Waste Needs Assessment Addendum Report

Hertfordshire Minerals and Waste Local Plan 2040

Hertfordshire County Council

Hertfordshire

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Hertfordshire

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1. Introduction

1.1. This Addendum Report to the Waste Needs Assessment (WNA) (June 2022) is intended to supersede the figures and data tables set out in that document.

1.2. This addendum has been prepared to support Hertfordshire's Minerals and Waste Local Plan and ensure that its preparation is informed by the most up-to-date information available.

1.3. The 2021 Waste Data Interrogator (WDI) was first published by the Environment Agency (EA) on 23 September 2022, with the latest revised version being released on 13 January 2023. The latest versions available at the time of preparation of this document were Wastes Removed - Version 3 and Wastes Received - Version 2.

1.4. The 2021 Hazardous Waste Data Interrogator (HWDI) was first published by the EA on 30 September 2022 with no further revisions at the time of preparation of this document.

1.5. It should be noted that at the time of going to print (January 2024), a further version of the WDI was published (5 January 2024). This WNA may be revised in due course to take account of the most recent data.

2. Revision Notes

2.1. The 2021 WDI and 2021 HWDI have been used to derive Hertfordshire's waste arisings for the calendar year of 2021 for Commercial and Industrial (C&I) waste, Construction, Demolition & Excavation (CD&E) waste and for Hazardous waste.

2.2. Arisings for the 2021 baseline Local Authority Collected Waste (LACW) data have been obtained from the Local Authority Collected Waste Management Statistics[1], which sources the data from WasteDataFlow.

[1] https://www.gov.uk/government/statistical-data-sets/env18-local-authority-collected-waste-annual-results-tables

2.3. Actual reported housing completion figures for 2021/22 in Hertfordshire (gross and net) have also been used to replace previous estimates.

3. Hertfordshire Waste Arisings

Local Authority Collected Waste

3.1. Table 1 from Section 4 of the WNA (June 2022) is replaced by Revised Table 1 below which has been updated with LACW data for 2021/22, derived from the Local Authority Collected Waste Management Statistics.

Revised Table 1 - LACW Arisings 2019-2021

Million tonnes	**2019**	**2020**	**2021**	**% Of total for 2021**
Total	**0.510**	**0.541**	**0.534**	
Recycling	0.140	0.151	0.147	28%
Composting	0.121	0.129	0.130	24%
Other treatment and recovery	0.173	0.182	0.178	33%
EfW/ERF	*0.166*	*0.173*	*0.169*	*31%*
AD	*0.007*	*0.009*	*0.009*	*2%*
Non-hazardous landfill	0.075	0.079	0.079	15%

3.2. LACW arisings for 2021 are shown to have been at a similar level to 2019 and 2020. The previous LACW total average for 2018-2020 arisings was 0.522Mt. The current LACW total average for 2019-2021 arisings is 0.528Mt, which provides a similar baseline for LACW projections.

Commercial and Industrial Waste

3.3. Table 2 from Section 4 of the WNA (June 2022) is replaced by Revised Table 2 below which has been updated with estimated C&I waste arisings for 2021 derived from the WDI 2021. An adjustment factor to account for the effects of the Covid-19 pandemic is applied to both 2020 and 2021 figures, taken from the House of Commons Regional economic indicators (2021).

Revised Table 2 - C&I Arisings 2019-2021

Million tonnes	**2019**	**2020**	**2021**	**% Of total for 2021**
Total	**0.537**	**0.497**	**0.466**	
Prep for reuse and recycling	0.163	0.152	0.176	38%
Inert recycling	0.004	0.014	0.012	3%
Composting	0.029	0.003	0.002	0%
Other treatment and recovery	0.093	0.079	0.140	30%
Inert recovery	0.000	0.000	0.000	0%
Total n-h landfill incl SNRHW	0.248	0.250	0.137	29%
Non-haz landfill	*0.099*	*0.122*	*0.121*	*26%*
Non-haz (SNRHW) landfill	*0.149*	*0.128*	*0.016*	*3%*
Disposal via incineration	0.000	0.000	0.000	0%

3.4. 2021 C&I arisings are lower than both 2019 and 2020. The main drop in arisings can be apportioned to C&I waste sent to non-hazardous landfill (including SNRHW), which was circa 0.1Mt lower in 2021 than the two previous years.

3.5. A possible explanation for the lower total in C&I arisings in 2021 could be due to impacts on operation of many businesses as a result of government restrictions related to the Covid-19 pandemic.

Construction, Demolition & Excavation Waste

3.6. Table 3 from Section 4 of the WNA (June 2022) is replaced by Revised Table 3 below which has been updated with estimated CD&E arisings for 2021 derived from the WDI 2021. The 2021 “as managed” figure is to be taken as the current arisings to inform the plan making process.

Revised Table 3 - CD&E Arisings 2019-2021

Million tonnes	**2019**	**2020**	**2021**	**% Of total for 2021**
Total CD&E	**2.265**	**1.982**	**2.245**	
CD&E as managed arisings	1.724	1.101	1.553	
Prep for reuse and recycling	0.087	0.025	0.042	3%
Compost	0.000	0.000	0.000	0%
Inert recycling	0.322	0.306	0.301	19%
Other treatment	0.007	0.003	0.004	0%
Soil treatment	0.047	0.023	0.045	3%
Inert recovery/landfill	1.106	0.572	0.831	54%
Total non-haz incl SNRHW	0.154	0.172	0.301	20%
Non-haz landfill	*0.112*	*0.133*	*0.274*	*18%*
Non-haz (SNRHW) landfill	*0.042*	*0.039*	*0.026*	*2%*
Incineration no energy recovery	0.000	0.000	0.000	0%

3.7. Total and ‘as managed’ CD&E arisings for 2021 are within a similar range to previous years, with 2020 being lower than others (2.246Mt total and 1.416 ‘as managed’ for 2018).

Hazardous Waste

3.8. Table 4 from Section 4 of the WNA (June 2022) is replaced by Revised Table 4 below which has been updated with “as managed” Hazardous waste arisings for 2021 derived from the HWDI 2021. The 2021 “as managed” figure is to be taken as the current arisings to inform the plan making process.

Revised Table 4 - Hazardous Arisings 2019-2021

Million tonnes	**2019**	**2020**	**2021**	**% Of total for 2021**
Total	**0.050**	**0.039**	**0.033**	
Recovery & treatment	0.044	0.034	0.029	86%
Recovery & recycling	*0.023*	*0.014*	*0.017*	*50%*
Recovery & thermal treatment	*0.021*	*0.020*	*0.012*	*36%*
Landfill	0.006	0.004	0.003	9%
Incineration no EfW	0.001	0.001	0.001	4%

3.9. 2021 Hazardous arisings are at a similar level to 2020, but lower than 2019. 2018 Hazardous arisings reported a total of 0.039Mt which is more in-line with 2020 and 2021, indicating that 2019 may be an exception to the trend. This is also supported by analysing 2016 and 2017 hazardous arisings which were reported as 0.041Mt and 0.037Mt respectively.

Summary of Arisings

3.10. Table 5 from Section 4 of the WNA (June 2022) is replaced by Revised Table 5 below which reflects the updates to the total waste arisings data covering 2021.

Revised Table 5 - Summary of 2021 waste arisings (million tonnes)

Waste hierarchy level	Broad management method	2021
Prep for re-use & recycling	Materials recycling (LAC, C&I)	0.365
	Composting (LAC, C&I)	0.132
	Inert recycling (CD&E)	0.312
Other recovery	Treatment & energy recovery (LAC, C&I)	0.234
	Soil treatment (CD&E)	0.045
	Inert recovery (CD&E)	0.831
	Hazardous recovery & treatment	0.029
Disposal	Non-hazardous (LAC, C&I, CD&E)	0.515
	Hazardous Incineration	0.001
	Hazardous landfill	0.003

4. Projection of Waste Arisings

4.1. Following on from the updated baseline data to now include actual data for the year 2021, projections up to 2040 now assume current rates to apply from 2021. Furthermore, data projections are now based on 3-year averages covering 2019-2021, where previously 3-year averages were taken from 2018-2020.

Local Authority Collected Waste

4.2. LACW targets and procurement of long-term residual waste treatment/disposal contracts remain unchanged from the published WNA (June 2022).

4.3. The following change to assumptions were made in updating the LACW forecasts:

- Application of targets is now achieved by applying an even graduation from 2021 rates (previously 2020 rates) up to the full target rate (applied at the target year).

4.4. LAC waste arisings are now averaged for the years 2019-2021 (previously 2018-2020) which are now projected from 2022 over the plan period (up to 2040) using an updated growth profile derived from total net dwelling projections and waste generation as tonnes per dwelling per annum.

4.5. Planned growth for total net dwellings in Hertfordshire was based on 2018 household projections[2] and actual data for Hertfordshire's Total Population in 2021 was updated with the ONS 2021 census figure which was lower than the previous estimate used. Waste generation as tonnes per dwelling per annum was taken at 1.05 tonnes per dwelling, calculated as the average over the last 3-years (2019-2021).

4.6. Table 7 from Section 5 of the WNA (June 2022) is replaced by Revised Table 7 below which now shows existing (2021) and projected LACW arising and management methods over the plan period (at 5-year intervals).

Revised Table 6 – Existing and projected LACW arisings by management method up to 2040

Million tonnes	**2021**	**2025**	**2030**	**2035**	**2040**
Total	**0.534**	**0.559**	**0.581**	**0.603**	**0.623**
Recycling	0.147	0.164	0.187	0.209	0.216
Composting	0.130	0.144	0.165	0.184	0.191
Other treatment and recovery	0.179	0.252	0.230	0.211	0.218
EfW/ERF	*0.169*	*0.240*	*0.219*	*0.201*	*0.207*
AD	*0.009*	*0.012*	*0.011*	*0.010*	*0.011*
Non-hazardous landfill	0.078	0.000	0.000	0.000	0.000

4.7. The current LACW total average for 2019-2021 arisings is 0.528Mt. Compared to the previously used average (0.522Mt total averaged from 2018-2020), this has provided a higher baseline which has resulted in slightly higher projections over the Plan period.

[2] https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationprojections/bulletins/householdprojectionsforengland/2018based

Commercial and Industrial Waste

4.8. C&I targets remain unchanged from those set out in the published WNA (June 2022).

4.9. The following change to assumptions were made in updating the C&I forecasts:

- Application of targets is now achieved by applying an even graduation from 2021 rates (previously 2020 rates) up to the full target rate (applied at the target year).

4.10. Table 8 from Section 5 of the WNA (June 2022) is replaced by Revised Table 8 below which now shows existing (2021) and projected C&I arising and management methods over the plan period (at 5-year intervals).

Revised Table 7 – Existing and projected C&I waste arisings by management method up to 2040

Million tonnes	**2021**	**2025**	**2030**	**2035**	**2040**
Total	**0.466**	**0.489**	**0.520**	**0.555**	**0.592**
Prep for reuse and recycling	0.176	0.184	0.236	0.296	0.316
Inert recycling	0.012	0.011	0.014	0.018	0.019
Composting	0.002	0.012	0.015	0.019	0.020
Other treatment and recovery	0.140	0.136	0.202	0.180	0.207
Inert recovery	0.000	0.000	0.000	0.000	0.000
Total n-h landfill incl SNRHW	0.137	0.146	0.052	0.042	0.030
Non-haz landfill	*0.121*	*0.080*	*0.028*	*0.023*	*0.016*
Non-haz (SNRHW) landfill	*0.016*	*0.066*	*0.023*	*0.019*	*0.013*
Disposal via incineration	0.000	0.000	0.000	0.000	0.000

4.11. The current C&I total average for 2019-2021 arisings is 0.500Mt. Compared to the previously used average (0.521 Mt total averaged from 2018-2020), this has provided a lower baseline which has resulted in lower C&I projections over the Plan period.

Construction, Demolition & Excavation Waste

4.12. CD&E targets remain unchanged from those set out in the published WNA (June 2022).

4.13. The “as managed” figures derived from the WDI are now averaged over 2019-2021 and projected from 2022 over the plan period (up to 2040).

4.14. The growth profile, based on gross dwelling completions, is also now applied to the arisings as managed averaged for the years 2019-2021 and forecast from 2022 over the plan period to 2040.

4.15. The following change to assumptions were made in updating the CD&E forecasts:

- Application of targets is now achieved by applying an even graduation from 2021 rates (previously 2020 rates) up to the full target rate (applied at the target year).

4.16. Table 9 from Section 5 of the WNA (June 2022) is replaced by Revised Table 9 below which now shows existing (2021) and projected CD&E arising and management methods over the plan period (at 5-year intervals).

Revised Table 8 – Existing and projected CD&E waste arisings by management method up to 2040

Million tonnes	**2021**	**2025**	**2030**	**2035**	**2040**
Total CD&E	2.245	1.625	1.600	1.581	1.443
CD&E as managed arisings	**1.553**	**1.056**	**1.040**	**1.028**	**0.938**
Prep for reuse and recycling	0.042	0.037	0.041	0.040	0.037
Compost	0.000	0.000	0.000	0.000	0.000
Inert recycling	0.301	0.246	0.261	0.258	0.235
Other treatment	0.004	0.004	0.004	0.004	0.004
Soil treatment	0.045	0.029	0.030	0.030	0.027
Inert recovery/landfill	0.831	0.625	0.653	0.645	0.589
Total non-haz incl SNRHW	0.301	0.115	0.051	0.051	0.046
Non-haz landfill	*0.274*	*0.095*	*0.042*	*0.042*	*0.038*
Non-haz (SNRHW) landfill	*0.026*	*0.020*	*0.009*	*0.009*	*0.008*
Incineration no energy recovery	0.000	0.000	0.000	0.000	0.000

4.17. The current CD&E ‘as managed’ arisings average for 2019-2021 is 1.459Mt. Compared to the previously used average (1.414Mt ‘as managed’ arisings averaged from 2018-2020), this has provided a slightly higher baseline which has resulted in negligibly higher CD&E projections over the Plan period.

Hazardous Waste

4.18. As set out in the published WNA (June 2022) there are no targets for the management of hazardous wastes. Time series data for hazardous waste arisings extracted from the HWDI now covers the last six years (2016-2021).

4.19. Projections are now extrapolated from an average figure over the years 2019-2021 reported by the HWDI in line with the Total GVA projections from the EEFM.

4.20. The are no changes made to the assumptions for hazardous waste forecasts as set out in the published WNA (June 2022).

4.21. Table 10 from Section 5 of the WNA (June 2022) is replaced by Revised Table 10 below which now shows existing (2021) and projected hazardous waste arising and management methods over the plan period (at 5-year intervals).

Revised Table 9 – Existing and projected Hazardous waste arisings by management method up to 2040

Million tonnes	**2021**	**2025**	**2030**	**2035**	**2040**
Total	**0.033**	**0.035**	**0.037**	**0.040**	**0.042**
Recovery & treatment	0.029	0.030	0.032	0.034	0.037
Recovery & recycling	*0.017*	*0.015*	*0.016*	*0.017*	*0.019*
Recovery & ther treatment	*0.012*	*0.015*	*0.016*	*0.017*	*0.018*
Landfill	0.003	0.004	0.004	0.004	0.004
Incineration no EfW	0.001	0.001	0.001	0.001	0.001

4.22. The current hazardous arisings total average for 2019-2021 is 0.041Mt. Compared to the previously used average (0.043Mt total arisings averaged from 2018-2020), this has provided a slightly lower baseline which has resulted in lower Hazardous projections over the Plan period, most notably with lower projected management via hazardous landfill.

Summary of Projections

4.23. Table 11 from Section 5 of the WNA (June 2022) is replaced by Revised Table 11 below which now provides a revised summary of the waste projections for Section 5 of the WNA, set out by broad management method.

Revised Table 10 - Existing and projected waste arisings by management method up to 2040

Waste hierarchy level	Broad management method	2021	2025	2030	2035	2040
Prep for re-use & recycling	Materials recycling (LAC, C&I)	0.365	0.385	0.464	0.545	0.569
	Composting (LAC, C&I)	0.132	0.156	0.180	0.203	0.211
	Inert recycling (CD&E)	0.312	0.257	0.275	0.276	0.255
Other recovery	Treatment & energy recovery (LAC, C&I)	0.234	0.315	0.322	0.294	0.312
	Soil treatment (CD&E)	0.045	0.029	0.030	0.030	0.027
	Inert recovery (CD&E)	0.831	0.625	0.653	0.645	0.589
	Hazardous recovery & treatment	0.029	0.030	0.032	0.034	0.037
Disposal	Non-hazardous (LAC, C&I, CD&E)	0.515	0.261	0.103	0.092	0.076
	Hazardous Incineration	0.001	0.001	0.001	0.001	0.001
	Hazardous landfill	0.003	0.004	0.004	0.004	0.004

5. Waste Movements

5.1. Waste movements have been updated by now analysing data extracted from the WDI 2021 and HWDI 2021 based on all waste received at facilities within Hertfordshire (imports) and all waste received by other WPAs with waste originating from Hertfordshire (exports).

5.2. Waste movements have been analysed in accordance with the methodology set out under Section 6 of the WNA (June 2022).

5.3. Overall Hertfordshire is a net importer of waste, with slightly more waste imported than exported in both 2020 and 2021. This demonstrates how waste movements can vary dependant on commercial contracts and market drivers.

Waste imports from other WPAs

5.4. Table 12 from Section 6 of the WNA (June 2022) is replaced by Revised Table 12. The table shows waste imported to Hertfordshire by waste region with a total of 1.365Mt imported in 2021, which was lower than the 1.665Mt imported in 2020.

Revised Table 11 - 2021 Waste imports by region (million tonnes)

	Hhold/Ind/Com	Inert/C+D	Haz	Total
East Midlands	0.023	-	0.001	0.024
East of England	0.181	0.151	0.009	0.341
London	0.158	0.487	0.022	0.667
North East	-	-	0.000	0.000
North West	0.011	-	0.000	0.011
South East	0.122	0.063	0.007	0.192
South West	0.014	-	0.001	0.015
Wales	0.016	-	0.000	0.016
West Midlands	0.088	0.001	0.000	0.089
Yorks & Humber	0.006	-	0.003	0.009
Total	**0.619**	**0.702**	**0.044**	**1.365**

5.5. The above table shows that the majority of imported waste originates from London, as similarly shown for 2020. Negligible amounts of waste were received from the North East, North West, South West, Yorks & Humber and Wales.

5.6. Table 13 from Section 6 of the WNA (June 2022) is replaced by Revised Table 13 below. This table shows the five highest HIC imports from individual WPAs, excluding WPA not-codeable imports.

Revised Table 12 - 2021 HIC waste imports

Top 5 WPAs	HIC (t)
Essex	76,000
Buckinghamshire	47,000
Herefordshire	29,000
Walsall	26,000
Norfolk	24,000

5.7. Similarly to 2020, Essex contributes the largest proportion of HIC imports followed by Buckinghamshire.

5.8. Table 14 from Section 6 of the WNA (June 2022) is replaced by Revised Table 14 below. This table shows the five highest HIC imports from individual WPAs, excluding WPA not-codeable imports.

Revised Table 13 - 2021 Inert/C+D waste imports

Top 5 WPAs	Inert/C+D (t)
Essex	110,000
Barnet	109,000
Enfield	88,000
East London Waste Authority	60,000
Camden	34,000

5.9. The majority of Inert/C+D imports in 2021 from individual WPAs shown in the above table are London WPAs. This was also shown to be the case for 2020.

5.10. Table 15 from Section 6 of the WNA (June 2022) is replaced by Revised Table 15 below. This table shows the five highest Hazardous waste imports from individual WPAs, excluding WPA not-codeable imports.

Revised Table 14 - 2021 Hazardous waste imports

Top 5 WPAs	Haz (t)
Bexley	7,000
Essex	4,000
Brent	4,000
Northamptonshire	3,000
Buckinghamshire	2,000

5.11. The five highest Hazardous imports from individual WPAs in 2021 are shown in the above table. The largest exporter of hazardous waste to Hertfordshire was the London Borough of Bexley, which was also the case for 2020.

Waste exports to other WPAs

5.12. Table 16 from Section 6 of the WNA (June 2022) is replaced by Revised Table 16. The table shows waste exported from Hertfordshire by waste region with a total of 0.969Mt exported in 2021, which was lower than the 1.110Mt exported in 2020.

Revised Table 15 - 2021 Waste exports by region (million tonnes)

	Hhold/Ind/Com	Inert/C+D	Haz	Total
East Midlands	0.006	-	0.006	0.012
East of England	0.128	0.256	0.006	0.390
London	0.027	0.125	0.003	0.155
North East	0.001	-	0.000	0.001
North West	0.011	0.001	0.001	0.013
South East	0.298	0.070	0.008	0.376
South West	0.001	-	0.000	0.001
Wales	-	-	-	-
West Midlands	0.009	0.001	0.005	0.015
Yorks & Humber	0.003	0.003	0.000	0.006
Total	**0.484**	**0.456**	**0.029**	**0.969**

5.13. The majority of exported waste was sent within the East of England, London and the South East. Negligible amounts of waste were exported to the North East, South West, Wales and Yorks & Humber.

5.14. Table 17 from Section 6 of the WNA (June 2022) is replaced by Revised Table 17 below. This table shows the five highest HIC exports to individual WPAs, excluding WPA not-codeable exports.

Revised Table 16 - 2021 HIC waste exports

Top 5 WPAs	HIC (t)
Milton Keynes	91,000
Buckinghamshire	88,000
Oxfordshire	76,000
Peterborough	46,000
Kent	29,000

5.15. The majority of HIC is exported to Milton Keynes, Oxfordshire and Buckinghamshire which was similarly shown for 2020.

5.16. Table 18 from Section 6 of the WNA (June 2022) is replaced by Revised Table 18 below. This table shows the five highest Inert/C+D exports to individual WPAs, excluding WPA not-codeable exports.

Revised Table 17 - 2021 Inert/C+D waste exports

Top 5 WPAs	Inert/C+D (t)
Central Bedfordshire	74,000
Thurrock	68,000
Enfield	68,000
Buckinghamshire	53,000
Hillingdon	51,000

5.17. Table 19 from Section 6 of the WNA (June 2022) is replaced by Revised Table 19 below. This table shows the five highest Hazardous waste exports to individual WPAs, excluding WPA not-codeable exports.

Revised Table 18 – 2021 Hazardous waste exports

Top 5 WPAs	Haz (t)
Cambridgeshire	4,000
East Sussex	4,000
Derbyshire	3,000
Wolverhampton	2,000
Kent	2,000

5.18. 2021 Hazardous exports to individual WPAs reflected similarly to 2021 exports which were well distributed to different regions with no singular authority receiving a significant percentage of the total hazardous exports.

6. Waste Management Capacity & Gaps

Estimated existing capacity

6.1. Table 20 from Section 7 of the WNA (June 2022) is replaced by Revised Table 20 below. This table provides an updated estimate of existing capacity of waste management facilities in Hertfordshire.

Revised Table 19 - Estimated existing and future waste management capacity (million tonnes per annum)

Waste hierarchy level	Broad management method	2021	2025	2030	2035	2040
Prep for re-use & recycling	Materials recycling (LAC, C&I)	0.755	0.755	0.755	0.755	0.755
	Composting (LAC, C&I)	0.131	0.131	0.131	0.131	0.131
	Inert recycling (CD&E)	0.276	0.276	0.276	0.276	0.276
Other recovery	Treatment & energy recovery (LAC, C&I)	0.365	0.365	0.365	0.365	0.365
	Soil treatment (CD&E)	0.032	0.032	0.032	0.032	0.032
	Inert recovery (CD&E)	1.118	1.118	0.923	0.000	0.000
	Hazardous recovery & treatment	0.081	0.081	0.081	0.081	0.081
Disposal	Non-hazardous (LAC, C&I, CD&E)	0.000	0.000	0.000	0.000	0.000
	Hazardous Incineration	0.000	0.000	0.000	0.000	0.000
	Hazardous landfill	0.000	0.000	0.000	0.000	0.000

6.2. Capacities for Materials recycling, Composting, Treatment & energy recovery and Hazardous recovery & treatment are slightly increased compared to Table 18 of the WNA (June 2022). This is due to slightly higher throughputs recorded in 2021 at various waste management facilities.

Anticipated future needs

6.3. In this section a ‘gap’ or shortfall in waste management capacity is shown as a negative figure (representing the additional capacity needed to close the gap) and an excess in capacity is shown as a positive figure.

6.4. Table 21 from Section 7 of the WNA (June 2022) is replaced by Revised Table 21 below. This table provides an updated assessment of indicative future needs (i.e. that needed in addition to the existing estimated capacity) over the plan period.

Revised Table 20 - Summary of current (2021) and future waste needs 2025 to 2040

Waste hierarchy level	Broad management method	2021	2025	2030	2035	2040
Prep for re-use & recycling	Materials recycling (LAC, C&I)	0.391	0.370	0.291	0.210	0.187
	Composting (LAC, C&I)	-0.001	-0.025	-0.049	-0.073	-0.080
	Inert recycling (CD&E)	-0.037	0.019	0.001	0.000	0.021
Other recovery	Treatment & energy recovery (LAC, C&I)	0.096	0.014	0.007	0.036	0.017
	Soil treatment (CD&E)	-0.013	0.004	0.002	0.003	0.005
	Inert recovery (CD&E)	0.287	0.493	0.270	-0.645	-0.589
	Hazardous recovery & treatment	0.052	0.051	0.049	0.047	0.044
Disposal	Non-hazardous (LAC, C&I, CD&E)	-0.515	-0.261	-0.103	-0.092	-0.076
	Hazardous Incineration	-0.002	-0.001	-0.001	-0.001	-0.001
	Hazardous landfill	-0.003	-0.004	-0.004	-0.004	-0.004

6.5. The revised assessment of future waste needs generally comprises relatively small changes from the previous Table 21 of the published WNA, with few notable changes.

6.6. The current and future excess capacity for materials recycling has increased.

6.7. Current soil treatment capacity is now showing as a small capacity gap, having previously been reported as a small excess.

6.8. Gaps in Treatment & energy recovery were previously very small. The updated projections now anticipate sufficient capacity to the end of the Plan Period.

6.9. As similarly shown in the published WNA, the plan area is relatively well placed in terms of net self-sufficiency for waste management with anticipated gaps towards the end of the plan period now all below 0.1Mtpa, with the exception of inert recovery.

6.10. The capacity gap for inert recovery by 2040 is now anticipated to be negligibly higher (0.007Mtpa). Capacity gaps by the end of the plan period for Composting, Non-hazardous disposal, and hazardous landfill continue as anticipated to be slightly reduced.

7. Conclusions

7.1. This Addendum Report has made use of the latest available data to revise the published WNA (June 2022), ensuring the preparation of Hertfordshire's MWLP is informed by the most up-to-date information.

7.2. The revised arisings now include actual 2021 data has resulted in slightly lowered baseline data for LACW, C&I waste and Hazardous waste. This has resulted in marginally lower projections towards the end of the Plan period.

7.3. Most of the broad management methods anticipate sufficient capacity to manage waste arisings to the end of the plan period, with other management methods still anticipated to have relatively small gaps by the end of the plan period.

7.4. The revised data now anticipates sufficient waste management capacity within Hertfordshire for: materials recycling, inert recycling, treatment & energy recovery, soil treatment and hazardous recovery and treatment throughout the plan period.

7.5. Non-hazardous waste disposal is still the waste stream with the largest short-term shortfall in capacity. This gap will mostly be met through regional disposal contracts at ERFs which will be in place up to 2039, by which time increases in recycling rates are anticipated to bring non-hazardous arisings requiring disposal below 0.1Mtpa.

Appendix 1

The following table below does not replace Appendix 1 of the published WNA (June 2022), but instead provides an updated capacity of waste management facilities in Hertfordshire accounting for throughputs recorded in the 2021 WDI. These updated capacities have been applied to current (2021) waste arisings and future projections in order to prepare Revised Table 20 and Revised Table 21 of this document.

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
St Albans H W R C	Amey Cespa (East) Ltd	AL1 4AP	-	24,000	5,683	HWRC	5,683
Redbournbury Treatment Plant - EPR/BW3281IA	Veolia ES (UK) Limited	AL3 6PR	-	76,950	71,669	Hazardous treatment	71,669
St Albans Service Centre	Veolia E S (U K) Limited	AL4 0JY	70,000	50,000	62,742	Non-hazardous Transfer	62,742
Pearce Recycling Limited	Pearce Recycling Company Ltd	AL4 0JZ	-	-	129,641	Material recycling facilities	129,641
Factory Unit Y	Blancomet Recycling U K Limited	AL4 0LB	16,200	-	976	Metal recycling and End of life vehicles (ELV)	976
North London Anaerobic Digestion Facility EPR/MP3934QN	Severn Trent Green Power (North London) Limited	AL4 0PG	48,500	-	72,460	AD and other biological treatment	72,460

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Tyttenhanger Landfill Site	Tarmac Aggregates Limited	AL4 0PG			923,549	Inert recovery	922,620
Sandridge Gate Transfer Station	Veolia E S (U K) Limited	AL4 9XR	-	7,000	2,110	Non-hazardous Transfer	2,110
Harpenden H W R C	Amey Cespa (East) Ltd	AL5 1QB		8,000	5,128	HWRC	5,128
Tewin Rd Depot, Welwyn Gc	Urbaser Limited	AL7 1BD	-	24,999	5,473	Hazardous Transfer	5,473
Welwyn Garden City Hazardous Waste Treatment and Transfer Facility - EPR/ZP3535T	The Honeywagon Co. Ltd.	AL7 4SR	-	52,000	9,190	Hazardous treatment	9,190
Ground Waste Recycling Ltd	Ground Waste Recycling Ltd	AL7 4SR	-	75,000	52,884	Material recycling facilities	13,221
Burnside	B P Mitchell (Haulage Contractors) Ltd	AL9 5RB	-	154,000	4,260	Material recycling facilities	4,260

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Burnside No 2 Transfer Station	Peters Brothers Ltd	AL9 5RB	25,000	-	23,030	Inert recycling	5,758
A W A Refiners Ltd	A W A Refiners Ltd	CM20 2SE	-	-	809	Metal recycling and End of life vehicles (ELV)	809
Carmageddon Salvage	Stevens Carl	CM21 0LX	-	-	570	Metal recycling and End of life vehicles (ELV)	570
The Jaguars	C & C Metal Trading Limited	CM22 6SJ			13,510	Metal recycling and End of life vehicles (ELV)	13,510
Bishops Stortford H W R C	Amey Cespa (East) Ltd	CM23 5RG	-	24,999	4,626	HWRC	4,626
Etteridge Farm Depot	A H Nicholls & Sons Limited	EN10 7QP	-	49,999	40,654	Inert recycling	40,654
Froom & Co Essex Road	Stratford David	EN11 0AS	-	-	17,628	Non-hazardous Transfer	17,628
Hoddesdon H W R C	Amey Cespa (East) Ltd	EN11 0BZ	-	24,999	2,626	HWRC	2,626
The Geddings	Advanced Demolition Limited	EN11 0BZ	-	75,000	10,577	Material recycling facilities	2,644

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Robert Gibbs (Contracting) Co. Ltd	Robert Gibbs (Contracting) Company Limited	EN11 0EW	-	120,000	51,325	Metal recycling and End of life vehicles (ELV)	51,325
Hoddesdon EfW Plant EPR/UP3038WA	Hoddesdon Energy Ltd	EN11 0RF	100,000	112,915	38,874	EfW - thermal treatment	100,000
Hoddesdon AD Facility EPR/KP3138EV	Tamar Renewable Power (Hoddeson) Ltd	EN11 0RF	60,000	-	55,225	AD and other biological treatment	55,225
Willen Biogas Ltd	Willen Biogas Ltd	EN2 8AU	-	<75,000 tpy	17,829	AD and other biological treatment	17,829
Cattlegate Farm - EPR/KP3939RQ	Willen Biogas Limited	EN2 8AU			24,686	Compost	24,686
Potters Bar H W R C	Amey Cespa (East) Ltd	EN6 3JN	-	24,999	5,085	HWRC	5,085
Cranbourne Road Ind Estate, Potters Bar	Coley Ltd	EN6 3JN	-	20,000	21,887	Non-hazardous Transfer	21,887

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
South Mimms Composting Site - EPR/LP3734QT	Severn Trent Green Power (Hertfordshire) Limited	EN6 3NA	75,000	75,000	52,544	Compost	52,544
Broxbourne Business Centre, Cheshunt	Borough Of Broxbourne	EN8 0NP	-	5,000	11,150	Non-hazardous Transfer	11,150
Turnford H W R C	Amey Cespa (East) Ltd	EN8 0NP	-	24,999	5,609	HWRC	5,609
Hunts Carbreakers, Cupid Green	Hunt Martin	HP2 7AZ	-	-	2,546	Metal recycling and End of life vehicles (ELV)	2,546
Cupid Green Depot	Dacorum Borough Council	HP2 7BA	-	73,200	45,184	Hazardous Transfer	45,184
J F Bishop & Son	J F Bishop & Son Ltd	HP2 7BW	-	-	42,685	Material recycling facilities	10,671
Hemel Hempstead H W R C	Amey Cespa (East) Ltd	HP2 7DU	-	24,999	5,743	HWRC	5,743
Holywell Hemel Hempstead	Holywell Haulage Ltd	HP2 7DX	75,000	-	41,902	Material recycling facilities	10,475

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Peter John Brown	Brown Peter John	HP2 7JH	-	-	1,357	Metal recycling and End of life vehicles (ELV)	1,357
Chesham Road, Wiggington	A G Evans Ltd	HP23 6JG	-	25,000	13,973	Metal recycling and End of life vehicles (ELV)	13,973
Berkhamsted H W R C	Amey Cespa (East) Ltd	HP4 1TL	-	24,999	3,171	HWRC	3,171
Dog Kennel Farm	T O C Recycling Ltd	LU2 8LQ	24,999	24,999	488	Metal recycling and End of life vehicles (ELV)	488
Hertfordshire Skip Hire Ltd Treatment And Transfer Facility	Herts Skiphire Limited	SG1 2BP	-	-	7,293	Material recycling facilities	7,293
Leyden Road HW TS EPR/SP3130RY	Biffa Waste Services Limited	SG1 2BP	-	-	3,630	Hazardous Transfer	3,630
Stevenage H W R C	Amey Cespa (East) Ltd	SG1 2DF	-	12,000	10,098	HWRC	10,098
Stevenage Borough Council, Cavendish Road	Stevenage Borough Council	SG1 2ES	25,000	25,000	29,518	Hazardous Transfer	29,518

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Alchemy Metals Limited	Alchemy Metals Limited	SG1 2EU	-	-	23,555	Metal recycling and End of life vehicles (ELV)	23,555
Ultratec House	Ultratec Limited	SG1 4SZ	75,000	75,000	399	Waste electrical and electronic equipment (WEEE)	399
The Vineries	Guy & Wright Limited	SG10 6JJ	36,500	10,000	35,431	MBT/MHT and production of SRF/RDF	35,431
Ware H W R C	Amey Cespa (East) Ltd	SG12 0EL	10,000	24,999	7,131	HWRC	7,131
Rye Meads Waste Import Facility	Thames Water Utilities Limited	SG12 8JY			175,395	Other/Storage	175,395
Hunsdon Skips Ltd	Hunsdon Skip Hire Limited	SG12 8QA	-	-	7,393	Material recycling facilities	1,848
Lower Hatfield Road	Aggregate Industries U K Ltd	SG13 8LE	75,000	75,000	31,654	Soil treatment	31,654
Cole Green H W R C	Amey Cespa (East) Ltd	SG14 2NL	-	24,999	3,679	HWRC	3,679

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Panshanger Quarry	B P Mitchell (Haulage Contractors) Ltd	SG14 2NL			234,362	Inert recovery	195,843
Highfields	B P Mitchell (Haulage Contractors) Limited	SG14 2NR	-	200,000	199,859	Inert recycling	199,859
Altigo Ltd	Altigo Limited	SG14 3NU	5,000	5,000	408	Metal recycling and End of life vehicles (ELV)	408
Bridge Works	Nationwide Metal Recycling Ltd	SG4 0SA	-	25,000	28,063	Metal recycling and End of life vehicles (ELV)	28,063
Wallace Way Metal Recycling Facility EPR/WP3539RL	Metal and Waste Recycling Ltd	SG4 0SE	-	280,000	380,417	Metal recycling and End of life vehicles (ELV)	380,417
Winters House	Uskip Hire Limited	SG4 0TJ	-	75,000	39,216	Material recycling facilities	9,804
The Envirowaste Recycling Centre	Stevenage Skip Hire Ltd	SG4 7EQ	75,000	75,000	14,729	Other forms of treatment - physical, physical chemical, chemical, etc.	3,682

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Langley Elv	Mr Hugh Neave	SG4 7PQ	-	-	116	Metal recycling and End of life vehicles (ELV)	116
Mk Cars	Khan Mohammed	SG4 8LS	-	-	28	Metal recycling and End of life vehicles (ELV)	28
Hitchin Transfer Station	F C C Waste Services (U K) Limited	SG5 1RT	-	74,999	38,928	Material recycling facilities	9,732
Letchworth H W R C	Amey Cespa (East) Ltd	SG6 1HB	-	24,999	6,893	HWRC	6,893
Electronic Waste Recycling Ltd	Electronic Waste Recycling Ltd	SG6 1LA	25,000	-	388	Waste electrical and electronic equipment (WEEE)	388
Eco Waste And Recycling Ltd	Eco Waste And Recycling Ltd	SG7 5JX	5,000	75,000	11,229	Material recycling facilities	2,807
Bygrave Lodge Anaerobic Digestion Plant - EPR/VP3932EG	Biogen (UK) Limited	SG7 6QX	48,500	54,000	51,082	AD and other biological treatment	51,082
Royston H W R C	Amey Cespa (East) Ltd	SG8 5HF	-	3,300	3,057	HWRC	3,057

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Cumberlow Green Farm EPR/QP3097NT	Hodge ; Hodge ; Hodge ; Hodge	SG9 0QD	40,000	40,000	35,735	Compost	35,735
Buntingford Depot	Urbaser Limited	SG9 9ER	-	-	57,524	HWRC	57,524
Buntingford H W R C	Amey Cespa (East) Ltd	SG9 9PA	-	24,999	943	HWRC	943
Park N Load	Mr Martin Keith Waller & Mr Colin Young	SG9 9RH	-	75,000	1,011	Material recycling facilities	1,011
Wiggenhall Depot	Veolia E S (U K) Ltd	WD18 0FB	-	5,000	1,530	Non-hazardous Transfer	1,530
Kerville Properties Ltd	Kerville Properties Ltd	WD2 4BZ	(60,000tpa in application statement)	-	77,569	Non-hazardous Transfer	77,569
Waterdale H W R C	Amey Cespa (East) Ltd	WD25 0PR	-	24,999	8,829	HWRC	8,829
Waterdale Transfer Station	Hertfordshire County Council	WD25 0PR	-	300,000	192,325	Non-hazardous Transfer	192,325

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Green Resources Recycling (G R R) Ltd	Green Resource Recycling (G R R) Ltd	WD25 7DL	950	-	171	Material recycling facilities	171
Blackbirds Farm Broadfield Compost Site	Pinkerton Alexander	WD25 8BS	23,500		6,283	Compost	6,283
School Field, Blackbirds Farm Compost Site	Pinkerton Alexander	WD25 8BS	23,500		11,647	Compost	11,647
F M S Recovery	Baker Christopher	WD25 8BT	-	12,000	9,374	Metal recycling and End of life vehicles (ELV)	9,374
The Conifers	M E C Grab Services Limited	WD25 8HD	-	-	37,981	Non-hazardous Transfer	37,981
Unit 1, Colne Way	PB Donoghue (Haulage and Plant Hire) Ltd	WD25 9WY	200,000	-	?	Inert Recycling	75,000
Rickmansworth H W R C	Amey Cespa (East) Ltd	WD3 1BN	-	24,999	6,050	HWRC	6,050
Hartnell Metals	Hartnell Peter	WD3 3AT	-	25,000	61	Metal recycling and End of life vehicles (ELV)	61

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
Maple Lodge WWTW	Viridor Waste (Thames) Limited	WD3 9SQ			102,248	Other forms of treatment - physical, physical chemical, chemical, etc.	25,562
A S M Metal Recycling Limited	A S M Metal Recycling Ltd	WD4 8JE	-	150,000	16,747	Metal recycling and End of life vehicles (ELV)	16,747
Leewood Recycling	Leewood Skip Hire Limited	WD4 8JJ	-	-	5,854	Material recycling facilities	1,464
Elstree H W R C	Amey Cespa (East) Ltd	WD6 3LS	-	24,999	4,016	HWRC	4,016
Harper Lane Quarry	Tarmac Aggregates Limited	WD7 7HX	-	30,000	118,243	Inert recycling	29,561
Home Farm	Enva Resource Management Ltd	SG12 7QA	-		3,574	Other forms of treatment - physical, physical chemical, chemical, etc.	3,574
Paradise Nursery	HH MUCKERS LIMITED	EN7 6PX			630	Soil treatment	630

Site name	Operator	Post Code	Planning Permission Capacity (tpa)	EA permitted capacity (tpa)	Highest WDI operational capacity	WNA Management Type	Capacity as of 2021
The Recycling Centre	A S M Metal Recycling Ltd	WD4 8JE	-		5,333	Metal recycling and End of life vehicles (ELV)	5,333