North London Waste Plan
Data Study Addendum

October 2020

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Executive Summary

I. This Data Study Addendum supports proposed Main Modifications to the NLWP, in particular those to Chapters 5-7 which set out information about current and future waste management in North London.

II. Discussion at the NLWP public hearings held in November 2019 indicated a need for greater clarity in the NLWP about how the data is presented so that the reader can more readily follow the line of justification and reasoning behind the approach to waste management in North London.

III. In preparing this Addendum, the North London Boroughs have kept the baseline data of 2016 which has been used in the Data Studies, while taking the opportunity to correct any errors. Any changes in capacity since 2016 will be taken into account in the annual monitoring report.

IV. The updates have resulted in an increase in capacity and therefore a reduction in the capacity gap over the plan period. Changes to existing capacity comes from three main sources.

V. Firstly, if site profiles did not identify the maximum throughput the site has achieved over the last five years, capacity information has been updated.

VI. Secondly, Camden Plant which operates a site in Enfield has been issued a certificate of lawful use and is therefore is expected to continue managing C&D waste during the plan period. It was previously thought to be closing in 2020.

VII. Thirdly, metal recycling facilities have been included in the pool of existing C&I capacity.

VIII. In addition, the land take calculation for the hazardous waste capacity gap has been reviewed and this has resulted in an increase in the indicative amount of land required to meet net self-sufficiency for this waste stream.

IX. The capacity gap has reduced significantly and the indicative land requirement has also reduced from 9ha to 6.4ha over the plan period.

X. Notwithstanding the reduction in the capacity gap, land in North London will still be required to identify suitable land for new waste facilities over the plan period.

XI. The proposed new structure to the data tables in chapters 5-7 are as follows:

Table 2: waste arisings (baseline 2016)
Table 3: The amount of North London's waste managed in North London and elsewhere
Table 4: Recycling and Recovery Targets with 2016 Baseline

Table 5: Options considered for forecasting North London's waste arisings
Table 6: Projected arisings and management of North London's waste 2020-2035
Table 7: Existing Annual Capacity at Licensed Operational Waste Management Facilities (2016)

Table 8: Capacity gaps throughout the Plan period
Table 9: Reference Capacities for Land Take for New Waste Facilities
Table 10: Indicative land take requirements for meeting the capacity gap

1. Introduction

1.1 This Data Study Addendum supports Main Modifications to the NLWP, in particular those in Chapters 5-7 which set out information about current and future waste management in North London.

1.2 Discussion at the NLWP public hearings held in November 2019 indicated a need for greater clarity in the NLWP about how the data is presented so that the reader can more readily follow the line of justification and reasoning behind the approach to waste management in North London.

1.3 This Data Study Addendum analyses where improvements to clarity in the NLWP can be made, proposes changes to the way data is presented in the NLWP and takes the opportunity to update and correct information where appropriate.

1.4 Neither the data nor the forecasts have been changed when preparing revisions to the tables of figures. The Boroughs consider the data and methodologies used to be sound and it is only the presentation of this information which has been revised.

1.5 Data from 2016 has been maintained as a baseline. This was the most up to date information available when the Waste Data Studies to support the proposed submission NLWP were being prepared. Updating the entire Data Study using 2018 data (currently the most up to date) would, at this stage, not be feasible. Waste data varies from year to year and Waste Data Studies will always represent a snapshot in time. Changes since 2016 will be accounted for in the NLWP annual monitoring report.

2. Waste Management Routes

2.1 The plan is not sufficiently clear on how much of each waste stream generated in North London is managed within North London, and how much is exported. Table 4 in the NLWP submission version sets out waste exported from North London over recent years, and this was amended in subsequent proposed modifications to show waste exported from North London to landfill. Neither of these tables show the full picture of where North London's waste is managed and therefore a revision to Table 4 is proposed.

2.2 Table 2.1 below is the proposed revision to NLWP Table 4. It combines information from a variety of sources including the NLWP Data Studies, the WDI and HWDI, and the NLWA and provides a 2016 baseline for monitoring purposes. Alongside NLWP Figure 11 which shows waste planning authority destinations of North London's waste exports, Revised Table 4 helps to provide a more complete picture of where North London's waste is being managed.

2.3 It should be noted that while data in the original Table 4 does not exactly match those in the Revised Table 4, they are broadly comparable. It is not unusual for the WDI to generate two slightly different figures for the same query because there are a number of

permutations in how to run a query. Waste data is not an exact science which is why the NPPW advises that "Spurious precision should be avoided".

Table 2.1: Revised NLWP Table 4: The amount of North London's waste managed in North London and elsewhere

Waste stream	Waste arising	Amount managed in North London	Amount managed elsewhere in London	Amount exported to landfill outside London	Amount exported to other facilities outside London
LACW	845,776	718,900	1,000	68,900	56,900
C&I	762,301	402,900	34,600	251,600	73,000
C&D	443,180	248,000	108,225	30,200	31,000
Hazardous (HWDI)	53,420	313	12,663	8,557	31,887
Proportion		66%	7.5%	17%	9%
Excavation	747,242	52,523	335,862	265,415	82,463
Proportion		7%	45%	35.5%	11%

3. Waste arisings forecasts

3.1 Waste arisings forecasts have been calculated from a baseline of waste arisings in 2016 set out in NLWP Table 2 and Data Study Part 1. Data Study Part 2 Appendix 2 sets out waste arisings forecast scenarios. The Table labelled 'Growth Option: Maximised Recycling' is the option taken forward in the NLWP and is repeated here in Appendix A and summarised in Table 3.1 below.

Table 3.1: Growth Option: Maximised Recycling forecast scenario

Waste Stream	2020	2025	2030	2035
LACW	987,041	998,905	1,012,005	1,026,176
C&I	787,440	820,037	853,982	889,332
C&D	457,796	476,746	496,480	517,032
Excavation	771,888	803,839	837,113	871,764
Hazardous	53,421	53,421	53,421	53,421
Agricultural	9,223	9,223	9,223	9,223

Source: NLWP Data Study 2

3.2 Three changes are proposed to improve the way the waste arisings forecast data is presented. Firstly, the information is currently contained only in the Data Study and should be presented in the plan itself.

3.3 Secondly, the waste arisings forecasts set out need for all waste management types, including types of facilities, such as landfill, which North London does not have and policy does not allow. Net self-sufficiency means providing capacity for the equivalent of waste generated and not for the actual waste generated. While it is important to

understand how North London's waste is actually likely to be managed in the future, it is also key that the NLWP shows how much waste is expected to be managed within the area.

3.4 Thirdly, the North London Boroughs want to move waste further up the waste hierarchy in accordance with London Plan targets. The waste arisings forecasts in Data Study 2 Appendix 2 assign an amount of waste to each type of facility, however a more flexible approach would be to align the amount of waste with each level in the waste hierarchy rather than each type of facility. This would also allow for monitoring of recycling targets.

3.5 In order to improve clarity in the NLWP, it is proposed to revise NLWP 8 showing the amount of waste to be managed in North London. The Revised Table 8 (see Table 3.2 below) shows both how North London's waste is most likely to be managed, in line with the waste hierarchy, and the total projected waste arisings which is equal to the amount of capacity North London will need to provide to meet its net self-sufficiency target for LACW, C&I and C&D waste, including hazardous waste. This table can be linked to the monitoring of exports (Indicator 6) which the North London Boroughs committed to in their statements of common ground with waste planning authorities who receive significant amounts of waste from North London.

Table 3.2: Revised NLWP Table 8: Projected arisings and management of North London's waste 2020-2035

Waste Stream	Facility Type	2020	2025	2030	2035
LACW	Recycling	418,169	424,049	430,280	436,824
LACW	Recovery (EfW), Treatment	566,872	572,856	579,725	587,352
LACW	Landfill	2,000	2,000	2,000	2,000
Total LACW capacity required for net self-sufficiency		**987,041**	**998,905**	**1,012,005**	**1,026,176**
C&I	Recycling	525,853	566,563	609,743	634,983
C&I	Recovery (EfW), Treatment	152,448	142,523	131,513	136,957
C&I	Landfill	109,139	110,951	112,726	117,392
Total C&I capacity required for net self-sufficiency		**787,440**	**820,037**	**853,982**	**889,332**
C&D	Recycling	435,054	453,063	471,816	491,347
C&D	Landfill	22,742	23,683	24,664	25,685
Total C&D capacity required for net self-sufficiency		**457,796**	**476,746**	**496,480**	**517,032**
Hazardous	Recycling	16,838	16,838	16,838	16,838
Hazardous	Recovery, Treatment	23,846	23,846	23,846	23,846
Hazardous	Landfill	12,737	12,737	12,737	12,737
Total Hazardous capacity required for net self-sufficiency		**53,421**	**53,421**	**53,421**	**53,421**
Excavation	Beneficial use, Recycling, Treatment	733,294	763,647	795,257	828,176
Excavation	Landfill	38,594	40,192	41,856	43,588
Total Excavation Waste		**771,888**	**803,839**	**837,113**	**871,764**
Agricultural	Recycling	89	89	89	89
Agricultural	Recovery, Treatment	9,130	9,130	9,130	9,130
Agricultural	Landfill	4	4	4	4

Waste Stream	Facility Type	2020	2025	2030	2035
Total Agricultural Waste		**9,223**	**9,223**	**9,223**	**9,223**

4. Existing sites and capacity

4.1 Information about existing capacity in North London in the NLWP would also benefit from some revision to improve clarity. Currently Table 3 forecasts capacity at intervals during the plan period, but does not clearly set out the amount of existing capacity as a baseline for monitoring purposes. In addition, one of the representations received at Reg 19 stage suggested the schedule of existing sites (Schedule 1) could contain more information about the sites. This would be helpful and therefore Table 3 and Schedule 1 have been revised.

4.2 In reviewing how existing capacity is presented, if site profiles did not identify the maximum throughput the site has achieved over the last five years, the Boroughs took the opportunity to update capacity information in line with the draft London Plan. The Boroughs also ensured that the references for existing sites in Schedule 1: existing site, were aligned with the site profiles in Data Study 3 to remove some errors which were identified. It should be noted that the site references have some sequential gaps as other sites have moved or been redeveloped over the years. The baseline year remains 2016 to align it with the data study and any changes to capacity since this date will be picked up by the annual monitoring of the NLWP.

4.3 At the request of NLWA we have also taken the opportunity to list the individual facilities within the Eco Park under one site reference.

4.4 There is a clear distinction in the London Plan about the type of capacity which contributes to 'managing' waste and those, like transfer capacity, that do not. It is proposed to address this by revising Table 3: Existing Capacity, which is very detailed and complicated, to present the key information about existing capacity; that is, whether it contributes to 'managing' waste and what type of waste is managed; apportioned waste (LACW/C&I) or CD&E waste.

4.5 The Data Study is not clear about how hazardous waste capacity was calculated. While a number of facilities in North London manage some hazardous waste, they do not exclusively treat hazardous waste. The amount of hazardous waste managed in North London varies from year to year and there are discrepancies between the Hazardous Waste Data Interrogator (HWDI) and the Waste Data Interrogator (WDI). For example, for 2016 the HWDI, which is the more accurate of the two data sets, shows only 888 tonnes of hazardous waste managed in North London whereas the WDI shows 46,892 tonnes[1]. Table 4.1 shows the amount of hazardous waste managed in North London over the last five years, which data taken from both the HWDI and the WDI. This excludes transfer stations which don't 'manage' waste.

[1] The waste managed at Camden Plant is categorised as hazardous in the WDI, but this has been excluded from the hazardous waste capacity as it is more appropriately categorised as C&D capacity.

Table 4.1: Waste managed in North London and categorised as hazardous

Source	2012	2013	2014	2015	2016
Waste Data Interrogator (WDI)	35,719	31,502	47,691	106,138	46,892
Hazardous Waste Data Interrogator (HWDI)	3,826	2,738	3,656	4,252	888

4.6 The vast majority of waste identified in the WDI as hazardous is managed at end of life vehicle (ELV) or vehicle de-pollution facilities. Only a small proportion of waste managed at these facilities is hazardous waste such as fuel, oils and battery. The majority of waste includes non-hazardous materials such as metal, rubber, textiles and plastic. The HWDI is known to provide more accurate data for hazardous waste and it seems reasonable to conclude that North London's hazardous waste capacity is in the region of 4,250 tonnes – the maximum throughput recorded by the HWDI over the last five years.

4.7 Appendix B of this Addendum provides updated information about existing sites, including their throughput over the last five years and if they contribute towards 'managing' waste. This information has formed the basis of a revised NLWP Table 3. LACW and C&I waste streams are grouped together for this purpose for two reasons. Firstly, LACW and C&I waste is of a similar nature and facilities often manage both waste streams without differentiating them. Secondly, these two waste streams make up the waste apportioned by the London Plan, and therefore it is useful to count joint capacity for monitoring purposes. If a facility manages both C&I and C&D waste streams, the capacity has been put towards the C&I waste stream, in line with the methodology in the NLWP Data Study. The estimated hazardous waste capacity of 4,250 tonnes has been removed from the LACW/C&I total capacity of 1,080,380 to avoid double counting.

Table 4.2: Revised NLWP Table 3: Existing Capacity in North London (2016)

Type of capacity		Waste stream	Existing capacity (2016)
Management	Recycling / Composting / Treatment	LACW / C&I	1,076,129
		C&D (&E)	633,436
		Hazardous (C&I)	4,252
	Energy Recovery	LACW / C&I	597,134
	Transfer	All	1,225,068
	Landfill	All	0

5. Known changes to capacity over the plan period

5.1 Waste management capacity in North London will change over the plan period with some facilities moving or closing down and new facilities being built. This section sets out what we currently know about such changes.

5.2 There will be an additional 100,000 tonnes of capacity in 2025 for managing LACW when the new Energy Recovery Facility at Edmonton EcoPark is built. This has been built into the calculation of the capacity gap as 'pipeline' capacity.

5.3 The existing composting facility at Edmonton will be displaced during the development of the new Energy Recovery Facility and the NLWA are not intending to build a replacement facility. This will result in a capacity loss of around 35,200 tonnes per annum. This has been built into the calculation of the capacity gap.

5.4 Since the NLWP was submitted, Camden Plant, which was due to close in 2020, has been issued a certificate of lawful use and is therefore is expected to continue managing C&D waste during the plan period. Previous modelling has been updated to reflect this and, because Camden Plant has a substantial throughput per annum (around 240,000tpa) this has resulted in a significant change to the existing capacity and therefore capacity gap for C&D waste.

5.5 Some facilities in Barnet are known to be re-locating due to the Brent Cross Cricklewood regeneration scheme. These are BAR3 PB Donoghue, BAR4 Hendon Transfer Station, BAR6 McGovern, and BAR7 Cripps Skips. However, in line with draft London Plan policy SI9 and draft NLWP policy 1, Barnet have committed to providing equivalent replacement capacity for these sites within Barnet, in line with London Plan policy. For the purposes of the plan, therefore, the capacity for these facilities is assumed to remain the same.

5.6 Two facilities in Waltham Forest (GBN Services and Pulse Environmental) have closed and their capacity has been replaced in a new facility operated by GBN services in Enfield. While the capacity has moved to a different Borough, there is no loss of capacity for North London as a whole. The new GBN facility is newly built but has been designed with sufficient capacity to replace that lost at the two Waltham Forest facilities and therefore, for the purposes of the plan the capacity of these facilities is assumed to remain the same. The new facility may also be able to provide capacity on top of what has been replaced, and this will be monitored.

5.7 The Powerday facility in Enfield has planning permission to increase its throughput from around 50,000 in 2016 to 330,000 tonnes. However, this increase in capacity has not yet happened and it is not clear if the planning permission will be implemented. Therefore this has not been added to the pipeline capacity, however throughput for the site will be monitored and if additional capacity comes online it will be used to close the capacity gap.

6. Capacity gap

6.1 NLWP Table 6: Capacity gaps throughout the plan period is complex and could be more clearly presented. In addition, it includes capacity gaps for landfill when North London does not have any landfill sites and is not planning to open any new landfill sites. It is therefore proposed to revise Table 6 to focus on capacity required within North London to meet the equivalent of its waste arisings (net self-sufficiency), with a table of projected actual waste management routes elsewhere in the plan.

6.2 The capacity gap is the difference between existing waste management capacity and waste need (projections) over the plan period. The tables below compares the 'Growth Option: Maximised recycling' projections over the plan period with existing and pipeline capacity for LACW/C&I, C&D and hazardous waste streams, ie those waste streams which fall under the 'net self-sufficiency' target.

Table 6.1: Revised NLWP Table 6: Capacity gap calculations (tonnes)

LACW/C&I	2020	2025	2030	2035
Projections	1,774,481	1,818,942	1,865,987	1,915,508
Existing capacity – recycling/ composting	1,076,129	1,076,129	1,076,129	1,076,129
Existing and pipeline capacity - recovery	597,134	700,000	700,000	700,000
Loss of capacity - composting	-	35,200	35,200	35,200
Capacity Gap	**-101,218**	**-78,013**	**-125,058**	**-174,579**

C&D	2020	2025	2030	2035
Projections	457,796	476,746	496,480	517,032
Existing capacity	633,436	633,436	633,436	633,436
Additional pipeline capacity	0	0	0	0
Surplus capacity	**+175,640**	**+156,690**	**+136,956**	**+116,404**

Hazardous	2020	2025	2030	2035
Projections	53,421	53,421	53,421	53,421
Existing and pipeline capacity	4,252	4,252	4,252	4,252
Capacity Gap	**-49,169**	**-49,169**	**-49,169**	**-49,169**

6.3 Because of the different presentation of the data, a direct comparison of the capacity gap figures in the submission NLWP and the revised assessment, is not possible. However it is clear from the figures in the tables above that, due to the inclusion of capacity at metal recycling facilities and Camden Plant, the capacity gap has reduced significantly, in particular for C&D waste which now has surplus capacity rather than a capacity gap.

6.4 The draft London Plan still requires the safeguarding of waste sites and compensatory capacity if a waste site is redeveloped for other uses (Policy SI9). The draft London Plan goes on to say "it may be possible to justify the release of waste sites if it can be demonstrated that there is sufficient capacity available elsewhere in London at appropriate sites over the Plan period to meet apportionment and that the target of achieving net self-sufficiency is not compromised. In such cases, sites could be released for other land uses." (9.9.3). It is therefore proposed to that NLWP Policy 1 should be modified with supporting text added to address the circumstances of net self-sufficiency being met as follows:

> *9.8 Compensatory provision should be delivered in accordance with the spatial framework and such proposals will need to demonstrate compliance with Policy 3 (Windfall sites) and 5 (Assessment Criteria for waste management facilities and related development) of the NLWP.* ~~*The area of search for a replacement site*~~ *Compensatory capacity should be provided within North London unless the NLWP Monitoring Report demonstrates that waste capacity in North London is sufficient to meet net self-sufficiency for LACW, C&I and C&D waste, including hazardous waste (Table 6). If sufficient capacity has been achieved in North London, compensatory capacity should be provided elsewhere in London. If it can be demonstrated that there is sufficient capacity in London to meet London's apportionment and net self-sufficiency targets, it may be possible to justify the release of waste sites for other uses.*

6.5 In order to estimate how much land is required for plan-making purposes, the capacity gap has been converted into a land area requirement based on a typical throughput per hectare. The land required is indicative only and new capacity will be monitored rather than land.

6.6 The land take conversions are calculated using an average throughput per hectare for different types of facilities, shown in Table 6.2 below.

Table 6.2: Reference Capacities for Land Take for New Waste Facilities

Facility type	Assumed tonnes per hectare
Energy from waste (large scale)	165,000
Recycling (C+I & LACW)	128,000
Recycling (C+D)	100,000
Recycling (specialised – eg. metals)	50,000
Recycling (Hazardous)	10,000
Re-use	15,000
Composting	25,000
Treatment plant	50,000
Treatment Plant (Hazardous)	10,000

6.7 It is not clear why the previous calculation for land to meet the hazardous resulted in 2ha of land. The average throughput per hectare for hazardous waste recycling or treatment facilities is 10,000 tonnes and the capacity gap is just over 49,000 tonnes. To meet the equivalent of projected hazardous waste arising in North London (net self-

sufficiency) this would equate to 4.9ha of land. NLWP Table 7: Indicative land take requirements has been adjusted accordingly.

6.8 Table 6.3 shows the amended Table 7: Indicative land take requirements which reflects the revised capacity gaps set out in Table 6.1. In order for net self-sufficiency to be achieved by 2026, in line with the London Plan, new capacity will need to be delivered by this date.

Table 6.3: Revised NLWP Table 7: Indicative land take requirements

Waste Stream	**Management type**	**Hectares**
		2026
C&I/LACW	Recycling	1.5
Hazardous	Recycling/recovery/treatment	4.9
TOTAL land required in North London		**6.4**

7. Structure of the NLWP

7.1 One of the issues raised at the NLWP Examination public hearings was that the order of information in the plan did not allow the reader to logically follow and understand how waste need in North London has been identified and how it will be met. It is proposed to address this by re-ordering the revised data tables and explanatory text in chapters 5-7 of the plan to create a more logical sequence for the reader. A comparison of these structures and data tables is set out in Table 7.1.

Table 7.1: A comparison of existing and proposed new structure of NLWP chapters 5-7

Proposed Submission Structure	Proposed new structure
5. Current Waste Management in North London <u>Waste generated in North London</u> Monitoring: Table 2: waste arisings (baseline 2016) <u>Existing facilities</u> Table 3: Maximum Existing Annual Capacity at Licensed Operational Waste Management Facilities at the Start of the Plan Period and a key dates following changes in sites capacities <u>How North London's waste is currently managed</u> Table 4: Waste exported from North London 2011-2016	**5. Current Waste Management in North London** <u>Waste generated in North London</u> Monitoring: Table 2: waste arisings (baseline 2016) <u>How North London's waste is currently managed</u> Revised Table 4 (now Table 3): The amount of North London's waste managed in North London and elsewhere

Proposed Submission Structure	Proposed new structure
6. Future waste management requirements <u>Targets for North London's waste management</u> Table 5: Recycling and Recovery Targets with 2016 Baseline <u>Options for managing North London's waste</u> <u>Meeting the Capacity Gap</u> Table 6: Capacity gaps throughout the Plan period –chosen option Table 7: Land take requirements for meeting net self-sufficiency for LACW, C&I and C&D (requirements for London Plan apportionment in brackets)	**6. Future waste management requirements** <u>Targets for North London's waste management</u> Updated Table 5 (now Table 4): Recycling and Recovery Targets with 2016 Baseline <u>Options for modelling North London's future waste arisings</u> New table (5): Options considered for forecasting North London's waste arisings Monitoring: Revised Table 8 (now Table 6): Projected arisings and management of North London's waste 2020-2035 (linked to Table 2) <u>Existing capacity</u> Revised Table 3 (now Table 7): Existing Annual Capacity at Licensed Operational Waste Management Facilities at the start of the plan period <u>Meeting the Capacity Gaps</u> Revised Table 6 (now Table 8): Capacity gaps throughout the Plan period New Table 9: Reference Capacities for Land Take for New Waste Facilities Revised Table 7 (now Table 10): Indicative land take requirements for meeting the capacity gap
7. Provision for North London's Waste to 2035 Table 8: Amount of waste to be managed within North London 2018-2035 Table 9: Projected exports from North London to landfill 2018-2035	**7. Provision for North London's Waste to 2035**

Appendix A: Waste arisings forecast scenario taken forward in the NLWP

Growth and Maximised Recycling Option

Waste Stream	Facility Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
C&I Municipal	Landfill (C+I and LACW)	25,567	23,198	20,788	20,434	20,072	19,703	19,327	18,943	18,552	18,153	17,746	17,331	16,909	17,047	17,185	17,325	17,466	17,609
C&I Municipal	Energy from waste								81,184	78,571	75,911	73,202	70,443	67,635	68,186	68,742	69,302	69,866	70,435
C&I Municipal	EfW (CI only)	94,599	94,081	93,548	91,166	88,740	86,267	83,749											
C&I Municipal	Recycling (C+I and LACW)	391,181	398,234	405,375	412,344	419,400	426,544	433,776	441,098	448,510	456,014	463,610	471,300	479,084	482,986	486,920	490,886	494,884	498,915
C&I	Landfill (C+I and LACW)	86,929	87,637	88,351	89,070	89,796	90,527	91,265	92,008	92,757	93,513	94,275	95,042	95,817	96,597	97,384	98,177	98,977	99,783
C&I	Energy from waste								47,398	47,784	48,173	48,566	48,961	49,360	49,762	50,167	50,576	50,988	51,403
C&I	EfW (CI only)	44,782	45,146	45,514	45,885	46,259	46,635	47,015											
C&I	Recycling (C+I and LACW)	115,905	116,849	117,801	118,761	119,728	120,703	121,686	122,677	123,677	124,684	125,699	126,723	127,755	128,796	129,845	130,903	131,969	133,044
C&I	Recycling (Unique material)	2,634	2,656	2,677	2,699	2,721	2,743	2,766	2,788	2,811	2,834	2,857	2,880	2,904	2,927	2,951	2,975	2,999	3,024
C&I	Treatment plant	13,171	13,278	13,386	13,496	13,605	13,716	13,828	13,941	14,054	14,169	14,284	14,400	14,518	14,636	14,755	14,875	14,996	15,119

Waste Stream	Facility Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
C&I	Transfer Station	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C&I	Transfer Station (Hazardous)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		**774,768**	**781,079**	**787,440**	**793,855**	**800,321**	**806,838**	**813,412**	**820,037**	**826,716**	**833,451**	**840,239**	**847,080**	**853,982**	**860,937**	**867,949**	**875,019**	**882,145**	**889,332**
CD Waste	Landfill (C+D)	26,534	24,654	22,742	22,927	23,114	23,302	23,492	23,683	23,876	24,071	24,267	24,464	24,664	24,865	25,067	25,271	25,477	25,685
CD Waste	Recycling (C+D)	376,956	404,316	432,097	435,616	439,164	442,741	446,347	449,983	453,648	457,343	461,068	464,823	468,609	472,426	476,274	480,153	484,064	488,007
CD Waste	Recycling (Unique material)	2,910	2,934	2,957	2,982	3,006	3,030	3,055	3,080	3,105	3,130	3,156	3,181	3,207	3,233	3,260	3,286	3,313	3,340
CD Waste	Treatment plant	44,029	22,194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		**450,429**	**454,098**	**457,796**	**461,525**	**465,284**	**469,073**	**472,894**	**476,746**	**480,629**	**484,544**	**488,491**	**492,468**	**496,480**	**500,524**	**504,601**	**508,710**	**512,854**	**517,032**
Agricultural Waste	Landfill (Hazardous)	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Agricultural Waste	Thermal Treatment (without energy recovery)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32

Waste Stream	Facility Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Agricultural Waste	Recycling (C+I and LACW)	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Agricultural Waste	Land recovery	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098	9,098
Total		**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**	**9,223**
Local Authority Collected Waste	Landfill (C+I and LACW)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Local Authority Collected Waste	Energy from waste	597,167	582,049	566,872	567,915	569,145	570,378	571,615	572,856	574,100	575,501	576,905	578,313	579,725	581,140	582,687	584,239	585,794	587,352
Local Authority Collected Waste	Recycling (C+I and LACW)	368,588	393,008	418,169	419,290	420,474	421,662	422,853	424,049	425,247	426,500	427,757	429,017	430,280	431,548	432,861	434,178	435,499	436,824
Total		**967,755**	**977,057**	**987,041**	**989,205**	**991,619**	**994,040**	**996,468**	**998,905**	**1,001,347**	**1,004,001**	**1,006,662**	**1,009,330**	**1,012,005**	**1,014,688**	**1,017,548**	**1,020,417**	**1,023,293**	**1,026,176**
Hazardous waste	Landfill (Hazardous)	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737	12,737
Hazardous waste	Thermal Treatment (Hazardous - energy recovery)	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53

Waste Stream	Facility Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Hazardous waste	Thermal Treatment (Hazardous - no energy recovery)	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476
Hazardous waste	Recycling (Hazardous)	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838	16,838
Hazardous waste	Treatment Plant (Hazardous)	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317	21,317
Total		**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**	**53,421**
E Waste	Landfill (E)	405,634	408,938	412,269	415,627	419,012	422,425	425,865	429,334	432,831	436,356	439,910	443,494	447,106	450,747	454,419	458,120	461,851	465,613
E Waste	Recycling (C+D)	210,716	212,432	214,163	215,907	217,666	219,438	221,226	223,028	224,844	226,676	228,522	230,383	232,260	234,151	236,059	237,981	239,920	241,874
E Waste	Treatment plant	143,115	144,281	145,456	146,641	147,835	149,039	150,253	151,477	152,711	153,955	155,209	156,473	157,747	159,032	160,327	161,633	162,950	164,277
Total		**759,465**	**765,651**	**771,888**	**778,175**	**784,513**	**790,902**	**797,344**	**803,839**	**810,386**	**816,987**	**823,641**	**830,350**	**837,113**	**843,930**	**850,805**	**857,734**	**864,721**	**871,764**

Appendix B: Existing Waste Sites (updated from submission NLWP)

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
BAR1	Winters Haulage, Oakleigh Road South	British Rail Sidings, Oakleigh Road South, Southgate, London, N11 1HJ	1.39	X	C&I / CDE	X	10,495	38,503	40,409	35,379	0
BAR 2	Scratchwood Quarry	London Gateway Service Area, M1 Motorway, Mill Hill, London, NW7 3HU	2.7	X	CDE	✓	52,835	71,046	99,060	102,527	131,505
BAR 3	P B Donoghue, Claremont Rd	3 Shannon Close, Claremont Rd, Cricklewood, London, NW2 1RR	0.8	X	CDE	✓ (96%)	0	118,964	112,449	112,487	111,226
BAR 4	W R G, Hendon Rail Transfer Station	Hendon Rail Transfer Station, Brent Terrace, Hendon, London, NW2 1LN	2.4	X	LACW	X	153,952	164,129	114,457	128,605	142,107
BAR 5	Summers Lane Reuse and Recycling Centre	Civic Amenity & Waste Recycling Centre,	0.4	X	LACW	X	15,612	16,361	17,206	10,584	18,237

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		Summers Lane, London, N12 0RF									
BAR 6	Mc Govern Brothers, Brent Terrace, Hendon	26-27 Brent Terrace, Claremont Industrial Estate, Hendon, London, NW2 1BG	0.7	X	C&I / CDE	X	78,488	76,609	78,855	106,206	102,373
BAR 7	Cripps Skips Brent Terrace	Nightingale Works, Brent Terrace, Claremont Way Industrial Estate, London, NW2 1LR	0.11	X	C&I / CDE	X	9,726	7,719	8,807	9,408	8,910
BAR 8	Apex Car Breakers, Mill Hill	Ellesmere Avenue, Mill Hill, London, NW7 3HB	0.05	X	C&I	✓	182	162	227	256	243
BAR 9	Vacant (previously Savecase Ltd)	Railway Arches, Colindeep Lane, Hendon, London, NW9 6HD	1	X	C&I	N/A	0	0	0	0	0
BAR 10	G B N Services Ltd, New Southgate	Land/Premises at Oakleigh Road South, Friern Barnet,	0.4	X	CDE	✓ (72%)	14,596	29,938	29,456	31,274	10,746

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		London, N11 1HJ									
BAR 11	Upside Railway Yard	Upside Railway Yard, Brent Terrace, Cricklewood, London, NW2 1LN	0.72	X	CDE	X	0	0	0	0	234,930
CAM1	Regis Road Reuse and Recycling Centre	Regis Road, Kentish Town, London NW5 3EW	0.2	✓	LACW	X	-	2,535	5,409	5,595	5,119
ENF 1	Crews Hill Transfer Station (Enfield Skips Limited)	Kingswood Nursery, Theobalds Park Road, Crews Hill, Enfield, Middlesex, EN2 9BH	0.3	X	C&I	X	17,466	17,124	19,231	19,507	18,427
ENF 2	Barrowell Green Recycling Centre (Enfield Community Recycling Centre)	Barrowell Green, Winchmore Hill, London, N21 3AU	0.5	X	LACW	X	10,715	14,556	13,837	11,541	16,923
ENF 3	Pressbay Motors Ltd, Motor Salvage Complex	Motor Salvage Complex, Mollison Avenue, Brimsdown, Enfield,	0.3	X	C&I	✓	63	63	26	29	37

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		Middlesex, EN3 7NJ									
ENF4 Remove site from schedule. Waste facility no longer on site. Waste is now contracted out.	Chase Farm Hospital, The Ridgeway (SITA)	Chase Farm Hospital, The Ridgeway, Enfield, Middlesex, EN2 8JR		X	C&I (clinical)	✓	1,615	1,705	2,396	2,276	-
ENF 5	Jute Lane, Brimsdown	Greenwood House, Jute Lane, Brimsdown, Enfield, Middlesex, EN3 7PJ	0.05	X	LACW	✓ (76%)	16,115	11,732	12,659	10,125	15,410
ENF 6	AMI Waste (Tuglord)	17 Stacey Avenue, Edmonton, London, N18 3PP	0.3	X	C&I / CDE	X	16,855	27,043	28,566	23,004	21,974

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
ENF7	Vacant (formerly Budds Skips)	The Market Compound, 2 Harbet Road, Edmonton, London, N18 2HQ	0.1	X	C&I / CDE	-	834	802	1,778	0	0
ENF8	Biffa Edmonton (AKA Greenstar Environmental)	Atlas at Aztec 406, 12 Ardra Road, Off Meridan Way, Enfield, London, N9 0BD	3.7	X	LACW / C&I	✓ (84%)	231,771	72,530	271,888	276,855	270,106
ENF9	Hunt Skips, Commercial Road, Edmonton	Rear of 160 Bridport Road, Commercial Road, Edmonton, London, N18 1SY	0.14	X	C&I / CDE	✓	9,935	-	20,359	-	8,719
ENF10	Rooke & Co Ltd, Edmonton	Montague Road Industrial Estate, 22-26 First Avenue, Edmonton, London, N18 3PH	0.5	X	C&I	✓	32,249	24,867	28,095	25,235	3,897
ENF11	Edmonton Bio Diesel Plant (Pure Fuels)	Unit A8 Hastingwood Trading Estate, Harbet Road,	0.03	X	C&I	✓	512	738	895	1,251	-

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		London, N18 3HT									
ENF12	Camden Plant	Camden Plant, Lower Hall Lane, Chingford	15	X	CDE	✓	236,950	232,590	241,900	216,334	206,806
ENF13	Personnel Hygiene Services Ltd, Princes Road, Upper Edmonton	10 Princes Road, Edmonton, London, N18 3PR	0.1	X	C&I	X	0	0	95	1,004	1,081
ENF14	Vacant (Formerly Lea Valley motors Ltd)	Second Avenue, Edmonton	0.3	X	C&I	N/A	0	0	0	0	0
ENF15	A & A Skip Hire Limited	Yard 10-12 Hastingwood Trading Estate, Harbet Road, Edmonton, London, N18 3HR	0.1	X	C&I	✓ (89%)	0	0	9,391	16,277	10,696
ENF17	Albert Works,	Albert Works, Kenninghall Road, Edmonton, London, N18 2PD	1.5	X	C&I	✓	193,308	224,020	233,225	211,424	-
ENF18	Edmonton Energy from Waste Facility	Edmonton Ecopark, Advent Way,	15	X	LACW	✓	546,402	526,829	560,685	550,408	597,134

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		Edmonton, London, N18 3AG									
	LondonEnergy Ltd Composting	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG		X	LACW	✓	32,498	32,779	35,241	32,475	33,981
	LondonEnergy Bulk Waste Recycling Facility	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG		X	LACW	X	192,907	190,333	168,121	157,227	198,389
	Ballast Phoenix Ltd	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG		X	LACW	✓	58,255	106,341	112,419	109,114	101,189
ENF23	J O' Doherty Haulage	Pegamoid Site, Nobel Road, Edmonton, London, N18 3BH	0.5	X	C&I	✓ (59%)	85,103	69,124	64,897	77,305	88,636
ENF24	Oakwood Plant Ltd, Edmonton	Oakwood House, Nobel Road, Eley Industrial	0.7	X	C&I / CDE	✓ (84%)	10,282	7,495	10,011	13,489	14,428

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
		Estate, Edmonton, London, N18 3BH									
ENF25	Environcom Ltd (Edmonton Facility)	Unit 8a Towpath Road Stonehill Business Park, N18 3QU	0.45	X	Hazardous (WEEE)	✓	2,447	1,327	9,194	11,400	67
ENF26	Powerday Plant Ltd, Jeffreys Road	Unit 2, Jeffrey's Road, Brimsdown, Enfield, Middlesex, EN3 7UA	0.5	X	C&I / CDE	✓	27,319	18,664	43,851	23,490	49,754
ENF30	Hunsdon Skip Hire (Previously L&M Skips and London & Metropolitan Recycling)	Unit 1, 1b Towpath Rd, Stonehill Business Park, London, N18 3QX	0.64	X	C&I / CDE	✓	0	7,150	26,545	15,501	11,337
ENF31	Volker Highways Ltd	15 Edison Road, Brimsdown Industrial Estate, Enfield EN3 7BY	0.71	X	C&I / CDE	✓	-	8,892	13,652	7,344	-
ENF32	Guy Lodge Farm	The London Composting Company Ltd		X		-	14,992	33,720	4,200	0	0

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
Remove site from schedule - temporary use only											
ENF35	Redcorn (ELV)	22a & 24, Stacey Avenue, Montagu Industrial Estate, Enfield, N18 3PS	0.09	X	Hazardous (C&I)	✓	-	-	-	-	6,557
ENF37 WAF4 and WAF17 transferring here	GBN	Gibbs Road, Montagu Industrial Estate, London, N18 3PU	1.7	X	CDE	✓					
HAC1	Millfields Waste Transfer & Recycling Facility	Millfields Recycling Facility, Millfields Road, Hackney, London, E5 0AR	0.6	Currently being safeguarded through Local Plan	LACW	X	18,202	13,935	14,173	16,785	16,725

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
HAC2	Downs Road Service Station (currently being redeveloped to include replacement facility)	1A Downs Road, Clapton, London, E5 8QJ	0.2	Currently being safeguarded through Local Plan	C&I	✓	177	175	96	101	-
HAR1&2 Remove site from schedule - site redeveloped, capacity transferred to HAR10	Hornsey Waste and Recycling Centre	Hornsey Central Depot, 35 High Street, London, N8 7QB		N/A	LACW	-	3,357	2,295	2,813	0	0
HAR3	Biffa Waste Services Ltd, Garman Road	81, Garman Road, Tottenham, London, N17 0UN	0.2	✓	C&I	✓	28,851	30,355	34,690	33,704	37,454
HAR4	O'Donovan, Markfield Road	100a Markfield Road, Tottenham, London, N15 4QF	0.8	✓	C&I / CDE	✓ (50%)	6,316	10,099	11,143	7,035	14,693

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
HAR5	Redcorn Ltd	44 White Hart Lane, Tottenham, London N17 8DP	1.1	X	C&I	✓	15,712	22,733	23,852	8,508	-
HAR6	Restore Community Projects, Ashley Road, Tottenham	Unit 18, Ashley Road, Tottenham Hale, London, N17 9LJ	0.5	✓	C&I	✓	24	103	185	278	98
HAR7 Proposed change to boundary	Redcorn / Brantwood Auto Recycling	Brantwood Road, Tottenham, London N17 0ED	0.5	✓	C&I	✓	2,470	5,225	2,250	23,779	39,283
HAR8	O'Donovan, Tottenham	82 Markfield Road, Tottenham, London, N15 4QF	0.1	✓	CDE	✓	5,079	27,330	31,460	25,674	123,308
HAR9	Park View Road Reuse and Recycling Centre	Civic Amenity Site, Park View Road, Tottenham, London, N17 9AY	0.1	✓	LACW	X	3,706	2,409	6,326	5,499	5,745

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
HAR10 HAR1&2 transfer red here	Western Road Re-use & Recycling Centre	Western Road, Haringey N22 6UG	0.28	✓	LACW	X	0	0	2,526	4,851	3,799
HAR11	Durnford Street Car Dismantlers & Breakers	6-40, Durnford Street, Tottenham, London, N15 5NQ	0.09	X	C&I	✓	0	0	0	432	288
ISL1	Hornsey HWRC and Transfer Station	Hornsey Street, Islington London N7 8HU	1	X	LACW	X	196,818	195,018	203,919	204,496	212,232
WAF1	Mercedes Parts Centre	21 Chingford Industrial Estate, Hall Lane, Chingford, London, E4 8DJ	0.12	Will be identified in Policies Map	C&I	✓	0	0	0	0	7
WAF2	Kings Road Household Waste Recycling Centre	Civic Amenity Site, 48 Kings Road, Chingford, London, E4 7HR	0.3	Will be identified in Policies Map	LACW	X	1,213	881	2,178	2,400	2,853
WAF3	South Access Road Household Waste Recycling Centre (Civic Amenity Site)	42a South Access Road, Walthamstow, London, E17 8BA	0.52	Will be identified in Policies Map	LACW	X	2,917	2,784	6,790	6,949	7,203
WAF4	G B N Services,	Estate Way, 210 Church Road,		-	C&I	-	27,711	49,210	72,166	18,190	70,408

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
Remove site from schedule - capacity transferred to ENF37		Leyton, London, E10 7JQ									
WAF5	Vacant (previously T J Autos)	17 Rigg Approach, Leyton, London, E10 7QN	0.07	-	C&I	✓	53	53	81	21	11
WAF6 Remove site from schedule - Site no longer in waste use (Wildcard Brewery)	B J Electronics, Ravenswood road Industrial Estate, Walthamstow	Unit 8 Ravenswood Industrial Estate, Shernhall Street, Walthamstow, London, E17 9HQ		-	C&I	-	5,273	0	0	0	0

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
WAF8	Leyton Reuse & Recycling Centre	Gateway Road, Leyton, London, E10 5BY	0.14	Will be identified in Policies Map	LACW	X	2,164	2,255	2,564	3,003	2,589
WAF9	Vacant (formerly B D & G Parts For Rover)	Roxwell Trading Park, Leyton	0.03	Will be identified in Policies Map	C&I	-	0	0	0	0	0
WAF10	Malby Waste Disposal Ltd	5 Staffa Road, Leyton, London, E10 7PY	0.09	Will be identified in Policies Map	C&I / CDE	X	6,700	10,682	12,624	7,339	9,925
WAF12	Argall Metal Recycling	Unit 1, Staffa Road, E10 7PY	0.44	Will be identified in Policies Map	C&I	✓	0	21,537	31,603	30,378	0
WAF14	Tipmasters	15 Rigg Approach London Greater London E10 7QN	0.34	Will be identified in Policies Map	C&I	X	0	0	586	2,847	3,622
WAF15 Remove site from schedule – site redeveloped for housing	Bits and Parts	100-102 Manor Road, Leyton, E10 7HN		Will be identified in Policies Map	C&I	✓	0	0	6	5	2

Site ID	Site Name	Site Address	Size (ha)	Identified in Borough policies map	Waste Stream	Managed Waste	2012	2013	2014	2015	2016
WAF16	Whipps Cross Hospital Clinical Waste Treatment Facility	Whipps Cross Hospital, Whipps Cross Road, London, E11 1NR	0.29	Will be identified in Policies Map	C&I (clinical)	X	0	0	0	0	5
WAF17 Remove site from schedule – capacity transferred to ENF37	Pulse Environmental Ltd	Unit 7 A & B, 210, Church Road, Leyton, E10 7JQ			C&I	-	0	0	0	0	9,164