

Photos of water appliances

Plant room



Income water main not metered. Water flow rate of 1 inch main at average pressure produces 37 Gallons per minute or 140 litres



Cold water on site storage 2m x 1.8m x 1.5m = 5,000 litres



Hot water unvented pressurised hot water cylinders 4 bar storing 2,000 litres hot water



22mm hot water supplies to bathrooms. Flow rate Over average length and at 3bar supplies 25/litres/minute hot only



Twin set cold booster pumps maintain continuous 3 bar to cold water supplies

House fixtures



Kitchen tap



Gardeners WC



Typical freestanding bath



Typical shower



Villeroy and Boch WC



Typical basin taps



Art Deco freestanding bath



Art Deco close coupled WC



Art Deco WC view of cistern with overflow to outside and large

Indoor Pool



Indoor pool 15m x 5m x 1.5m avg depth
Note ducting around perimeter removes
Moist air from evaporation and
recycles heat into pool and water
goes to waste outlet



Weekly backwash can see 40mm
pipe waste going outside
Water drops 7mm

Office



Office sink in kitchen



Office dishwasher



Office WC and basin

LOCK HOUSEMain house occupants (residents)

Ayse Sutton	1
Nicholas Sutton	1
Maximillian Sutton	1
Maximilian Sutton partner (4 years)	1
Cosmo Sutton	1
Lysander Sutton	1
Lysander Sutton partner (1 year)	1
Tatyana Sutton	1
Ferdinand Sutton	1
Guests	2

Average occupancy (a) 11

Baseline water litres/person/day (b) 140.3

Total baseline use House a X b 1543.3

Indoor swimming pool

Length	15
Width	5
Average depth to overflow	1.5
Litres	112,500
Water lost through evaporation (mm)	2
Water lost per week through backwash (mm)	7
Water lost/day through bathing	15
Total baseline water use/day	240
Water use per day factor (Motion baseline 1/12/23)	0.2739%
Calculated baseline	0.2133%

Industry guidance is the swimming pools lose 5mm of water per day through evaporation

Measured drop in water level for weekly backwash and rinse procedure

Family bathing can remove 75 litres of water from swimming pool over weekend from splashing/ water on wet bathing suite

Total baseline use swimming pool/day 240.00

Office

Average number of workers (a) 4

Baseline water litres/person/day (b) 51.5

Total baseline use House a X b 206

Flat above garage

Vacant census occupation 1 bed (a) 1.32

Baseline water litres/person/day (b) 216.9

Total baseline use House a X b 286.308

TOTAL BASELINE WATER USE/PERSON/DAY 2275.608

HOUSE

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)		1.46	0.00	0
	Part flush Volume (litres)		2.96	0.00	0
WC (multiple fittings)	Average effective flushing Volume (litres)	6.98	4.42	0.00	30.85
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	8.00	1.58	1.58	14.22
Bath (where shower also present)	Capacity to overflow(litres)	250.00	0.11	0.00	27.50
Shower (where bath also present)	Flow Rate(litres / minute)	10.00	4.37	0.00	43.70
Bath Only	Capacity to overflow(litres)	2.00	0.50	0.00	1.00
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	8.00	0.44	10.36	13.88
Washing Machine	(Litres/kg dry load)	7.00	2.1	0.00	14.70
Dishwasher	(Litres/place setting)	0.80	3.6	0.00	2.88
Waste disposal unit	(Litres/use)	<input type="checkbox"/> Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
	(5)	Total Calculated use (litres/person/day) =SUM(column 4)			148.73
	(6)	Contribution from greywater (litres/person/day)			0
	(7)	Contribution from rainwater (litres/person/day)			0
	(8)	Normalisation factor			0.91
	(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)			135.34
	(10)	External water use			5.0
	(11)	Total water consumption (Building Regulation 17.K) = (9)+(10)(litres/person/day)			140.3



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OFFICE

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)		1.46	0.00	0
	Part flush Volume (litres)		2.96	0.00	0
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	8.13	1.58	1.58	14.43
Bath (where shower also present)	Capacity to overflow(litres)		0.11	0.00	0
Shower (where bath also present)	Flow Rate(litres / minute)		4.37	0.00	0
Bath Only	Capacity to overflow(litres)		0.50	0.00	0
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	8.52	0.44	10.36	14.11
Washing Machine	(Litres/kg dry load)	8.17	2.1	0.00	17.157
Dishwasher	(Litres/place setting)	1.50	3.6	0.00	5.40
Waste disposal unit	(Litres/use)	<input type="checkbox"/> Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
(5)		Total Calculated use (litres/person/day) =SUM(column 4)			51.10
(6)		Contribution from greywater (litres/person/day)			0
(7)		Contribution from rainwater (litres/person/day)			0
(8)		Normalisation factor			0.91
(9)		Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)			46.50
(10)		External water use			5.0
(11)		Total water consumption (Building Regulation 17.K) =(9)+(10)(litres/person/day)			51.5



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GARAGE FLAT

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)	6	1.46	0.00	8.76
	Part flush Volume (litres)	4.5	2.96	0.00	13.32
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	8.13	1.58	1.58	14.43
Bath (where shower also present)	Capacity to overflow(litres)		0.11	0.00	0
Shower (where bath also present)	Flow Rate(litres / minute)		4.37	0.00	0
Bath Only	Capacity to overflow(litres)	320.00	0.50	0.00	160.00
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	8.57	0.44	10.36	14.13
Washing Machine	(Litres/kg dry load)	8.00	2.1	0.00	16.80
Dishwasher	(Litres/place setting)	1.50	3.6	0.00	5.40
Waste disposal unit	(Litres/use)	<input type="checkbox"/> Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
	(5)	Total Calculated use (litres/person/day) =SUM(column 4)			232.84
	(6)	Contribution from greywater (litres/person/day)			0
	(7)	Contribution from rainwater (litres/person/day)			0
	(8)	Normalisation factor			0.91
	(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)			211.88
	(10)	External water use			5.0
	(11)	Total water consumption (Building Regulation 17.K) = (9) + (10) (litres/person/day)			216.9



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