WATER EFFICIENCY CALCULATOR FOR; NEW DWELLING 'The Stable Barn' at BOLSTONE COURT, HEREFORDSHIRE, HR1 6LZ Green Homes Construction Ltd 01.05.2025

The Stable Barn, is a 3 bedroom dwelling with an occupancy of 4 people, a 3000 litre rainwater harvesting tank, 3no wc's, 1 no. bath and 1 no. shower. It has a kitchen and utility.

G APPENDIX A- WATER EFFICIENCY CALCULATOR FOR NEW DWELLINGS

Table A1: The water efficiency ca						
			(1)	(2)	(3)	(4)
Installation type		Unit of measure	Capacity/ flow rate	Use factor	Fixed use (litres/	Litres/ person/day = [(1) x (2)] + (3
WC (single flush)		Flush volume (litres)	0	4.42	0.00	0.00
WC (dual flush)		Full flush volume (litres)	0	1.46	0.00	0.00
		Part flush volume (litres)	0	2.96	0.00	0.00
WCs (multiple fittings)		Average effective flushing volume (litres)	4.5	4.42	0.00	19.89
Taps (excluding kitchen/utility room taps)		Flow rate (litres/minute)	3.2	1.58	1.58	6.64
Bath (where shower also present)		Capacity to overflow (litres)	165.0	0.11	0.00	18.15
Shower (where bath also present)		Flow rate (litres/minute)	12.1	4.37	0.00	52.88
Bath only		Capacity to overflow (litres)	0	0.50	0.00	0.00
Shower only		Flow rate (litres/minute)	0	5.6	0.00	0.00
Kitchen/ utility room sink taps		Flow rate (litres/minute)	4.5	0.44	10.36	12.34
Washing machine		Litres/kg dry load	7.0	2.1	0.00	14.70
Dishwasher		Litres/place setting	1.2	3.6	0.00	4.32
Waste disposal unit (is one present?)	no	Litres/use	0	3.08	0.00	0.00
Water softner		Litres/person/day	0	1.00	0.00	0.00
		(5)	Total calculated use = (sum column 4)			128.913
		(6)	Contribution from greywater (litres/person/day) from Table 4.6			0.00
		(7)	Contribution from rainwater (litres/person/day) from Table 5.5			34.55
		(8)	Normalised factor			0.91
		(9)	Total water consumption =[(5) - (6) - (7)] x (8)			85.87
		(10)	External water use			5.00
	(11)	Total water consumption = (9) + (10) (litres/person/day)			90.87	