort Worth</td>
<td>192</td>
<td>75</td>
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<tr>
<td>Austin</td>
<td>171</td>
<td>102</td>
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<tr>
<td>Arlington</td>
<td>157</td>
<td>100</td>
</tr>
<tr>
<td>San Antonio</td>
<td>149</td>
<td>92</td>
</tr>
<tr>
<td>El Paso</td>
<td>137</td>
<td>98</td>
</tr>
<tr>
<td>Houston</td>
<td>134</td>
<td>65</td>
</tr>
</tbody>
</table>
Mobile Applications

- **SPRINKLY**
  - Created from North Texas Commission’s App Contest held last summer
    - Contest was held last summer to develop water conservation outreach application
  - App can be used on Smartphones, tablets and computers
    - Will allow users to set up email reminders for their watering days and times based on zip code
    - Smart alerts will inform users of rain forecasts
  - App is scheduled to be available in Spring 2015

- **Water Smart Software**
  - City received as prize for winning 2014 National Mayor’s Challenge for Water Conservation
    - Currently under review as a pilot project
    - Customers receive customized email reports with tips and data on their individual water usage