

Appendix 9.1

Waste Breakdown of Residual Waste

Table A9.1.1 “Do Nothing” Scenario Anthropogenic CO₂ emissions from the grate incinerator of 235,000 tonnes of MSW (tonnes CO₂ eq) based on EU and UK Guidance using the UK DEFRA (UK DEFRA/ERM, 2006) Total Carbon and Fossil Carbon Defaults

Type	Waste Totals <small>Note 1</small>	Waste Fraction	Total Carbon Content (wet)	Fossil Carbon Fraction	CO ₂ Emissions (Tonnes/Annum)
Paper	46,095	19.6%	31.9%	0.0%	0
Glass	5,775	2.5%	0.3%	0.0%	0
Plastic	37,758	16.1%	51.3%	100.0%	71,023
Metals	8,105	3.4%	0.0%	100.0%	0
Aqueous Waste	6,682	2.8%	0.0%	0.0%	0
Nappies	13,130	5.6%	24.0%	10.0%	1,155
Textiles	18,045	7.7%	39.9%	50.0%	13,200
Organics	61,210	26.0%	13.5%	0.2%	61
WEEE	1,360	0.6%	0.0%	100.0%	0
Wood	1,810	0.8%	42.5%	0.0%	0
Others	35,030	14.9%	21.8%	50.0%	14,000
Total	235,000	100.0%			99,440

Note 1 Waste breakdown based on latest EPA statistics (EPA/RPS, 2018; EPA/CTC, 2018)

Table A9.1.2 “Do Nothing” Scenario Anthropogenic CO₂ emissions from the grate incinerator of 235,000 tonnes of MSW (tonnes CO₂ eq) based on EU and UK Guidance using the EU (EC, 2001) Total Carbon and Fossil Carbon Defaults

Type	Waste Totals Note 1	Waste Fraction	Total Carbon Content (wet)	Fossil Carbon Fraction	CO ₂ Emissions (Tonnes/Annum)
Paper	46,095	19.6%	33.0%	0.0%	0
Glass	5,775	2.5%	0.0%	0.0%	0
Plastic	37,758	16.1%	61.0%	100.0%	84,453
Metals	8,105	3.4%	0.0%	100.0%	0
Aqueous Waste	6,682	2.8%	0.0%	0.0%	0
Nappies	13,130	5.6%	24.0%	10.0%	1,155
Textiles	18,045	7.7%	39.0%	50.0%	12,902
Organics	61,210	26.0%	19.0%	0.2%	85
WEEE	1,360	0.6%	0.0%	100.0%	0
Wood	1,810	0.8%	42.5%	0.0%	0
Others	35,030	14.9%	24.0%	29.0%	8,940
Total	235,000	100.0%			107,535

Note 1 Waste breakdown based on latest EPA statistics (EPA/RPS, 2018; EPA/CTC, 2018)

Table A9.1.3 “Do Something” Scenario Anthropogenic CO₂ emissions from the grate incinerator of 250,000 tonnes of MSW (tonnes CO₂ eq) based on EU and UK Guidance using the UK DEFRA (UK DEFRA/ERM, 2006) Total Carbon and Fossil Carbon Defaults

Type	Waste Totals ^{Note 1}	Waste Fraction	Total Carbon Content (wet)	Fossil Carbon Fraction	CO ₂ Emissions (Tonnes/Annum)
Paper	46,095	18.4%	31.9%	0.0%	0
Glass	5,775	2.3%	0.3%	0.0%	0
Plastic	42,558	17.0%	51.3%	100.0%	80,052
Metals	8,105	3.2%	0.0%	100.0%	0
Aqueous Waste	16,882	6.8%	0.0%	0.0%	0
Nappies	13,130	5.3%	24.0%	10.0%	1,155
Textiles	18,045	7.2%	39.9%	50.0%	13,200
Organics	61,210	24.5%	13.5%	0.2%	61
WEEE	1,360	0.5%	0.0%	100.0%	0
Wood	1,810	0.7%	42.5%	0.0%	0
Others	35,030	14.0%	21.8%	50.0%	14,000
Total	250,000	100.0%			108,468

Note 1 Waste breakdown based on latest EPA statistics (EPA/RPS, 2018; EPA/CTC, 2018)

Table A9.1.4 “Do Something” Scenario Anthropogenic CO₂ emissions from the grate incinerator of 250,000 tonnes of MSW (tonnes CO₂ eq) based on EU and UK Guidance using the EU (EC, 2001) Total Carbon and Fossil Carbon Defaults

Type	Waste Totals Note 1	Waste Fraction	Total Carbon Content (wet)	Fossil Carbon Fraction	CO ₂ Emissions (Tonnes/Annum)
Paper	46,095	18.4%	33.0%	0.0%	0
Glass	5,775	2.3%	0.0%	0.0%	0
Plastic	42,558	17.0%	61.0%	100.0%	95,189
Metals	8,105	3.2%	0.0%	100.0%	0
Aqueous Waste	16,882	6.8%	0.0%	0.0%	0
Nappies	13,130	5.3%	24.0%	10.0%	1,155
Textiles	18,045	7.2%	39.0%	50.0%	12,902
Organics	61,210	24.5%	19.0%	0.2%	85
WEEE	1,360	0.5%	0.0%	100.0%	0
Wood	1,810	0.7%	42.5%	0.0%	0
Others	35,030	14.0%	24.0%	29.0%	8,940
Total	250,000	100.0%			118,271

Note 1 Waste breakdown based on latest EPA statistics (EPA/RPS, 2018; EPA/CTC, 2018)