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Our Ref: OM-LA/018

29 July 2004

MEMORANDUM

To : Members of the Staff

From : Andrew Loh

Subject : **FLOW RATES AT WATER FITTINGS**

I am attaching a circular from PUB dated 27 July 2004 pertaining to the subject matter for your information.

Please note that the new maximum flow rate requirements shall apply to **all domestic and non-domestic premises.**

ANDREW LOH

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Public Utilities Board
PLEASE ADDRESS ANY CORRESPONDENCE TO WATER DEPARTMENT

Your Ref:

Our Ref: WE 92413/89

Date: 27 Jul 2004

Tel: 67313566 Fax: 67313023

E-mail: ng_han_tong@pub.gov.sg

Er Loh Chew Thong
Alpha Engineering Consultants
2 Alexandra Rd #03-03 Delta House S(159919)

Dear Sir

FLOW RATES AT WATER FITTINGS

I refer to our letter dated 13 Dec 2003 of which a copy is attached.

2 We wish to remind you that from 1 Oct 2004 onwards, only water fittings complying with the new maximum flow rate as shown in the table below can be installed in new and on-going building projects. The new maximum flow rate requirements shall apply to all domestic and non-domestic premises.

Area of Usage	Maximum Flow Rate (litres/min)		Remarks
	Existing	New	
Basin tap & Self-Closing Delayed Action Basin tap	8	6	For Self-Closing Delayed Action Basin tap, the timing shall remain at between 2 and 3 sec
Sink/kitchen tap and wash area	12	8	
Shower tap & Self-Closing Delayed Action Shower tap	12	9*	For Self-Closing Delayed Action shower tap, the timing shall remain at between 13 and 15 sec
Other areas	12	8	

* Flow rate for hotels remain at 12 litres/min

3 We would most appreciate it if you could remind your officers in your organisation on the implementation dateline of the flow rates.

4 Should you or your officers require further information or clarification, please do not hesitate to contact our officer, Mr Thomas Pang at 67313556.

Yours faithfully



MAJ (NS) NG HAN TONG
ASST DIRECTOR (CONSERVATION & INSPECTORATE)
for DIRECTOR
WATER DEPARTMENT

ENC

Public Utilities Board

PLEASE ADDRESS ANY CORRESPONDENCE TO WATER DEPARTMENT

Your Ref:

Our Ref: WE 92413/89 Tel: 67313566 Fax: 67313023

Date: 13 Dec 2003 E-mail: ng_han_tong@pub.gov.sg

All professional engineers & bodies

Dear Sir

FLOW RATES AT WATER FITTINGS

I refer to our letter dated 17 Dec 2002 of which a copy is attached.

2 We wish to remind you that from 1 Oct 2004 onwards, only water fittings complying with the new maximum flow rate as shown in the table below can be installed in new and on-going building projects.

Area of Usage	Maximum Flow Rate		Remarks
	Existing	New	
Basin tap & Self-Closing Delayed Action Basin tap	8 litres/min	6/litres/min	For Self-Closing Delayed Action Basin tap, the timing shall remain at between 2 and 3 sec
Sink/kitchen tap and wash area	12 litres/min	8 litres/min	
Shower tap & Self-Closing Delayed Action Shower tap	12 litres/min	9 litres/min	For Self-Closing Delayed Action shower tap, the timing shall remain at between 13 and 15 sec
Other areas	12 litres/min	8 litres/min	

3 To further conserve water, PUB has conducted a pilot project and found that a flow rate of 2 litres/min at the wash basin taps in staff and public toilets is sufficient for normal washing purpose. The reduced flow rate will help to reduce water consumption and cut down on the water bills. The best water conservation flow rates for the various water fittings are shown in the table.

Area of Usage	Best Water Conservation Flow Rates for Existing Taps	Remarks
Basin tap & Self-Closing Delayed Action Basin tap	2 litres/min (Public/staff toilets) 4 litres/min (Other areas)	For Self-Closing Delayed Action Basin tap, the timing shall remain at between 2 and 3 sec.
Sink/Kitchen tap and wash area	6 litres/min	
Shower tap & Self-Closing Delayed Action Shower tap	7 litres/min	For Self-Closing Delayed Action shower tap, the timing shall remain at between 13 and 15 sec
Other Areas	6 litres/min	

4 We would most appreciate it if you could remind your officers in your organisation on the implementation dateline as well as to advise them on the adoption of the best water conservation flowrates.

5 Should you or your officers require further information or clarification, please do not hesitate to contact our officer, Mr Thomas Pang at 67313556.

Yours faithfully

MAJ(NS) NG HAN TONG
ASST DIRECTOR (CONSERVATION & INSPECTORATE)
for DIRECTOR
WATER DEPARTMENT