

Annex B - Carbon Appraisal of Garden Waste Delivery Options

OPTION A - Direct deliver and drive through Cricklade									
Vehicle type	Number of vehicles in operation	mpg of vehicle*	Miles per litre conversion for vehicle	Estimated total mileage per year (miles/annum)	Estimated fuel consumption (litres)	DEFRA emissions conversion factor	Estimated carbon footprint from vehicle (CO ₂ e tonnes)	WTT Emissions from diesel consumption (CO ₂ e tonnes)	
7.5t RCV	1	5.5	1.2	22,474	18,576	2.627	49	11	
22t RCV	1	3.8	0.8	25,959	31,056	2.627	82	19	
26t RCV	4	3.5	0.8	101,511	527,406	2.627	1,385	326	
							TOTAL	1,516	357
									1,873

OPTION B - Direct deliver and drive the alternate route around Cricklade									
Vehicle type	Number of vehicles in operation	mpg of vehicle*	Miles per litre conversion for vehicle	Estimated total mileage per year (miles/annum)	Estimated fuel consumption (litres)	DEFRA emissions conversion factor	Estimated carbon footprint from vehicle (CO ₂ e tonnes)	WTT Emissions from diesel consumption (CO ₂ e tonnes)	
7.5t RCV	1	5.5	1.2	26,593	21,980	2.627	58	14	
22t RCV	1	3.8	0.8	30,764	36,804	2.627	97	23	
26t RCV	4	3.5	0.8	122,185	634,816	2.627	1,668	393	
							TOTAL	1,822	429
									2,251

OPTION C - Deliver waste to Love Lane transfer station for onward bulk delivery								
Vehicle type	Number of vehicles in operation	mpg of vehicle*	Miles per litre conversion	Estimated total mileage per year (miles/annum)	Estimated fuel consumption (litres)	DEFRA emissions conversion	Estimated carbon footprint from vehicle (CO ₂ e tonnes)	WTT Emissions from diesel consumption (CO ₂ e tonnes)

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			for vehicle			factor		
Collection mileage								
7.5t RCV	1	5.5	1.2	18,178	15,025	2.627	39	9
22t RCV	1	3.8	0.8	21,276	25,454	2.627	67	16
26t RCV	4	3.5	0.8	82,409	428,161	2.627	1,125	265
Bulked Transport mileage (love Lane to Hills)								
40t LGV	1	6.6	1.5	8,000	5,510	2.627	14	3
						TOTALS	1,246	293
								1,539

*mpg value from department of transport statistics 2018