

Appendix D Waste Arisings, Management & Capacity Data Tables

Table D.1 Current Waste Arisings, 2019 (tonnes)

Waste source		Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Local Authority Collected Waste (LACW)	Household	122,020	128,278	111,474	103,608	465,380
	Non-household	14,877	13,885	9,998	20,172	58,932
Commercial & Industrial waste (C&I)	Permitted sites	30,561	43,829	61,486	52,641	188,517
	West Midlands (WPA not codeable)	32,446	29,856	25,755	24,748	112,805
Construction, Demolition and Excavation waste (CD&E)	Permitted sites	150,363	81,869	60,660	239,598	532,489
	West Midlands (WPA not codeable)	113,309	74,389	85,317	70,363	343,377
	Exempt sites	U1 and U3 exemptions				465,000
Agricultural waste	Permitted sites	170	1,123	87	263	1,643
	West Midlands (WPA not codeable)	2	1	3	1	6
	Exempt sites	U10, U11, T24 and T25 exemptions				9,000
Waste managed at exempt sites*		All exemptions excluding U1, U3, U10, U11, T24 and T25				420,000
Hazardous waste		17,274	52,449	68,621	34,012	172,356
Retailer take-back and Producer Compliance Scheme collections	Batteries	Estimate excludes LACW batteries				243
	WEEE	Estimate excludes LACW WEEE				160
Low level radioactive waste (LLRW)		No publicly available information on LLRW quantities – see Appendix E for registered producers				
Total waste arisings		481,021	425,677	423,401	545,406	2,769,908

Table D.2 Current Waste Management, 2019 **Error! Bookmark not defined.**

	Management method	LACW**	C&I waste	CD&E	Hazardous*	Agricultural waste	Total waste arisings
Dudley	Reuse, recycling and composting	49,493 (36%)	12,117 (38%)	5,546 (4%)	0 (0%)	166 (98%)	67,666 (20%)
	Recovery and treatment***	85,851 (62%)	10,995 (33%)	5,508 (3%)	10,103 (60%)	0 (0%)	111,110 (33%)
	Transfer	0 (0%)	6,642 (21%)	6,585 (4%)	6,610 (35%)	0 (0%)	18,183 (5%)
	Disposal	2,231 (2%)	2,246 (8%)	134,133 (89%)	841 (5%)	4 (2%)	140,139 (42%)
Sandwell	Reuse, recycling and composting	48,475 (33%)	14,141 (32%)	12,123 (15%)	0 (0%)	1,112 (100%)	75,751 (23%)
	Recovery and treatment	88,883 (62%)	8,766 (17%)	17,169 (21%)	36,358 (68%)	0 (0%)	149,148 (46%)
	Transfer	0 (0%)	17,167 (38%)	37,369 (45%)	15,151 (29%)	0 (0%)	69,688 (21%)
	Disposal	6,626 (4%)	5,529 (12%)	16,155 (19%)	2,152 (3%)	0 (0%)	29,286 (9%)
Walsall	Reuse, recycling and composting	48,480 (40%)	16,160 (26%)	24,239 (40%)	0 (0%)	10 (12%)	88,881 (28%)
	Recovery and treatment	68,683 (56%)	8,823 (13%)	4,434 (7%)	40,402 (59%)	9 (10%)	121,121 (39%)
	Transfer	0 (0%)	36,356 (58%)	14,141 (23%)	22,224 (33%)	68 (78%)	72,723 (23%)
	Disposal	5,483 (4%)	2,159 (3%)	18,181 (30%)	6,586 (9%)	0 (0%)	30,304 (10%)
Wolverhampton	Reuse, recycling and composting	45,453 (37%)	26,262 (50%)	63,631 (26%)	0 (0%)	263 (100%)	135,135 (30%)

	Management method	LACW**	C&I waste	CD&E	Hazardous*	Agricultural waste	Total waste arisings
	Recovery and treatment	72,715 (58%)	16,157 (30%)	6,640 (3%)	22,224 (66%)	0 (0%)	116,116 (26%)
	Transfer	0 (0%)	9,908 (17%)	8,820 (3%)	9,902 (27%)	0 (0%)	26,263 (6%)
	Disposal	7,673 (5%)	2,156 (3%)	162,161 (68%)	3,255 (8%)	0 (0%)	173,172 (38%)
West Midlands (apportioned to Black Country)	Reuse, recycling and composting		60,596 (53%)	49,486 (14%)		0 (0%)	108,108 (24%)
	Recovery and treatment		21,211 (19%)	103,103 (30%)		0 (1%)	124,124 (27%)
	Transfer		12,120 (11%)	97,965 (28%)		6 (94%)	109,108 (24%)
	Disposal		20,199 (18%)	95,950 (28%)		0 (5%)	115,115 (25%)
Black Country	Reuse, recycling and composting	190,190 (36%)	128,127 (42%)	154,153 (18%)	0 (0%)	2,156 (95%)	473,473 (25%)
	Recovery and treatment	313,313 (60%)	63,626 (21%)	136,135 (16%)	109,108 (63%)	9 (1%)	621,620 (33%)
	Transfer	0 (0%)	80,799 (27%)	162,161 (18%)	53,526 (31%)	74 (4%)	295,294 (16%)
	Disposal	20,201 (4%)	31,309 (10%)	425,424 (48%)	11,107 (6%)	4 (0%)	486,486 (26%)

Notes:

Totals may not sum due to rounding.

The table excludes waste managed at exempt sites (approx. 890kt).

Total Local Authority collected waste managed may not match total Local Authority collected waste collected arisings due to stockpiling of waste between reporting periods.

*LACW and Hazardous 'recovery and treatment' method includes 'other' fate

(**) LACW data is for the 2019/20 monitoring year rather than the 2019 calendar year

(***) Recovery and treatment for all areas includes energy recovery/ recovery of waste as 'Refuse Derived Fuel' (RDF).

Table D.3 Current Waste Arisings, 2020 (tonnes)

Waste source		Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Local Authority Collected Waste (LACW)	Household	127,710	125,714	114,182	104,513	472,119
	Non-household	14,764	11,038	9,241	16,205	51,248
Commercial & Industrial waste (C&I)	Permitted sites	31,089	37,917	75,517	48,496	193,019
	West Midlands (WPA not codeable)	28,253	25,856	22,325	21,189	97,623
Construction, Demolition and Excavation waste (CD&E)	Permitted sites	105,686	75,981	122,043	261,843	565,553
	West Midlands (WPA not codeable)	98,924	66,724	74,359	59,752	299,758
	Exempt sites	U1 and U3 exemptions				465,000
Agricultural waste	Permitted sites	263	183	53	577	1,077
	West Midlands (WPA not codeable)	10	2	14	3	29
	Exempt sites	U10, U11, T24 and T25 exemptions				9,000
Waste managed at exempt sites*		All exemptions excluding U1, U3, U10, U11, T24 and T25				420,000
Hazardous waste		18,031	48,390	61,639	27,740	155,800
Retailer take-back and Producer Compliance Scheme collections	Batteries	Estimate excludes LACW batteries				237
	WEEE	Estimate excludes LACW WEEE				113
Low level radioactive waste (LLRW)		No publicly available information on LLRW quantities – see Appendix E for registered producers				
Total waste arisings		424,729	391,806	479,371	540,319	2,730,576

Table D.4 Current Waste Management, 2020

	Management method	LACW**	C&I waste	CD&E	Hazardous*	Agricultural waste	Total waste arisings
Dudley	Reuse, recycling and composting	49,491 (35%)	8,839 (27%)	6,633 (6%)	0 (0%)	263 (100%)	64,641 (22%)
	Recovery and treatment***	90,903 (64%)	13,127 (41%)	11,113 (11%)	12,116 (65%)	0 (0%)	126,126 (42%)
	Transfer	0 (0%)	7,750 (24%)	2,169 (2%)	4,442 (25%)	0 (0%)	14,136 (5%)
	Disposal	3,263 (2%)	2,246 (8%)	86,862 (82%)	2,194 (11%)	0 (0%)	93,933 (31%)
Sandwell	Reuse, recycling and composting	40,400 (29%)	11,107 (28%)	9,899 (12%)	0 (0%)	102 (56%)	60,599 (20%)
	Recovery and treatment	90,902 (66%)	8,754 (20%)	26,256 (34%)	32,319 (66%)	79 (43%)	156,155 (52%)
	Transfer	0 (0%)	12,121 (32%)	3,283 (4%)	15,146 (30%)	2 (1%)	30,296 (10%)
	Disposal	6,640 (5%)	7,750 (20%)	38,384 (51%)	2,177 (4%)	0 (0%)	54,541 (18%)
Walsall	Reuse, recycling and composting	39,393 (32%)	15,153 (20%)	28,277 (23%)	0 (0%)	2 (3%)	82,824 (22%)
	Recovery and treatment	71,708 (58%)	6,644 (9%)	5,548 (4%)	39,386 (63%)	4 (8%)	121,121 (32%)
	Transfer	0 (0%)	47,465 (62%)	88,883 (72%)	18,182 (30%)	47 (89%)	153,153 (40%)
	Disposal	13,126 (10%)	7,717 (9%)	435 (0%)	5,475 (8%)	0 (0%)	25,250 (7%)
Wolverhampton	Reuse, recycling and composting	41,406 (34%)	27,274 (57%)	81,812 (31%)	0 (0%)	577 (100%)	150,149 (33%)
	Recovery and treatment	74,743 (62%)	12,122 (25%)	19,192 (7%)	17,174 (63%)	0 (0%)	123,123 (27%)

	Management method	LACW**	C&I waste	CD&E	Hazardous*	Agricultural waste	Total waste arisings
	Transfer	0 (0%)	9,856 (18%)	7,723 (3%)	9,851 (31%)	0 (0%)	24,243 (5%)
	Disposal	5,512 (4%)	236 (0%)	154,154 (59%)	2,181 (7%)	0 (0%)	161,161 (35%)
West Midlands (apportioned to Black Country)	Reuse, recycling and composting		51,509 (52%)	41,407 (14%)		24 (83%)	92,916 (23%)
	Recovery and treatment		22,215 (22%)	113,112 (38%)		0 (0%)	134,134 (34%)
	Transfer		9,890 (9%)	66,657 (22%)		5 (16%)	75,746 (19%)
	Disposal		16,163 (17%)	81,805 (27%)		0 (1%)	97,968 (24%)
Black Country	Reuse, recycling and composting	169,169 (32%)	113,112 (39%)	165,165 (19%)	0 (0%)	968 (88%)	448,448 (24%)
	Recovery and treatment	326,325 (62%)	61,605 (21%)	175,174 (20%)	100,996 (64%)	83 (8%)	661,660 (36%)
	Transfer	0 (0%)	84,836 (29%)	166,165 (19%)	46,458 (29%)	54 (5%)	295,295 (16%)
	Disposal	27,268 (5%)	34,336 (12%)	360,359 (42%)	10,102 (7%)	0 (0%)	431,430 (23%)

Notes:

Totals may not sum due to rounding.

The table excludes waste managed at exempt sites (approx. 890kt).

Total Local Authority collected waste managed may not match total Local Authority collected waste collected arisings due to stockpiling of waste between reporting periods.

*LACW and Hazardous 'recovery and treatment' method includes 'other' fate

(**) LACW data is for the 2020/21 monitoring year rather than the 2020 calendar year

(***) Recovery and treatment for all areas includes energy recovery/ recovery of waste as 'Refuse Derived Fuel' (RDF).

Table D.5 Waste Received at Permitted Sites and Incinerators, 2019 (tonnes)

Facility type	Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Metal Recycling Sites (MRS)	150,118	475,073	385,103	53,395	1,063,690
Transfer	96,230	385,964	303,379	154,610	940,182
Treatment					
Recycling	166,621	375,488	152,511	27,492	722,111
Recovery	4,215	164,516	177,880	109,431	456,042
Incineration (with and without energy recovery)	95,723	3,042	-	114,414	213,179
Total	512,907	1,404,083	1,018,872	459,343	3,395,205

Notes:

1. This is the underlying data used in Table 2.9 as the 'baseline' estimate of waste management capacity in the Black Country in 2019, and that 'waste received' at landfill sites and on/ in land sites has been omitted as these are temporary uses and landfill capacity is measured differently, i.e. cubic metres of void space rather than annual throughput in tonnes per annum.
2. The 2019 WDI 'waste received' data has been adjusted to remove waste received at two sites outside the Black Country which are incorrectly coded to Wolverhampton in the 2019 WDI (Aqua Force in Staffordshire and Swancote Farm in Shropshire). The Transfer figures for Sandwell and Walsall have also been adjusted to take account of another coding error in the 2019 WDI whereby Network Rail, Bescot Sidings in Sandwell is incorrectly coded to Walsall.

Table D.6 Existing Waste Management Capacity at LACW sites, 2019 (tonnes per annum)

Facility type		Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Incineration (EfW)		95,723			114,414	210,137
Transfer	WTS	23,064	131,024	102,762	18,955	275,804
	HWRC	16,242	21,993	16,146	25,194	79,575
Total		135,029	153,017	118,908	158,563	565,517

Table D.7 Landfill Capacity in the Black Country – Void space (cubic meters) and total capacity (tonnes) remaining at permitted sites at end of 2019

Site	Type	Authority	Estimated Void Space at end 2019 (m ³)	Estimated Total Capacity (tonnes)	Permitted End Date
Inert Only					
No permitted sites					
Non-Hazardous					

Site	Type	Authority	Estimated Void Space at end 2019 (m ³)	Estimated Total Capacity (tonnes)	Permitted End Date
Himley	Non-Hazardous (SNRHW)	Dudley	418,953	356,110	31/12/2025
Edwin Richards	Non-Hazardous	Sandwell	10,637,117	9,041,549	21/02/2042
Highfields South	Non-Hazardous	Walsall	1,029,284	874,891	31/12/2025
Total Non-Hazardous Void Space at end 2019			12,085,354	10,272,551	
Hazardous					
No permitted sites					

Source: Environment Agency Remaining Landfill Capacity: England, as at end 2019, void space converted to tonnes using the formula recommended in the former PPG10 Companion Guide (0.85 tonne = 1 cubic metre). All figures rounded to the nearest 1,000 tonnes. Totals may not sum due to rounding.

Table D.8 Waste Received at Permitted Sites and Incinerators, 2020 (tonnes)

Facility type	Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Metal Recycling Sites (MRS)	227,533	286,292	292,175	39,666	845,666
Transfer	93,772	234,515	301,586	146,578	776,450
Treatment					
Recycling	156,078	299,395	154,697	45,248	655,417
Recovery	6,392	90,229	166,591	93,339	356,551
Incineration (with and without energy recovery)	98,386	8,193	-	114,423	221,002
Total	582,161	918,623	915,049	439,254	2,855,086

Table D.9 Existing Waste Management Capacity at LACW sites, 2020 (tonnes per annum)

Facility type	Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Incineration (EFW)	98,386			114,423	212,809
Transfer					
WTS	24,318	130,174	118,404	20,848	293,744
HWRC	10,381	10,433	8,243	17,404	46,461
Total	133,085	140,607	126,648	152,675	553,015

Table D.10 Landfill Capacity in the Black Country – Void space (cubic meters) and total capacity (tonnes) remaining at permitted sites at end of 2020

Site	Type	Authority	Estimated Void Space at end 2020 (m ³)	Estimated Total Capacity (tonnes)	Permitted End Date
Inert Only					
No permitted sites					
Non-Hazardous					
Himley	Non-Hazardous (SNRHW)	Dudley	336,279	285,837	31/12/2025
Edwin Richards	Non-Hazardous	Sandwell	10,372,333	8,816,483	21/02/2042
Highfields South	Non-Hazardous	Walsall	918,317	780,569	31/12/2025
Total Non-Hazardous Void Space at end 2020			11,626,929	9,882,890	
Hazardous					
No permitted sites					

Source: Environment Agency Remaining Landfill Capacity: England, as at end 2020, void space converted to tonnes using the formula recommended in the former PPG10 Companion Guide (0.85 tonne = 1 cubic metre). All figures rounded to the nearest 1,000 tonnes. Totals may not sum due to rounding.

Table D.11 Specialist Waste Management Capacity, 2019 (tonnes per annum unless otherwise specified)

Facility type	Dudley	Sandwell	Walsall	Wolverhampton	Black Country	
Agricultural waste	Exempt Sites	U10, U11, T24 and T25 exemptions			11,350	
Hazardous waste	Treatment	0	72,840	84,795	62,369	220,003
	Recovery	18,885	31,718	56,377	963	107,942
	Transfer	4,493	30,592	68,260	37,219	140,563
	Disposal*	452	2	1	1	455
	Other**	7	194	153	0	354
Low level radioactive waste (LLRW)	No publicly available information on facility capacities to treat LLRW				Not known	
Construction waste exemptions	U1 and U3 exemptions				580,000	

Facility type	Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Disposal (D) exemptions		D1 to D8 exemptions			30,000
Storage (S) exemptions		S1 to S3 exemptions			460,000
Treatment (T) exemptions	T1 to T33 excluding T24 and T25 (Agricultural and food processing waste exemptions)				360,000
Use (U) exemptions		U2, U4 to U9 and U12 to U16 exemptions			130,000
Wastewater treatment DWF (m ³ /d) ^{***}	8,500	76,032	29,684	47,500	161,716
Wastewater sludge treatment Tonnes	-	-	-	72,914	72,914
ELV recycling and depollution	7,140	31,169	42,479	3,193	83,980
WEEE treatment		4,184	10,994		15,178

*Includes landfill and incineration without energy recovery

**Includes 'other' fate and rejected

***DWF (M3/d) = Daily Water Flow (cubic metres per day)

Table D.12 Wastewater Treatment Capacity in the Black Country - Load Entering Black Country Wastewater Treatment Facilities (p.e.), 2012 - 2018

Treatment Facility	Authority	Permitted Maximum DWF (p.e.) ²	Load Entering, UWWTP (p.e.), 2012	Load Entering, UWWTP (p.e.), 2014	Load Entering, UWWTP (p.e.), 2016	Load Entering, UWWTP (p.e.), 2018
Lower Gornal	Dudley	40,000	33,757	34,586	34,479	36,187
Birmingham & Black Country No. 2 (Ray Hall)³	Sandwell	210,000	102,237	103,538	111,416	122,442
Walsall North (Walsall Wood)	Walsall	27,500	22,266	22,472	23,417	21,941
Walsall South (Goscote)	Walsall	130,000	109,299	110,441	116,012	110,180
Wolverhampton South (Barnhurst)	Wolverhampton	170,000	145,559	155,532	146,888	144,829
TOTAL		577,500	413,118	426,569	432,212	435,579

Source: Waterbase – UWWTD: Urban Waste Water Treatment Directive – reported data Microsoft Access database file > T_UWWTPS sheet filtered by UKG35 and UKG34, 2014 and 2018,4 European Commission Urban Waste Water Website: United Kingdom - UWWTD Treatment Plants, Treatment map

Notes

1. DWF = Daily Water Flow, p.e. = population equivalent.
2. Permitted Maximum DWF/ Load Entering at Ray Hall (Birmingham & Black Country No.2) is incorrectly referred to as Willenhall (Birmingham & Black Country No.3) in the T_UWWTPS spreadsheets and on the EC Urban Waste Water website, but is correctly referred to as Ray Hall in the T_Agglomerations spreadsheet, and it is clear from the interactive map on the EU Urban Waste Water website that the data relates to Ray Hall. The Willenhall facility had closed by 2014.
3. UWWTPS = Urban Waste Water Treatment Plants.
4. Permitted Maximum DWF / Load Entering is expressed by p.e. of the 'agglomeration' the wastewater treatment plant serves. This means the highest biochemical oxygen demand (BOD) load that enters the wastewater treatment plant, including any trade and tourist p.e.
5. Information published by the Environment Agency indicates that the p.e. may be calculated in the following way: the maximum average weekly load entering the treatment plant during the year, where 60g of BOD is equivalent to 1 person per day.

Table D13 Specialist Waste Management Capacity, 2020 (tonnes per annum unless otherwise specified)

Facility type		Dudley	Sandwell	Walsall	Wolverhampton	Black Country
Agricultural waste	Exempt Sites		U10, U11, T24 and T25 exemptions			11,350
Hazardous waste	Treatment	5	80,781	77,007	64,630	222,422
	Recovery	13,750	25,623	48,759	1,603	89,736
	Transfer	1,941	29,693	66,981	34,926	133,542
	Disposal*	1,493	1,350	1	0	2,843
	Other**	0	27	481	4	511
ELV recycling and depollution		96,191	32,606	30,330	2,557	161,685
WEEE treatment		166	4,339	11,051	489	16,045

*Includes landfill and incineration without energy recovery

**Includes 'other' fate and rejected

***DWF (M3/d) = Daily Water Flow (cubic metres per day)

Table D.14 Black Country Baseline Waste Capacity Estimate, 2019 (tonnes per annum)

Capacity Type	Dudley	Sandwell	Walsall	W'ton	Black Country
Recycling and Recovery (annual throughput capacity, tonnes per annum)					
<i>Incinerator</i>	93,768	10,014	0	110,370	214,151
<i>MRS</i>	136,739	472,870	367,856	49,975	1,027,440
<i>Treatment - Recycling</i>	111,560	407,299	108,631	28,024	655,514
<i>Treatment - Recovery</i>	13,916	176,444	158,093	57,378	405,831

Capacity Type	Dudley	Sandwell	Walsall	W'ton	Black Country
Recycling and Recovery Total	299,384	1,130,909	516,207	201,787	2,148,286
<i>Treatment - Recycling – Inert/C&D only*</i>	75,735	226,446	66,032	12,562	380,774
Transfer (annual throughput capacity, tonnes per annum)					
Transfer	149,983	509,318	340,876	164,291	1,164,468
Landfill (void space in cubic metres (m³) and total capacity in tonnes)					
<i>Inert Only – m³</i>	0	0	0	0	0
<i>Inert Only – tonnes</i>	0	0	0	0	0
<i>Non-Haz – m³</i>	418,953	10,637,117	1,029,284	0	12,085,354
<i>Non-Haz - tonnes</i>	356,110	9,041,549	874,891	0	10,272,551
<i>Hazardous – m³</i>	0	0	0	0	0
<i>Hazardous – tonnes</i>	0	0	0	0	0
Landfill Total – m ³	418,953	10,637,117	1,029,284	0	12,085,354
Landfill Total - tonnes	356,110	9,041,549	874,891	0	10,272,551

Source: Landfill - Table 3.14. Includes capacity at permitted sites only. Remaining landfill capacity in Dudley and Walsall is expected to be used up by the end of 2025.

Table D.15 Black Country Baseline Waste Capacity Estimate, 2020 (tonnes per annum)

Capacity Type	Dudley	Sandwell	Walsall	W'ton	Black Country
Recycling and Recovery (annual throughput capacity, tonnes per annum)					
<i>Incinerator</i>	98,386	8,193	-	114,423	221,002
<i>MRS</i>	227,533	286,292	292,175	39,666	845,666
<i>Treatment - Recycling</i>	156,078	299,395	154,697	45,248	655,417
<i>Treatment - Recovery</i>	6,392	90,229	166,591	93,339	356,551
Recycling and Recovery Total	488,389	684,109	613,463	292,676	2,078,636
Transfer (annual throughput capacity, tonnes per annum)					
Transfer	93,772	234,515	301,586	146,578	776,450
Landfill (void space in cubic metres (m³) and total capacity in tonnes)					
<i>Inert Only – m³</i>	0	0	0	0	0
<i>Inert Only – tonnes</i>	0	0	0	0	0
<i>Non-Haz – m³</i>	336,279	10,372,333	918,317	0	11,626,929

Capacity Type	Dudley	Sandwell	Walsall	W'ton	Black Country
Non-Haz - tonnes	285,837	8,816,483	780,569	0	9,882,890
Hazardous – m ³	0	0	0	0	0
Hazardous – tonnes	0	0	0	0	0
Landfill Total – m ³	336,279	10,372,333	918,317	0	11,626,929
Landfill Total - tonnes	285,837	8,816,483	780,569	0	9,882,890

Table D.16 Waste imports to and exports from the Black Country, 2019 (tonnes)

	Imports to BC facilities	Exports to permitted sites in England	Black Country waste arisings treated within Black Country	Net imports
Non-hazardous waste	3,469,949	1,880,579	942,723	646,646
Hazardous waste	499,600	76,243	32,643	390,713
Total	3,969,548	1,956,822	975,366	1,037,360

Figures rounded to the nearest 1,000 tonnes.

Source: Environment Agency Waste Data Interrogator (WDI).

Table D.17 Origin Region/ Country and Waste Management by Site Category of Waste Received in the Black Country, 2019 (tonnes)

Origin Region/ Country	Landfill	MRS	Transfer	Treatment	Total	%
East Midlands	3,228	27,325	35,177	83,902	149,632	3.77%
East of England	13	22,257	21,348	31,369	74,986	1.89%
London	3	17,248	8,410	45,947	71,608	1.80%
North East	-	16,995	16,251	12,408	45,654	1.15%
North West	2,202	22,568	33,148	27,772	85,690	2.16%
South East	133	32,040	9,146	65,864	107,182	2.70%
South West	343	47,179	46,193	40,929	134,644	3.39%
West Midlands	568,016	835,194	728,485	1,005,492	3,137,187	79.03%
Yorks & Humber	173	6,823	19,828	50,207	77,030	1.94%
N Ireland	-	1,194	63	2,351	3,608	0.09%
Scotland	-	1,484	1,477	5,866	8,826	0.22%

Origin Region/ Country	Landfill	MRS	Transfer	Treatment	Total	%
Wales	232	27,588	20,658	17,193	65,671	1.65%
Outside UK	-	5,796	-	2,033	7,828	0.20%
Total	574,343	1,063,690	940,182	1,391,333	3,969,548	100.00%

Table D.18 Summary of Black Country Waste Imports/ Exports, 2019 (tonnes) by Site Category – Non-Hazardous and Hazardous Waste

Waste imports/exports	Incinerator	Landfill	MRS	Transfer	Treatment	On/in Land	Total
Imports - Waste Received in the Black Country	213,179	574,343	1,063,690	940,182	1,178,154	-	3,969,548
Imports - % by Site Category	5.37%	14.47%	26.80%	23.68%	29.68%	-	100.00%
Exports - Waste Originating in the Black Country	287,397	446,680	229,759	485,467	473,409	34,099	1,956,811
Exports - % by Site Category	14.7%	22.8%	11.7%	24.8%	24.2%	1.7%	100.0%

Source: Tables 2.18 – 2.19 (Tables D16, D17, D19 and D21).

Table D19 Destination region and waste management by site category of origin waste Black Country, 2019 (tonnes)

Destination	Landfill	MRS	Transfer	Treatment	On/in Land	Total	%
East Midlands	137	4,971	10,575	72,355	-	88,038	4.50%
East of England	189	654	32	14,905	-	15,781	0.81%
London	-	38	6,752	7,903	-	14,694	0.75%
North East	201	1,184	37,896	3,682	-	42,962	2.20%
North West	9,094	1,539	1,012	15,297	-	26,942	1.38%
South East	-	305	224	12,008	-	12,537	0.64%
South West	0	27,552	340	4,933	-	32,825	1.68%
Wales	0	6,973	1,291	24,883	-	33,147	1.69%
West Midlands	437,054	170,770	392,552	623,230	34,099	1,657,705	84.71%

Destination	Landfill	MRS	Transfer	Treatment	On/in Land	Total	%
Yorks & Humber	5	22,746	36,084	6,492	-	65,327	3.34%
Total	446,680 (23%)	229,759 (12%)	485,467 (25%)	760,806 (39%)	34,099 (2%)	1,956,811	100.00%

Table D.21 Net imports of waste for management in the Black Country (tonnes), 2015-2019, average inputs, by Site Category

	Recycling	Recovery	Transfer	Disposal	Total
Imports of waste for management	1,682,954	619,548	1,164,468	802,683	4,269,653
Black Country waste imports	172,720	191,475	386,123	225,048	975,366
Net imports of waste for management	1,510,234	428,073	778,344	577,635	3,294,286

Based on 5-year average WDI inputs at permitted facilities and incinerators in the Black Country, 2015-2019. Black Country waste import tonnages are taken from the 2019 WDI.