Sample Water Audit Forms

BOMA GO-GREEN

Water Audit Sample 1

Building Information

Building Nan	ne					
Building Add	ress					
Owner			_ (and/or) Ma	nager		
Age of building	ng		Size	of building		
Type of build	ing:		_ Major use/	s and area of each a	area type:	
Office:		sf	Oth	er (specify:)	sf
Clinic:		sf	Oth	er (specify:)	sf
Warehouse:		sf	Oth	er (specify:)	sf
Retail:		sf				
Numbers of p	ermanent oc	cupants:				
(optional) Nu	umber of Wo	men		_ Number of Men		
Utility/	Consun	ption	n Data			
Water meter/s	s (utility mete Meter #	ers):	Size	Area se	erving	
Meter						
Meter						
A		. for	an #		:	
Annual water Monthly cons		1 for met	er #	consumpt	1011	

Jan	Feb _		March	April	
May Sept	June _ Oct _		July Nov	Aug Dec	
Annual water consum Monthly consumption		meter #	consump	otion1	n^3
Jan	Feb _		March	April	
May			July Nov	Aug Dec	
Washrooms	S				
Toilets					
Tank type:					
Number@	<u></u>	_Gallons/litre	s per flush		
Number@	<u></u>	_Gallons/litres	s per flush		
Number@	<u></u>	_Gallons/litres	s per flush		
Number@	0	Gallons/litre	s per flush		
Tankless (flushome	eter equip _]	ped):			
Number@	<u></u>	_Gallons/litre	s per flush		
Number@	<u></u>	Gallons/litre	s per flush		
Number@	Ø	_Gallons/litre	s per flush		
Urinals					
Flush tank:					
Number of flush tan	ks:	Capaci	ty of flush tank:	Gallons/litres	

Number of urinals p	er tank:			
Flush interval:				
Manual flush:				
Number@	Gallons/litres per fl	ush		
Number@	Gallons/litres per fl	ush		
Number@	@ Gallons/litres per fl	ush		
Sensor flush:				
Number@	Gallons/litres per fl	ush		
Number@	Gallons/litres per fl	ush		
Number@	Gallons/litres per fl	ush		
manufacturer. Olde manufacturer and the volume information	r toilets and urinals do not. If t e age of the toilet or urinal. Wi . The volume of the flush can b	here is no i th this info e adjusted o	ted on the unit with the name of the indication on flush volume, note the ormation the manufacturer can provide flush on these units. The flushometer manufacture the building maintenance manuals.	
Basins/faucets				
# of faucets	Flow rate	gpm/ls	sensor/meter control	
# of faucets	Flow rate	gpm/ls	sensor/meter control	
# of faucets	Flow rate	gpm/ls	sensor/meter control	
# of faucets	Flow rate	gpm/ls	sensor/meter control	
Showers				
Number of showers	Showerhead flow	rate	gpm/ls	
Number of showers	Showerhead flow	rate	onm/ls	

Number of showers _	Showerhead flow rate gpm/ls	
Number of showers _	Showerhead flow rate gpm/ls	
Kitchens/Caf	feterias/Lunch rooms	
Number of meals served	ed/day:	
Number of kitchen sink	cs/ faucets:	
Are kitchen faucets equ	uipped with aerators?	
Do spray heads have au	utomatic shut off?	
Are walk-in refrigerator	ors/freezers water cooled?	
Are refrigerators equipp	ped with icemakers?	
Do refrigerators provide	le drinking water?	
Are icemakers water co	poled?	
Do kitchens use:	garbage disposals composting neither	
Is there a dishwasher? _	Average number of loads per week:	
Are only full loads was	shed?	
Are dishes routinely pre	re-rinsed prior to wash?	
Is frozen food routinely	y thawed under running water?	
Are kitchen floors hose	ed clean? How often?	
Are hoses equipped wit	th high-pressure, water efficient nozzles?	
Number of Drinking for	ountains: not cooled water cooled air cooled	
Number of Vending ma	achines/ coffee makes/ water coolers/ etc. connected to the domestic water sy	ystem:

Mechanical (HVAC) Equipment

Number of Ice machines: air cooled_____ water cooled_____

A/C Equipment Are cooling towers in use at your facility? _____ Number:____ (Check settings for level of total dissolved solids (TDS) at blow-down and frequency.) Is makeup water metered? _____ Does your municipality provide for sewer charge rebates for cooling towers? Are you receiving a rebate? _____ **Heating Equipment** Are boilers in use at your facility? _____ Number:____ (For steam boilers check settings for level of total dissolved solids (TDS) at blow-down and frequency.) Is make up water metered? _____ **Ancillary Equipment** Are water-cooled air compressors in use? _____ Are water-cooled pumps in use? _____ Is make up to heating and cooling loops metered, monitored and logged? List any other machines that use domestic water: Are water softeners in use? _____ Number: _____ Is softener regeneration automated? _____ If automatic regeneration, is it initiated by: time meter sensor Is resin cleaner used? _____

Cleaning/Janitorial

Are janitorial staff aware of office water conservation efforts?
Parking Areas
Are hoses used for cleaning parking areas?
Are hoses equipped with fine-spray/high-pressure/water-efficient nozzles?
Are dry-clean (rather than wet-clean) practices and procedures in place? (i.e. sweep instead of hosing, scrape before spraying, etc.)
Walkways
Are office sidewalks and outside walls pressure-washed on a regular basis? How often?
Landscaping/Irrigation
Does your landscape use mulch?
Are drought-tolerant, native plants used?
Does your facility have an automatic irrigation system?
What does the system irrigate? How often? At what time of day ?
Is there a rain gauge and/or rain sensor incorporated in your system?
Are there manual override controls for your system?
Is your irrigation water metered?
Is there a municipal sewer charge rebate on irrigation water?
Do you receive a rebate?
Do you use drip irrigation for plantings, trees and shrubs?
Are hoses used for irrigation?
Are hoses equipped with fine-spray/high-pressure/water-efficient nozzles?
Does your facility have any pools or fountains? Number:

When are fountains running?
Do fountains use recycled water?
Are they part of a closed-loop system?
Maintenance Issues
Are faucets, pipes and plumbing checked regularly for leaks?
How often?
Are maintenance staff to respond to and repair leaks?
If you control your own maintenance program: How do you handle reporting and repair of leaks?
What priority is given to and how quickly are leaks usually repaired?
Planned Action: In this section planned actions to reduce water consumption should be listed. For example if your building is using 20 litres per flush toelets the action may be to change those out for low flush toilets (6 litres per flush).

Water Audit Guide Sample 2

This data collection guide is designed to help you analyze water use in your facility. Some items may not apply to all facilities.

Agency:		
Facility Name:		
Address:		
Date of Assessment:		
Audit Coordinator(s):		
Assessment Team Members:		
As you tour your facility and consider each point of water consumption, determined non-essential. Check the box in the left column to man		
Baseline water usage:		
Local water provider:		
Where does your water come from?		
Number of buildings at facility: Size of buildings (an	rea):	
Area of grounds: Size of motor pool (# of vehicles	s):	
Number of employees per shift: Number of shifts per day:		
Average number of visitors/occupants per day (if applicable):		
Water pressure at your facility: (psi) (Often reducing water pressure by merely 10 or 15 percent can reduce water coin daily consumption activities. Water pressure that is too high can result in least		ficantly without interfering
Does staff have good general water conservation awareness habits?	☐ Yes	□ No
Have you ever had a water-balance or leak-check? (Entails shutting off all known water usage. If the meter records any water usage undocumented consumption.)	☐ Yes age during this pe	_ 1,0
Is there an on-site water treatment facility? Yes N If so, give a brief description of the facility, flow rates, chemical volume).		average cost (per unit
Is there an on-site wastewater treatment facility? Yes If so, give a brief description of the facility, flow rates, chemical volume).	☐ No additions, and	average cost (per unit

Size, type, and location of water meter(s):									
and location of wastewater meter(s):									
Describe the amount, location, and use of untreated groundwater if you use it at your facility:									
What, if any, water efficiency measures are									
Personal Water Consumption Number of restrooms:	Number of toilets (to								
Note: Many fixtures have the average flow rate cannot find this printed information, consult you	•	•	e make and model. If you						
Type of toilets and average water consumpt *Note: Most toilets are either gravity flush, flus Toilet type:		kless, or pressurize							
Toilet type:	Number:	Average gpf: _							
Urinal model:	Number:	Average gpf: _							
Are toilets equipped with toilet dams or l	ow-flow flapper valve	es?	□ No						
Do flush valve (tankless) toilets have war	ter-saving diaphragms	?	□ No						
Are toilets equipped with automatic wate If so, what is the timing cycle?	~ ·	☐ Yes	□ No						
Are the sensors/timers coordinated value Total water consumption per workday from * Assuming each employee/occupant uses the	om toilet flushes:		□ No						
Number of restroom faucets (total):	_ Faucet flow 1	rate: g	gpm						
Are faucets equipped with aerators?	☐ Yes ☐ No)							
Are faucets equipped with automatic or met	tered shutoff mechanis	sms? 🗆 Yes	□ No						
Number of showers (total):	Showerhead flow rat	e: g	gpm						
Number of drinking fountains:	Fountain flow	v: gpm							

Are fountains □ air-cooled or □ water-c	ooled?			
Kitchens Number of staff kitchen areas: Number of kitchen sinks/ faucets:	Faucet flow ra	nte:	gnm	
Are kitchen faucets equipped with aerators?	☐ Yes	□ No	Spiii	
Do refrigerators use water coolant systems?	☐ Yes	□ No		
Are refrigerators equipped with icemakers?	□ Yes	□ No		
Are icemakers:	☐ Air-cooled			
Do refrigerators provide drinking water?	☐ Yes	□ No		
Do kitchens use:				
Is there a dishwasher? \(\sigma\) Yes	posting \Box ne	erurer		
Average number of loads per week:				
-				
Cafeterias Number of kitchen areas: Area: _		_		
Number of faucets (total): Faucet	flow rate:	gpm		
Are faucets equipped with aerators?	s 🖵 No			
Are faucets equipped with flow restrictors? Yes	s 🗆 No)		
Number of dishwashers: Make Average number of loads per day:			l:	
Are dishes pre-washed?	☐ Yes	□ No		
Is potable water used for pre-washing dishes?	☐ Yes	□ No		
Is dishwasher wastewater reused?	☐ Yes	□ No		
Does the flow of water to the dishwasher stop when	the flow of ite	ms being was	hed stops?	☐ Yes
□ No				
Does the flow of water to the garbage disposal stop two water-supply lines, one to the bowl and one to	•	•		sals have
No	0 0		,	
Number of ice machines: Are ice machi Number of refrigerators:	nes 🗖 air-cool	ed or 🗖 water	-cooled?	
Do refrigerators use water coolant systems?	☐ Yes	□No)	
Is frozen food routinely thawed under running wate	r? □ Yes	□ No)	
Do steam tables on buffet lines use potable water? What is done with water from steam tables at closin	☐ Yes g time?	□ No)	

Are kitchen floors hosed clean?	☐ Yes	□ No	How often? _	
Are hoses equipped with h	nigh-pressure,	water efficient no	ozzles? 🗆 Yes	□No
Are linens washed on-site?	☐ Yes	□ No	How often? _	
Laboratory Consumption Number of Labs (total in facility)	:			
Number of sinks/ faucets:	Fa	ucet flow rate:	gpm	
Are faucets equipped with aerator	:s?	Yes \square No)	
	r in any way: nount used	Closed-loop Y N Y N Y N Y N Y N Y N Y N Y		ele? Reused?
Describe lab procedural/clean-up	practices that	consume water		
Are procedures and clean-up prace Mechanical Consumption Number of water heater(s):		the lab?		
Are water softeners in use? \square Y		Number:		
Backwash? Frequency:		Duration:		
Are drink machines in vending ar	eas 🗖 air-cool	ed or u water-c	ooled?	
Are cooling towers in use at your For each cooling tower, applied to blow-down, evapor Check settings for level of	oproximate horation, and other total dissolve	w much make-up er process ineffic d solids (TDS) at	water is needed iencies. blow-down and	l frequency.
Are boilers in use at your facility	! -	Yes \square N	o Numb	per:

blow-down, evaporation, and other process inefficiencies. Check settings for level of total dissolved solids (TDS) at blow-down and frequency. Are water-cooled air compressors in use? ☐ Yes ☐ No Are water-cooled pumps in use? ☐ Yes □ No List any other machines that use non-contact cooling water: Heating, Ventilating and Air Conditioning (HVAC) Consumption What type of HVAC system do you have? Does your HVAC system have condensate collection and/or re-use? □ No ☐ Yes Is your HVAC system always on? □ No ☐ Yes Is your HVAC system □ air-cooled or □ water-cooled? If water-cooled, is your system \square open loop or \square closed-loop? **Cleaning Use** Motor Pool: Number of automotives: _____ Where are they washed? _____ How frequently? _____ Number of watercraft: _____ Where are they washed? _____ How frequently? _____ Are hoses used? \(\begin{align*} \Pi \) Yes \square No Are hoses equipped with fine-spray/high-pressure/water-efficient nozzles? ☐ Yes \square No Are dry-clean (rather than wet-clean) practices and procedures in place? (i.e. sweep instead of hosing, scrape before spraying, etc.) ☐ Yes ☐ No Are office windows washed on a regular basis? ☐ Yes ☐ No How often? Are office sidewalks and outside walls pressure-washed on a regular basis? ☐ Yes ☐ No How often? **Janitorial Use** Are janitorial staff aware of office water conservation efforts? ☐ Yes □ No

How often? _____

☐ No

Are there areas that janitors mop? \(\sigma\) Yes \(\sigma\) No \(\text{Where:}\)

Are hoses equipped with fine-spray/high-pressure/water-efficient nozzles? ☐ Yes

□ No

Area mopped (ft²): _____

Are hoses used? ☐ Yes

For each boiler, approximate how much make-up water is needed or used to replace water lost to

before spraying, etc.)	☐ Yes	☐ No				
List other janitorial practi Task	ces that consum Where		How often		Average water	used
				 -		
				 -		
						
Landscaping Consur What types of vegetation		ne landscani	na surround	ing your fo	eility?	
Plant Name		ive?			consumption	
	`	Y 🗖 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
		Y 🗆 N				
Soil type (in your region)	:	Does yo	our landscap	e use mulc	h? □ Yes □	No
Does your facility have an Where does the sy	•			• •		
How often? Sumi	mer:		Wint	er:		
Time of day? Sum	nmer:		_ Wint	er:		
Is there a rain gau	ge incorporated	in your syst	tem?	☐ Yes	□ No	
Are there manual	override control	ls for your s	ystem?	☐ Yes	☐ No	

Where?		_
When are fountains running?	Typical water consumption?	
Do fountains use recycled water? Yes	□ No	
Are they part of a closed-loop system? ☐ Yes	□ No	
Are paved areas \square swept clean \square blown clean or \square	l hosed?	
Maintenance		
Are faucets, pipes and plumbing checked regularly for How often?	e leaks?	
Is there regularly scheduled preventive maintenance in	n your facility?	1 0
Is maintenance documented with standard records or in If you contract with a maintenance company: How quickly does maintenance staff respond as If you control your own maintenance program: How do you handle reporting and repair of leak	nd repair leaks?	_
How quickly are leaks usually repaired?		
Contractor Water Use		
Are contractors aware of agency water conservation ef	fforts?	
Do any contractors have access to or use of facility wa	ater?	
Do contractors know where the water line is located?	☐ Yes ☐ No	
(Oftentimes, contractors accidentally drive hear causing expensive leakage and potentially dang	• • • • • • • • • • • • • • • • • • • •	g the pipin
List any contractor activities that consume water. (regu Activity Location Fr	ular, occasional or one-time) requency/Season Water used	

Notes/ Other Water Consumption