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CASE STUDIES

At Water Management Inc., we measure success by how your business implements our conservation and efficiency solutions. To find out how other organizations have improved their business operations and reduced their utility costs with our help, read the case studies below (organized by sector/business unit).

- Commercial Offices, Schools / Universities
- Public Housing
- Prisons
- Municipality
- Multi-Family Residential
- Irrigation and Sustainability Projects

Commercial Offices, Schools / Universities

Tulsa Community College Water Management designed and implemented a variety of measures for the College to include: Sustainability initiatives including rain gardens, rainwater harvesting, and solar thermal measures, non-domestic kitchen equipment optimization including the installation of high efficiency dishwashers, ice machines, and pre-rinse sprayers, cooling tower sub-metering, and domestic fixture replacement/retrofits with low flow fixtures.

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Chicago Oases Tollways Water Management was contracted to complete a domestic plumbing retrofit program at seven Oases Illinois toll ways throughout Chicago, IL. The restrooms at the toll ways service roughly 30,000 visitors every day and account for over 48 million gallons in annual water use. 273 toilets and 105 urinals were converted to low flush and replaced sensor valves with manual flush valves. The result was a savings in excess of 50%. The actual savings significantly exceeded the calculated savings.

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Texas Wesleyan University Water Management completed water use assessment of campus grounds. The evaluation process included an investment grade audit of all water using equipment and processes, measurements of water consumption used by the existing equipment, analysis of historical water use, and knowledge of facility demographics.

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Hershey Medical Center Water Management completed water use assessment of the medical facility's grounds. Upon completion of an investment grade audit, Water Management concluded that on average, 20% of the steam traps were malfunctioning. This meant that 829 steam traps in the facility would benefit from the steam trap replacement program.

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Museum of Modern Art Water Management completed water use assessment of the Museum. The evaluation process included an investment grade audit of all water using equipment and processes, measurements of water consumption used by the existing equipment, analysis of historical water use, and knowledge of facility demographics. Water Management recommended an innovative approach to ground water reuse.

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Fort Worth Zoo Water Management completed water use assessment of zoo grounds. Many innovative water reuse options were recommended by Water Management staff. In addition, irrigation system retrofits were suggested to account for millions of gallons of potentially saved water.

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Baltimore County Public Schools Water Management was responsible for the replacement or retrofitting of the existing mechanical steam traps at BCPSS with engineered venturi nozzle condensate removal devices to reduce boiler consumption and maintenance requirements within the facility. After program implementation and correction of the traps, the savings accounted for was approximately \$100,000 per year.

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Prince George's Public Schools Water Management's reputation as a leading water conservation company led Johnson Controls to subcontract Water Management to find and implement unique ways to decrease their client's utility expenses through a two-phase steam system optimization program. Their client, Prince George's Public Schools (PGPS) in Maryland, had a total of 2,706 steam traps throughout 38 buildings.

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George Mason University Water Management identified many domestic and innovative non-domestic ways to reduce water consumption which led to several performance contracts at three of the universities campuses located in Arlington, Fairfax and Manassas Virginia.

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George Mason Child Development Center Water Management donated a 1,000 gallons rainwater harvesting system to GMU Child Development Center to collect rain off of their 4,000 square foot roof space. The collected water will be used to irrigate a garden that the children take care of.

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Southern Nevada School District Water Management was tasked with replacing outdated and inefficient plumbing fixtures (toilets, aerators, showerheads) were replaced with HET WaterSense approved fixtures. Water Management saved the school district approximately 11,324,769 gallons per year, which resulted in an annual savings of \$52,774.00.

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Bass Hall Water Management completed a comprehensive audit and identified many ways to reduce water consumption at the Performing Arts Center in Fort Worth, TX (also known as Bass Hall) that were later implemented to greatly reduce water consumption. The above mentioned resulted in a 881,000 gallons per year water savings or roughly 1,762,000 gallons since the changes were implemented two years ago.

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Westin Alexandria Water Management was hired to complete the Westin Alexandria's Kohler Heavenly Shower installations. Water Management had completed installations for 313 units at the hotel at a rate of 20 per day per two-man crews.

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Westin Arlington Water Management auditors examined the hotel's cooling towers, condenser loops, chillers, make-up water system, chemical treatment system and related pumps to determine the cause of the water hammer.

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Lisner Nursing Home Water Management was tasked with installing new 1.6 gpf ADA-height powerflush toilets, showerheads, and flow controls on the faucets through out the property. Various kitchen measures were also implemented, including a retrofit of pre-rinse sprayers and steamer replacement. The measures that were implemented cut water consumption in half.

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First Command Water Management identified through an audit many ways to reduce water consumption that were later implemented to greatly reduce water consumption that resulted in over a one-million gallon per year water savings since the changes were implemented last year.

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Frenchman's Reef Marriott Resort Water Management installed a fixed network meter reading system at The Frenchman's Reef Marriott Resort. The system is designed to strategically collect meter reading data and operated in conjunction with a handheld reading system as a hybrid automated meter reading solution. This allows the resort to monitor its usage on a daily basis and respond to issues in a cost efficient manner.

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Lockheed Martin Aeronautics in Fort Worth, TX is a multi-functional industrial facility that sits on 270-acres. The primary water using features that were modified following the audit in 2011 were those which could provide a large savings opportunity at the lowest cost. The audit offered ways to save 36 million gallons per year water savings or roughly 72 million gallons since the changes was implemented two years ago.

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1818 N Street Water Management was tasked with completing valve replacements on existing toilets, installing a number of new ADA toilets with piston valves, and replacing urinal piston valves. The average simple payback of implementing these measures was 1.08 years which cut the property's water bill in half.

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Thomas Jefferson University Hospital Water Management was hired to find unique ways to decrease the annual water expense. Aside from domestic water use reduction, the primary non-domestic features focused on were the sterilizers which could provide a unique alternate water reuse with a large savings opportunity.

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Public Housing

Norwalk Housing Authority Water Management replaced all of the toilets, updated the flow controls on faucets, and installed high efficiency showerheads within the Norwalk Housing Authority. The Authority is within the City of Norwalk, Connecticut and manages 1,133 units of family and senior housing in 18 developments.

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Minneapolis Public Housing Water Management was hired to replace all toilets with Caroma dual flush 0.81/2.0 gpf water closets, and retrofit showerheads and aerators for 5,383 units throughout downtown Minneapolis. In addition, to the installation of new equipment, extensive leak detection was completed at each apartment building.

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Prisons

Elkton Federal Correctional Facility Water Management was brought in by the Federal Correctional Institute in Elkton, Ohio to investigate a significant increase in the sewer bills received by FCI, Elkton from their fiscal year, 2004. The increase coincided with a change in the sewer monitoring equipment, changed out by Columbiana County in late 2003. Learn about the strategy implemented to remove this cost for the Prison.

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Municipality

Anderson County Officials in Anderson County, Tennessee were looking for innovative, sustainable measures to reduce their energy and water consumption while continuing to provide residents with a high quality of service. Water Management partnered with Johnson Controls to provide the County with a comprehensive water and energy project

City of Honolulu Water Management's reputation as a leading water conservation company led the City to subcontract Water Management to find unique ways to decrease the annual water expense of several government buildings. Water Management proposed sub-metering the city's cooling tower supply and blow-down lines, allowing them to

which would not only increase operational efficiency and sustainability, but also have a minimal payback period.

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Multi-Family Residential

The Plaza Towers Case Study In March of 2019, The Donaldson Group purchased the property and partnered with Water Management to implement a water efficiency program. The program consisted of replacing 377 existing toilets with 1.28 gallons per flush (gpf) high efficiency toilets and installing low-flow showerheads and faucet aerators.

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Harding Place Condos Harding Place, a 106-unit condominium complex in Nashville, TN, hired Water Management to implement a water conservation program that included replacement of all their existing toilet fixtures. As a result, residents realized a significant drop in their water and sewer bills.

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Colonial Village Apartments In November 2009 a request was made by Water Management on behalf of Colonial Village apartments to Washington Gas to upgrade the existing gas meters on the property for their 27 garden style apartment buildings to handle an increased load. After decentralizing the hot water for the 27 buildings at Colonial Village Apartments it became clear that significant savings in gas were achieved.

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Villages of Parkland Water Management staff was tasked with installing new Sloan Flushmate IV (1.28 gpf) pressure flush vessels or replacing old PF2s with Flushmates, new 1.75 gpm showerheads, new 1.5 gpm Kitchen sink faucet aerators, new 1.0 gpm Bathroom sink faucet aerators in all units on the Property.

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Hawthorne Hall Water Management was tasked with installing new 1.6 gpf gravity tank toilets which reduced the average daily consumption (ADC) from 262 gallons per unit per day to 93 gallons per unit per day.

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Irrigation and Sustainability Projects

1841 Columbia Road Apartments Green Roof Water Management to install a new Live Roof green roof system at the 1841 Columbia Road Apartments in Northwest Washington, DC. The new roof will be used to absorb and store more than 5,000 gallons of stormwater each time it rains.

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Ben Altamirano Ball Fields Water Management was tasked with installing a new "Smart Irrigation" system at the Ben Altamirano Ball Fields. Water usage was reduced by a total of 57% after program implementation.

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eliminate the sewer charge on water lost to drift and evaporation. This reduced the charge for tower water from \$10.10 to \$2.36 per thousand gallons – a considerable savings.

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Pacific Beacon Case Study Water Management designed and implemented a variety of measures for the College to include: Sustainability initiatives including rain gardens, rainwater harvesting, and solar thermal measures, non-domestic kitchen equipment optimization including the installation of high efficiency dishwashers, ice machines, and pre-rinse sprayers, cooling tower sub-metering, and domestic fixture replacement/retrofits with low flow fixtures.

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Brookside Park Condos At Brookside Park Condos it was clear that installing AMR submeters for each garden-style building would provide an immediate benefit. Water Management installed meters at a nominal cost, but they have since provided 100% water accountability, full audit control, and the data has since been used to decrease the sewer charges from the City.

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Emerson House Water Management was tasked with installing new toilets, aerators, and showerheads. In addition, all old seals were replaced with a higher quality product to prevent leaks. These conservation measures dropped the consumption from an average daily consumption of 122 gallons per day to an average daily consumption of 53 gallons per unit per day which result in an annual savings of over \$50,000.

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Chelsea Square Water Management was tasked with installing new 1.28 gpf Sloan Flushmate powerflush toilets, showerheads, and flow controls on the faucets which reduced the average daily consumption (ADC) from 273 gallons per unit per day to 144 gallons per unit per day.

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Gaines Investment Trust provides housing for residents nationwide. As part of its efforts to control costs and conserve water for their residents, they hired Water Management to implement water efficiency upgrades at a handful of their properties located in Tucson, Arizona.

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Capital Area Food Bank Rainwater Harvesting System The Capital Food Bank in Washington, DC hired Water Management to decrease their annual garden watering expenses. In total, the rainwater harvesting measure will offset approximately 69.8% of the total irrigation demand annually.

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