

ISICWANGCISI SENKQUBO YEMFUNDO KUNYE NOKUQONDWA KOKUSINGQONGILEYO

UHLOBO LWENKQUBO (yenza isangqa/nqamleza): inkqubo yemfundo yoluntu/yabantu abadala – AMANZI

IINKCUKACHA

Igama lesikolo/igela				
Inani labafundi/abathathi nxaxheba abalindelekileyo		Inani ngqo labafundi/abathathi nxaxheba		Ubude/ixesha elithathwa yinkqubo lyure e-1
Indawo (irizevu/isiza)			Ibanga/igela lobudala	Abantu abadala/abantwana abafikisayo
Umhla wesihlo				
Ingaba le yinxalenye yesicwangciso sokusebenza?	EWE/HAYI		Ukuba nguhayi, xela ukuba kutheni ifuneka inkqubo.	

ISIQULATHO

	Umxholo (isangqa/ukunqamleza)	Amanzi
Yazi	Izihloko ekuthethwa ngazo (umzkl. umjikelezo wamanzi/ukubaluleka kwamanzi)	Kutheni ebalulekile amanzi. Yintoni esongela amanzi. Ulwenza njani uhloko lwamanzi.
	Ukudibanisa ikharithulam (kwiinkqubo ezinxulumene nekharithulam kuphela) – qaphela umxholo/umgca/izihloko ukuba ngaba azidweliswanga kwizihloko ezingentla)	AKUNGENI
Ye	Ulwazi lwangaphambili luyafuneka (ukuba luyangena)	AKUNGENI
	Izakhono ekuqhelanise nazo (nqamleza/yenza isangqa)	Cacisa, Chonga, Xela, Hlalutya, Yithi thaca, Funda, Rekhoda, Nika ingxelo, Zibophelele, Khetha, Yenza isigqibo
Ixabis	Umyalezo ongundoqo (umzkl. kufuneka silondoloze amanzi)	Kufuneka siwalondoloze amanzi.

ULUNGISELELO JIKELELE

	Umntu onoxanduva	Gqibile (phawula)	Isimo
Mema *			
Indawo			
Isithuthi			
Ukubhukisha kuqinisekisiwe			
Imvume ye-WCED *			
Izixhobo nekhamera yentetho eza kuthiwa thaca			

Okunye:

Isicwangciso sicelewe ngu: _____ (igama)

_____ (umhla)

Isicwangciso sivunye ngu: _____ (igama)

_____ (umhla)

Uhlolo lomngcipheko lwenziwe, uqinisekiso noluhlu lokukhangela luthunyelwe.			
Ulungiselelo lokutya *			
Ukhuselo *			
Uhlahlo lwabiwo-mali neziko leendleko			

*Ukuba kuyangena

ISICWANGCISO SESIFUNDO

Ixesha	Indawo	Umsetyenzana nengcaciso	Imithombo yolwazi kunye nomntu onoxanduva lokuzisa/ukulungisa umthombo wolwazi	Abasebenzi abaququzelelayo (ukuba bangaphezulu kom-1, khombisa umququzeleli ophambili nomgcini xesha)
INTSHAYELELO NOMSETYENZANA WOKWAZISA ABANTU				
Imizuzu emi-5		<p>Umsetyenzana wokwazisa abantu – imfiuno yethu yamanzi</p> <p>Uluqale njani usuku lwakho? Nika wonke umntu ibholpeni/ipensile nesiqwenga sephepha lokuncamathisela. Wonke umntu kufuneka abhale phantsi into ayenzileyo ebibandakanya amanzi ukusukela ekuqaleni kosuku lwakhe. Ukuba kuyingxaki ukubhala, banokuyixoxa kumaqela abo baze banike ingxelo yomlomo ngokwenziweyo. Umququzeleli ubuza iqela ukuba liyaqonda okanye liqaphele na ukuba liwasebenzise amaxesha amangaphi amanzi. Qaqambisa ukubaluleka kwamanzi kubomi bethu bemihla ngemihla. Xoxa.</p>	libholpeni/ipensile – iphepha lokuncamathisela	
UMZIMBA/IMISETYENZANA				
Imizuzu engama-25		<p>Intshayelelo emanzini</p> <p>a) Intetho ethiwa thaca</p> <p>b) Bonisa i-DVD yamanzi okanye ibali lamanzi.</p> <p>c) Ingxoxo yeetephu ezivuzayo okanye imfuno yamanzi</p> <p>Yazisa umba 'ukuphila okuzinzileyo'.</p> <p>INGXOXO YEETEPHU EZIVUZAYO</p> <p>Buyela kumsebenzi wokwazisa abantu/wokuvula. Yenza ukuba umntu ngamnye akhankanye indlela enye esisebenzisa ngayo amanzi. Bhala oku kwiphepha elimile okwethontsi lamanzi uze ulincamathisele kwiphedi enkulu. Xoxa ngokuba ukusetyenziswa kuyodlula njani imithombo ekhoyo. Yibani nengxoxo emfutshane ngale thiyori kunye nokuba kufuneka siziqhelanise njani kwixa elizayo, ingakumbi njengokuba abantu bethu besanda.</p>	<p>Ibhodi emhlophe</p> <p>Imakha yebhodi emhlophe</p> <p>Intetho ethiwa thaca ngamandla ombane</p> <p>Ibali lamanzi afakwe ebhotile – iYouTube</p>	

		<p>OKANYE</p> <p>UMBONISO WAMANZI AYIMFUNO</p> <p>Gcwalisa ijagi encinci yamanzi: cinga ngokuba la manzi amele onke amanzi afreshi afumanekela ukusetyenziswa. Galela onke amanzi kwiiglasii/iikomiti ezohlukeneyo (ungacela iqela ukuba libambe iiglasii). Wonke umntu uza kuba neglasii/iikomityi egcweleyo yamanzi (cacisa ukuba baza kuba namanzi awoneleyo njani ukuba basele, bapheke, bahlambe ezibhafini, bankcenkceshele isitiya, njl. njl. Bekukho amanzi oneleyo omntu wonke). Ngoku galela ubuyisele onke amanzi ejagini uze wongeze iiglasii/iikomityi ezingaphaya ezimbalwa. Iikomityi ezingaphaya ziza kumela ukukhula ukwanda kwabantu yiloo nto isongeza kwimfuno yamanzi. Ngoku ikomityi/iglasii nganye iza kuba namanzi amancinci (amancinci okusela, okupheka, kwaye akusekho manzi maninzi okuhlamba ebhafini). Okokugqibela yongeza iiglasii/iikomityi ezingaphaya uze uwuphinde umsebenzi. Ngoku iglasii nganye iza kufumana amanzi amancinci kakhulu.</p> <p>Uluvo apha kukubonisa ukuba imfuno yamanzi angaphaya afumanekayo inyuka kangakanani na kuthi ukuba siwasebenzise kunye nokuba isichaphazela njani na. Khumbula kananjalo ukudibanisa oku nokwanda kwabantu; imfuno yokuvelisa ukutya okuninzi kwaye ke ngoko kuthetha ezolimo ezingaphaya, ezifuna amanzi amaninzi; impahla eninzi, efuna amanzi amaninzi; izindlu ezininzi, njl. njl.</p> <p>Imfuno iya isiba nkulu kangokuba sijonga iindlela ezahlukeneyo zokuwasebenza kwakhona amanzi. Kubalulekile kananjalo ukungawasebenzisi kakubi amanzi, kuba asinawo amanzi esinokuwasebenzisa kakubi. Xoxa ngokufutshane neqela.</p>	<p>likomityi zeplastiki namanzi (EZINGEKHO KWIBHOKISI YEZIXHOBO)</p>	
<p>Imizuzu engama-20</p>		<p>Yenza uhlolo lwamanzi asendlini</p> <p>Sebenzisa iifom zohlolo lwamanzi ezingezantsi. Xoxa ngokusebenzisa amanzi komntu ngamnye nize ke nibone ukuba loluphi ulondolozo lwamanzi olunokwenzisa.</p> <p>OKANYE</p> <p>Bohlule ngokwamaqela ama-3. Iqela ngalinye liphanda umba om-1 wolondolozo lwamanzi lize libuye linike ingxelo kwaye liwucacisele elinye iqela umba lo:</p> <ul style="list-style-type: none"> •Indlela yokubona ukuvuza kwindlu yangasese. •Indlela yokutshintsha iwasha yesivalo esimelana noxinzelelo lwamanzi. •Indlela yokufunda imitha yakho yamanzi. <p>Nika iqela ngalinye ulwazi olubalulekileyo olungezantsi, olushicilelweyo. Kufuneka bazobe baze bacacisele wonke omnye umntu. Banike imizuzu emi-5 ukulungisa nengxoxo kunye nemizuzu emi-5 kwiqela ngalinye ukuba lithi thi thaca intetho yalo kunye nemizuzu emi-5 yemibuzo.</p>	<p>Amaphetshana okuhlola amanzi (<i>incwadi</i> yokuPhila ngobuLumko) neepensile – jonga ulwazi ngezantsi</p> <p>Shicilelela umntu ngamnye ikopi ukuze bagcwalise iifomu.</p> <p>Umatshini wokubala okanye ababini</p> <p>OKANYE</p> <p>Shicilelela izihloko ezi-3 oza kuzithi thaca.</p>	
<p>UKUHLANGANISA NOKUHLOLA</p>				

<p>Imizuzu eli-10</p>		<p>Into enye esiza kuyenza ukulondoloza amanzi</p> <p>Xoxani ngento enye eza kwenziwa ngumntu ngamnye ukuya phambi ukulondoloza amanzi. Umntu ngamnye makabhale phantsi isithembiso sakhe kwisiqwenga sephepha, eze ngaphambili, asifunde aze asincamathisele edongeni okanye kwiphedi enkulu.</p> <p>Cela iqela ukuba licinge ngokuba loluphi lonke utshintsho ekuxowe ngalo kwaye ucele ngamnye ukuba acinge ngento enye aza kuthembisa ukuyenza ukuqala ngoku emva kokuhamba.</p> <p>IZIMVO: Isithembiso seshawara emfutshane; isithembiso sebhakethe – ukuwasebenzisa kwakhona amanzi ebesetyenzisiwe esityeni sakho; isithembiso sekomityi – ukusebenzisa ikomityi xa ubrasha amazinyo akho; ukuthembisa ukunkcenkceshela isitya sakho ebusuku okanye ngorhatya olukhulu – ukunkcenkceshela isitya phambi kweye-10:00 okanye emva kweye-16:00; isithembiso sokuzivala ziqine iitephu – ukuzivala ngokufanelekileyo iitephu kunye nokuxela ukuvuza; ukuthembisa ukwenza izinto ngokwemveli.</p>	<p>Sika iphepha, iibholpeni/iiKoki, ibhodi yephedi enkulu</p>	
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Home water audit

Do you know how much water your household uses? A home water audit can help.

By monitoring how much water you use and fixing leaks promptly, you can save water and money.

How much water do you use?

There are several ways to measure your water use:

- ◆ Check your rates notice. This may show your household's daily water consumption, as well as an average figure for households in your area.
- ◆ Check your water meter, which is generally located in the ground outside, towards the front of the property.
- ◆ Use this handy audit table to find out how much water you use at home.

By checking your water consumption monthly, you can quickly detect any unexplained increases in water use that indicate a possible leak.

Are your appliances water-efficient?

If your appliances are reasonably new, the manufacturer's product information will tell you how much water they use. When buying new appliances, choose those with a higher water efficiency rating where possible. The water rating label on the product will help you identify the most water-efficient products—look for for the product with the most stars.

If your appliances are older, you can use your water meter to work out how much water each appliance uses. To do this, ensure all water-using devices are turned off and then record the water meter reading. Use only one appliance while all other water-using devices remain switched off. When the appliance is finished, check the meter reading again. The difference in the meter readings is the amount of water, in litres, used by the appliance. For more information please refer to the *Detecting leaks and reading your water meter* information sheet available from www.dews.qld.gov.au.

Alternatively, contact a licensed plumber to help determine the water consumption of individual appliances and your overall household.

A simple audit checklist

Complete the checklist below to work out approximately how much water you use and where you use the most water. Use the water usage calculator overpage to help you estimate quantities. The total could be compared with the water usage on your water bill. Any major discrepancies may be due to undetected leaks, requiring further investigation by a licensed plumber.

Water Use	No. of people in home (A)	No. of uses per week (B)	Litres of water per use (C)	Total per week (AxBxC)
Toilet				
Shower				
Bath				
Teeth cleaning				
Shaving				
Washing hands				
Drinking				
Washing dishes				
Dishwasher				
Washing machine				
Inside cleaning such as showers, floors				
Washing cars/bikes/boats				
Washing pets				
Watering gardens/lawns				
Outside cleaning such as driveway, balconies				
Pool/spa/water features				
Cooking/food prep				
Other				
			Total	

More information

Other waterwise information is available at www.dews.qld.gov.au

Water usage calculator

Location	End use	Litres of water used
Bathroom	Toilet: dual flush 6/3 (or 4.5/3) single flush only	3 litres per half flush or 6/4.5 litres per full flush 11 litres per flush
	Shower	6–11 litres per minute
	Bath	120 litres per filled bath
	Brushing teeth: with water running with a cup	3 litres per minute 0.5 litre per person
	Shaving: with water running with a cup	3 litres per minute 0.5 litre per person
	Washing hands with water running	3 litres per minute
	Cleaning showers: with the shower running with a bucket	6–11 litres per minute 9 litres per filled bucket
Kitchen	Washing dishes: by hand dishwasher	15 litres per half-filled sink 7 litres per load (5 star WELS rated) Older dishwashers up to 25 litres per load
	Drinking	2 litres per person per day
Laundry	Washing clothes: by hand	22 litres per half-filled laundry trough
	washing machine* (e.g. 6kg load capacity)	30 litres per load (6 star WELS rated) 88 litres per load (3 star WELS rated) Older machines up to 180 litres per load
Outdoors	Washing outdoors, including pets, furniture, car: using running hose using a filled bucket	15 litres per minute 9 litres per bucket
	Watering gardens: with a hose with a sprinkler	15 litres per minute 9–15 litres per minute
	Hosing driveways/pavements	15 litres per minute
	Topping up pool/spa/water features:	15 litres per minute
Leaks	Leaks: slow-dripping tap leak toilet cistern leak pool/spa small leak	3–27 litres per day 10 litres per day (barely visible) to 260 litres per day (large) 130 litres per week

All figures quoted are approximate. Please use the figure you feel best represents your household water usage.

* Check WELS rating at www.waterrating.gov.au

WATER IN YOUR HOME

HOUSEHOLD WATER-SAVING TIPS

Households consume some 70% of the water in Cape Town, making our homes a very important area of focus for saving water. We all need to incorporate wise water-saving habits into our daily lives to ensure that we adapt to our “new normal” – water scarcity. Any action we take to use water more efficiently makes a difference to the sustainability of our water resources. Remember, the more water you save, the less you pay – and the more water remains in our dams.

The residential water-saving tips in this section are based on Capetonians’ experience during the recent drought crisis.

TOILET FLUSHING AND SANITATION

- ✓ Only flush the toilet when necessary. Let the “yellow mellow” at home, work, school, gym and the shops. And do not use the toilet as a dustbin.

- ✓ Flush the toilet with greywater (laundry, bath and shower water) or another form of alternative water, such as rainwater, borehole or well-point water.⁴ If you’re using only alternative water, you can close the toilet stopcock (angle valve).
- ✓ Place a full glass bottle in your cistern to reduce each flush to a maximum of six litres (if you have no choice but to use municipal drinking water for flushing).
- ✓ Use less toilet paper to minimise the risk of sewer blockages.
- ✓ Use bleach or disinfectant to regularly sanitise toilets and surrounding areas, and keep hands sanitised to prevent health risks.

BODY WASHING AND PERSONAL HYGIENE

- ✓ Take short, stop-start showers. Wet your body. Turn off the tap. Soap. Rinse quickly.
- ✓ No shower? Take a sponge bath. Use minimal water in a basin, bowl or washtub (waskom).

cold water wherever possible, or heat your water for a sponge bath in a kettle or on the stove.

- ✓ Collect as much washing water as possible and reuse for flushing toilets. Excess greywater can also be used for plants or washing vehicles.
- ✓ Do not let taps run for too long or at full flow. Use a cup for brushing teeth or shaving.
- ✓ Use waterless hand sanitiser instead of washing your hands with water every time.

LAUNDRY AND DISHES

- ✓ Only wash what is necessary.
- ✓ Wait for a full load before running washing machines and dishwashers. Some washing machine models even let you use final rinse water for the next washing cycle.
- ✓ Washing laundry by hand can use less water than many washing machines, especially older models with no eco-cycles. Check your machine's usage.
- ✓ Use as little soap as possible to save on rinse water.
- ✓ Reuse rinse water for the next wash wherever possible.
- ✓ Reuse laundry water for flushing toilets.

FITTINGS AND FIXTURES

- ✓ Fit flow restrictors on indoor taps to reduce the flow rate to less than six litres per minute, as per the City's current Water By-law.
- ✓ Install low-flow showerheads or fit a flow restrictor to your existing showerhead to reduce flow to a maximum of seven litres per minute, as per the City's current Water By-law.
- ✓ Reduce water pressure to your property by turning your stopcock lower and/or installing a flow restrictor on the main pipe connection from your meter.
- ✓ Find and fix leaks on your property - see page 24 for more in this regard.

GARDENS AND OUTDOOR AREAS

- ✓ Use a broom and harvested rainwater to clean hard outdoor surfaces.
- ✓ Cover your topsoil with a layer of mulch to reduce evaporation. Mulch with materials like grass clippings, shredded leaves, bark chips or straw.
- ✓ Modify your gutters and downpipes to collect rainwater in containers.

SWIMMING POOLS⁵

- ✓ Fit a pool cover to significantly reduce evaporation.
- ✓ Recycle backwash water.
- ✓ Harvest rainwater and direct it to your pool for top-ups by attaching pipes or plastic sleeves to your gutters.

OTHER WAYS TO SAVE WATER

- ✓ Use much less wherever you go in and around Cape Town. Remember, the municipal drinking water you use in other places (e.g. at work or at the shops) comes from the same dam system.
- ✓ Use minimal water for food preparation. For instance, do not run water to defrost or rinse food.
- ✓ Place a container in sinks, basins, the bath and shower to capture water for reuse.⁶ Containers in showers should be large enough to collect all shower water - a bucket may not be big enough to do the job. Water is heavy, so use jugs to flush your toilets with greywater.

⁵ At some water restriction levels, no municipal drinking water may be used for pools, ponds or water features.

⁶ Note, however, that dirty, greasy water from dishwashing is not suitable for reuse.

- ✓ Harvest as much rainwater as you can. Store in sealed containers in a cool place and use for cleaning floors, outdoor hard surfaces (such as verandas, decks, paths and driveways), windows and vehicles, washing laundry and flushing toilets. Do not use for drinking, cooking or bathing, as per the City's Water By-law.

ESSENTIAL ITEMS FOR YOUR WATER-SAVING KIT

- ✓ A waskom (washtub container) for use in showers and baths to collect as much water as possible.
- ✓ Buckets or jugs to transfer water from the waskom to the toilet or outside.
- ✓ Containers to catch water in all basins and sinks for reuse.
- ✓ Bleach or disinfectant to keep the toilet area sanitised when using grey/alternative water for flushing.
- ✓ Pipes or plastic sleeves for your gutters to harvest rainwater for pool water top-ups or water tank collection.
- ✓ Single-ply toilet paper to prevent sewer blockages.
- ✓ Waterless hand sanitiser.

1

Listen for water trickling into the toilet bowl.



2

Press a piece of toilet paper against the inside back surface of the bowl. If it gets wet, you probably have a leak.

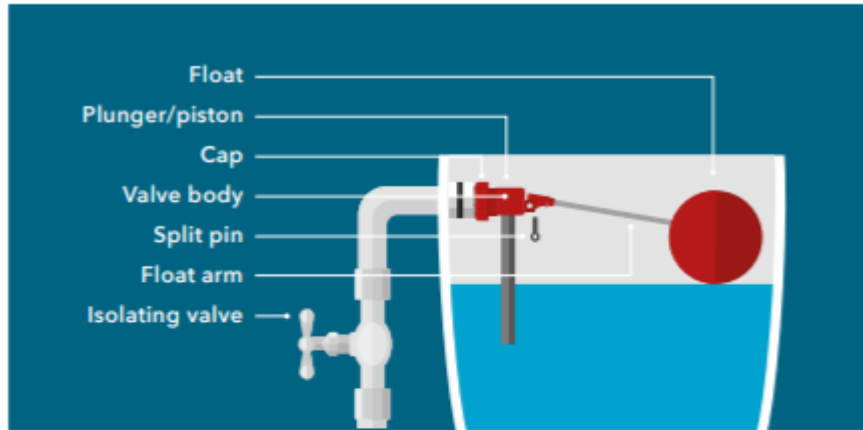


3

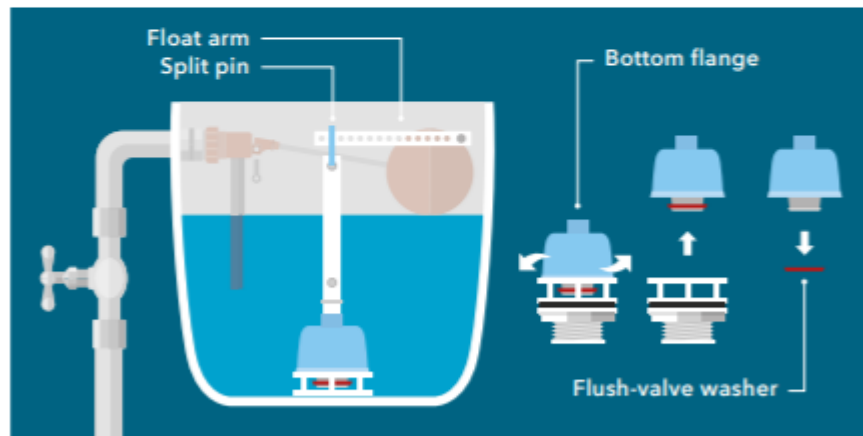
Put 15 drops of food colouring into the toilet cistern. If, after 15 minutes, the water in the toilet bowl has changed colour, there is a leak.



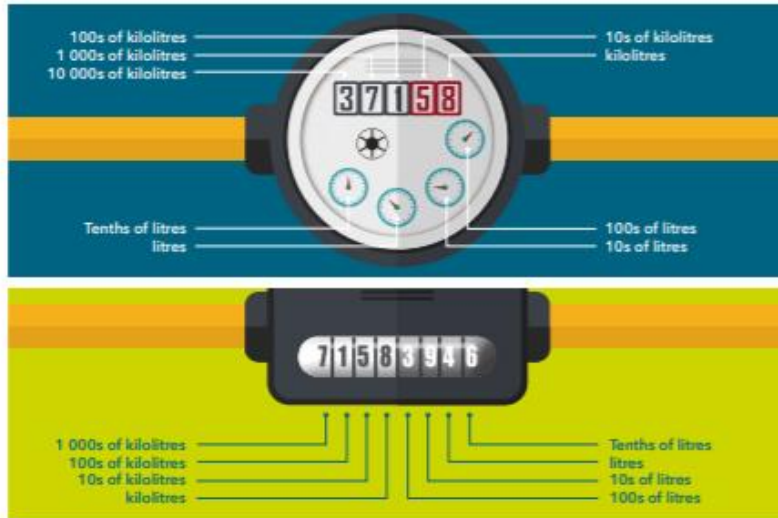
REPLACING THE FLOAT-VALVE WASHER



REPLACING THE FLUSH-VALVE WASHER



TIP: Different manufacturers use different mechanisms. To ensure that you get the correct replacement washer, take your existing old washer along when visiting the hardware store.



HOW TO READ YOUR WATER METER

Reading a water meter is simple. Open your water meter box. If it is locked, the City meter reader can unlock it when (s)he comes around next to read your meter.

Your meter will likely be one of the two kinds illustrated above. Both record the same information, but display it slightly differently.

The one kind has a set of numbers at the top, and some round dials (top illustration). The other kind has numbers only, and no round dials (bottom illustration). There are various makes and models, but all have these basic features.

When monitoring your meter reading to confirm a leak, look for where the meter shows movement of the smallest volumes of water used, indicated by litres or fractions of litres. If there is a leak, and you have stopped all other water usage in the house, you will likely notice a change in the small volumes during the 15-minute monitoring period. On the face with round dials, the small volumes are indicated by the dials for litres (0,001) or tenths of litres (0,0001). On the meter with numbers only, look to the far right of the set of numbers, where the litres (second from the right) and tenths of litres (furthest to the right) are.