

Signature

3C Business Challenge Application



To find out about opportunities to reduce your water and wastewater bills – and how Austin Water rebates could help pay for more water efficient equipment and fixtures – simply fill out this form and attached self-assessment and submit to Austin Water. This form and assessment should be filled out by a facilities manager or someone familiar with the equipment and maintenance of the building(s). For questions in regards to filling out this form, please contact **512-974-2199**.

the ballanig(s). For questions if reg	ards to filling out this form, picase contact 312 374 2133.		
Тур	e of Business:		
Business Address: Business Phone Number:			
ne Number:			
erson filling out the form:			
-	er number(s):		
	Part Time:		
Number of Visitors (average) per v	veek:		
rers that apply to your business:			
Does your b	usiness		
Directly	Directly pay the water bill		
have a w	rater bill paid by a third party		
ns to move don't kn	ow		
Who is respo	nsible for the maintenance and repairs in the building?		
•			
a contra	a contractor with a service agreement		
in-house	maintenance staff		
we call o	lifferent companies for specific needs		
other (ex	rplain)		
ke adjustments to existing water using e fixtures and water using equipment are of equipment to more efficient models o nd submitting them to Austin Water will in Green Business Leader. The informati	and submit the completed form and checklist; equipment so that they are operating efficiently and without in compliance with existing codes and ordinances; and 4) using AWU rebate opportunities OR 5) successfully participate show your commitment to reducing your water use and will on you provide will be used to help you work with Austin Water ou to fill this out with as much accuracy as possible. Once you		
	Typ Bus Met Syp Full Time: Number of Visitors (average) per v Typ Bus Full Time: Number of Visitors (average) per v Typ Bus Typ Bus		

Title

Date

Printed Name



3C Business Challenge Checklist



Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/or rebate opportunity.
	Plumbing Fixtures		
	High Efficiency Toilets		
	Tank Type Single flush = or <1.28 gpf Dual Flush = or <1.1/1.28 gpf	City Code requires new or replacement toilets on or after October 1, 2010 to use no more than 1.28 gpf. WaterSense labeled tank type toilets listed at this site: www.epa.gov/watersense/	
	Flushometer bowl and valve toilets = or <1.28gpf	City Code requires new or replacement toilets on or after October 1, 2010 to use no more than 1.28 gpf.	
		Information on High Efficiency Toilet (HET) Flushometers can be found at: www.map-testing.com/assets/files/2012-08-01-Flushometer%20HETs.pdf	
	Urinals = or < 0.5 gpf	City Code requires new or replacement urinals on or after October 1, 2010 to use no more than 0.5 gpf. WaterSense labeled urinals are listed at this site: www.epa.gov/watersense/	
	Waterless Urinals	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation Page 7 of the following linked document has a list of waterless urinals: www.map-testing.com/assets/files/2012-08-20-High-efficiency-urinals.pdf Waterless urinals must have a liquid trap seal and meet code requirements	
	Lavatory Faucets (Restrooms)		
	Faucet aerators 0.5gpm	Public bathroom faucet aerators must not use more than 0.5 gpm	
	Lavatory Faucets (Locker Rooms)		
	Faucet aerators 1.0 gpm		
	Flow Restrictors 2.0 gpm		

Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/or rebate opportunity.
	Office Break Rooms/ Kitchen Faucets		
	Faucet aerators 1.0 gpm		
	Flow Restrictors 2.0 gpm		

Food Service		
Equipment		
Food prep/Dishwashing Faucets		
Kitchen faucet aerators 1.5 gpm		
Foot Pedal Controls	Austin Water provides a \$100 rebate for a kitchen sink faucet foot pedal control. www.austintexas.gov/page/commercial-kitchen	
Bathroom Faucet aerators 0.5 gpm	Austin Water provides free 0.5 gpm aerators, subject to availability.	
Flow restrictors 2.0 gpm		
Pre-rinse spray valves ≤ 1.28 gpm	Effective Jan. 1, 2008, all PRSVs may not use more than 1.6 gpm. Austin Water provides a \$40 rebate for a PRSV using 1.28 gpm or less. www.austintexas.gov/page/commercial-kitchen	
Dishwashers (Specs by machine type)	EPA ENERGY STAR qualified dishwashers and other products may be found at: www.energystar.gov/	
EPA ENERGY STAR qualified products.	AWU rebate available for recommended equipment: www.austintexas.gov/page/commercial-kitchen	
Ice Machines: Use air cooled machines and air-cooled nugget or flake continuous machines that use only 12 gal/100 lbs or 13.2 gal/100 lbs with residual water. For all others, not more than 20 gal./100 lbs.	Effective October 1, 2010, commercial ice machines must be air cooled or if water cooled, must use recirculating water. An EPA ENERGY STAR list of qualified ice makers can be found at: www.energystar.gov/	
Ice Making Head: Use air cooled machines and air-cooled nugget or flake continuous machines that use only 12 gal/100 lbs or 13.2 gal/100 lbs with residual water. For all others, not more than 20 gal./100 lbs.		

Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/ or rebate opportunity.
	Remote Condensing Unit: Use air cooled machines and air-cooled nugget or flake continuous machines that use only 12 gal/100 lbs or 13.2 gal/100 lbs with residual water. For all others, not more than 20 gal./100 lbs.	AWU rebate available for recommended equipment: www.austintexas.gov/page/bucks-business	
	Self-contained Condensing Unit: Must be air cooled and use not more than 30 gallons/100 lbs.		
	Boilerless or Connectionless Steamer (with no water supply connection) < 2.0 gallons per hour per tray.	AWU rebate available for recommended equipment: www.austintexas.gov/page/commercial-kitchen An EPA ENERGY STAR list of qualified steamers can be found at: www.energystar.gov A list of qualifying boilerless steamer models are available: www.cee1.org/	
	Refrigeration: Condenser cooling using air-cooled or closed looped. No single pass cooling		
	Combination oven <3.5 gph in any mode	AWU rebate available for recommended equipment: www.austintexas.gov/page/commercial-kitchen	
	Commercial Food Waste Composter	Commercial garbage disposals are prohibited, effective 1/1/08.	

Laundry Equipment		
Commercial Clothes Washers ≤4.5 gallons per cubic foot of laundry (WF) Water Factor (number of gallons needed for each cubic foot of laundry). A lower number indicates lower consumption and more efficient use of water. There are both coin operated washers and non-coin operated washers that qualify.	A list of coin operated CEE rated Tier washers are available at: www.cee1.org/ A list of non-coin-operated CEE rated Tier washers are available at: www.cee1.org/	
Ozone or Reverse Osmosis (RO) Treatment Laundry Systems	AWU rebate available for ozone treatment and RO laundry systems: www.austintexas.gov/page/bucks-business	

Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications Cooling Towers	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/ or rebate opportunity.
	Cooling towers Cooling tower water efficiency measures that achieve greater than 5 cycles of concentration.	AWU rebate available for water efficiency equipment that exceed city code requirements: www.austintexas.gov/page/bucks-business For towers installed or replaced after December 31, 2007, cooling tower blowdown must be reduced to a minimum of every five cycles by adjusting/maintaining cooling tower blowdown rate to total dissolved solids at manufacturer's recommended levels. In addition, these cooling towers must have approved makeup and blowdown submeters, conductivity controllers, overflow alarms, and drift eliminators.	
	Process Water Use		
	Process Flow Reduction and Reuse Equipment	AWU rebate available for recommended equipment: www.austintexas.gov/page/bucks-business	
	Process water use metering of flow to individual equipment and processes within a facility	Internal metering of flows is needed to meet consumption monitoring requirement of significant uses within a facility	
	Submetering		
	Irrigation Submeters should meet 2012 IAPMO Green Plumbing Code requirements.	The irrigation system has its own meter separate from the meter supplying indoor water in order to better measure irrigation use and identify leaks and other water saving opportunities. Credit on your wastewater bill may be provided for submetered irrigation water use.	
	Multi-family and multi- purpose facilities submeters for each tenant or building and used for billing. Each tenant in the strip mall has their own submeter or a business with more than one building has a submeter on each building	Effective January 1, 2008, submeters are required for all new Multi-Family and Mixed-Purpose Facilities.	
	Rainwater and AC Condensate Harvesting Systems		
	Install a rainwater harvesting system and use it separately or in conjunction with A/C condensate to meet non-potable water demands.	AWU rebate available for recommended equipment: www.austintexas.gov/page/bucks-business www.austintexas.gov/department/rainwater-harvesting-rebates	

Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/ or rebate opportunity.
	Install an Air Conditioning Condensate Collection System to use condensate in lieu of potable water	Effective October 2010, new large commercial properties are required to reuse A/C condensate. AWU rebate available for recommended equipment: www.austintexas.gov/page/bucks-business	
	Automatic Irrigation Systems		
	System design standards	Effective Jan 1, 2008 all new commercial irrigation systems must have pop up spray heads and rotors at least 6 inches from impervious areas; a master valve, weather based controller, low water use turf grass species.	
	Landscaping	Effective Jan 1, 2008 all new commercial properties must have a minimum soil depth of 6 inches and low water use turf grass species.	
	Perform periodic evaluations	Beginning in 2013, commercial and multi-family facilities over one acre must have an audit of their automatic irrigation system every two years by a certified inspector. www.austintexas.gov/department/commercial-facility-assessments	
	Install a pressure reduction valve if psi is greater than 65 psi.	Effective January 1, 2008, a pressure reduction valve is required where psi is over 80 to ensure that indoor and outdoor fixtures and equipment are working at optimum levels and not wasting water.	
	Commercial Car Washes		
Many of the recommendations below are based on the National Car Wash Association's certification program called WaterSavers®. This program meets or exceeds the City of Austin requirements for passenger vehicle car washes except for conveyor systems.		Beginning in 2014, a commercial car wash facility is required to perform equipment efficiency evaluations and meet the equipment efficiency standards listed below in this column. More information can be found at: www.austintexas.gov/page/commercial-vehicle-wash-facility-efficiency-assessments	
In-bay, hand-held spray wash equipment, including a spray wand or foaming brush, does not use more than 3.0 gallons of water a minute and has a trigger shutoff and protective weep.		Portable pressure wash equipment must have a spray nozzle with a positive shut off and protective weep mechanism and shall not use more than the following: a) 3.0 gallons of water a minute for passenger vehicles including automobiles, delivery vans and buses; or b) 5.0 gallons of water a minute for commercial equipment vehicles such as front-end loaders, dump trucks, earth movers or other similar equipment.	

Based on recommendation or code requirement, check here if current equipment or fixture should be replaced or upgraded.	Recommended Equipment/ Device Specifications	Comments and Links	Check here if you are interested in being contacted by AWU staff about this conservation measure and/or rebate opportunity.
	A conveyor or drive through friction system does not use more than 35 gallons for each vehicle.	A conveyor or drive through friction system must not use more than 35 gallons for each vehicle.	
	A conveyor or drive through touchless system does not use more than 35 gallons for each vehicle.	A conveyor or drive through touchless system must not use more than 35 gallons for each vehicle.	
	An in-bay automatic system does not use more than 75 gallons/vehicle for buses and other similar large vehicles.	An in-bay automatic system must not use more than 75 gallons/vehicle for buses and other similar large vehicles.	
	An in-bay automatic rollover system does not use more than 40 gallons for each vehicle.	An in-bay automatic rollover system must not use more than 45 gallons for each vehicle.	
	Each chamois sink has a positive shutoff valve.	Each chamois sink must have a positive shutoff valve.	
	A system using reverse osmosis rinse water must reclaim and reuse reject water.	A system using reverse osmosis rinse water must reclaim and reuse reject water	
	Reclaimed Water Use		
	Reclaimed water use for: flushing; surface & subsurface irrigation; cooling tower make-up; water features; fire suppression; trap priming; fluid coolers; on-site water reuse make-up, or other non- potable water uses.	Availability, price and service application for reclaimed water (AWU treated wastewater) as an alternative to the use of potable water for cooling tower purposes: www.austintexas.gov/department/water-reclamation	

Appendix

A) Rest rooms: How to find model numbers and flow rates

- 1) Toilet-GPF can be measured in a toilet tank = (Height (of water line) x Length (of tank) x Width (of tank) divided by 231
- 2) Tank Type and Flush Valve Toilets-Check behind the seat of the bowl for GPF
- 3) Showerheads and Faucets or Aerators-GPM can be located on the side Model numbers can be found:
- 1) On spec sheets
- 2) Urinals- on top or on side
- 3) Flush valve toilets-under the toilet or on side of toilet

B) Kitchen: How to find models numbers and flow rates

- 1) Dishwasher-can be found inside, behind, or just inside the door near seal
- 2) Ice Makers-on the side, or behind it (high or low) or just inside the door or near the seal
- 3) Pre-Rinse Spray Valve- should be on the valve itself, either on the handle or on the face or on the edge of the face (some may not contain a make and model but possibly a name and a flow rate *gpm)

C) Clothes Washer: How to find model numbers

- 1) Clothes washers (coin operated or non-coin operated)-on the back or the side, could be on the panel facing forward, can be located just inside the door, either on the door or on the body near the seal.
- 2) Continuous Batch washers-these large systems probably requires contacting the person in charge of them to find model numbers.

D) City of Austin codes and ordinances can be found at: www.austintexas.gov/resident/city-code

Please save this file to your computer. Upon completion, print and mail, fax or email to:

AWU Water Conservation P.O. Box 1088 Austin, TX 78767 or FAX to (512) 974-6548 or Email to watercon@austintexas.gov

3C Business Challenge

Indoor Conservation

Restrooms/Locker Rooms – Page 1 Kitchen/Cafeteria – Page 2 Laundromats/Laundry Facilities – Page 3

Outdoor Conservation

Cooling Towers and Swimming Pools – Page 4
Automatic Irrigation System – Page 5
Alternative Outdoor Reuse – Page 6
Landscaping and Outdoor Maintenance – Page 7
Car Washes – Page 8
Appendix - Methods for Calculating Water Use – Page 9

Please complete the following. Please fill out this form for each building.

INDOOR CONSERVATION

Restrooms/Locker Rooms

Туре	How Many? *indicate NA if not applicable	Make	Model Name and Number	Additional Model Numbers	Flow Rate
Flush Valve Toilets					GPF*
Tank Type Toilets					GPF*
Urinals					GPF*
Faucet Aerators					GPM*
Showerheads					GPM*
Other					

^{*}GPM- Gallons per minute *GPF-Gallons per flush *See Appendix A for help with finding model numbers and flow rates

Are any retrofits or plumbing device replacements planned f	or the restrooms?	Describe:
Are there any leaks in the restrooms/locker rooms?	Please explain:	
DO NOT WRITE IN CRAY AREA RELOW THIS AR	EA IS EOD CITY NOT	EC THANK VOH
DO NOT WRITE IN GRAY AREA BELOW, THIS AR	EA IS FUR CITY NUT.	ES. THANK YOU.

Kitchen/Cafeteria

Туре	How Many? *indicate NA if not applicable	Make	Model name and Number	Additional Model Numbers	*GPM (Pre-rinse valves or faucets)
Dishwasher					
Ice Machine					
Pre-Rinse Valves *					
Faucets *					
Steam Cooker					
Other					

Other					
*GPM- Gallons per minute (c	applies to pre-rinse	valves and faucets). *See A	ppendix B for help finding i	model numbers and	l flow rates.
Are any retrofits or plu				Describe:	
Are there any leaks in t	the kitchen or c	afeteria?	Please explain:		
DO NOT WRITE IN	GRAY AREA	A BELOW, THIS A	REA IS FOR CITY	NOTES. TH	ANK YOU.

Laundromats/Laundry Facilities

Туре	How Many? *indicate NA if not applicable	Make	Model Name and Number*	Additional Model Numbers*	Coin Op (yes/no)
Clothes Washers					
Continuous Batch Washers					

Describe:

Are any retrofits planned for the Laundromat or laundry facilities?

Are there any leaks in the Laundromat or laundry facilities?	Please explain:
DO NOT WRITE IN CRAY AREA RELOW THIS AREA IS EOD C	ITV NOTES THANK VOI
DO NOT WRITE IN GRAY AREA BELOW, THIS AREA IS FOR C	ITT NOTES. THANK YOU.

^{*}See appendix C for help finding model numbers.

Cooling Towers and Swimming Pools

Type	How Many? *indicate NA if not applicable	Capacity or size	Additional Information	Months in operation	Managed by (describe)
Cooling Tower			# cycles of concentration:		
Swimming Pool			Indoor		
			Outdoor		
Outdoor			Recirculating: Y N		
Fountains *add additional lines					
Describe:	or plumbing a	evice replac	ements planned within the	next year for the pool or	cooming syste
Are there any lea	ks in the cooli	ng system (or swimming pool?	Please explain:	

DO NOT WRITE IN GRAY AREA BELOW, THIS AREA IS FOR CITY NOTES. THANK YOU.

OUTDOOR CONSERVATION

Automatic Irrigation System

Туре	# of Controllers	# of Zones	Rain Sensor (yes/no)	Managed by staff, contractor? (describe):
ET Weather-based controller(s)				
Standard Programmable controller(s)				

^{*}additional building can be inserted on another sheet.

Are any retrofits or plumbing device replacements planned within the next year for the irrigation system?
Describe:
Are there any leaks in the irrigation system? Please explain:
DO NOT WRITE IN GRAY AREA BELOW, THIS AREA IS FOR CITY NOTES. THANK YOU.
DO NOT WRITE IN GRAT AREA BELOW, THIS AREA IS FOR CITT NOTES. THANK TOC.

Alternative Outdoor Reuse

Type	Used for Irrigation? (Check all that apply)	Primary source of outdoor irrigation? (yes/no/not applicable)
Groundwater		
Stormwater Reuse		
Reclaimed Water		
Rainwater Harvesting		
Graywater		
Other		

^{*}additional building can be inserted on another sheet.

DO NOT WRITE IN GRAY AREA BELOW, THIS AREA IS FOR CITY NOTES. TH	IANK YOU.

Landscaping and Outdoor Maintenance

Question	Yes	No	NA	Describe
Are native, droughts resistant plants are used onsite for 35% or more of the property?				
Is the pool is covered in the off season?				
A contractor or facilities manager regularly conducts walkthroughs of the irrigation system?				
All irrigation controllers are changed according to the season?				
Is drip irrigation used in medians?				

^{*}additional building can be inserted on another sheet.

DO NOT WRITE IN GRAY AREA BELOW, THIS AREA IS FOR CITY NOTES. THANK YO	OU.

Car Washes

Туре	How Many? * indicate NA if not applicable	GPV (conveyor, rollover)	GPM (spray wands)	R.O. Water Reclaimed? (y/n)	Rinse Water Reclaimed? (y/n)	Wash Water Reclaimed? (y/n)
Conveyor Friction						
Conveyor Touchless						
Rollover Friction						
Rollover Touchless						
Spray Wands						

^{*}GPV-Gallons per Vehicle *GPM- Gallons per Minute

Are there any	leaks in the car wash?	Please explain:

DO NOT W	RITE IN GRAY	AREA BELOW	, THIS AREA IS	FOR CITY NOTES.	THANK YOU.

Appendix

Methods for Calculating Water Use

A) Restrooms: How to find model numbers and flow rates

- 1) Toilet-GPF can be measured in a toilet tank = (Height (of water line) x Length (of tank) x Width (of tank) divided by 231
- 2) Tank Type and Flush Valve Toilets-Check behind the seat of the bowl for GPF
- 3) Showerheads and Faucets or Aerators-GPM can be located on the side

Model numbers can be found:

- 1) on spec sheets
- 2) Urinals- on top or on side
- 3) Flush valve toilets-under the toilet or on side of toilet

B) Kitchen: How to find models numbers and flow rates

- 1) Dishwasher can be found inside, behind, or just inside the door near seal
- 2) Ice Makers on the side, or behind it (high or low) or just inside the door or near the seal
- 3) Pre-Rinse Valve should be on the valve itself, either on the handle or on the face or on the edge of the face (some may not contain a make and model but possibly a name and a flow rate *gpm)

C) Clothes Washer: How to find model numbers

- 1) Clothes washers (coin operated or non-coin operated) on the back or the side, could be on the panel facing forward, can be located just inside the door, either on the door or on the body near the seal.
- 2) Continuous Batch washers these large systems probably requires contacting the person in charge of them to find model numbers