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 it 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.**

Business name:

Type of Business:

Business Address:

Business Phone Number:

Services Offered at Site:

Business Contact Name and Phone Number:

Business Contact Email:

Contact Name and Number of person filling out the form:

Austin Water Account Number(s):

Meter number(s):

Year Built: Site size: (sq ft) Building Size: (sq ft) Landscaped area: (sq ft)

Number of employees: Full Time: Part Time:

Seasonal: Number of Visitors (average) per week:

Please check the following answers that apply to your business:

Does your business

- rent
- own

Does your business

- Directly pay the water bill
- have a water bill paid by a third party
- don't know

Does your business have plans to move within the next:

- 12 months
- 2-3 years
- 4-5 years
- 6-10 years
- No plans yet

Who is responsible for the maintenance and repairs in the building?

- the landlord
- a contractor with a service agreement
- in-house maintenance staff
- we call different companies for specific needs
- other (explain)

Disclaimer

Completing this form and checklist and submitting them to Austin Water will show your commitment to reducing your water use and will go towards qualifying you as an Austin Green Business Leader. The information you provide will be used to help you work with Austin Water to develop and implement effective conservation programs. We encourage you to fill this out with as much accuracy as possible. Once you have developed and implemented a water conservation plan based on your 3C Business Challenge, you will be entitled to receive a certificate recognizing your achievement that can be displayed at your business.

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 <1.1/1.6 gpf	City Code requires facilities built on or after October 1, 2010 to have toilets that 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 facilities built on or after October 1, 2010 to have toilets that 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 facilities built on or after October 1, 2010 must have urinals that use no more than 0.5 gpf. WaterSense labeled pint 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	Austin Water provides free 0.5 gpm aerators, subject to availability.	
	Lavatory Faucets (Locker Rooms)		
	Faucet aerators 1.0 gpm	Austin Water provides free 1.0 gpm aerators, subject to availability.	
	Flow Restrictors 2.0 gpm		
	Office Break Rooms/Kitchen Faucets		

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.
	Faucet aerators 1.0 gpm	Austin Water provides free 1.0 gpm aerators, subject to availability.	
	Flow Restrictors 2.0 gpm		
	Food Service Equipment		
	Food prep/Dishwashing Faucets		
	Faucet aerators 2.2 gpm	Austin Water provides free 2.2 gpm aerators, subject to availability.	
	Flow restrictors 3.0 gpm		
	Hand Wash Faucets		
	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 = or < 1.3 gpm	Effective Jan. 1, 2008, all PRSVs may not use more than 1.6 gpm.	
	Dishwashers (Specs by machine type) EPA ENERGY STAR qualified products.	Effective January 1, 2008, commercial dishwashers must not use more than 0.9 gallons per rack or 180 gallons per hour. EPA ENERGY STAR qualified dishwashers and other products may be found at: www.energystar.gov/ AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation An EPA Energy Star list of qualified dishwashers can be found at: www.energystar.gov/	
	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. AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation An EPA Energy Star list of qualified ice makers can be found at: www.energystar.gov/	

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.
	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.	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation	
	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/department/commercial-process-water-evaluation	
	Self-contained Condensing Unit: Must be air cooled and use not more than 30 gallons/100 lbs.	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation	
	Boilerless Steamer (with no water supply connection) < 2.0 gallons per hour per tray.	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation 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	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation	
	Combination oven <3.5 gph in any mode	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation	
	Commercial Food Waste Composter	Commercial garbage disposals are prohibited, effective 1/1/08.	
	Laundry 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.
	Commercial Clothes Washers <4.0 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.	AWU rebate available for recommended coin-operated equipment exceeding code requirements: www.austintexas.gov/department/washwise-rebate-program-0 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/	
	Cooling Towers		
	Cooling towers and evaporative condensers. Minimum 6 **cycles of concentration**	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation 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.	
	Cooling tower **conductivity controller** system to time and regulate cooling tower bleed water	All cooling towers installed or replaced after December 31, 2010 must have makeup and blow down meters, conductivity controllers, overflow alarms, and drift eliminators.	
	Cooling tower **metering** of both make-up and blow-down lines for towers and nominal rating of >250 tons of cooling capacity and overflow alarm.	All cooling towers installed or replaced after December 31, 2010 must have makeup and blow down meters, conductivity controllers, overflow alarms, and drift eliminators.	
	Swamp Cooler **maintenance schedule**	Effective January 1, 2010, float valves must be routinely checked and the equipment operational and free of leaks	
	Process Water Use		
	Process Flow Reduction and Reuse Equipment	AWU rebate available for recommended equipment: www.austintexas.gov/department/commercial-process-water-evaluation	
	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		

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.
	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/department/rainwater-harvesting-rebates	
	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/department/rainwater-harvesting-rebates	
	Automatic Irrigation Systems		
	System design standards	Effective Jan 1, 2008 all new commercial irrigation systems must have pop up spray heads and rotors are 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.	

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 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 65 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 2013, 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.washwithwatersavers.com/about/water-savers-criteria	
	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.	
	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.	

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 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) 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 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 Worksheet

Please complete the following

Please fill out this form for each building.

INDOOR CONSERVATION

Restrooms/Locker Rooms

Type	**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
Faucets					_____ GPM
Showerheads					_____ GPM
Aerators					_____ 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 for the restrooms? Describe

Are there any leaks in the restrooms/locker rooms? Please explain:

_____

_____

_____

_____

_____

_____

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

_____

_____

_____

_____

_____

_____

_____

Kitchen/Cafeteria

Type	**How Many? *** ***indicate NA if Not Applicable***	**Make**	**Model name and Number**	**Additional Model Numbers**	***GPM (Pre-rinse valves or faucets)**
Dishwasher					
Ice Machine Maker					
Pre-Rinse Valves *					
Faucets *					
Other					

**GPM- Gallons per minute (applies to pre-rinse valves and faucets). *See Appendix B for help finding model numbers and flow rates*

Are any retrofits or plumbing device replacements planned for the kitchen? Describe

Are there any leaks in the kitchen or cafeteria? Please explain:

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

Laundromats/Laundry Facilities

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

See appendix C for help finding model numbers

Are any retrofits planned for the Laundromat or laundry facilities? Describe

Are there any leaks in the kitchen or cafeteria? Please explain:

_____

_____

_____

_____

_____

_____

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

_____

_____

_____

_____

_____

_____

_____

Cooling Towers and Swimming Pools

Type	How Many? *indicate NA if Not Applicable	Capacity or size	Additional Information	Months in operation (circle all)	Managed by (describe)
Cooling Tower			# cycles of concentration: _____	J F M A M J J A S O N D	
Swimming Pool			□ Indoor □ Outdoor	J F M A M J J A S O N D	
Outdoor			Recirculating: □Y □ N	J F M A M J J A S O N D	

Fountains					

**add additional lines for multiple cooling towers or fountains*

Are any retrofits or plumbing device replacements planned within the next year for the pool or cooling system? Describe

Are there any leaks in the cooling system or swimming pool? Please explain:

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

OUTDOOR CONSERVATION

Automatic Irrigation System

Type	# 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 other paper*

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 ONLY. THANK YOU.

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 other paper*

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

Landscaping and Outdoor Maintenance

Question	Yes	No	NA	Describe
Are native, drought 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 other paper*

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

Carwashes

Type	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 WRITE IN GRAY AREA BELOW, THIS AREA IS FOR CITY NOTES ONLY. THANK YOU.

Appendix

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