EEAWP

EAST OF ENGLAND
AGGREGATES WORKING PARTY



ANNUAL REPORT: 2021

Bedford, Central Bedfordshire and Luton • Cambridgeshire and Peterborough Essex, Southend-on-Sea and Thurrock • Hertfordshire • Norfolk • Suffolk



East of England Aggregates Working Party

Annual Monitoring Report 2021 Data









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Figure 5

Location of recycled aggregate sites in 2021

ACRONYMS

AMS Aggregate Mineral Survey

AMS 2019 AMS undertaken by the BGS in 2019

AWP Aggregate Working Party

BAA British Aggregates Association

BGS British Geological Survey

DLUHC Department for Levelling Up, Housing and Communities

EEAWP East of England Aggregate Working Party

LAA Local Aggregate Assessment

MASS Managed Aggregate Supply System

MHCLG Ministry of Housing, Communities and Local Government

MPA Mineral Products Association

NACG National Aggregate Co-ordinating Group

NPPF National Planning Policy Framework

PPG Planning Practice Guidance

SOCG Statement of Common Ground

GLOSSARY

Aggregate Working Party A technical advisory group of mineral planning authorities

and other relevant organisations who work together to produce data on aggregate demand and supply in their area and to provide advice to mineral planning authorities

and to the National Aggregate Co-ordination Group

Department for Levelling Up, Housing

and Communities

Government department formerly known as the Ministry

of Housing, Communities and Local Government

Local Aggregate Assessment An annual assessment of the demand for and supply of

aggregates in a mineral planning authority's area

Managed Aggregate Supply System This system works through national, sub-national and local

partners working together to ensure a steady and adequate supply of aggregate mineral across the country

representatives from each AWP, as well as from key government departments and other organisations as deemed appropriate by DLUHC, to monitor the overall provision of aggregates in England and to provide timely

advice to Government and to individual AWPs

National and Sub-National Guidelines Guidelines for the provision of aggregates published in

June 2009 to replace those which had existed since 2003 (link: National and regional guidelines for aggregates

provision in England 2005 to 2020)

Recycled aggregates Aggregates resulting from the processing of inorganic

materials previously used in construction, eg construction

and demolition waste

Secondary aggregates Aggregates from industrial wastes such as glass (cullet),

incinerator bottom ash, coal derived fly ash, railway ballast, fine ceramic waste (pitcher), and scrap tyres; and industrial and minerals by-products, notably waste from china clay, coal and slate extraction and spent foundry

sand. These can also include hydraulically bound materials

Statement of Common Ground A statement of common ground is a written record of the

progress made by strategic policy-making authorities during the process of planning for strategic cross-boundary

matters

EXECUTIVE SUMMARY

This Annual Monitoring Report for the East of England covers the calendar year 2021 and has been compiled by the East of England Aggregates Working Party (AWP).

Aggregate sales and reserve data for 2021 have been taken from survey returns made by operators to their respective mineral planning authorities, or, in the case of marine aggregate data, from The Crown Estate's Non Confidential Statistics for 2021. Information has also been sought on secondary and recycled aggregates along with records of minerals planning applications which have been granted, refused, withdrawn or remain undetermined over the monitoring period. In the case of recycled aggregate data, this has either been provided via survey returns or ascertained using the 2021 Waste Data Interrogator which was published by the Environment Agency on 30 September 2022.

East of England Sand and Gravel and Crushed Rock Sales Figures (2021)

	Sales (thousand tonnes)	% change from 2020	3 year average sales 2019- 2021 (thousand tonnes)	% change from 2018- 2020	10 year average sales 2012- 2021 (thousand	% change from 2011- 2020
Sand and Gravel	12,408	+18.7	11,213	+0.1	11,168	+2.9
Crushed Rock	207	+38.9	153	-2.5	320	-1.5

Sales of land-won sand and gravel in the East of England increased 18.7% to 12.408mt in 2021 compared with 10.457mt in 2020, thereby nearing the 12.67mt recorded in 2017 which remains the largest annual sales figure in any of the preceding ten years. Both the three and ten year averages over the periods 2019-2021 and 2012-2021 respectively returned a figure of 11.2mt which was also equivalent to the three year average recorded over the previous period of 2018-2020.

Sales figures for local crushed rock have, as in previous years, been combined for confidentiality reasons to provide an overall figure for the East of England. The figure now includes limestone from Cambridgeshire and Peterborough, Carstone from Norfolk and, since 2019, sandstone from Bedfordshire. In 2021, sales stood at 0.207mt representing a 39% increase on 2020 sales (0.149mt) and nearing a level previously seen in 2018. The 2021 sales figure was substantially above the 3 year average of 0.153mt but remained well below the 10 year average of 0.320mt.

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East of England Sand and Gravel and Crushed Rock Reserves and Landbank Figures (2021)

	Reserves (thousand tonnes)	% change from 2020	Landbank based on 10 year sales average	% change from 2020
Sand and Gravel	119,606	-0.15*	10.7	-0.9
Crushed Rock	4,631	-7.5	14.5	-5.8

*Note that the total sand and gravel permitted reserves figure reported in the 2020 Annual Monitoring Report was 117.202mt. Since publication of the report, this figure has been revised upwards to 119.782mt to include sites in Suffolk which should have been included because they had permission but had not yet started extraction. The percentage change shown is based on the corrected 2020 figure of 119.782mt.

At the end of 2021, reserves of land-won sand and gravel in the East of England stood at 119.606mt. Applying the NPPF methodology based on a rolling average of 10 year sales indicates a landbank of 10.7 years at the end of 2021 (119.606/11.168) which is almost equivalent to the landbank figure of 10.8 years for 2020. Using the 10 year average sales figure methodology as set out in the NPPF indicates that all mineral planning authorities within the East of England except Hertfordshire could demonstrate sand and gravel landbanks in excess of the seven year threshold as at the end of 2021 (see Table 5 below) although some authorities are drawing quite close to the 7 year minimum. Hertfordshire's sand and gravel landbank at the end of 2021 was just 5.5 years.

In terms of landbanks of crushed rock, based on the rolling average of 10 year sales, a landbank of 14.5 years can be demonstrated in 2021 compared with 15.4 years in 2020, representing the first reduction in the landbank for several years.

New planning permissions in the East of England were granted in respect of a total of 8.641mt of aggregate (sand and gravel) in 2021. As at the year end, the collective authorities had undetermined applications proposing a total of over 35mt of additional reserves. Of these, one in Hertfordshire for 3.52mt and one in Greater Essex¹ for 1.31mt have resolutions to approve, subject to a section 106 agreement.

Sales for both sand and gravel and crushed rock are below the levels of provision anticipated within the subnational apportionment figures (12.41mt (actual 2021 sand and gravel sales) versus 14.75 mtpa (Guideline figure) and 0.21mt (actual 2021 crushed rock sales) versus 0.5 mtpa (Guideline figure)). It is also important to consider the context of continued sales against the backdrop of a general downward trend in reserves, particularly in sand and gravel reserves and, in particular, to bear in mind that between 2011 and 2020 only 76% of crushed rock permitted reserves were replenished (with the 10-year replenishment rate expected to reduce significantly in the next two years) and just 63% of sand and gravel reserves², a position which is unsustainable in the long run and which must be considered to be of concern. Caution should, therefore, continue to be exercised when assessing the position against 10 year sales figures and individual mineral

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¹ Greater Essex comprises three individual authorities, namely Essex, Thurrock and Southend-on-Sea.

² Data taken from MPA press release dated 20 September 2022.

planning authorities are encouraged to give careful consideration to their annual aggregate provision rates when preparing their Local Aggregate Assessments and particularly when reviewing their development plans.

It should also be noted that the East of England is heavily dependent on imports of both sand and gravel and crushed rock, with the AMS 2019 recording that 2.3mt of sand and gravel and 8.8mt of crushed rock were imported in 2019.

From the data available in the East of England, it can be established that there are a number of large-scale schemes in the pipeline that will require significant quantities of aggregates. However, it is not currently possible to establish the likely total demand for minerals required for these large scale projects, either from a lack of estimate of demand from those within the region, or in the absence of a comprehensive list of projects outside the region.

Accordingly, in the absence of up to date guidelines and without clear visibility on future demand, the East of England Aggregates Working Party considers that it is presently unable to advise the National Aggregate Coordinating Group and DLUHC that the authorities comprising the East of England are currently able to make a full contribution to both local and national aggregate needs.

Finally, whilst this annual report looks at landbanks based on a rolling average of 10 year sales data, thereby adopting the suggested methodology within the NPPF, it should be noted that both Cambridgeshire and Peterborough and Greater Essex prefer to rely on rates set out within their development plans whilst Norfolk, in its emerging Minerals and Waste Local Plan, proposes from this year forwards to base its annual provision rate on the rolling 10 year average sales figure plus ten percent. In a change from last year, Hertfordshire has opted to calculate its landbank based on the rolling 10 year sales average covering the period 2012-2021.

Table 1: Dashboard Key Data Summary 2021

	2021 Sales (thousand tonnes)	Change (from 2020)	10-year Sales Average (thousand tonnes)	3-year Sales Average (thousand tonnes)	10-year Change (from 2020)	Reserves as at 31.12.21 (thousand tonnes)	Change (from 2020)	Landbank (based on 10-year Sales Average)	Change (from 2020)
All land- won sand	12,408	1	11,168	11,213	1	119,606	V	10.7	\
and gravel									
All crushed rock	207	↑	320	153	V	4,631	\	14.5	V
Marine sand and gravel (landings)	454.6	↑	361.2	392.4	↑				
Total primary aggregates	13,069.6	↑							
Secondary aggregates	318.97	↑	304.80	268.17					
Recycled aggregates	2,302.8	↑	1,260.7	2,093.8					

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1. AWP MEMBERSHIP

- 1.1 The Aggregates Working Parties³ (AWPs) were established in the 1970s to collect and monitor data on aggregates provision as an aid to minerals planning. AWPs are joint local government, central government and industry bodies that monitor the supply of, demand for, and reserves of all aggregates including primary aggregate and alternative sources in local authority areas. They also consider the implications of supply to and from these areas. Whilst not policy-making bodies, they do provide information to facilitate the work of mineral planning authorities, national government agencies and the minerals industry. The AWPs operate under contracts made between the Department for Levelling Up, Housing and Communities (DLUHC) (formerly the Ministry of Housing, Communities and Local Government (MHCLG)) and the secretaries of the AWPs.
- 1.2 The East of England Aggregates Working Party (EEAWP) was established in 2001. It comprises the former East Anglia mineral planning authorities (Norfolk, Suffolk, Cambridgeshire and Peterborough) and mineral planning authorities from the former South East (Essex, Southend-on-Sea, Thurrock, Hertfordshire, Central Bedfordshire, Bedford Borough and Luton) as highlighted on Figure 1.

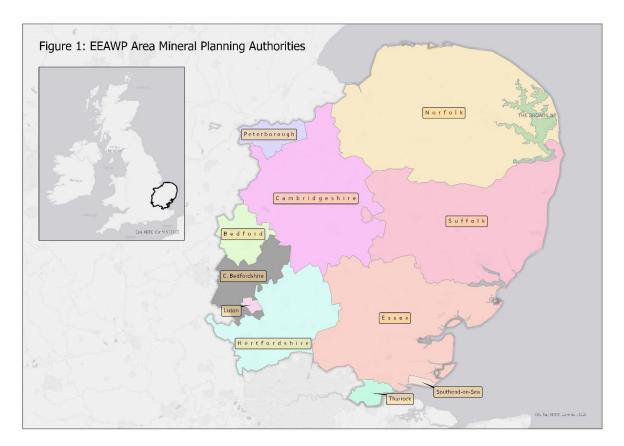


Figure 1: Mineral Planning Authorities in the East of England

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Aggregate Working Parties were previously known as Regional Aggregate Working Parties but this was changed to reflect national guidelines.

1.3 Membership of the EEAWP is listed below (by organisation rather than individual).

Chair
Essex County Council
Secretariat
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Mineral Planning Authority Representatives
Cambridgeshire County Council
Bedford Borough, Central Beds & Luton Borough Councils
Essex County Council
Hertfordshire County Council
Peterborough City Council
Norfolk County Council
Thurrock Borough Council
Southend-on-Sea Borough Council
Suffolk County Council
Minerals Industry Representatives
Aggregates Industries
Brett Aggregates Ltd
British Aggregates Association (BAA)
Breedon Group
Longwater Gravel
Hanson UK
Middaggs
Mineral Products Association (MPA)
Tarmac
Cemex
Other
The Crown Estate
Marine Management Organisation
DLUHC

1.4 The EEAWP met on a number of occasions during 2021. Details of these meetings together with a link to the relevant minutes are included at Appendix 1.

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2. PRIMARY AGGREGATES

Introduction

2.1 Data on land-won aggregates and crushed rock reserves and sales together with information on recycled and secondary aggregates has been derived both from the local aggregate assessments (LAAs) produced by the mineral planning authorities within the East of England, the annual survey returns provided by operators and from the Environment Agency's Waste Data Interrogator.

Land Won Aggregates

Sand and Gravel

2.2 Aggregate sand and gravel is found throughout the East of England and consequently all the East of England mineral planning authorities contribute towards local and national aggregate needs. A list of permitted primary aggregate extraction sites operational within the East of England by mineral planning authority area in 2021 is set out in Appendix 2.

Crushed Rock

- 2.3 The crushed rock resource in the East of England is not of sufficiently high quality for it to be economic to transport any significant distance and is therefore not a truly regional resource. However, it is a non-energy mineral that may be used in substitution for aggregate in certain situations depending on specification.
- 2.4 Until recently, Cambridgeshire and Peterborough and Norfolk were the only two mineral planning authorities within the East of England region to produce crushed rock, with the former producing limestone and the latter Carstone. However, with effect from 2019, the Bedfordshire Authorities have also reported limited sales and reserves of crushed rock (sandstone). As these figures stem from just one sandstone quarry, they have been combined with the figures for Cambridgeshire/Peterborough and Norfolk.
- 2.5 Figure 2 below is a map of all rail depots, wharves and quarries in the East of England in 2021.

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Figure 2: EEAWP Primary Aggregate Sites 2021

Site Locations 2021

- Former quarry
- Quarry
- Quarry/Wharf
- Rail depot
- Wharf

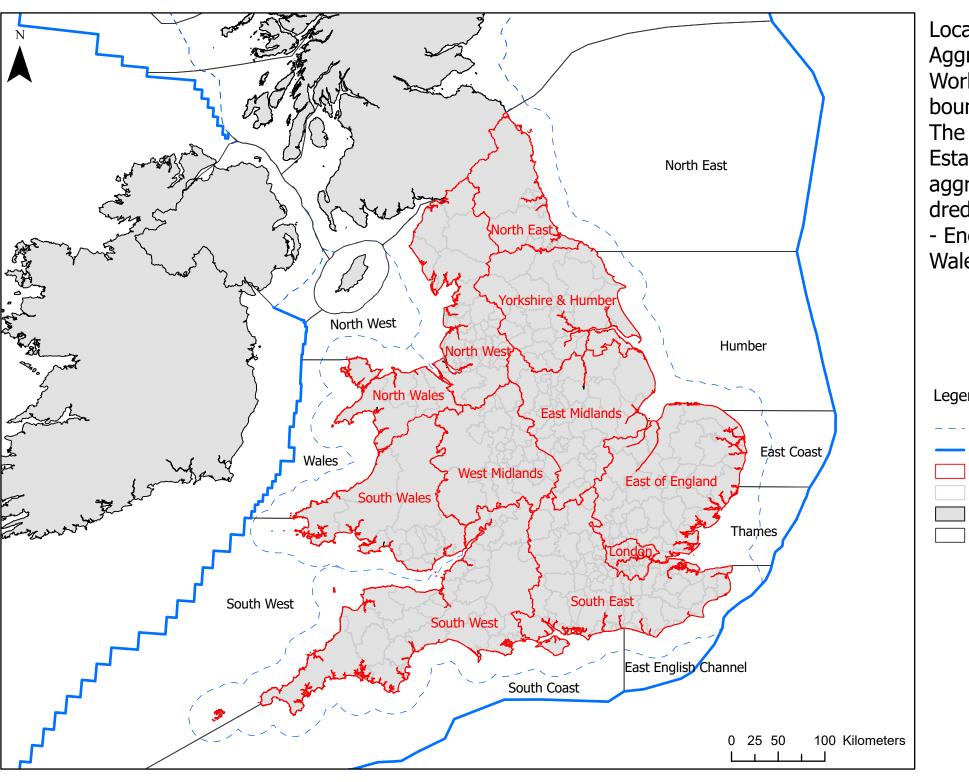




Marine Aggregates

- 2.6 In 2021, in the East of England AWP area, a total of 0.45mt of marine dredged aggregates were landed into Ipswich and Thurrock comprising approximately 3.5% of the region's total sand and gravel production (0.45/(0.45+12.41)).
- 2.7 Marine dredged aggregates (sand and gravel) that were dredged from licensed areas and landed in the East Coast region (in which Ipswich is located) amounted to 221,500 tonnes in 2021. The East Coast region has a permitted licence tonnage of 7.13mt. In the Thames Estuary region (in which Thurrock is located), 8.21mt were landed. The aggregate that is landed here is extracted from a number of different dredging regions which include the East Coast, Thames Estuary, East English Channel and to a lesser extent the South Coast. The permitted licence tonnage in the Thames Estuary itself is 4.4mt. It is understood that these amounts exclude material dredged from areas not in the ownership of the Crown Estate and material that was removed for navigational purposes.
- 2.8 Figure 3 below is a map showing the location of offshore aggregate production areas in 2021.

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Location of Aggregate Working Party boundaries and The Crown Estate marine aggregate dredging regions - England and Wales

Legend:

- 12 Mile Limit **UK Continental Shelf**

AWP Regions

Counties

UK

TCE dredge regions

2021 marine aggregate extraction and delivery tonnages (England and Wales)

Construction Use			Extraction from	Crown Estate d	redging regions			
Delivery to AWP Regions	Humber	East Coast	Thames	East English Channel	South Coast	South West	North West	Total
North East (England)	591,480	157,265	17,186					765,930
Yorkshire and The Humber	95,174	195,167						290,341
East of England	7,282	44,762	8,465	377,787	16,327			454,623
London	317,904	1,698,928	635,274	1,763,822	193,745			4,609,674
South East (England)	37,157	1,153,373	796,241	749,061	3,601,993	4,126		6,341,951
South West (England)		107			104,552	733,071		837,730
South Wales (RAWP)						696,552		696,552
North Wales (RAWP)							3,122	3,122
North West (England)							254,238	254,238
Export (EU)	2,454,001	54,407	144,140	1,592,642	69,462			4,314,653
Total	3,502,998	3,304,010	1,601,306	4,483,312	3,986,079	1,433,749	257,360	18,568,814

Beach replenishment and reclamation use		Extraction from Crown Estate dredging regions											
Delivery to AWP Regions	Humber	East Coast	Thames	East English Channel	South Coast	South West	North West	Total					
East Midlands (England)	739,196							739,196					
South East (England)			515,639	103,925	1,657			621,221					
South West (England)						24,338	1,197	25,535					
North West (England)							670,664	670,664					
Total	739,196	0	515,639	103,925	1,657	24,338	671,861	2,056,616					

^{*}There are no licensed areas in the North East Crown Estate dredging region all figures quotes in tones

Sales of Primary Aggregate

- 2.9 Sales of land-won sand and gravel in the East of England increased 18.7% to 12.408mt in 2021 compared with 10.457mt in 2020, thereby nearing the 12.67mt recorded in 2017 which remains the largest annual sales figure in any of the preceding ten years. The three year average over 2019 2021 returned a figure of 11.2mt, moreorless equal both to the three year average of 11.2mt recorded over the previous period of 2018-2020, and the ten year sales average which was, itself, marginally up on the previous 10 year sales average covering the period 2011-2020 (10.9mt).
- 2.10 Sales figures for local crushed rock have, as in previous years, been combined for confidentiality reasons to provide an overall figure for the East of England. The figure now includes limestone from Cambridgeshire and Peterborough, Carstone from Norfolk and, since 2019, sandstone from Bedfordshire. In 2021, sales stood at 0.207mt representing a 39% increase on 2020 sales (0.149mt) and nearing a level previously seen in 2018. The 2021 sales figure was substantially above the 3 year average of 0.153mt but remained well below the 10 year average of 0.320mt.
- 2.11 A full list of sales data for the 10 year period from 2012 2021 is set out in Table 2 below.

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Table 2: Land-won Aggregate Sand and Gravel, Marine Sand and Gravel and Crushed Rock Sales 2012 – 20214 (thousand tonnes)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average
Land Won Sand and Gra	vel	•		<u>'</u>				•		•		
Bedford, Central Bedfordshire and Luton	1,197	1,255	1,622	1,322	1,692	1,643	1,675	1,217	1,212	1,480	1,432	1,303
Cambridgeshire and Peterborough	1,783	1,837	2,650	2,548	2,565	3,559	3,199	3,211	2,823	3,482	2,766	3,172
Essex, Southend-on- Sea and Thurrock	2,303	3,184	4,368	3,454	3,400	3,415	3,559	2,936	2,962	3,636	3,322	3,178
Hertfordshire	1,124	1,130	1,210	1,224	1,165	1,167	1,207	1,245	1,123	1,148	1,174	1,172
Norfolk	1,131	1,115	1,462	1,415	1,623	1,605	1,511	1,280	1,312	1,491	1,395	1,361
Suffolk	1,088	1,061	1,000	871	1,203	1,277	1,221	886	1,025	1,171	1,080	1,027
Total Land Won Sand and Gravel Sales (thousand tonnes)	8,626	9,582	12,312	10,834	11,648	12,666	12,372	10,775	10,457	12,408	11,168	11,213

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⁴ To avoid under-reporting sales and reserves, mineral planning authorities may have included estimates of sales and reserves figures for sites without a submitted return.

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average
Marine Sand and Gravel	5											
Bedford, Central Bedfordshire and Luton	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cambridgeshire and Peterborough	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Essex, Southend-on- Sea and Thurrock	С	С	С	С	С	С	С	С	С	233.1	U	U
Hertfordshire	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Norfolk	no data	no data	<0.5	no data	no data	nil	no data	nil	nil	nil	n/a	n/a
Suffolk	С	С	С	С	С	С	С	С	С	221.5	U	U
Total Marine Sand and Gravel Landings (thousand tonnes)	333.6	273.4	295.4	323.7	434.8	402.8	371.1	294.7	427.9	454.6	361.2	392.4

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⁵ NB Marine data has been taken from the non-confidential document entitled 'Marine Aggregates The Crown Estate Licences Summary of Statistics 2021' and refers to landings rather than sales.

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average
Crushed Rock											1	1
Bedford, Central Bedfordshire and Luton	С	С	С	С	С	С	С	С	С	С	С	С
Cambridgeshire and Peterborough	С	С	С	С	С	С	С	С	С	С	С	С
Essex, Southend-on- Sea and Thurrock	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hertfordshire	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Norfolk	С	С	С	С	С	С	С	С	С	С	С	С
Suffolk	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Crushed Rock Sales (thousand tonnes)	287	355	668	353	456	399	217	104	149	207	320	153
Total Aggregate Sales (thousand tonnes)	9,247	10,210	13,275	11,511	12,539	13,468	12,960	11,174	11,034	13,070	11,849	11,759
Notes:												

Notes:

C = confidential figure U = unknown

Permitted Reserves and Infrastructure Capacity

- 2.12 At the end of 2021, reserves of land-won sand and gravel in the East of England stood at 119.606mt. It should be noted that the total sand and gravel permitted reserves figure reported in the 2020 Annual Monitoring Report for the end of 2020 was 117.202mt. However, since publication of the report, this figure has been revised upwards to 119.782mt to include sites in Suffolk which should have been included because they had permission but had not yet started extraction. This means that there has been a 0.15% decrease in permitted reserves between the end of 2021 and the end of 2020, based on the corrected 2020 figure of 119.782mt.
- 2.13 By comparison, reserves of crushed rock stood at 4.631mt continuing a fairly steady trajectory of reserves recorded since 2012 with a range over the 10 year period of just 1.315mt (5.61mt in 2013 (highest figure) 4.295mt in 2018 (lowest figure)).
- 2.14 Table 3 below shows aggregate reserves within the East of England for the period 2012-2021.

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Table 3: Permitted Reserves in AWP area (thousand tonnes)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Sand & Gravel										
Bedford, Central Bedfordshire and Luton	21,700	21,726	13,559	19,386	18,341	15,910	15,219	16,215	17,265	15,952
Cambridgeshire and Peterborough	47,138	48,967	45,410	43,330	43,920	41,429	41,828	39,173	36,057	33,865
Essex, Southend-on-Sea and Thurrock	35,503	32,885	30,724	32,687	35,368	31,953	29,980	33,099	33,589	33,856
Hertfordshire	15,792	16,260	14,440	13,216	11,752	10,458	10,056	8,951	7,684	6,471
Norfolk	14,559	13,335	15,316	18,348	16,536	14,732	13,311	13,515	14,511	19,957
Suffolk	13,100	13,705	13,205	13,190	12,747	11,822	10,690	9,590	10,676 ⁶	9,505
Total Sand & Gravel Permitted Reserves (thousand tonnes)	147,792	146,878	132,654	140,157	138,664	126,304	121,084	120,543	119,782	119,606

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⁶ NB Suffolk 2020 figure revised up from figure reported in 2020 AMR to include sites that had previously been omitted but which should have been included because they had permission though had not yet started extracting.

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Crushed rock												
Bedford, Central Bedfordshire and Luton	С	С	С	С	С	С	С	С	С	С		
Cambridgeshire and Peterborough	С	С	С	С	С	С	С	С	С	С		
Essex, Southend-on-Sea and Thurrock	n/a											
Hertfordshire	n/a											
Norfolk	С	С	С	С	С	С	С	С	С	С		
Suffolk	n/a											
Total Crushed Rock Permitted Reserves (thousand tonnes)	5,510	5,610	4,807	4,415	4,881	4,480	4,295	5,121	5,005	4,631		
Total Permitted Reserves (Sand and Gravel + Crushed Rock) (thousand tonnes)	153,302	152,488	137,461	144,572	143,545	130,784	125,379	125,664	124,787	124,237		

Notes:

C = confidential figure

- 2.15 Information has been sought by mineral planning authorities from operators within the East of England region as to maximum capacity of rail depots and wharves within each mineral planning authority area. This is a different figure from actual throughput of goods. However, in many cases, maximum capacity has not been ascertained.
- 2.16 Table 4 below shows infrastructure capacity in terms of rail depots and wharves over the period 2012-2021, where it has been reported.

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Table 4: Infrastructure Capacity (thousand tonnes)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rail depot capacity								_		
Bedford, Central Bedfordshire and Luton									U	U
Cambridgeshire and Peterborough									U	U
Essex, Southend-on-Sea and Thurrock	U	U	U	U	С	U	U	U	С	1,980** combined
Hertfordshire	U	U	U	U	U	U	675.3*	756.2*	853.1*	906.2*
Norfolk	385*	385*	385*	385*	385*	605*	605*	605*	605*	605*
Suffolk									С	U
Total reported rail capacity	385	385	385	385	385	605	1,280.3	1,361.2	1,458.1	3,491.2
Wharf capacity										
Bedford, Central Bedfordshire and Luton									n/a	n/a
Cambridgeshire and Peterborough									U	U
Essex, Southend-on-Sea and Thurrock	U	U	U	U	С	U	U	U	С	1,980** combined

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hertfordshire	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Norfolk	2,000*	2,000*	2,000*	2,000*	2,000*	2,000	2,000	2,000	2,000	2,000
Suffolk									С	U
Total reported wharf capacity	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	3,980
Total reported infrastructure capacity	2,385	2,385	2,385	2,385	2,385	2,605	3,280.3	3,361.2	3,458.1	5,960

Notes:

C = confidential figure; U = unknown; * = estimated; ** = combined wharf and rail capacity at transhipment sites for reasons of confidentiality

Landbank in EEAWP Area

- 2.17 As stated in the Planning Practice Guidance (paragraph 080 Reference ID: 27-080-20140306), landbanks of aggregate mineral reserves, or aggregate landbanks, are principally a monitoring tool to provide a mineral planning authority with early warning of possible disruption to the provision of an adequate and steady supply of land-won aggregates in their particular area. Aggregate landbanks should be used principally as a trigger for a mineral planning authority to review the current provision of aggregates in its area and to consider whether to conduct a review of the allocation of sites in the plan. In doing so, a mineral planning authority may take into account the remaining planned provision in the minerals local plan.
- 2.18 Aggregate landbanks should be recalculated each year. The length of the aggregate landbank is the sum in tonnes of all permitted reserves for which valid planning permissions are extant, divided by the annual rate of future demand based on the latest annual local aggregate assessment. In calculating landbanks, the term 'permitted reserve' includes current non-working sites but excludes those sites where mineral working cannot take place until there has been a review of the planning conditions attached to the relevant planning permission (paragraph 083 Reference ID: 27-083-20140306).
- 2.19 At the end of 2021, permitted reserves of land-won sand and gravel in the East of England stood at 119.606mt. Applying the NPPF methodology based on a rolling average of 10 year sales indicates a landbank of 10.7 years at the end of 2021 (119.606/11.168) which is very similar to the landbank figure for 2020 (10.8 years). Using the 10 year average sales figure methodology as set out in the NPPF indicates that all mineral planning authorities within the East of England except Hertfordshire could demonstrate sand and gravel landbanks in excess of the seven year threshold as at the end of 2021 (see Table 5 below) although some authorities are drawing quite close to the 7 year minimum. Hertfordshire's sand and gravel landbank at the end of 2021 was just 5.5 years.
- 2.20 In terms of landbanks of crushed rock, based on the rolling average of 10 year sales, a landbank of 14.5 years can be demonstrated in 2021 compared with 15.4 years in 2020, representing the first reduction in the landbank for several years.
- 2.21 Finally, whilst this annual report looks at landbanks based on a rolling average of 10 year sales data, thereby adopting the suggested methodology within the NPPF, it should be noted that both Cambridgeshire and Peterborough and Greater Essex prefer to rely on rates set out within their development plans whilst Norfolk, in its emerging Minerals and Waste Local Plan, proposes from this year forwards to base its annual provision rate on the rolling 10 year average sales figure plus ten percent. Note that, in a change from last year, Hertfordshire has opted to calculate its landbank based on the rolling 10 year sales average covering the period 2012-2021.
- 2.22 Table 5 below gives details of the landbank in each mineral planning authority area within the East of England.

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Table 5: Landbank in East of England 2021

			Sand and Gra	avel		Crushed Rock							
Mineral Planning Authority	10-year average sales (thousand tonnes)	LAA Rate (thousand tonnes)	Reserves (as at 31st December 2021) (thousand tonnes)	Landbank in years based on Reserves / LAA Rate	Landbank in years based on Reserves / 10-year average	10-year average sales (thousand tonnes)	LAA Rate (thousand tonnes)	Reserves (as at 31st December 2021) (thousand tonnes)	Landbank in years based on Reserves / LAA Rate	Landbank in years based on Reserves / 10-year average			
Bedford, Central Bedfordshire and Luton	1,432	1,432	15,952	11.14	11.14	С	С	С	С	C			
Cambridgeshire and Peterborough	2,766	2,600	33,865	13	12.24	С	С	С	С	С			
Essex, Southend-on- Sea and Thurrock	3,322	4,450	33,856	7.61	10.19	n/a	n/a	n/a	n/a	n/a			
Hertfordshire	1,174	1,174	6,471	5.5	5.5	n/a	n/a	n/a	n/a	n/a			
Norfolk	1,395	1,534	19,957	13	14.31	С	С	С	С	С			
Suffolk	1,080	1,080	9,505	8.8	8.8	n/a	n/a	n/a	n/a	n/a			
AWP TOTAL	11,168	n/a	119,606	n/a	10.7	320	n/a	4,631	n/a	14.5			

Imports and Exports

- 2.23 The following text is taken from the final published version of the four yearly Aggregate Mineral Survey carried out by the British Geological Survey in 2019 (AMS 2019). These four yearly surveys are the only published source of information on aggregate sales by destination region.
- 2.24 'Inter-regional flows of crushed rock are significantly larger than for sand and gravel because of the overall larger demand for crushed rock, particularly for roadstone, and because regions such as the South East, London and the East of England have only minor, or inferior quality, crushed rock resources. In addition, the consistency and extent of some hard rock deposits permits their working on a very large scale, enabling much wider geographical areas to be served economically by rail. The transfer of crushed rock between regions is, therefore, more complex and uneven than for sand and gravel. It reflects the combined pattern of the extent of crushed rock resources and markets /population (demand).'
- 2.25 'Total exports of crushed rock from Wales to England were 3.2 Mt compared with 0.19 Mt in the opposite direction. The traditionally large crushed rock producers in England, the East Midlands and South West, have the largest exports representing 49% (14.3 Mt) and 33% (8.4 Mt) of their respective total crushed rock sales. Exports of crushed rock from North Wales, another traditional crushed rock exporter were 41% (1.8 Mt) of crushed rock sales. The main importing regions were the East of England (8.8 Mt), mainly from the East Midlands and the South West, the North West (6.2 Mt), mainly from the East Midlands and North Wales, and the South East (5.3 Mt), mainly from the South West. A significant amount of crushed rock (4.8 Mt) was imported from outside England and Wales, mainly from Scotland and Norway. The largest proportion (1.5 Mt) was landed in the South East followed by London (1.4 Mt) and the East of England (1.2 Mt).'
- 2.26 'Flows of sand and gravel were around one third the level of crushed rock. Total exports of sand and gravel from Wales to England were 0.52 Mt compared with Welsh imports from England of 0.06 Mt. The leading exporters of sand and gravel were the East Midlands (2.2 Mt), London (2.1 Mt) and the South East (1.7 Mt), and the leading importing regions were the East of England (2.3 Mt) and the South East (1.6 Mt). The majority of marine sand and gravel was used within the region where it was landed. The South East (4.9 Mt) and London (4.2 Mt) dominate marine-dredged sales.'
- 2.27 As is clear from the above, the East of England is heavily dependent on imports of both sand and gravel and crushed rock, with the AMS 2019 recording that 2.3mt of sand and gravel and 8.8mt of crushed rock were imported in 2019.

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3. SECONDARY AND RECYCLED AGGREGATES

Introduction

3.1 The revised NPPF (paragraph 210) specifically requires mineral planning authorities to take account of the contribution made by substitute or secondary and recycled materials and mineral waste before considering the extraction of primary materials whilst aiming to source mineral supplies indigenously.

Secondary Aggregates

- 3.2 Secondary aggregates are defined within the NPPF as 'aggregates from industrial wastes such as glass (cullet), incinerator bottom ash, coal derived fly ash, railway ballast, fine ceramic waste (pitcher), and scrap tyres; and industrial and minerals by-products, notably waste from china clay, coal and slate extraction and spent foundry sand. These can also include hydraulically bound materials'.
- 3.3 There are fewer than 10 secondary aggregate sites within the East of England AWP area. Table 6a below shows secondary aggregate sales in the East of England over the ten year period 2012-2021 whilst Figure 4 shows the location of secondary aggregate sites in the EEAWP area in 2021.

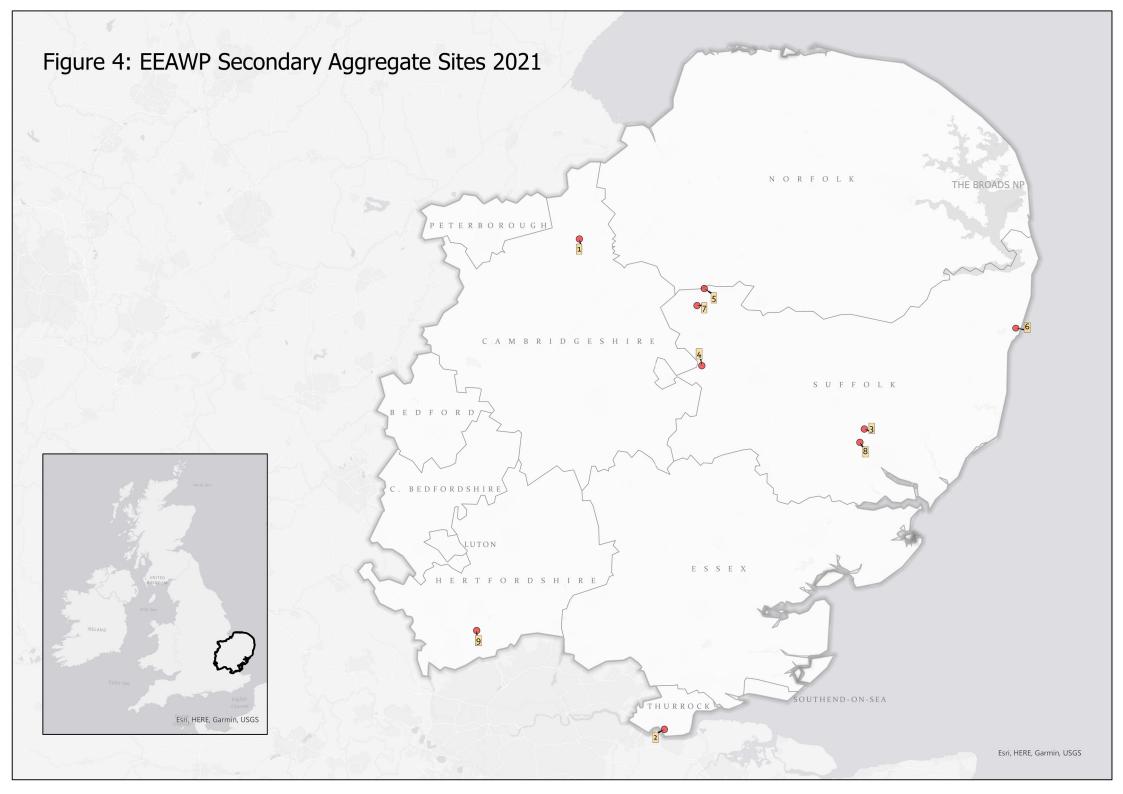
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Table 6a: Secondary Aggregate Sales

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average
Secondary Aggregate Sales (thousand tonnes)												
Bedford, Central Bedfordshire and Luton	n/a	n/a										
Cambridgeshire and Peterborough ⁷	No data	No data										
Essex, Southend-on-Sea and Thurrock	U	U	U	U	U	U	U	U	U	U	U	U
Hertfordshire ⁸	316.94	329.46	362.20	317.31	234.78	246.11	272.66	237.79	236.07	315.83	286.92	263.23
Norfolk	U	U	U	U	U	U	U	U	U	U	U	U
Suffolk						81.11	82.90		11.68	3.14	n/a	n/a
Total Reported Secondary Aggregate Sales (thousand tonnes)	316.94	329.46	362.20	317.31	234.78	327.22	355.56	237.79	247.75	318.97	304.80	268.17
Notes: C = Confidential figure												

⁷ Only one secondary aggregate site in area.

⁸ Secondary and recycled aggregate figures in Hertfordshire are combined.



Recycled Aggregates

- 3.4 Recycled aggregates are defined within the NPPF as 'aggregates resulting from the processing of inorganic materials previously used in construction, e.g. construction and demolition waste'. This will include crushed concrete, bricks, tiles, glass, asphalt planings and spent railway ballast. Such materials need to comply with national specifications and aggregate standards and therefore continue to provide an increasingly important contribution as substitutes for primary aggregates.
- 3.5 For the purpose of reporting annual sales in Local Aggregates Assessments, recycled aggregate is taken as being material which meets the 'end of waste' criteria set out in the WRAP/Environment Agency Quality Protocol⁹, that is, the criteria that the production of aggregates from inert waste must meet to achieve end of waste status. It is worth noting that the guidance produced by Planning Officers Society/Mineral Products Association on Local Aggregates Assessments¹⁰ gives a less stringent definition of recycled aggregates, as 'normally defined as an aggregate returning from the processing of inorganic materials previously used in construction'.
- 3.6 Robust data on arisings of construction, demolition and excavation waste including the amount sold as recycled aggregates have often been difficult to obtain and a standard methodology has not been adopted nationally. As a result of this, a guidance note has recently been prepared by representatives from the National Waste Technical Advisory Board Chairs and Aggregate Working Party Chairs¹¹. This guidance note details the various options available for the collection and collation of data in order to estimate arisings and sales of recycled aggregates. These options include obtaining data from annual surveys provided to mineral operators, filtering information from that included within the Waste Date Interrogator (WDI) (which is produced annually by the Environment Agency and is based on data received from regulated waste management facilities), or relying on national data produced through a government commissioned survey (the last one of which, it is understood, took place in 2005).
- 3.7 In the East of England, most mineral planning authorities choose to rely on survey data taken from the WDI. Whilst efforts continue in order to improve data reliability and comprehensiveness, estimates have had to be made by some mineral planning authorities. When reported estimates for recycled aggregates' production are collated, an East of England total of just over 2.3mt is reached for 2021.
- Table 6b below shows recycled aggregate sales in the East of England over the ten year period 2012-2021 whilst Figure 5 shows the location of recycled aggregate sites in the EEAWP in 2021.

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⁹ Aggregates from Inert Waste - Quality Protocol (the Quality Protocol is currently subject to a revision).

¹⁰ A Guide to the Production and Use of Local Aggregate Assessments (planningofficers.org.uk)

¹¹ Recycled Aggregates Data – Guidance on Assessing Levels of Recycled Aggregates – link: (https://www.cornwall.gov.uk/media/1jdpi3jc/final-guidance-on-recycled-aggregates-data-v5-may-22.pdf)

Table 6b: Recycled Aggregate Sales

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average	Calculation method	Comment
Recycled Aggregate Sales (thousand	tonnes)												
Bedford, Central Bedfordshire and Luton Cambridgeshire and	145.55	111.13	129.69	128.68	124.19	221.99	207.79	172.20	175.20	191.35	160.78	179.58	WDI	See footnote ¹² See
Peterborough	275	497	963	730	460	419	640	707	318	534	554	520	WDI	footnote ¹³
Essex, Southend-on-Sea and Thurrock	U	U	U	U	U	U	U	930	800	840	n/a	857	WDI	See footnote ¹⁴

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¹² The following waste types have been included: 01 04 04 waste from chemical processes; 01 04 09 waste from chemical processes; 17 01 01 concrete; 17 01 02 bricks; 17 01 03 tiles; 17 01 07 mixed; 17 03 03 bituminous - none; 17 05 08 track ballast; 17 09 04 mixed. Note that the tonnage of waste that was sent to landfill has been removed where possible. 20% has been added to each year's final figure, as recommended in the Recycled Aggregates Data Guidance document.

¹³ Estimate based on method used in previous Cambridgeshire LAAs for consistency. (Total Estimate Recycled Aggregate WDI National Method: 583)

¹⁴ Methodology based on RECYCLED AGGREGATES DATA: Guidance on Assessing Levels of Recycled Aggregates (Final May 22) Section 3 (pg 3) WDI approach (including the 20% increase to account for mobile plant (para 14, pg 4)

East of England Aggregates Working Party

Annual Monitoring Report

Annual Monitoring Report

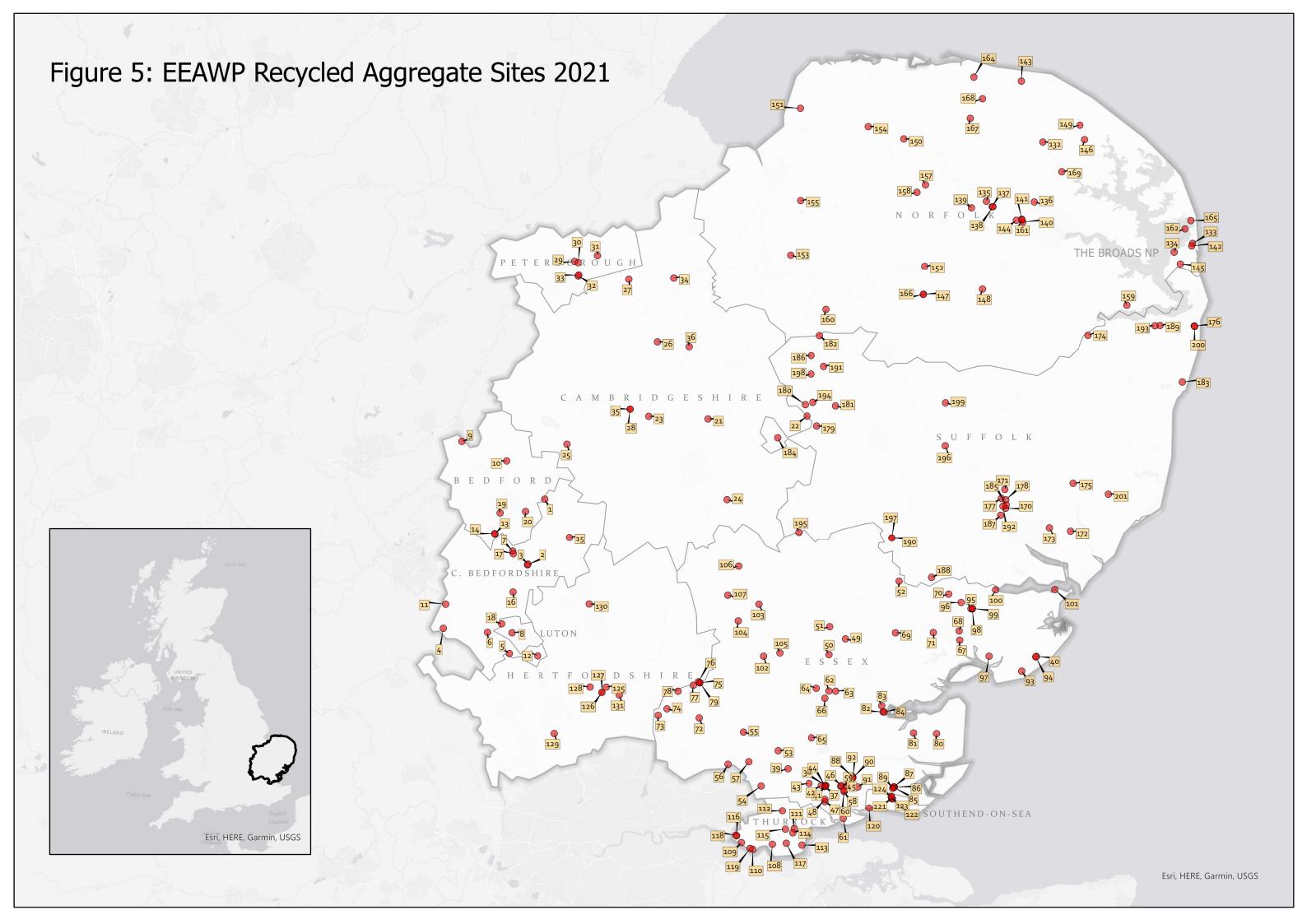
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	10 year average	3 year average	Calculation method	Comment
Hertfordshire ¹⁵	316.94	329.46	362.20	317.31	234.78	246.11	272.66	237.79	236.07	315.83	286.92	263.23	Different methods applied.	See footnote ¹⁶
Norfolk	128	145	192	319	365	323	291	281	227	315	259	274	WDI	See footnote ¹⁷
Suffolk						156	110.05		32.89	106.64	n/a	n/a	Survey	
Total Reported Recycled Aggregate Sales (thousand tonnes) Notes: C = Confidential figure	865.5	1,082.6	1,646.9	1,495.0	1,184.0	1,366.1	1,521.5	2,328.0	1,789.2	2,302.8	1,260.7	2,093.8		

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¹⁵ Secondary and recycled aggregate figures in Hertfordshire are combined.

¹⁶ Survey data used from 2017 – 2020. WDI used for 2021 data. 20% buffer added on top of WDI figure to account for material which is being reused and recycled directly on construction sites.

¹⁷ For recycled aggregates, data has been taken from the WDI for every year using the waste codes: 01 04 04, 01 04 09, 17 01 01, 17 01 02, 17 01 03, 17 01 07, 17 03 03, 17 05 08, 17 09 04. Facilities are located in Norfolk only; Waste arising from anywhere; Selected waste facility types to exclude landfill, storage, on/in land, use in reclamation (this mainly results in waste facilities types of transfer and treatment remaining); Where information on fate was available (2017-2021) quantities of waste with fates to landfill, incineration and transfer for disposal have been excluded. Before 2016, information on fates was not included. In 2019, data for mobile plant is included in the WDI. For all other years it appears that mobile plant data is not included.



National Data vs Survey Data

- 3.9 It is important to understand the data limitations associated with secondary and recycled aggregates. Most notably, the data within the WDI is collected from the returns from permitted facilities and records only waste received and waste exported from site. Secondary aggregates, where certain quality protocol specifications are met, are considered to be non-waste and are therefore not included within the waste tonnage returns. The data within the WDI does not account for mobile crushers or recycling and re-use that occurs on individual construction sites. Therefore, the tonnage of recycled aggregates reported in the WDI is likely to represent just a proportion of the recycled aggregates in circulation. As such, these figures are only estimates and should be treated with caution.
- 3.10 Latest figures available from the Mineral Products Association¹⁸ indicate that, in 2020, total recycled and secondary sources of aggregates accounted for 28% (61.8mt) of total aggregates supply in Great Britain. This is against a total of 158.6mt of primary aggregates comprising quarried crushed rock and both land-won and marine dredged sand and gravel.
- 3.11 The AMS 2019 also collected sales data on secondary aggregates (section 10 of the AMS 2019 refers). These principally included china clay waste and slate waste. In total, 2.4mt of such alternative aggregates were sold across England and Wales in 2019. The equivalent total in 2014 was 2.3mt.

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¹⁸ 'The Contribution of Recycled and Secondary Materials to Total Aggregates Supply in Great Britain – 2020 Estimates' by the Mineral Products Association.

4. TRENDS AND ANALYSIS

East of England

- 4.1 Sales of sand and gravel in the East of England during 2021 totalled 12.41mt compared with 10.46mt in 2020, thereby nearing the 12.67mt recorded in 2017 which remains the largest annual sales figure in any of the preceding ten years. Both the three and ten year averages over the periods 2019-2021 and 2012-2021 respectively returned a figure of 11.2mt which was also equivalent to the three year average recorded over the previous period of 2018-2020.
- 4.2 Permitted reserves of sand and gravel within the East of England at the end of 2021 stood at 119.606mt compared with 119.782mt at the end of 2020. It should be noted that the total sand and gravel permitted reserves figure reported in the 2020 Annual Monitoring Report for the end of 2020 was 117.202mt. However, since publication of the report, this figure has been revised upwards to 119.782mt to include sites in Suffolk which should have been included because they had permission but had not yet started extraction. This means that there has been a 0.15% decrease in permitted reserves between the end of 2021 and the end of 2020, based on the corrected 2020 figure of 119.782mt. The latest reserves figure continues to reflect a steady decline from the start of the decade when reserves stood at 147.792mt (2012).
- 4.3 The distribution of permitted sand and gravel reserves amongst the mineral planning authorities within the East of England is detailed in Appendix 2. Cambridgeshire and Peterborough on the one hand and Essex, Southend-on-Sea and Thurrock on the other demonstrated almost equivalent reserves with 33.865mt and 33.856mt respectively, representing the two largest proportions in the region with 28% each.
- 4.4 New planning permissions in the East of England were granted in respect of a total of 8.641mt of aggregate (sand and gravel) in 2021. As at the year end, the collective authorities had undetermined applications proposing a total of over 35mt of additional reserves. Of these, one in Hertfordshire for 3.52mt and one in Essex for 1.31mt have resolutions to approve, subject to a section 106 agreement.
- 4.5 Crushed rock within the East of England is produced within Cambridgeshire and Peterborough, Norfolk and, since 2019, Bedfordshire comprising, respectively limestone, Carstone and sandstone. As in previous annual monitoring reports, sales data for crushed rock have been combined for confidentiality reasons given the small number of operators. Sales of crushed rock during 2021 within the East of England totalled 0.207mt representing a 39% increase on 2020 sales (0.149mt) and nearing a level previously seen in 2018. The 2021 sales figure was substantially above the 3 year average of 0.153mt but remained well below the 10 year average of 0.320mt.
- In terms of landbanks, applying the NPPF methodology based on a rolling average of 10 year sales, the landbank for land-won sand and gravel within the East of England at the end of 2021 was 10.7 years, representing a small decrease from 2020 when it was 10.8 years. Using the 10 year average sales figure methodology as set out in the NPPF indicates that all mineral planning authorities within the East of England except Hertfordshire could demonstrate sand and gravel landbanks in excess of the seven year threshold as at the end of 2021 (see Table 5 above) although some authorities are drawing quite close to the 7 year minimum. Hertfordshire's sand and gravel landbank at the end of 2021 was just 5.5

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years. Note that, in a change from last year, Hertfordshire has, this year, opted to calculate its landbank based on the rolling 10 year sales average covering the period 2012-2021.

- 4.7 In terms of landbanks of crushed rock, based on the rolling average of 10 year sales, a landbank of 14.5 years can be demonstrated in 2021 compared with 15.4 years in 2020, representing the first reduction in the landbank for several years.
- Whilst the National and Sub-national Guidelines are now considered to be out of date, it is still worth noting that sales for both sand and gravel and crushed rock are below the levels of provision anticipated within the sub-national apportionment figures (12.41mt (actual 2021 sand and gravel sales) versus 14.75 mtpa (Guideline figure) and 0.21mt (actual 2021 crushed rock sales) versus 0.5 mtpa (Guideline figure)). It is also important to consider the context of continued sales against the backdrop of a general downward trend in reserves, particularly in sand and gravel reserves and, in particular, to bear in mind that between 2011 and 2020 only 76% of crushed rock permitted reserves were replenished (with the 10-year replenishment rate expected to reduce significantly in the next two years) and just 63% of sand and gravel reserves¹⁹, a position which is unsustainable in the long run and which must be considered to be of concern. Caution should, therefore, continue to be exercised when assessing the position against 10 year sales figures and individual mineral planning authorities are encouraged to give careful consideration to their annual aggregate provision rates when preparing their Local Aggregate Assessments and particularly when reviewing their development plans.
- 4.9 Finally, it should also be noted that the East of England is heavily dependent on imports of both sand and gravel and crushed rock, with the AMS 2019 recording that 2.3mt of sand and gravel and 8.8mt of crushed rock were imported in 2019.

Bedford Borough, Central Bedfordshire and Luton

- 4.10 Sales of aggregate sand and gravel for Bedford, Central Bedfordshire and Luton in 2021 stood at 1.48mt, a rise on the 2020 figure of 1.21mt, but less than the 2016-2018 figures which hovered around the 1.65mt mark. Nonetheless, the 2021 figure was higher than both the 10 year and 3 year sales averages of 1.43mt and 1.3mt respectively. The 10 year sales average itself represented a small increase on the previous year's average of 1.4mt (covering the period 2011-2020). It was noted in the last annual report that sales in 2019 and 2021 had dropped back to levels seen more towards the start of the decade (2011-2013) but that this was, possibly, unsurprising when viewed against the backdrop of the Covid 19 pandemic. It is, therefore, pleasing to note that sales do indeed appear to have recovered somewhat during 2021. Overall, the Bedfordshire authorities accounted for 11.9% of sand and gravel sales within the East of England in 2021.
- 4.11 Reserves of sand and gravel in the area at the end of 2021 amounted to 15.95mt compared with 17.27mt at the end of 2020. Whilst this figure is close to reflecting a straight deduction of sales during 2021 from the reserves recorded at the end of 2020 (17.27mt 1.48mt = 15.79mt), it should be noted that some survey returns referred to reassessments of reserves citing a recalculation of

¹⁹ Data taken from MPA press release dated 20 September 2022.

standoffs, silt deposition and the need to achieve suitable final face stability. No additional sand and gravel reserves were permitted at quarries within the Bedfordshire region in 2021.

- 4.12 Applying the methodology set out in the NPPF based on the rolling average of 10 year sales to the stated reserves, this indicates a landbank of 11.1 years for land-won sand and gravel compared with 12.4 years at the end of 2020, thus remaining comfortably in excess of the minimum 7 year supply referred to in the NPPF. As in previous reports, it is again highlighted that the reserves figure returned for 2014, produced as part of the national survey, appears dubious, although without access to the returns from previous surveys it is difficult to offer any detailed explanation as to this apparent anomaly.
- 4.13 For the third year running, some crushed rock in the form of sandstone has been reported emanating from a single site in Bedfordshire. For reasons of confidentiality, figures relating to this source of sandstone have been combined with those relating to sales of limestone in Cambridgeshire and Peterborough and Carstone in Norfolk. Commentary on these combined figures is set out within the Cambridgeshire and Peterborough section, below.

Cambridgeshire and Peterborough

- 4.14 Sand and gravel sales during 2021 in Cambridgeshire and Peterborough totalled 3.48mt representing a 23% increase compared with the sales figure of 2.82mt recorded in 2020 and amounting to the highest level of sales since 2017. The 2021 sales figure exceeded both the three year average (2019-2021) of 3.2mt and the ten year average for 2012-2021 of 2.8mt. This would appear to be an encouraging upturn post Covid. Sales in the area during 2021 accounted for 28% of sales within the East of England.
- 4.15 Reserves of aggregate sand and gravel in Cambridgeshire and Peterborough as at the end of 2021 stood at 33.9mt representing a decrease of 6% on the reserves figure of 36.1mt at the end of 2020 and a 28% decrease since the start of the decade when reserves stood at 47.1mt (2012). The 2021 figure, which is the lowest recorded over the ten year period 2012-2021, equates to approximately a 28% proportion of sand and gravel reserves within the East of England.
- 4.16 Additional reserves of 2.791mt of sand and gravel were permitted during the year pursuant to two separate applications pertaining to Willow Hall Farm Quarry. However, it is understood that, of these reserves, only 0.691mt has been included within the 2021 reserves figure as the remaining 2.1mt was not included within the relevant operator return. Several other operators appear to have reassessed the remaining mineral reserve during 2021, which resulted in approximately 0.8mt of additional reserve being identified from existing permitted reserves. A number of other permissions were also granted at other sites, mostly comprising variations of conditions or extensions of time, but none of these resulted in additional aggregate reserves.
- 4.17 Adopting the NPPF approach of applying the rolling average of ten year sales and based on the reserves figure of 33.865mt indicates a sand and gravel landbank for the area of 12.2 years (33,865/2,766), a significant drop from the 17.5 years recorded at the end of 2018, though still well above the minimum 7 year landbank required by the NPPF. In practice, Cambridgeshire and Peterborough usually adopts the policy rate included within its Minerals and Waste Local Plan (of 2.6mtpa) when calculating its sand and gravel landbank. The Plan explains at paragraph 3.19 that

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this figure 'represents the mid-point between the 10 year sales average and the 3 year sales average, and is also a 10% increase on the 10 year sales average (10% often being used as a proxy for a buffer above the 10 year sales average in other Minerals and Waste Local Plans).' Whilst this results in a slightly longer landbank of 13 years (33.865/2.6), it should be noted that the 10 year sales average referred to within the supporting text to the policy is stated to be 2.36mtpa whilst the 3 year average is stated to be 2.89mtpa. These averages are assumed to relate, respectively, to the 10 year period 2008-2017 and the 3 year period 2015-2017. Clearly, these figures are a little out of date, with the corresponding 10 and 3 year averages for periods ending in 2021 being 2.77mtpa and 3.17mtpa.

- 4.18 Cambridgeshire and Peterborough is also required to meet an apportionment for the production of crushed rock, namely limestone. As in previous years, sales data relating to crushed rock sales in the area has been combined with crushed rock (Carstone) sales in Norfolk for confidentiality reasons owing to the limited number of operators. From 2019 onwards, sales data have also been combined with sales of sandstone from one site in Bedfordshire.
- 4.19 The combined sales of crushed rock during 2021 totalled 0.207mt representing a 39% increase on 2020 sales (0.149mt) and nearing a level previously seen in 2018. The 2021 sales figure was substantially above the 3 year average of 0.153mt but remained well below the 10 year average of 0.320mt.
- 4.20 Reserves of crushed rock as at the end of 2021, again combined with reserves within Norfolk and Bedfordshire, stood at 4.63mt representing a 7% decrease from the reserves figure of 5.0mt recorded at the end of 2020 but still similar to reserves' figures recorded during the middle of the 2010s. In terms of landbanks of crushed rock, based on the rolling average of 10 year sales, a landbank of 14.5 years can be demonstrated in 2021 (4.63/0.32) compared with 15.4 years in 2020, representing the first reduction in the landbank for several years.

Essex, Southend-on-Sea and Thurrock

- 4.21 Sales of sand and gravel in 2021 for the Greater Essex area stood at 3.64mt, a 23% increase on the 3.0mt recorded in 2020, and more on a par with sales figures last seen in 2018. As a consequence, the 2021 sales figure is almost 0.5mt above the three year average (2019-2021) of 3.18mt and 0.3mt above the ten year average (2012-2021) of 3.3mt. Sales of sand and gravel within Greater Essex in 2021 accounted for 29% of those recorded within the East of England.
- 4.22 Sand and gravel reserves within Greater Essex as at the end of 2021 stood at 33.9mt, a small increase on the 33.6mt recorded at the end of 2020. From discussions with some operators within Greater Essex, as part of the annual aggregate survey, it is understood that the COVID recovery period in 2021 provided an opportunity for some operators to review their assets. In so doing, a number of 2021 data returns suggested a higher permitted reserves figure than had previously been expressed, within the limit of planning permissions already acquired. This has resulted in an uplift in the overall Greater Essex permitted reserves figure compared with 31 December 2020, despite the fact that no planning permissions were granted for additional sand gravel reserves within Greater Essex in 2021. The reserves figure of 33.9mt equates to 28% of reserves within the East of England.
- 4.23 Adopting the NPPF approach of applying the rolling average of ten year sales and based on the reserves figure of 33.856mt indicates a sand and gravel landbank for the area of 10.2 years

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(33.856/3.322) representing a small decrease in the landbank since the end of 2020 when it stood at 10.4 years. However, Greater Essex also calculates its landbank using the policy rate contained within the Essex Minerals Local Plan (adopted in 2014) and replicated within the Thurrock Core Strategy which was updated in 2015. This is stated to be 4.45mtpa (of which 4.31mtpa is to be provided by Essex and 0.14mtpa is to be provided by Thurrock). Based on this annual provision rate, the landbank drops considerably to 7.6 years (33.856/4.45) which is not far above the minimum 7 year landbank required by the NPPF.

4.24 Fortunately, although they are not included within the calculations relevant to this annual report which sets out the position as at the end of 2021, a number of planning applications for sand and gravel were pending as at the end of 2021 whilst another (for 1.31mt) had a resolution to grant subject to completion of a section 106 agreement. These will be reported on further in next year's annual report.

Hertfordshire

- 4.25 Sales of sand and gravel in Hertfordshire during 2021 totalled 1.15mt, marginally up on the 2020 sales figure of 1.12mt. As was the case with the 2020 sales figure, the 2021 sales figure is slightly down compared with both the 3 year (2019-2021) and 10 year (2012-2021) sales averages both of which are 1.17mt. Sales of sand and gravel in Hertfordshire during 2021 accounted for just over 9% of the total sales within the East of England, down from an 11% contribution in 2020.
- 4.26 Reserves of sand and gravel in Hertfordshire continued their steady decline from the start of the decade, standing at 6.47mt at the end of 2021 compared with 7.68mt at the end of 2020 and 15.8mt in 2012. As was the case at the end of 2020, this is the lowest figure recorded. However, it is due to be boosted following a resolution to approve an application for extraction of 3.52mt of sand and gravel on land adjoining Coopers Green Lane which remains subject to completion of a section 106 agreement. Hertfordshire's actual reserves at the end of 2021 accounted for just 5.4% of the total reserves within the East of England.
- 4.27 The landbank for sand and gravel in Hertfordshire at the end of 2021 stood at just 5.5 years when based on the 10 year sales average (6.471/1.174) compared with 6.48 years at the end of 2020. Note that, in a change from last year, Hertfordshire has, this year, opted to calculate its landbank based on the rolling 10 year sales average covering the period 2012-2021. This change has been carefully considered to take into account changes in reserves as well as changes in projected future demand based on PPG guidance which provides that 'Aggregate landbanks should be recalculated each year. The length of the aggregate landbank is the sum in tonnes of all permitted reserves for which valid planning permissions are extant, divided by the annual rate of future demand based on the latest annual Local Aggregate Assessment' (Paragraph: 083 Reference ID: 27-083-20140306). This figure, which will change each year in the LAA, will be called the 'LAA Rate', and Hertfordshire's landbank will change each year based on this changing rate. This is a different rate from the 'annual provision rate' which is the rate fixed in the emerging Minerals and Waste Local Plan (set at the 10 year sales average to the end of 2020 plus 10%). If the landbank were calculated each year simply using the rate fixed in the Plan, then it is considered that this would not be an accurate reflection of the landbank.

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- 4.28 Hertfordshire's landbank is evidently below the 7 year minimum landbank required by the NPPF. Hertfordshire continues to monitor its decreasing landbank and is seeking to address the shortfall in its supply of sand and gravel via a review of its Minerals Local Plan which is expected to conclude in early 2024.
- 4.29 Besides the Coopers Green Lane application referred to above, a second application remains in the pipeline for the creation of a new quarry on land at the former Hatfield aerodrome. If granted, this would add an additional reserve of 8mt of sand and gravel.

Norfolk

- 4.30 Sand and gravel sales in Norfolk in 2021 appeared, at 1.49mt, to be almost at pre-pandemic levels, just below the 1.51mt attained in 2018 compared with 1.28mt in 2019 and 1.31mt in 2020. The 2021 sales are higher than both the 3 year (2019-2021) and 10 year (2012-2021) sales averages which are 1.36mt and 1.40mt respectively. The 2021 sales in Norfolk accounted for 12% of those recorded within the East of England.
- 4.31 The level of sand and gravel reserves for Norfolk as at the end of 2021 stood at 19.96mt, a healthy boost on the 14.5mt recorded at the end of 2020 and amounting to the highest level of reserves recorded over the 10 year period from 2012. This figure equates to 16.7% of the total reserves within the East of England, a rise of 4% compared with the end of 2020 when Norfolk's contribution was 12%.
- 4.32 Norfolk's landbank for sand and gravel as at the end of 2021 based on a rolling average of 10 years' sales stood at 14.3 years (19,957/1,395), a healthy increase on the 10.6 years recorded at the end of 2020. Note that, in its emerging plan the Minerals and Waste Local Plan which is expected to be adopted towards the end of 2023 Norfolk is proposing an LAA rate comprising the rolling 10 year sales average plus 10%. For 2021, this figure amounts to 1.534mt (1.395 + 0.1395). On this basis, the landbank drops to 13 years.
- 4.33 The healthy increase in Norfolk's sand and gravel reserves in 2021 stems from the approval of three planning permissions during 2021 which resulted in a combined increase in sand and gravel reserves of 5.85mt. Each of these permissions related to the extension of existing sites at Horstead Quarry (0.65mt), Mayton Wood Quarry (1.45mt) and Stanninghall Quarry (3.75mt). A number of other applications relating to sand and gravel sites with the potential to release just under 2mt of reserves remained undetermined at the end of the year, though three of these have subsequently been withdrawn.
- 4.34 In addition to sand and gravel, Norfolk is also required to meet an apportionment for crushed rock, namely Carstone. As noted above, the figures pertaining to crushed rock have been collated with those relating to limestone within Cambridgeshire and Peterborough and, since 2019, with sandstone from Bedfordshire in order to avoid disclosure of confidential data. In Norfolk, the production of Carstone is concentrated into relatively few workings and production levels can vary significantly each year depending on individual construction projects.
- 4.35 Crushed rock reserves as at the end of 2021 stood at 4.6mt, again combined for the purposes of confidentiality. This figure represents a drop from the reserves figure of 5.0mt recorded at the end

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of 2020 but remains within the range of reserves recorded over the 10 year period since 2012 during which the highest reserve figure was 5.61mt and the lowest 4.3mt. Applying the rolling average of ten year sales produces a combined landbank of 14.5 years as at the end of 2021 (compared with 15.4 years as at the end of 2020). This increases substantially to 30.3 years when based on the three year sales average (4,631/153) compared with 31.9 years at the end of 2020. No new planning applications for Carstone extraction were received in 2021 and no new permissions were granted.

Suffolk

- 4.36 Sales of sand and gravel in Suffolk during 2021 were recorded as 1.171mt compared with 1.025mt in 2020 thus continuing a fairly consistent trajectory recorded over the past ten years during which time sales have generally hovered around the 1mt level. The three and ten year averages continue to reflect the consistent sales level with figures of 1.027mt and 1.080mt respectively.
- 4.37 Sales of sand and gravel in Suffolk during 2020 accounted for 9.4% of the total sold within the East of England thereby achieving a similar proportion of sales to those recorded in recent years (apart from a slight dip to 8% in 2019).
- 4.38 In terms of reserves of sand and gravel in the area, these were recorded as being 9.505mt at the end of 2021. Note that the last annual report recorded that Suffolk's landbank at the end of 2020 stood at 8.096mt. However, since publication of the report, this figure has been revised upwards to 10.676mt to include sites in Suffolk which should have been included because they had permission but had not yet started extraction.
- 4.39 The 2021 level of reserves translates to a landbank figure of 8.8 years using the NPPF methodology, an increase on last year's stated 7.6 year landbank which was evidently an underestimate given the understated level of reserves. Based on the revised 2020 reserves figure, the landbank at the end of 2020 was, in fact, 10 years (10.676/1.071). It is evident that the landbank is continuing to fall.
- 4.40 Whilst no planning permissions were granted for additional sand and gravel reserves during 2021, following publication of last year's annual report (which stated that no permissions were granted in 2020 either), it is understood that, in fact, one permission was granted on 17 December 2020 for an extension to an existing site releasing an additional 0.177mt of sand and gravel. A second application remained pending at the end of 2021 for an extension to an existing site which would release an additional 0.7mt of sand and gravel. This was, in fact, granted at the start of 2022 so will be included in next year's figures. Nonetheless, Suffolk will need to continue to be mindful of its decreasing landbank as it approaches the minimum threshold of 7 years set out in the NPPF. As within all mineral planning authority areas, particular development projects may or may not come forward; however particular attention should continue to be drawn to the proposals for Sizewell C nuclear power station in Suffolk. This is expected to start in 2023 and to take 12 years to complete though it is currently subject to challenge²⁰. It should be recognised that in the event of this project proceeding, it is likely to have a rapid and significant impact on the complexion of aggregate reserves.

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²⁰ Permission for a judicial review against Sizewell C, applied for by campaign group Together Against Sizewell C (TASC) was rejected by the High Court in its initial assessment in October 2022. TASC has applied for an oral hearing of the

Major Construction Projects or Developments

4.41 DLUHC requires the Annual Monitoring Reports to include information on 'major construction projects' within the East of England. 'Major construction projects' are considered to be those developments which are anticipated to have greater than local influence on aggregate demand. In order to provide some focus for the purposes of the AMR, major construction projects have been taken to be significant transport/infrastructure projects and residential/mixed residential schemes in excess of 200 units. Table 7 below identifies those construction projects that have been identified in the East of England as being of relevance in 2021.

case; this is expected over the coming weeks. Notwithstanding the judicial review, EDF Energy has indicated that it still expects the project to commence in the second half of 2023.

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Ref: DJA-2970-T1-P4

Table 7: Major Construction Projects in EEAWP area

Mineral Planning	Major Construction Project	Comments
Authority		
Bedford, Central Bedfordshire and Luton	 Central Bedfordshire: Chaul End Road, Caddington: Demolition of existing buildings and hard standing, residential development of up to 325 units and up to 500sq m of community space (with flexible uses across Use Classes A1 – A3, B1a and D2), with green infrastructure and two accesses. Chamberlains Barn, Heath Road, Leighton Buzzard: mixed development including up to 950 dwellings, a site for a lower school, a local centre comprising retail and community uses, informal open space and country park, incorporating allotments, orchards, new tree and shrub planting, and play areas, and a new halt for the Narrow Gauge Railway (NGR) (on-going). Clipstone Park East of Leighton Linslade: Mixed use urban extension including 1,210 dwellings, 70 units of assisted living for the elderly, Class B1, B2, B8 Employment, a neighbourhood centre comprising retail uses, a public house, multi-purpose hall, children's nursery and associated car parking. Houghton Regis, North (HRN) Site 1: up to 5,150 dwellings (Use Class C3); up to 202,500 sqm gross of additional development in Use Classes: A1, A2, A3 (retail), A4 (public house), A5 (take away); B1, B2, B8 (offices, industrial and storage and distribution); C1 (hotel), C2 (care home), D1 and D2 (community and leisure); car showroom; data centre; petrol filling station; car parking; primary substation; energy centre; and for the laying out of the buildings; routes and open spaces within the development; and all associated works and operations including but not limited to demolition, earthworks and engineering operations. Moreteyne Farm: mixed-use development on 14.5ha comprising of up to 125 new dwellings including affordable housing on 4.15ha, employment uses (Class B1 and B8) on 7.01ha, allotments, landscaping, balancing ponds and amenity space on 3.34ha. Bedford Borough: Land North of Bromham	

Mineral Planning Authority	Major Construction Project	Comments
	together with supporting infrastructure including roads, paths, cycleways, public transport and car parking facilities.	
	 Former RAF Cardington site: The development of 970 homes, a relief road, community facilities and area of public open space. 	
	The Wixams, South of Bedford: Residential-led mixed use scheme (on-going).	
	A428 Black Cat to Caxton Gibbet Road Improvement Scheme	The Development Consent Order is being challenged in the High Court. If the challenge fails, there would be two borrow pits within Bedford Borough and two borrow pits within Cambridge to supply aggregate for the project.
	<u>Luton Borough:</u>	
	Land to the west of Newlands Road, Luton = 392 dwellings;	
	Britannia Estates , Leagrave Road, Luton = 294 dwellings	
	Peterborough City Council:	
	Resurfacing of Orton Parkway	Commenced and completed 2021.
	A605 Stanground highway works	Design finished in 2019, construction started 2020; construction completed during 2021.
	A605 Alwalton highway works	Design finished in 2019, construction started 2020; construction completed during 2021.
Cambridgeshire and Peterborough	Kings Dyke Crossing scheme	Commenced July 2020; construction due for completion October 2022.

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Mineral Planning Authority	Major Construction Project	Comments
	Junction 3 Improvements	Highway improvement works and active travel schemes (future project 2023)
	Fengate Access Study	Package of highway and active travel schemes throughout Fengate (future project 2023)
	A16 Norwood Improvements	Highway improvement works along the A16 and A47 to facilitate planned growth at Norwood (future project 2024-25)
	University Access Study	Package of highway and active travel schemes throughout the Embankment and east of the City Centre (future project 2025-6)
	River Nene Pedestrian Bridge	New pedestrian bridge between Fletton Quays and the Embankment (future project 2025)
	Cambridge County Council:	
	Chisholm Trail	Commenced late 2018; construction in progress during 2021; completion expected during 2022.
	A428 Black Cat to Caxton Gibbet Road Improvement scheme (TR010044)	Pre-Submission 2020; DCO/NSIP Examination 2021/22; Construction likely to commence 2023.
	(EA) Cranbrook & Counter Drain Flood Risk Management Strategy	FUTURE PROJECT Initial Planning Phase Started 2022
	(AW) Fens Reservoir Project	FUTURE PROJECT Initial Planning Phase Started 2022
	Essex	
	M11 Junction 7a	Opened to traffic June 2022

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Mineral Planning	Major Construction Project	Comments
Authority		
	• M11 J8	Not Specified
	• M25, Junction 28	Construction to commence October 2022; open to traffic summer 2025 (preparation works for construction have commenced).
	Chelmsford Northeast Bypass	Permission granted – April 2022
		Open to traffic – 2025
	A120/A133 Link Road and Rapid Transit System	Permission granted – 2021
		Open to traffic - 2025
	Beaulieu Park Station	Outline Permission granted – 2013
		Open – late 2025
	• A12 Widening (19 – 25)	Construction to commence – 2023 – 2024 (DCO Application to the Planning Inspectorate Aug 2022)
		Open to traffic - 2027/28
Essex, Southend- on-Sea and	New A120 Braintree to the A12 route	Await RIS3 (2025 – 2030) to be published in 2024
Thurrock	• A127/A130 Fairglen Interchange – (short term)	Permission granted – December 2021
		Open to traffic – 2023/24
	A127 Improvement Package	Strategic business case in preparation for submission to Department for Transport

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Mineral Planning Authority	Major Construction Project	Comments
	Army and Navy Sustainable Transport Package	The Army and Navy Sustainable Transport Package is approved by ECC in March 2022. Based on the current programme, a planning application will be submitted in early 2023 and a final business case to the Department for Transport in Summer 2024, with construction scheduled to start in early 2025. Funding is being pursued from the Government's Major Road Network (MRN) and Large Local Majors programme with an outline business case being submitted in September 2022 to the MRN.
	Freeport East (Harwich Bathside Bay component)	Not Specified
	Bradwell B Nuclear Power Station	Paused January 2021
		Scheme recommencement - not defined
	Bramford to Twinstead Connection Project	DCO submission in early 2023.
		Construction to commence Autumn 2024
		Fully operational in 2028
		Not yet known if 'significant' aggregate would be required.
	North Falls Wind Farm	DCO submission - late 2023/4
		Fully operational by 2030
		Not yet known if 'significant' aggregate would be required.

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Mineral Planning Authority	Major Construction Project	Comments
	Five Estuaries Wind Farm	Statutory consultation in early 2023. DCO submission - 2023 Fully operational by 2030 Not yet known if 'significant' aggregate would be required.
	East Anglia Green Energy Enablement	April – June 2023 – Statutory consultation December 2024 – Development Consent Order Submission 2025 – 2026 – DCO Examination From 2031 – Operational Not yet known if 'significant' aggregate would be required.
	 A13 Widening (A128 – Orsett Cock to A1014, The Manorway, Stanford- le-Hope, Thurrock) London Gateway Port - Development of Employment areas (Thurrock) Tilbury 2 (Tilbury Port Expansion) (Thurrock) Purfleet Regeneration Scheme 	Opened May 2022 Ongoing, expected beyond 2023 Completed January 2021 Project includes demolition of existing buildings, site preparation, erection of up to 3,000 residential units, and mixed use development comprising retail, employment, leisure, community, school and civic uses, relocation of railway station and new highway access. Construction has started.

Mineral Planning Authority	Major Construction Project	Comments
	Lower Thames Crossing	Application expected to be submitted Autumn 2022 Open to traffic -2029/30
	Thames Freeport	Not Specified
	South of West Thurrock Way/West of Euclid Way	Expect completion 2022
	Southend-on-Sea:	
	A127 The Bell Junction Improvements (Southend-on-Sea)	Completed August 2021.
	SCATS London Road Town Centre Public Realm Improvements (Southend-on-Sea)	Under construction during 2021; completed March 2022.
Hertfordshire	 A120 Bypass and associated Flood Alleviation Scheme (July 2019 - Dec 2021) Updates to the A602 from Stevenage to Ware (June 2020 - Spring 2022) HS2 (September 2020 - estimated 2035/2040) 	
	Three Score Site, Land South of Clover Hill Road, Norwich - Phase one 755 dwellings, Phase Two 153 dwellings	Phase one began 26/08/2014, Phase two began 2020. End: Post 2026
	Barrack Street Development Site, Norwich - 218 dwellings	Start: 20/01/2020 End: 2023/24
	 St Annes Wharf, King Street, Norwich - 437 residential units, 2128 sq m of A1, A2, A3 and D2 uses and car parking 	Start: 01/04/2019 End: 2023/24
	 The Blackdale Building, Bluebell Road, Norwich - Student accommodation to provide the equivalent of 305 dwellings at 1 dwelling per 3 bedrooms. 514 beds in Phase 1, 401 in Phase 2. 	Start: 21/05/2015 End: 2025/26

Mineral Planning	Major Construction Project	Comments
Authority		
	St Crispins House, Duke Street, Norwich - 274 dwellings - Change of Use and conversion of an existing office building to student accommodation containing 686 student bed spaces and communal accommodation.	Start: 23/11/2020 End: 2022/23
	The Nar Ouse Regeneration Area (NORA), Wisbech Road, King's Lynn - 413 dwellings	ongoing
	Land South of Salhouse Road, Sprowston - up to 380 dwellings	18/11/2021 - 2025/26
	 Royal Norwich Golf Club, Drayton High Road, Hellesdon, Norwich - up to 1,000 homes and associated infrastructure including a primary school site and 1,900m2 for D1/D2 community use 	19/09/2018 - beyond 2027
	Land East of Holt Road, Horsford - 304 dwellings	29/03/2019 - 2024/25
	Land at St Faiths Road, Old Catton, Norwich - 328 dwellings	15/07/2019 - 2026/27
	White House Farm, Land at Blue Boar Lane, Sprowston, Norwich - up to 1233 dwellings including link road and primary school	31/05/2015 - 2025-26
	Land South of Salhouse Road, Sprowston - minimum 803 dwellings and site for new primary school.	14/03/2022 - beyond 2027
Norfolk	Land to the East of Broadland Way and to the North of the A4, Postwick, Norwich	Business park of up to 42,000 sqm of B1 and B8 uses, up to 4,500 sqm of A1, A2, A3 and A4 uses, and up to 7,500 sqm of C2, C3. 16 plots in total - 4 plots have been completed and 1 is under construction. Commenced 04/12/2020 - No end date
	 Greater Norwich Food Enterprise Zone, Red Barn Lane, Honingham, Norwich, 18.7 hectares in total. Mustard mill plant under construction. 	07/02/2019 - No end date
	Land West of Lodge Farm, Costessey - 495 dwellings and a primary school.	Delayed by 18 months as a result of nutrient neutrality advice. Apr-15 - 2025/26
	Land SW Of Newfound Farm, Cringleford - 650 dwellings	Apr-20 - After 2028

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Mineral Planning Authority	Major Construction Project	Comments
,		
	Land N of A11 & SW of Round House Way, Cringleford - 203 dwellings	Apr-20 - 2025/26
	2013/1494/O Land E of A11 and N/S of Round House Way, Cringleford, Norwich - 650 dwellings	Apr-20 - 2024/25
	• 2017/1104/D Land North of Hethersett village Phases A2, B1-B, B2 - 479 dwellings	Phase B- B2 (107 dwellings): Dec-19 - 2021/22, Phase A2 (181 dwellings): Apr-21 - 2026/27, Phase B2 (191 dwellings): Apr-21 - 2023/24
	2016/0853/D N of George Lane, Loddon 200 dwellings	Oct-16 - 2022/23
	 Land South Of Stoke Road, West Of The Street, and Land North of Shotesham Road, Poringland 458 dwellings and commercial units 	232 dwellings Aug-15 - 2021/22, 221 dwellings Dec 19 - 2027/28, 15 dwellings and commercial units Apr 21 - 2022/23
	Land NW Of Carpenters Farm, Wymondham 133 dwellings	Aug-19 - 2022/23
	Land N of the A11, Wymondham 424 dwellings	303 dwellings Apr-17 - 2022/23, 121 dwellings Apr 19 - 2022/23
	Wymondham Rugby Club And Land West Of Elm Farm, Norwich Common, Wymondham - 300 dwellings	Apr-21 - 2024/25
	Land between London Road And Suton Lane, Wymondham Phase 1 for 89 dwellings	Fewer than 200 units but part of a larger site 2014/2495 for 375 dwellings plus employment. Jan-20 - 2022/23
	Site 25, Beacon Park, Bradwell, Great Yarmouth, NR31 7RA - 231 dwellings	13/12/2018 - Beyond 2025
	Land East of Lowestoft Road, Lowestoft Road, Hopton, GREAT YARMOUTH, NR31 9BD - 200 dwellings	23/07/2021 - Beyond 2025
	Great Yarmouth Third River Crossing	Jan 2021 - early 2023

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Mineral Planning	Major Construction Project	Comments
Authority		
	Wheatcroft Farm, Land at South Bradwell, Great Yarmouth - 850 dwellings	359 units remaining - Phase 1 complete, Phase 2,3,4 under construction, Phase 5 - Reserved matters granted. 31/03/2022 01/10/2014 - Beyond 2025
	Land at Haverscroft House Farm, London Road, Attleborough - 200 dwellings	Under construction: Estimated end date unknown
	Land at London Road, Attleborough - 375 dwellings & Employment Development	Under construction: Estimated End date unknown
	Land at Greenfields Road, Dereham - 279 dwellings	Under construction: Estimated End date unknown
	Land North of Red House Norwich Road, Thetford, Croxton & Kilverstone - 343 dwellings	Comprehensive mixed use urban extension. Under construction: Estimated End date unknown
	Sizewell C	Approved July 2022 but subject to challenge. Expected to start 2023 and to take 12 years to complete.
	Gull Wing Bridge	Under construction with completion expected 2023.
Suffolk	Scottish offshore windfarm	Phase EA1 built; EA3 recently commenced with completion planned for 2026; EA1N consented in March 2022, currently subject to judicial review, completion planned for 2026; EA2 consented in March 2022, currently subject to judicial review, completion planned for 2026
	Ipswich Garden Suburb	Comprises 3 developments; one has commenced, two are due to commence shortly. Total housing being delivered is 3,654 of which at least 3,295 to be delivered by 2036.
	Progress Power	Construction recently commenced; aiming for completion by October 2024.

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East of England Aggregates Working Party

Development Plans and Mineral Policies in the EEAWP Area

4.42 Table 8 below shows details of relevant minerals plans within the East of England AWP area. Table 8b shows the total volume of aggregates allocated within plans together with estimated quantities of minerals which have been permitted to date from those allocations.

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Table 8: Mineral Plan Status within the EEAWP Area

Mineral Planning Authority	Mineral Plan / Development Plan Document	Document URL	Draft Plan Publication (Reg 18)	Published (Reg 19)	Submitted	Adopted	Comment on status
Bedford, Central Bedfordshire and Luton	Minerals and Waste Local Plan: Strategic Sites and Policies LDD	Development framework Central Bedfordshire Council			Aug-12	Jan-14	
	Minerals and Waste Core Strategy					Jul-11	Superseded by C&PMWLP
	Minerals and Waste Site Specific Proposals Plan (DPD)					Feb-12	Superseded by C&PMWLP
Cambridgeshire and	The Location and Design of Waste Management Facilities (SPD)					Jul-11	Subsequently incorporated as Appendix 3 of the C&PMWLP
Peterborough	Block Fen / Langwood Fen Master Plan (SPD)					Jul-11	Subsequently incorporated as Appendix 2 of the C&PMWLP

Mineral Planning Authority	Mineral Plan / Development Plan Document	Document URL	Draft Plan Publication (Reg 18)	Published (Reg 19)	Submitted	Adopted	Comment on status
	RECAP Waste Management Design Guide (SPD)	https://www.cambridgeshire.gov.uk/business/planning- and-development/planning-policy/recap-waste- management-design-guide				Feb-12	
	Minerals and Waste Local Plan	https://www.cambridgeshire.gov.uk/business/planning- and-development/planning-policy/adopted-minerals- and-waste-plan			Mar-20	Jul-21	
	Essex Minerals Local Plan	https://www.essex.gov.uk/minerals-waste-planning- policy/minerals-local-plan				Jul-14	
	Essex Minerals Plan Review	https://www.essex.gov.uk/background-and-current- progress-with-the-minerals-local-plan-review	Feb/Mar 2022 inc call for sites	tbc	tbc	tbc	
Essex, Southend- on-Sea and Thurrock	Thurrock Core Strategy	https://www.thurrock.gov.uk/core-strategy-local- plan/about-core-strategy				Dec-11 and Jan-15	
	Thurrock Minerals and Waste Local Plan	https://www.thurrock.gov.uk/core-strategy-local- plan/minerals-and-waste	tbc	tbc	tbc	tbc	
	Southend New Local Plan	https://www.southend.gov.uk/planning- building/southend-new-local-plan	Apr-19	tbc	tbc	tbc	
Hertfordshire	Hertfordshire Minerals Local	https://www.hertfordshire.gov.uk/services/recycling- waste-and-environment/planning-in-				Mar-07	

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Mineral Planning Authority	Mineral Plan / Development Plan Document	Document URL	Draft Plan Publication (Reg 18)	Published (Reg 19)	Submitted	Adopted	Comment on status
	Plan Review 2002-2016	hertfordshire/minerals-and-waste-planning/minerals- planning/minerals-planning.aspx					
	Minerals and Waste Local Plan	https://www.hertfordshire.gov.uk/services/recycling- waste-and-environment/planning-in- hertfordshire/minerals-and-waste-planning/local- plan.aspx	June/July 2022	March/April 2023	Expected July 23	Expected Feb 2024	
	Core Strategy and Development Management Policies 2010- 2026 DPD	https://www.norfolk.gov.uk/- /media/norfolk/downloads/what-we-do-and-how-we- work/policy-performance-and-partnerships/policies- and-strategies/minerals-and-waste-planning/core- strategy-and-minerals-and-waste-development- management-policies-development-20102026.pdf				Sep-11	To be replaced by new Minerals and Waste Local Plan
Norfolk	Minerals Site Specific Allocations DPD	https://www.norfolk.gov.uk/- /media/norfolk/downloads/what-we-do-and-how-we- work/policy-performance-and-partnerships/policies- and-strategies/minerals-and-waste-planning/minerals- site-specific-allocations-development-plan- document.pdf				Oct-13 and revised Dec-17	To be replaced by new Minerals and Waste Local Plan
	Waste Site Specific Allocations DPD	https://www.norfolk.gov.uk/- /media/norfolk/downloads/what-we-do-and-how-we- work/policy-performance-and-partnerships/policies- and-strategies/minerals-and-waste-planning/waste-				Oct-13	To be replaced by new Minerals and Waste Local Plan

Mineral Planning Authority	Mineral Plan / Development Plan Document	Document URL	Draft Plan Publication (Reg 18)	Published (Reg 19)	Submitted	Adopted	Comment on status
		site-specific-allocations-development-plan- document.pdf					
	Minerals and Waste Local Plan Review	https://www.norfolk.gov.uk/- /media/norfolk/downloads/what-we-do-and-how-we- work/policy-performance-and-partnerships/policies- and-strategies/minerals-and-waste-planning/norfolk- minerals-and-waste-local-plan-publication.pdf	Aug-18	Sep-22			Adoption expected end 2023
Suffolk	Suffolk Minerals and Waste Local Plan	https://www.suffolk.gov.uk/planning-waste-and- environment/minerals-and-waste-policy/suffolk- minerals-and-waste-development-scheme/				Jul-20	

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Table 8b: Estimated quantity of minerals allocated in development plan

Mineral Planning Authority	Mineral Plan / DPD	Total allocated sand and gravel	Quantity from sand and gravel allocation permitted to date	Total allocated crushed rock	Quantity from crushed rock allocation permitted to date
Bedford, Central Bedfordshire and Luton	Minerals and Waste Local Plan: Strategic Sites and Policies LDD	10.07mt	5.74mt	nil	nil
Cambridgeshire and Peterborough	Minerals and Waste Local Plan	17.623mt	2.1mt	nil	nil
Essex, Southend-on- Sea and Thurrock	Essex Minerals Local Plan	40.824mt	33.614mt	nil	nil
Hertfordshire	Hertfordshire Minerals Local Plan Review 2002-2016	18.5mt	14mt remaining ²¹	nil	nil
Norfolk	Minerals Site Specific Allocations DPD	24.686mt	11.84mt	1.42mt	nil
Suffolk	Suffolk Minerals and Waste Local Plan	9.3mt	0.877mt	nil	nil

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²¹ NB 7.1mt was permitted from an allocated site identified with a potential yield of 4.5mt so remaining potential yield from allocations is shown here.

Planning Applications in the EEAWP Area

4.45 Table 9 below gives details of planning applications current within the EEAWP area during 2021, together with estimates of tonnages likely to be generated by the sites permitted.

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Table 9: Planning Applications

Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
Bedford, Central Bedfordshire and Luton	Land south of Bedford Road, Cople	509779 248996	G Moore	RA	Aggregate forming materials & soils	16.10.2017	21.05.2021	Permitted	75,000t (permitted operational capacity)	20.05.2024
	Lyons Farm, Cambs	542600 290700	Mick George Ltd	VC, ET	Sand & Gravel	09.06.2021	09.06.2021	Permitted	Nil	31.09.2021
	Barrington Cement Plant, Haslingfield Road, Barrington, Cambs	539725 250613	CEMEX UK Operations Ltd	VC	Chalk	16.12.2020	24.02.2021	Permitted	Nil	31.12.2021
	Brickyard Farm, Cow Lane, Godmanchester, Cambs	525959 270726	Mick George Limited	VC,ET	N/A	02.10.2020	05.03.2021	Permitted	Nil	06.12.2025
Cambridgeshire and	Plantation Quarry, Steeple Morde, Cambs	529839 240226	Omya UK Ltd	VC,ET	Chalk	28.11.2019	18.01.2021	Permitted	Nil	21.02.2042
Peterborough	Marsh Lane, Cambs	529717 269388	Land Logical	С	SG	07.03.2019	01.02.2021	Permitted	Nil	n/a
	Willow Hall Farm, Haddenham, Cambs	525532 301929	Dennis (Haddenham) Ltd	N	SG	02.03.2018	02.08.2021	Permitted	0.691mt	Commencement +5 years
	Willow Hall Farm, Peterborough	525649 302116	P J Thory Limited	E	SG	16.04.2021	23.12.2021	Permitted	2.1mt	Commencement + 15 Years
	Fengate Waste Treatment Facility, Fengate, Peterborough	520796 298540	Mick George Ltd	E	RA	22.03.2021	21.06.2021	Permitted	n/a	n/a
	Orsett Quarry & Walton Hall Farm, Linford 19/01709/FUL	567700, 180700	Ingrebourne Valley Ltd	E	Sand & Gravel	01.11.2019	Pending as at 31.12.21	Not yet determined	(1.5mt)	
	Lufkins Farm, Frating ESS/101/21/TEN	609724 221921	Messrs S and G Poole & Wright and Mrs A Watts	N	Sand & Gravel	19.11.2021	Pending as at 31.12.21	Not yet determined	(1.068mt)	

Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
	Colemans Farm Quarry	583327 215613	Brice Aggregates	Е	Sand & Gravel	01.04.2021	Pending as at 31.12.21	Not yet determined	(0.27mt)	2 years from date of commencement if approved
	Bradwell Quarry, Bradwell ESS/12/20/BTE	582814 220828	Blackwater Aggregates	E	Sand & Gravel	31.01.2020	Pending as at 31.12.21	Granted 22.06.22	(6.5mt)	
	Land south of A1060, Chalk End, Roxwell ESS/77/20/CHL	563032 209943	HR Philpot & Son	N	Sand & Gravel	11.06.2020	Pending as at 31.12.21	Granted 01.03.2022	(0.19mt)	To be commenced within 3 years with development not lasting more than 8 years after commencement
Essex, Southend on Sea and Thurrock	Land at Martells Quarry, Slough Lane, Ardleigh ESS/29/20/TEN	604898 227986	SRC Ltd	E	Sand & Gravel and Silica Sand	26.02.2020	Pending as at 31.12.21	Resolution to grant subject to a section 106 agreement	(1.31mt)	Operations and supporting infrastructure to be removed by 30.09.41
	Colchester Quarry	595200, 222400	Enovert South Ltd	Е	London Clay	22.03.2021	17.05.21	Granted	[0.06]	31.03.2023
	Inworth Grange Farm Pit, Grange Road, TIPTREE, CO5 0QQ	588249, 216020	Aggregate Industries	N		05.12.2017	28.05.2021	Granted	0	
	Land at St Cleres Hall Pit, Main Road, Danbury, CM3 4AS	576355, 205866	Danbury Aggregates	ET		10.07.2019	16.08.2021	Granted	0	
	Widdington Pit, Hollow Road, Widdington, CB11 3SL	552954, 231093	Widdington Recycling Ltd	Installation of water pipe		27.09.2019	14.05.2021	Granted	0	
	Land at Colemans Farm Quarry, Little Braxted Lane, Witham, Essex, CM8 3EX	583327, 215613	Brice Aggregates Limited	Е		29.01.2020	04.06.2021	Granted	0	

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Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
	Highwood Quarry, Stortford Road, Great Dunmow, Essex, CM6 1SL	559800, 222400	Sewells Reservoir Construction Limited	VC		17.02.2020	15.03.2021	Granted	0	
	Cobbs Farm, Maldon Road, Goldhanger, Maldon, CM9 8BQ	589300, 208500	Sewells Reservoir Construction Limited	ET	Sand & Gravel	29.05.2020	28.01.2021	Granted	0	
	Wivenhoe Quarry, Alresford Road, Wivenhoe, Essex, CO7 9JU	604754, 222688	Tarmac	ET		29.06.2020	19.03.2021	Granted	0	
	Land at Martells Quarry, Slough Lane, Ardleigh, CO7 7RU	605027, 228324	Sewells Reservoir Construction Limited	vc		04.02.2021	12.04.2021	Granted	0	
	Land at Hatfield Aerodrome	519837 08389	Brett Aggregates	N	Sand & Gravel	Appeal submitted on 30.06.2021	Pending as at 31.12.21	Appeal refused in January 2022	(8mt)	
Hertfordshire	Land adjoining Coopers Green Lane	518875 208516	Cemex UK Operations Ltd	E	Sand & Gravel	Presented to committee on 22.10.20	Pending - s106	Resolution to approve subject to a s106 agreement 22.10.20	(3.52mt)	
	Land at Hatfield Aerodrome	519837 08389	Brett Aggregates	N	Sand & Gravel	03.09.21	Pending as at 31.12.21	Not yet determined	(8mt)	
	FUL/2020/0045 Horstead Quarry	625354, 320180	Longwater Gravel Company Ltd	E	S&G	29.09.2020	13.05.2021	Approved	0.65mt	(15 years after commencement)
	FUL/2020/0046 Horstead Quarry	625354, 320181	Longwater Gravel Company Ltd	ET of VC	S&G	28.09.2020	13.05.2021	Approved	N/A	(15 years after commencement of permission 0045)
	FUL/2019/0043 Mayton Wood Quarry	624267, 321044	Frimstone	Е	S&G	02.01.2020	18.06.2021	Approved	1.45mt	31.12.2035

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Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
Norfolk	FUL/2020/0085 Stanninghall Quarry	625655, 318065	Tarmac Limited	E	S&G	23.11.2020	05.08.2021	Approved	3.75mt	31.12.2038
	FUL/2020/0107 Pentney Quarry	569204, 312531	Middleton Aggregates Ltd	E	S&G	08.01.2021	N/A	undetermined	(0.24mt)	N/A
	FUL/2021/0007 Oak Field, Watlington Road, Tottenhill	563522, 311539	Mick George Ltd	E	Sand and gravel, clay	11.06.2021	N/A	undetermined	(0.75mt)	N/A
	C/5/2018/5004 Attlebridge Quarry	614621, 316718	Breedon Southern Limited (BSL)	N	S&G	01.08.2018	(22.03.2022) - Withdrawn	undetermined	(0.545mt)	N/A
	FUL/2019/0040 Welcome Pit, Burgh Castle	648561, 304338	Folkes Plant	E	S&G	06.09.2019	N/A	undetermined	(0.2mt)	N/A
	FUL/2020/0044 Land at Mill Drove, Blackborough End	567065, 314800	NB Construction UK Limited	CoU	C, D & E waste	20.07.2020	05.08.2021	Refused	Not specified	N/A
	FUL/2020/0064 Gamble Plant (Norfolk) Ltd, Salhouse Road, Rackheath	627913, 311960	Gamble Plant (Norfolk) Ltd	CoU	C,D & E waste	14.08.2021	05.11.2021	Refused	(75,000 tpa)	N/A
	FUL/2020/0062 Heron Farm, Bunwell Road, Besthorpe	608398, 295266	Newall Plant Ltd	CoU	C,D & E waste	21.10.2020	12.11.2021	Refused	(60,000 tpa)	N/A
	FUL/2020/0090 East Coast Waste Ltd, Land to the west of A47, Harfrey's Industrial Estate, Great Yarmouth	651943, 305559	East Coast Waste Limited	E	C,D & E waste	14.12.2020	12.07.2021	Approved	0.075mt	Permanent
	FUL/2020/0078 Mangreen Quarry, Ipswich Road, Norwich	622037, 303167	Tarmac Trading Limited	CoU	C,D & E waste	20.11.2020	20.10.2021	Approved	0.1mt	02.10.2023

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Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
	FUL/2020/0043 Anglian Business Centre, West Carr Road, Attleborough	603225, 294906	Anglian Demolition & Asbestos Ltd	CoU	C, D & E waste	14.08.2020	N/A	Undetermined	(0.075mt)	N/A
	FUL/2021/0052 Bittering Quarry, Reed Lane, Bittering, Dereham	593380, 317122	Raymond McLeod (Farms) Ltd	N	CD&E waste	28.09.2021	(permitted 16.02.2022)	Undetermined	(0.07mt)	31.12.2031
	FUL/2021/0050 Kirby Cane Quarry,Leet Hill, Yarmouth Road, Kirby Cane, Norfolk NR35 2HJ	638079, 292910	LP Pallett Quarry Ltd	N	CD&E waste	14.12.2021	(Refused, 02.02.2022)	Undetermined	(0.05mt)	31.12.2025
	FUL/2021/0010 Welcome Pit, Butt Lane, Burgh Castle, Great Yarmouth	648219, 304286	Folkes Plant & Aggregate Ltd	ET	S	31.08.2021	N/A	Undetermined	(0.0015mt)	N/A
	FUL/2020/0050 Land off B1108 Norwich Road, Carbrooke	595279, 300806	Skillplane Ltd	N	S&G	04.01.2021	(02.02.2022) Withdrawn	undetermined	(0.01mtpa)	N/A
	FUL/2020/0109 Pentney Quarry, Pentney, King's Lynn, Norfolk	568372, 313115	Middleton Aggregates Ltd	ET of VC	S&G	26.01.2021	(permitted 31.05.2022)	undetermined	N/A	N/A
	FUL/2020/0108 Pentney Quarry, Pentney, King's Lynn, Norfolk	569437, 312609	Middleton Aggregates Ltd	ET of VC	S&G	08.01.2021	(permitted 31.05.2022)	undetermined	N/A	N/A
	FUL/2020/0080 Spixworth Quarry, Church Lane, Spixworth, Norwich, NR10 3PR	623615, 315966	Tarmac Trading Limited	ET of VC	S&G	26.10.2020	N/A	undetermined	N/A	N/A

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Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
	FUL/2020/0079 Spixworth Quarry, Church Lane, Spixworth, Norwich, NR10 3PR	623618, 315965	Tarmac Trading Limited	ET of VC	S&G	26.10.2020	N/A	undetermined	N/A	N/A
	FUL/2020/0063 Horstead Quarry, Buxton Road, Horstead NR12 7NX	624978, 320307	Longwater Gravel Company Ltd	ET of VC	S&G	13.10.2020	13.05.2021	Approved	N/A	31.12.2023 (Haul Road - within 15 years of the date of commencement of development permitted under reference FUL/2020/0045)
	FUL/2019/0039 Welcome Pit, Butt Lane, Burgh Castle, Great Yarmouth, Norfolk NR31 9PY	648115, 304280	Folkes Plant	VC	S	06.09.2019	20.09.2021	Withdrawn	N/A	N/A
	FUL/2021/0021 Marsh Road, Walpole St Andrew, PE14 7JN	548944, 317505	M & M Services	Е	RA	03.12.2021	(refused 15.06.2022)	Undetermined	N/A	N/A
	FUL/2021/0005 Bittering Quarry (Longham Site), Reed Lane, Bittering, Dereham, Norfolk NR19 2QS	593264, 317055	McLeod Aggregates Ltd	ET	RA	23.02.2021	17.05.2021	Approved	N/A	31.12.2022
	FUL/2021/0014 Park Farm, Wormegay, Kings Lynn, Norfolk, PE33 OSH	567883, 312811	Middleton Aggregates Ltd	vc	S&G	20.04.2021	(withdrawn 24.05.2022)	undetermined	(0.25mt)	N/A
	Cavenham Quarry	574789, 271383	Allen Newport	E	S&G	27.08.2020	17.12.2020	Approved	(0.177mt)	December 2026 extraction; December 2053 restoration
Suffolk	Cavenham Quarry	574789, 271383	Allen Newport	E	S&G	16.12.2021	N/A	Pending	(2.2mt)	2046
	Barham Quarry	612116, 251410	Brett Aggregates	E	S&G	11.02.2021	(permitted 14.01.2022)	Pending	(0.7mt)	Dec-34

Mineral Planning Authority	Site Name	Grid Reference	Operator / Applicant	Type of Application	Mineral	Date Submitted	Decision date	Decision / Status (as at 31 December 2021)	Tonnage	Planning permission end date
	Barnham Quarry	584122, 279248	Mick George	E	S&G	20.10.2020	N/A	Pending	(0.4mt)	2027

Notes:

Type: N – New; E – Extension; ET – extension of time; G – Greenfield; B – Borrow Pit; R – Renewal; C – Conditions pursuant; C of E – Certificate of Lawfulness; C o U – Change of Use; PD – Permitted Development; WP – Installation of water pipe; VC – Variation of Condition. MINERAL: S/G Sand and Gravel; G Gravel; S Sand; B/S Building Sand; L Limestone; C/R Crushed Rock; SA Secondary Aggregates. C = confidential figure.

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Local Aggregate Assessments

- 4.46 With the publication of the NPPF and MASS Guidance in 2012²², DCLG (as it was then) introduced the requirement for mineral planning authorities, either individually or with other mineral planning authorities, to produce an annual local aggregates assessment. The Planning Practice Guidance now provides that the LAA should contain three elements:
 - a forecast of the demand for aggregates based on both the rolling average of 10-years' sales data and other relevant local information;
 - an analysis of all aggregate supply options, as indicated by landbanks, mineral plan allocations and capacity data e.g. marine licences for marine aggregate extraction, recycled aggregates and the potential throughputs from wharves. This analysis should be informed by planning information, the aggregate industry and other bodies such as local enterprise partnerships; and
 - an assessment of the balance between demand and supply, and the economic and environmental
 opportunities and constraints that might influence the situation. It should conclude if there is a
 shortage or a surplus of supply and, if the former, how this is being addressed.
- 4.47 LAAs must also consider other relevant local information in addition to the 10-year rolling supply, which seeks to look ahead at possible future demand, rather than rely solely on past sales. Such information may include, for example, levels of planned construction and housebuilding in their area and throughout the country. Mineral planning authorities should also look at average sales over the last three years in particular to identify the general trend of demand as part of the consideration of whether it might be appropriate to increase supply. This baseline assessment, together with an assessment of all supply options (including marine dredged, secondary and recycled sources), should help mineral planning authorities plan for a steady and adequate supply of aggregates.
- 4.48 In respect of the 10-year period covering the years 2012-2021, two draft LAAs have been submitted to EEAWP for consideration (by Hertfordshire and Cambridgeshire / Peterborough) and comments on these have been invited from EEAWP members.
- 4.49 Table 10 summarises the position in respect of the region's LAAs covering the period 2012-2021 and shows the calculation method for the LAA rate (or 'LAA figure') for each of crushed rock and sand and gravel. Note that whilst the NPPF and PPG do not specifically use the term 'LAA rate', it is a term which is widely used in LAAs to describe the forecasted annual rate of future demand. Equivalent terminology may also describe this as the 'annual provision rate' or 'aggregate provision rate'. The PPG provides that: 'Aggregate landbanks should be recalculated each year. The length of the aggregate landbank is the sum in tonnes of all permitted reserves for which valid planning permissions are extant, divided by the annual rate of future demand based on the latest annual Local Aggregate Assessment.'

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²² Note that the MASS Guidance was withdrawn in March 2014 and replaced by the Planning Practice Guidance.

Table 10: Local Aggregate Assessments

Mineral Planning Authority	LAA Figure for Sand and Gravel	LAA Figure for Crushed Rock	Calculation Method
Bedford, Central Bedfordshire and Luton	1.432mtpa	С	10 year sales average
Cambridgeshire and Peterborough	2.6mtpa	С	MLP policy rates
Essex, Southend-on- Sea and Thurrock	4.45mtpa	n/a	MLP policy rates
Hertfordshire	1.17mtpa	n/a	10 year sales average
Norfolk	1.534mtpa	С	10 year sales average plus 10%
Suffolk	1.080mtpa	n/a	10 year sales average

Summary

- 4.50 Sales for both sand and gravel and crushed rock are below the levels of provision anticipated within the sub-national apportionment figures (12.41mt (actual 2021 sand and gravel sales) versus 14.75 mtpa (Guideline figure) and 0.21mt (actual 2021 crushed rock sales) versus 0.5 mtpa (Guideline figure)). It is also important to consider the context of continued sales against the backdrop of a general downward trend in reserves, particularly in sand and gravel reserves and, in particular, to bear in mind that between 2011 and 2020 only 76% of crushed rock permitted reserves were replenished (with the 10-year replenishment rate expected to reduce significantly in the next two years) and just 63% of sand and gravel reserves²³, a position which is unsustainable in the long run and which must be considered to be of concern. Caution should, therefore, continue to be exercised when assessing the position against 10 year sales figures and individual mineral planning authorities are encouraged to give careful consideration to their annual aggregate provision rates when preparing their local aggregate assessments and particularly when reviewing their development plans.
- 4.51 It should also be noted that the East of England is heavily dependent on imports of both sand and gravel and crushed rock, with the AMS 2019 recording that 2.3mt of sand and gravel and 8.8mt of crushed rock were imported in 2019.

²³ Data taken from MPA press release dated 20 September 2022.

5. **CONCLUSIONS**

- 5.1 One of the roles of the Aggregate Working Party, as set out in the PPG, is to "provide an assessment on the position of overall demand and supply for the Aggregate Working Party area, including whether, in its view, the area is making a full contribution towards meeting both national and local aggregate needs" (PPG ID: 27-073-2014-0306). The AWP does this through the preparation of a regional annual monitoring report (this document).
- 5.2 Historically, the National and Sub-National Guidelines allocated apportionments to each region to ensure that adequate aggregate supply was being provided, and the AWPs were then able to measure their aggregate supply contribution against the apportioned figures in the guidelines. However, the guidelines are now out of date. In the absence of these guidelines, beyond establishing whether the necessary landbank exists as required by the NPPF, it is difficult, particularly at a national level, to assess whether a full contribution is being met to aggregate supply, or to ensure that mechanisms are in place to ensure that additional provision is being made in a timely manner and in the right locations.
- 5.3 From the data available in the East of England, it can be established that there are a number of large-scale schemes in the pipeline that will require significant quantities of aggregates. However, it is not currently possible to establish the likely total demand for minerals required for these large scale projects, either from a lack of estimate of demand from those within the region, or in the absence of a comprehensive list of projects outside the region.
- Accordingly, in the absence of up to date guidelines and without clear visibility on future demand, the East of England Aggregates Working Party considers that it is presently unable to advise the National Aggregate Coordinating Group and DLUHC that the authorities comprising the East of England are currently able to make a full contribution to both local and national aggregate needs.

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Appendix 1: Table showing EEAWP meeting dates in 2021, link to minutes and summary of matters discussed

Meeting date	Matters discussed	Link to minutes
4 February 2021	EEAWP had submitted a response to the Planning White Paper;	https://davidjarvis.biz/east-of- england-awp/
	Update on AMS2019 and survey returns;	
	Proposed amendments to the NPPF;	
	Potential designation of Cotswold Water Park as SSSI;	
	Delay to Environment Bill;	
	AWP secretariat contract – Central Bedfordshire Council has decided not to tender;	
	Potential nominations for EEAWP chair;	
	Survey forms had been distributed to operators for 2020;	
	EEAWP Terms of Reference;	
	Updates from MPA and BAA;	
	Mineral Local Plan Updates.	
22 June 2021	Retention of Richard Greaves as chair who is content to stay in post for the next 4 years;	https://davidjarvis.biz/east-of- england-awp/
	A presentation by the RSPB Communications Manager regarding the Oxford-Cambridge Arc;	
	AMS2019 (final data subsequently published by the BGS in July);	
	Receipt of various collation forms;	
	MHCLG proposal to use standard template for annual monitoring report;	

Meeting date	Matters discussed	Link to minutes
	Proposed national terms of reference;	
	Updates from MPA and BAA;	
	Minerals Local Plan updates.	
12 October 2021	DJA webpage;	https://davidjarvis.biz/east-of-
	Renaming of MHCLG to DLUHC and change of personnel;	england-awp/
	Proposed update to National Guidelines and query on sub- national apportionment;	
	Comments submitted on draft National Terms of Reference;	
	Progress on annual report for 2019 and 2020 and LAAs;	
	Query on how to assess quantities of recycled aggregates;	
	Update from final BGS meeting regarding AMS2019;	
	Discussion as to how to deal with data differing between AMS 2019 and that which has been locally obtained;	
	Consideration of draft LAAs;	
	Updates from MPA and BAA;	
	Minerals Local Plan updates;	
	Update from The Crown Estate;	
	Concerns about delays in EA permitting.	

Appendix 2: Primary Aggregate Sites in 2021 (including quarries, rail depots and wharves) in the East of England

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Broom South	1	Quarry	Tarmac	517300, 241600	Sand & Gravel	Active	Nov-40
	Bryants Lane	2	Quarry	LB Silica Sand	492809, 228630	Sand and silica sand	Active	Dec-41
	Cainhoe Quarry, Clophill	3	Quarry	Thomas Bros	510100, 237400	Sand	Active	Dec-29
	Churchways / Checkleywood	4	Quarry	Aggregate Industries	493600, 229400	Sand and silica sand	Active	Dec-31
	Fox Corner	5	Quarry	DB Standing and Sons	492771, 229197	Sand	Active	Feb-42
Bedford, Central	Grovebury	6	Quarry	Aggregate Industries	492980, 222999	Sand and silica sand	Active	Jul-22
Bedfordshire and Luton	Land either side of Willington Lock	7	Quarry	Breedon Group	512294, 250457	Sand & Gravel	Active	Mineral extraction to cease by 22 June 2024
	Mundays Hill	8	Quarry	Aggregate Industries	493506, 227971	Sand and silica sand	Active	Dec-31
	Potton (Myers Farm)	9	Quarry	Breedon Group	521922, 250440	Sand	Active	Sep-24
	Sandy Heath	10	Quarry	Tarmac	520000, 249400	Sand	Active	Dec-29
	Simpsonhill Plantation, Bedford Rd, Clophill	11	Quarry	Forterra	508200, 237200	Sand	Active	Feb-42
	Elstow Aggregate Railhead, Wilstead Rd,	12	Rail depot	Tarmac Trading Ltd	504190, 245651	Crushed rock	Active	no end date
	Bedford	13	Rail depot	Tarmac Trading Ltd	509709, 221506	Crushed rock	Active	no end date

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Crescent Road, Luton	14	Rail depot	Breedon Group	507621, 222855	Sand & gravel	Active	no end date
	Limbury Sidings, 519 Leagrave Road, Luton	15	Rail depot	Network Rail	501775, 243162	Rail ballast	Active	no end date
	Little Paxton, Cambs	16	Quarry - SG	Aggregate Industries UK Ltd	519774, 264521	Sand and Gravel	Active	31.12.2029
	Pode Hole Quarry, Peterborough	17	Quarry - SG	Aggregate Industries UK Ltd	526035, 303142	Sand and Gravel	Active	31.12.2026 (est.)
	Thornhaugh IIB, Peterborough	18	Quarry - CR	Bullimores	505663, 299479	Crushed Rock	Not Yet Worked	31.12.2027 (est.)
	Dimmock's Cote Quarry, Cambs	19	Quarry - CR	LKAB (previously Francis Flower Ltd)	554567, 272479	Crushed Rock	Active	31.12.2035
	Must Farm Quarry (Cambridgeshire & Peterborough - cross boundary)	20	Quarry - SG	Forterra	522786, 296882	Sand and Gravel	Active	31.12.2036
Cambridgeshire and Peterborough	Block Fen Quarry, Cambs	21	Quarry - SG	Hanson Aggregates	543591, 284399	Sand and Gravel	Inactive	31.03.2016
	Needingworth Quarry, Cambs	22	Quarry - SG	Hanson UK	537792, 272953	Sand and Gravel	Active	31.12.2030
	Marsh Lane, Cambs	23	Quarry - SG	Land Logical	529717, 269388	Sand and Gravel	Active	21.02.2042
	Pasture House Farm, Peterborough	24	Quarry - SG	Land Logical	525114, 303295	Sand and Gravel	Active	31.12.2035 (est.)
	Bridge Farm Reservoir, Holme Fen Drove, Cambs	25	Quarry - SG	Mick George Ltd	539800, 276895	Sand and Gravel	Active	18.07.2021
	Chesterton Sidings, Cambs	26	Rail Depot - CR	Frimstone (Mick George)	547545, 261160	Crushed Rock	Active	N/A
	Colne Fen, Earith, Cambs	27	Quarry	Mick George Ltd	538332, 277069	Sand and Gravel	Closed	N/A

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Cook's Hole, Peterborough	28	Quarry - CR	Mick George Ltd	505217, 299768	Crushed Rock	Active	21.02.2042
	Kennett, Cambs	29	Quarry - SG	Mick George Ltd	569000, 268760	Sand and Gravel	Active	30.09.2023
	Lyons Farm, Cambs	30	Quarry	Mick George Ltd	542600, 290700	Sand and Gravel	Closed	N/A
	Mepal Reservoirs, Cambs (ne Sutton Gault)	31	Quarry - SG	Frimstone (Mick George Ltd)	541682, 282087	Sand and Gravel	Active	31.12.2024
	Mitchell Hill Farm North, Waterbeach, Cambs	32	Quarry - SG	Mick George Ltd	548163, 270459	Sand and Gravel	Active	31.10.2035
	Stibbington Marina	33	Quarry	Mick George Ltd	509721, 297670	Sand and Gravel	Closed	N/A
	Willow Hall Farm, Haddenham	34	Quarry - SG	Mick George Ltd	525532, 301929	Sand and Gravel	Not Yet Worked	Commencement +5 years
	Witcham Meadlands Quarry, Block Fen	35	Quarry - SG	Mick George Ltd	543856, 283518	Sand and Gravel	Permitted (2022) - Not Yet Worked	Commencement +5 years
	Willow Hall Farm, Peterborough	36	Quarry - SG	PJ Thory	525532, 301929	Sand and Gravel	Active	31.12.2037 (est).
	Block Fen Quarry II, Cambs	37	Quarry - SG	Tarmac	542500, 284000	Sand and Gravel	Active	31.12.2031 & 31.12.2036
	Chesterton Sidings, Cambs	38	Rail Depot - CR	Tarmac	547545, 261160	Crushed Rock	Active	N/A
	Maxey Quarry, Peterborough	39	Quarry - SG	Tarmac Ltd	513122, 307113	Sand and Gravel	Active	None but extraction likely to occur over 14 years from 2021
	Ely (Railhead), Cambs	40	Rail Depot	Tillicoultry Quarries	555960, 280975	Crushed Rock	Active	N/A
	Alresford Creek, Alresford	41	Quarry	Brett Aggregates	660630,222000	Sand & Gravel	Active	2024
	Asheldham Quarry, Southminster	42	Quarry	G&B Finch Ltd	597439,201505	Sand & Gravel	Active	2029

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Birch Quarry, Birch	43	Quarry	Hanson Aggregates	592700,219300	Sand & Gravel	Active	2018
	Blackley Quarry, Great Leighs	44	Quarry	Frank Lyons Plant Services Ltd	572800,219100	Sand & Gravel	Active	2045
	Bradwell Quarry, Silver End	45	Quarry	Blackwater Aggregates	581900,221700	Sand & Gravel	Active	2022
	Brightlingsea Quarry, Essex	46	Quarry	SRC Ltd	607000,218800	Sand & Gravel	Active	2026
	Bulls Lodge Quarry, Boreham	47	Quarry	Hanson Aggregates	574600, 210800	Sand & Gravel	Active	Airfield permission - 2020; Park & Brick Farms - 2030
Essex, Southend	Cobbs Farm, Goldhanger	48	Quarry	SRC Ltd	589300,208500	Sand & Gravel	Active	Closed September 2021
on Sea and Thurrock	Colchester Quarry (aka Stanway Quarry)	49	Quarry	Tarmac Ltd	595400,222700	Sand & Gravel	Active	2024
	Colemans Quarry	50	Quarry	Brice Aggregates	583327,215613	Sand & Gravel	Active	2036
	Crown Quarry, Ardleigh	51	Quarry	SRC Ltd	602761,229470	Sand & Gravel	Active	2028
	Crumps Farm, Great Canfield	52	Quarry	Edviron Ltd	558400,221100	Sand & Gravel	Active	2031
	Curry Farm, Bradwell-on- Sea	53	Quarry	Dewicks	599365,205812	Sand & Gravel	Active	Restoration by 2024
	Highwood Quarry, Little Easton	54	Quarry	SRC Ltd	559800,222400	Sand & Gravel	Active	2026
	Lufkins Farm, Thorrington Road	55	Quarry	Brett Aggregates	609700,222100	Sand & Gravel	Active	Jan-22
	Royal Oak, Danbury	56	Quarry	Danbury Aggregates	580300,205200	Sand & Gravel	Active	2029

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	St Cleres Pit, Danbury	57	Quarry	Danbury Aggregates	576355, 205866	Sand & Gravel	Active	Cessation of mineral extraction by 16 February 2029; cessation of use of the processing plant by 31 December 2031 and restoration of processing plant and stockpile area by 31 March 2032
	Wivenhoe Quarry, Wivenhoe	58	Quarry	Tarmac Ltd	604754, 222688	Sand & Gravel	Closed	Under restoration
	Wivenhoe Quarry (Sunnymead Extension) Wivenhoe	59	Quarry	Tarmac Ltd	605794, 222627	Sand & Gravel	Not yet commenced	Commencement required within 3 years from the approval date of ESS/17/18/TEN (18 Dec 2020); cessation of extraction 19 years after commencement, with an additional 2 years for the restoration of the site.
	Martells Quarry, Ardleigh	60	Quarry	SRC Ltd	605027, 228324	Sand & Gravel / Silica Sand	Active	2026
	Rivenhall Airfield (Waste Facility)	61	Quarry	Gent Fairhead & Co Ltd	582200, 220700	Sand & Gravel	Technically commenced but not active	
	Elmstead Hall (aka Elmstead Reservoir)	62	Quarry	RW Mitchell & Sons	605763, 225810	Sand & Gravel	Not yet commenced	Nov-21
	Sheepcotes, Essex	63	Quarry	SRC Ltd	571700, 213700	Sand & Gravel	Not yet commenced	Commencement required by 1 August 2022 with cessation of extraction 5 years after commencement.

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Rayne Quarry, Essex	64	Quarry	Ingrebourne Valley	571100, 222900	Sand & Gravel	Not yet commenced	Commencement required within 3 years from the approval date of ESS/19/17/BTE (by Aug 2022), cessation of extraction 13 years after commencement.
	Fingringhoe Quarry, Fingringhoe	65	Quarry	JJ Prior Ltd	604321, 221003	Sand & Gravel	Not active. Exports from stockpiles	2042. Extraction has ceased on site; exporting from stockpiled material
	Mill House Farm, Chadwell St Mary, Thurrock	66	Quarry	Ingrebourne Valley	565879, 179152	Sand & Gravel	Active	2021
	Orsett Quarry, Stanford Le Hope, Thurrock	67	Quarry	Ingrebourne Valley	567223, 180614	Sand & Gravel (Thanet Sand)	Mothballed	2042
	Dansand Quarry, Orsett, Thurrock	68	Quarry	Rio Aggregates	565158, 181035	Sand & Gravel	Active	2025
	East Tilbury Quarry, Thurrock	69	Quarry	S Walsh & Sons	568700, 177800	Sand & Gravel	Not active. Under restoration.	Not active. Under restoration.
	Medina Farm, Thurrock	70	Quarry	Ingrebourne Valley	557842, 183968	Sand & Gravel	Not yet commenced	Not yet commenced
	Ballast Quay, Fingringhoe	71	Quarry/Wharf	JJ Prior Ltd	604300, 221000	Sand & Gravel	Quarry Inactive. Wharf exporting until stockpiles exhausted	2042
	Port of Harwich, Parkeston	72	Wharf	Hutchinson Ports	623348, 232590	Sand & Gravel	Inactive	Listed as a potential site in the MLP, not active and without end date
	Chelmsford Rail Depot	73	Rail depot	Aggregate Industries	571273,207450	Crushed rock	Active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Harlow Rail Depot	74	Rail depot	Aggregate Industries	547000,212200	Crushed rock	Active	Permanent
	Harlow Rail Depot	75	Rail depot	Tarmac	547000,212200	Crushed rock	Active	Permanent
	Marks Tey Rail Depot	76	Rail depot	Tarmac	591800,224000	Crushed rock	Active	Permanent
	Purfleet Rail Depot, Jurgens Road, Purfleet	77	Rail depot	Aggregate Industries	556551,177167	Crushed rock and others	Active	Permanent
	Port of Tilbury, Bulk Rail Terminal (former Freightliner terminal), Tilbury Dock, Tilbury	78	Rail depot	FM Conway	562593,176996	Marine imported sea dredged crushed rock exported by rail. Secondary aggregate	Active	Permanent
	Port of Tilbury, Berth 34	79	Rail depot	S Walsh & Sons	563178,175178	Crushed rock	Not yet active	Permanent
	CMAT rail facility, Tilbury 2, Fort Road, Tilbury	80	Rail depot	Port of Tilbury	566186,175858	Various aggregates imported and exported by rail	Active	Permanent
	DP World, Thurrock	81	Marine wharf	Aggregate Industries	572093,181395	Aggregate	Active	Permanent
	Thurrock Marine Terminal, Oliver Close, West Thurrock	82	Marine wharf	Tarmac	557417,176960	Aggregate	Active	Permanent
	Purfleet Wharf, West Thurrock	83	Marine wharf	Hanson	557092,176953	Aggregate	Not active - Jetty wharves remain but site does not appear to import aggregate	Permanent
	Berth 1, Tilbury Docks, Tilbury	84	Marine wharf	Stema Shipping Ltd	563257,175650	Crushed rock and aggregate	Active	Permanent
	Berth 34, Tilbury Docks, Tilbury	85	Marine wharf	Walsh & Sons	563178,175178	Aggregate	Not yet active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Tilbury 2, Fort Road, Tilbury	86	Marine wharf		566166,175634	Aggregate imported and exported	Not yet active. Due to start 2022	Permanent
	Thorley Hall Farm Quarry	87	Quarry	Ingrebourne Valley Ltd	548257, 218294	Sand & Gravel	Active	Reservoir construction and restoration works due for completion by 30.10.24
	Tyttenhanger Quarry	88	Quarry	Tarmac Ltd	519954, 203231	Sand & Gravel	Active	31.12.2032 (excluding aftercare)
	Hatfield Quarry - Symondshyde	89	Quarry	Cemex UK Ltd	520450, 210500	Sand & Gravel	Active	31.12.2023
	Furze Field (extension to Hatfield Quarry)	90	Quarry	Cemex UK Ltd	520450, 210500	Sand & Gravel	Not yet active	31.12.2023
	Land adjoining Coopers Green Lane (extension to Hatfield Quarry)	91	Quarry	Cemex UK Ltd	520450, 210500	Sand & Gravel	Not yet active - awaiting s106	14 years after commencement
	Westmill Landfill	92	Former quarry	Biffa Waste Services Ltd	533929, 215923	Sand & Gravel	Under restoration	31.12.2027
Hertfordshire	Panshanger	93	Former quarry	Tarmac Ltd / BP Mitchell Haulage Ltd	527970, 212043	Sand & Gravel	Under restoration	Within 10 years of commencement of infill: so by 28.01.2029
	Braziers	94	Former quarry	Frank Lyons Plant Services Group	534000, 215300	Sand & Gravel	Under restoration	21.02.2042
	Waterhall Complex Hertford	95	Former quarry	Waterhall (England) Ltd / Frank Lyons	529825, 209792	Sand & Gravel	Restored.	31.12.2019
	Harper Lane Rail Loop	96	Rail depot	Tarmac	515980, 201590	Asphalt, readymix	Active	n/a
	Hitchin Rail Depot	97	Rail depot	Aggregate Industries UK Ltd	519600, 229600	Imports limestone (mostly for SUDS) and sand & gravel (used for concrete mixing)	Active	n/a

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Orphanage Road Rail Depot	98	Rail depot	London Concrete Ltd / Aggregate Industries UK Ltd	511060, 197660	Concrete batching	Active	n/a
	Rye House Rail Depot	99	Rail depot	Tarmac	538940, 209190	Crushed rock	Not active	n/a
	Langley Sidings Rail Depot	100	Rail depot	Tarmac	523980, 222890	Crushed rock, asphalt, readymix	Not active	n/a
	Holt Quarry, Ducks Hole Farm House, Hunworth Road, Holt	101	Quarry	Breedon Group	607291, 337108	Sand & Gravel	Active	31.12.2030
	Punch Farm Quarry, Litcham	102	Quarry	East Anglian Stone Ltd	589988, 316647	Sand & Gravel	Active	01.08.2031
	Crimplesham Quarry, Ashcraft Farm, Main Road, Crimplesham	103	Quarry	Mick George Ltd (Frimstone)	566314, 303624	Sand & Gravel	Active	31.12.2027
	Watlington Quarry Watlington Road, Oakwood Corner, Tottenhill	104	Quarry	Mick George Ltd (Frimstone)	563519, 311950	Sand & Gravel	Active	31.12.2023
Norfolk	Pentney Quarry, Abbey Road, Pentney, Nr King's Lynn	105	Quarry	Middleton Aggregates Ltd	568330, 313119	Sand & Gravel	Active	31.12.2024
	East of Mill Drove, Blackborough End, King's Lynn	106	Quarry	Middleton Aggregates Ltd	568101, 314690	Sand & Gravel Carstone	Active	31.12.2024
	Earsham Quarry, Bath Hills Road, Earsham	107	Quarry	Earsham Gravels Ltd	631592, 288996	Sand & Gravel	Active	31.12.2020 (09.11.2040)
	Kirby Cane Quarry, Yarmouth Road, Kirby Cane, Bungay	108	Quarry	The Lyndon Pallett Group Ltd	638067, 292915	Sand & Gravel	Active	31.12.2025
	Carbrooke Quarry, Mill Lane, Carbrooke	109	Quarry	4 Leaf Enterprises Ltd	594929, 301229	Sand & Gravel	Active	09.08.2027

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Feltwell Quarry, Lodge Road, Feltwell, Thetford	110	Quarry	L P Pallett Quarry (Feltwell) Ltd	573885, 292018	Sand & Gravel	Active	22.02.2042
	Welcome Pit, Burgh Castle, Great Yarmouth	111	Quarry	Folkes Plant & Aggregates Ltd	648454, 304197	Sand, Sand & Gravel	Active	22.02.2042
	Wymondham Quarry, Stanfield Road, Wymondham	112	Quarry	Longwater Gravel Co Ltd	613715, 300326	Sand & Gravel	Active	30.03.2026
	C/7/2018/7014, Norton Subcourse Quarry, Loddon Road, Hales	116	Quarry	Breedon Group	640107, 299357	Sand & Gravel	Active	20.02.2036
	C/3/2017/3016, East Bilney Quarry, Rawhall Lane, East Bilney, Nr Dereham	114	Quarry	Middleton Aggregates Ltd	595090, 318640	Sand & Gravel	Active	31.12.2029
	C/2/2017/2004, Coxford Abbey Quarry, Docking Road, Syderstone, Fakenham	115	Quarry	Longwater Gravel Co Ltd	582905, 331039	Sand & Gravel	Active	20.05.2027
	Land off Mill Drove, Blackborough End, King's Lynn	116	Quarry	William George Sand and Gravel Ltd	567551, 314462	Sand & Gravel	Active	31.12.2024
	FUL/2020/0045 Horstead Quarry, Buxton Road, Horstead	117	Quarry	Longwater Gravel Co Ltd	625223, 320179	Sand & Gravel	Active	(15 years after commencement)
	FUL/2019/0043 Buxton (Mayton Wood), Little Hautbois, Coltishall	118	Quarry	Mick George Ltd (Frimstone)	624150, 321444	Sand & Gravel	Inactive	31.12.2035
	FUL/2020/0078, Mangreen Quarry, Ipswich Road, Swardeston	119	Quarry	Tarmac Trading Limited	621953, 303321	Sand & Gravel	Active	02.10.2023
	FUL/2019/0001, Briton's Lane, Beeston Regis, Sheringham	120	Quarry	Norfolk Gravel Limited	616978, 341383	Sand & Gravel	Active	31.12.2032

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	FUL/2021/0014, Park Farm, Wormegay, King's Lynn	121	Quarry	Middleton Aggregates Ltd	567800, 312900	Sand & Gravel	Inactive	13.12.2031
	Stanninghall Quarry, Norwich Road, Horstead	122	Quarry	Tarmac Trading Limited	625788, 318232	Sand & Gravel	Active	26.01.2021
	Briston Stody Estate, Breck Farm, Stody	123	Quarry	Mick George Ltd (Frimstone)	607641, 333963	Sand & Gravel	Active	31.03.2026
	Bitteringham / Longham Quarry, Reed Lane, Longham, Dereham	124	Quarry	McLeod Aggregates Ltd	593264, 317049	Sand & Gravel	Active	31.12.2032
	C/1/2019/1001, East Beckham Quarry, Holt Road, Upper Sheringham	125	Quarry	Gresham Gravel Limited	615431, 340751	Sand & Gravel	Active	31.12.2031
	C/2/2015/2027, Snettisham Quarry, Norton Hill, Snettisham	126	Quarry	Network Rail	568348, 334963	Carstone	Active	04.09.2028
	Trowse Railhead, Norwich	127	Rail Heads/Depots	Tarmac Trading Ltd	624477, 307236	Crushed rock	Active	N/A
	Norwich Riverside Rail Depot	128	Rail Heads/Depots	Network Rail	624304, 308010	Crushed rock (limestone)	Active (inactive during 2021)	N/A
	Brandon Rail Depot, Mundford Road, Brandon	129	Rail Heads/Depots	Breedon Trading Limited	578509, 287298	Crushed rock (limestone)	Active	N/A
	Snetterton Railhead	130	Rail Heads/Depots	Mick George Ltd (Frimstone)	601500, 290130	Crushed rock (limestone)	Active	N/A
	Yeoman Wharf, Great Yarmouth	131	Marine Wharfs	Silverton Aggregates Ltd	652409, 306344	unknown	Active depot, but inactive as a wharf	N/A
	Great Yarmouth Port, Outer Harbour, South Denes Road, Great Yarmouth	132	Marine Wharfs	Stema Shipping UK Ltd	653333, 304132	Crushed rock	Active	N/A
	Cavenham Quarry	133	Quarry	Allen Newport LTD	576014, 271871	Sand and gravel	Active	01.12.2053
	Worlington Quarry	134	Quarry	Mick George	569545, 271732	Sand and gravel	Active	30.10.2025

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Barham Quarry	135	Quarry	Brett Aggregates Limited	613366, 251572	Sand and gravel	Active	31.12.2034
	Pannington Hall	136	Quarry	Brett Aggregates Limited	614548, 240173	Sand and gravel	Active	2030
Suffolk	Waldringfield Quarry	137	Quarry	Brett Aggregates Limited	622886, 244590	Sand and gravel	Inactive	N/A
	Layham	138	Quarry	Brett Aggregates Limited	601417, 240220	Sand and gravel	Inactive	N/A
	Shrublands Quarry	139	Quarry	Brett Aggregates Limited	611890, 253730	Sand and gravel	Active	31.12.2030
	Westbank Marine Wharf	140	Marine wharf	Brett Aggregates Limited	616779, 243159	Sand and gravel	Inactive	N/A
	Barham Broomfield Depot	141	Rail depot / processing site	Tarmac Limited	613366, 251572	Sand and gravel	Active	Indefinite, extraction finished – processing site only
	Bucklesham Quarry	142	Quarry	Tarmac Limited	625531, 240494	Sand and gravel	Active	31.10.2031
	Tattingstone	143	Quarry	Shotley Holdings Ltd	612313, 236423	Sand and gravel	Active	31.03.2030
	Henham Quarry	144	Quarry	The Lyndon Pallett Group	645248, 279063	Sand and gravel	Active	21.10.2029
	Wangford Quarry	145	Quarry	Breedon Aggregates	647044, 277524	Sand and gravel	Active	31.03.2024
	Flixton Quarry	146	Quarry	Breedon Aggregates	629629, 286223	Sand and gravel	Active	30.09.2027
	Lawn Farm Quarry	147	Quarry	Aggmax	599445, 262427	Sand and gravel	Active	30.09.2040
	Blood Hill	148	Quarry	JT Few	611379, 248419		Inactive	n/a

Mineral Planning Authority	Site Name	Cross Reference to Figure 2	Type of site (Wharf, rail depot, quarry etc)	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Wetherden Lawn Farm Quarry	149	Quarry	AggMax	599445, 262427	Sand and gravel	Active	30.09.2040
	Hadleigh	150	Quarry	JT Few	602216, 244414	Sand and gravel	Active	21.02.2042
	Barham Railhead	151	Railhead / depot	Tarmac	611888, 251403	Crushed rock	Active	n/a
	Bury St Edmunds Railhead	152	Railhead / depot	Tarmac	585115, 265164	n/a	Decommissioned	n/a
	Gazeley Railhead (Kentford/Higham)	153	Railhead / depot	Tarmac	571872, 266987	Crushed rock	Active	n/a
	West Bank Terminal, Ipswich	154	Rail depot	Brett Aggregates	616735, 243191	Marine sand and gravel	Active	n/a
	Cliff Quay, Ipswich	155	Marine wharf	Port Authority	616786, 242631	Crushed rock	Active	n/a
	Hamilton Dock, Lowestoft	156	Marine wharf	Port Authority	655297, 293024	Crushed rock	Decommissioned	n/a
	North Quay, Lowestoft	157	Marine wharf	Port Authority	653603, 292906	Crushed rock	Inactive	n/a
Neter	West Bank Terminal, Ipswich	158	Marine wharf	Brett Aggregates	616627, 242800	Marine sand and gravel	Active	n/a

Notes:

C = Confidential figure

Status: O = Operational; NO = Non Operational, D = Dormant, C = Closed, R = Restored/Redeveloped

Appendix 3: Secondary Aggregate Sites in the East of England

Mineral Planning Authority	Site Name	Cross Reference to Figure 4	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
Bedford, Central Bedfordshire and Luton	None						
Cambridgeshire and Peterborough	National Track Recycling Centre	1	Network Rail	541423, 298698	Recycled and secondary aggregate	Active	n/a
Essex, Southend-on- Sea and Thurrock	Port of Tilbury, Bulk Rail Terminal (former freightliner terminal), Tilbury Dock. Tilbury	2	FM Conway	562593, 176996	Marine imported sea dredged crushed rock exported by rail. Secondary aggregate	Inactive	Permanent
Hertfordshire	Harper Lane (Rail Loop)	9	Tarmac	515980, 201590	Recycling of demolition waste, glass and rail ballast to produce secondary aggregates	Active	n/a
Norfolk	None						
Suffolk	Broomfield Pit	3	Tarmac	612200, 251500	Secondary aggregates and recycling		
	Gazeley Secondary Aggregate Production	4	Tarmac	571889, 267193	Secondary aggregates and recycling		

Mineral Planning Authority	Site Name	Cross Reference to Figure 4	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Old Chicory Factory	5	Murfitts Industries	572492, 286426	Secondary aggregates and recycling		
	Sole Bay Recycling	6	Murray Graham	649862, 276551	Secondary aggregates and recycling		
	Causeway Pit, Lakenheath	7	Sutton Services	570700, 282200	Secondary aggregates and recycling		
	Somersham Road	8	Swift Recycling	611100, 248200	Secondary aggregates and recycling		

Appendix 4: Recycled Aggregate Sites in the East of England

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Blunham Recycling Facility, Land North of Barford Rd, Blunham	1	Acorn Transport and Plant Hire Ltd	513961, 251625	Aggregate Recycling (plus wood, metals & soils)	Active	N/A
	Cainhoe Quarry, Ampthill Rd, Clophill	2	Thomas Bros Excavations (Luton) Ltd	510185, 237562	Inert waste recycling	Active	31.12.2036
	Land adjacent Ampthill Road (A507), Beadlow	3	Winton Haulage Ltd	510293, 237724	Aggregate Recycling	Active	N/A
	Unit 16, Harmill Industrial Estate, Grovebury Rd, Leighton Buzzard	4	M O'Brien Plant Hire	492251, 224022	Aggregate Recycling	Active	N/A
	Heron's Farm, Mancroft Rd, Aley Green, Caddington	5	Mini One Plant Hire Ltd	506324, 218662	Aggregate Recycling	Active	N/A
Bedford, Central	Blackburn Road, Townsend Ind Est, Houghton Regis	6	Holywell Haulage Ltd	501673, 223164	Materials Recycling Facility	Active	N/A
Bedfordshire and Luton	Old Sand Quarry, Haynes West End	7	SC Bradshaw Haulage	507050, 240505	Inert waste recycling	Active	N/A
	1 Covent Garden Close, Luton	8	Cawleys Waste Management	506904, 223063	Materials Recycling Facility	Active	N/A
	Goosey Lodge Ind Est, Wymington, Rushden	9	Wykes Engineering	496200, 263930	Waste Mgmt & Aggregate Recycling	Active	N/A
	Keysoe Road, Thurleigh	10	C Jackson and Sons	505757, 259771	Transfer & Treatment	Active	N/A
	Fox Corner, Woburn Rd, Heath & Reach	11	DB Standing and Sons	492754, 229163	Inert waste recycling	Active	6.3.2030 or when mineral extraction ceases
	Chiltern Green Road, East Hyde	12	Holywell Haulage Ltd	512407, 218158	Aggregate Recycling & Transfer	Active	N/A

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Unit 1 Kempston Court, Manor Rd, Kempston Hardwick	13	Paul Riches Skips	503257, 244202	Waste Recycling Facility & Skip Hire	Active	N/A
	G Moore Haulage, Manor Road, Kempston Hardwick	14	G Moore Haulage Ltd	503201, 244292	Transfer & Recycling	Active	N/A
	Cow Close, Langford Rd, Biggleswade	15	F D O'Dell and Sons Ltd	519221, 243428	Waste Transfer & Aggregate Recycling	Active	N/A
	Unit G Faldo Road, Barton Ind Est, Barton-le-Clay	16	Barton Skips	507115, 231762	Waste Transfer & Treatment	Active	N/A
	Four Winds Industrial Estate	17	Wilstead Skips	507172, 239910	Aggregate Recycling & Transfer	Active	N/A
	Unit 2, 250 Toddington Road	18	Three Shires Waste Recycling Ltd	504667, 224998	Aggregate Recycling & Transfer	Active	N/A
	Compound A, Unit 4 Cauldwell Walk Ind Est, Bedford	19	ABSS Skips (Budget Skips)	504367, 248683	Transfer & Treatment	Active	N/A
	Land South of Bedford, Cople	20	G Moore Haulage Ltd	509779, 248996	Soils & Aggregates Recycling Facility	Yet to commence	N/A
	Waterbeach, Cambs	21	AmeyCespa / Frimstone	548700, 268700	Inerts	Active	N/A
	Kennett, Cambs	22	Mick George Ltd	569800, 269300	Inerts	Active	N/A
	Swavesey, Cambs	23	Dawson Recycling	536071, 269260	Inerts	Active	N/A
	Babraham, Cambs	24	Dockerill Plant Hire	552747, 251521	Inerts	Active	N/A
Cambridgeshire	Little Paxton, Cambs	25	Eaton Tractors, Pitt Farm	518688, 263319	Inerts	Active	N/A
and Peterborough	First Furlong Drove, Chatteris, Cambs	26	Mandley Bros.	537925, 285107	Inerts	Active	N/A
	White Walls, Coates, Cambs	27	P J Thory	531854, 298453	Inerts	Active	N/A
	Meadow Lane, St. Ives, Cambs	28	Midland Quarry Products Ltd	532125, 270772	Inerts	Active	N/A
	Dogsthorpe EMR, Peterborough	29	Mick George Ltd	520287, 302329	Inert recycling	Active	N/A
	Dogsthorpe Landfill, Peterborough	30	Apex	521064, 302061	Inert recycling	Active	N/A

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Pasture House Farm, The Causeway, Thorney	31	Land Logical Ltd	525175, 303553	Sand & gravel extraction, Inert recycling	Active (unclear if aggregate recycling activity ongoing)	N/A
	Rear of Low Cross House, Padholme Road East,	32	Rose & Sons Plant Hire	521064, 299138	Inert recycling	Unknown	N/A
	Unit 2 Vicarage Farm Road	33	Bourne Skip Hire and Recycling	521181, 299348	Inert recycling	Active	N/A
·	National Track Recycling Centre, Cambs	34	Network Rail	541423, 298698	Recyled & Secondary Aggregate	Active	N/A
	St Ives Transfer Station EPR/MP3139FY	35	Mick George Ltd	532120, 270780	Inert recycling	Active	N/A
	Mepal Soil and Aggregate Treatment Facility	36	Mick George Ltd	544677, 284081	Inert recycling	Active (unclear if aggregate recycling activity ongoing)	N/A
	Archers Fields, SS13 1DH	37	Clearaway Recycling Ltd	573638, 190273	Inert/C+D	Active	Permanent
	Benfleet Scrap, SS13 1QJ	38	Benfleet Scrap Co Ltd	573852, 190525	Inert/C+D	Active	Permanent
	Blunts Wall Farm, CM12 9SA	39	Littmoden Plant Hire Ltd	565725, 194087	Inert/C+D	Active	Permanent
	Bob's Skips, SS13 1DG	40	Robert Michael Walker & Victoria Kathleen Walker	618706, 218031	Inert/C+D	Active	Permanent
	Cohart Asbestos Disposal Limited, SS13 1DH	41	Cohart Asbestos Disposal Ltd	573647, 190522	Inert/C+D	Active	Permanent
	Hovefields Court, SS13 1EB	42	T L M Management Ltd	572881, 190533	Inert/C+D	Active	Permanent
	J. K. Farms, SS15 4AZ	43	J K Farms Ltd	570231, 190963	Inert/C+D	Active	
	Leigh Skips Transfer Station, SS13 1DG	44	Stone - Alan M	573731, 190304	Inert/C+D	Active	Unknown – not ECC Permission

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	JAC YARD-BONVILLE FARM, SS12 9JQ	45	J.A.C Groundwork & Civil Engineering Ltd	577030, 190350	Inert/C+D	Active	Unknown – not ECC Permission
	Neil Sullivan & Sons Recycling Centre Tennis Courts, SS12 9JQ	46	Neil Sullivan & Sons Ltd	577135, 190495	Inert/C+D	Active	Unknown – not ECC Permission
	Pitsea RCHW, SS14 4UH	47	Essex County Council	573676, 187079	Inert/C+D	Active	Permanent
	Terminus Drive. SS16 4UH	48	Mr James Heard & Mrs MarieHeard	573637, 187574	Inert/C+D	Active	Permanent
	All Clear Skip Hire, CM7 8DL	49	W J Hedger, M W R Hedger & P W J Hedger	578036, 221776	Inert/C+D	Active	Permanent
	Batemans Farm, CM3 1PU	50	G & B Finch Limited	574510, 218424	Inert/C+D	Active	Permanent
	Braintree Recycling Centre for Household Waste, CM7 2YN	51	Essex County Council	574665, 224359	Inert/C+D	Active	Permanent
	T & K Weavers Demolition, CO8 5DL	52	T & K Weavers Demolition Ltd	589462, 234062	Inert/C+D	Active	Permanent
	Bushcade Ltd, CM4 9AY	53	Bushcade Ltd	563628, 197934	Inert/C+D	Active	Unknown – not ECC Permission
Essex, Southend	G J Bowmer (Waste Disposal) Ltd, CM13 3DT	54	G J Bowmer	559999, 190415	Inert/C+D	Active	Permanent
on Sea and Thurrock	Heatherland Ltd, CM5 9RB	55	Heatherland Ltd, Stondon Massey	556243, 201888	Inert/C+D	Active	
	Wotton Green Works, CM14 5SU	56	Skippy Grabs & Groundworks Ltd	552936, 195053	Inert/C+D	Active	Unknown – not ECC Permission
	Brentwood RCHW, CM14 5PN	57	Essex County Council	557379, 195593	Inert/C+D	Active	Permanent
	A A Quickskips, SS7 4PS	58	Wallace Brian	577756, 189193	Inert/C+D	Active	Unknown – not ECC Permission
	D C Donovan Group Limited, SS7 3NH	59	D C Donovan Group Ltd	578251, 190340	Inert/C+D	Active	Unknown – not ECC Permission
	Essex County Skips Ltd, SS7 4PY	60	Essex County Skips Ltd	577748, 189475	Inert/C+D	Active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Waste Transfer Station, SS8 0PQ	61	A Team Services Ltd	577550, 183400	Inert/C+D	Active	
	Bulls Lodge Quarry, CM3 3HR	62	Eurovia Infrastructure Ltd / Hanson	574499, 210668	Inert/C+D	Active	30/06/2030
	Chelmsford Transfer & Recycling Facility, CM3 3AW	63	Biffa Waste Services Ltd	575951, 210632	Inert/C+D	Active	Permanent
	Dunmow Skips Ltd, CM3 3PZ	64	Dunmow Skips Ltd	571805, 211243	Inert/C+D	Active	Unknown – not ECC Permission
	S B Skip Hire, CM2 8LP	65	T D Buttling & P J Cars & Plant Ltd	570735, 200688	Inert/C+D	Active	Permanent
	Chelmsford RCHW, CM2 5PP	66	Essex County Council	573646, 209121	Inert/C+D	Active	Permanent
	Cooks Skip Hire, CO5 7HY	67	Foster Peter	602390, 221501	Inert/C+D	Active	Unknown – not ECC Permission
	Core Fusion Limited, CO2 8HT	68	Core Fusion Ltd	602250, 223457	Inert/C+D	Active	Unknown – not ECC Permission
	Mason Trucking Company, CO6 1HU	69	Mason Trucking Co Ltd	588699, 223065	Inert/C+D	Active	Unknown – not ECC Permission
	Tin Bins, CO4 5QY	70	Trevor John Watling, Josephine Carol Watling & Matthew John Watling	600021, 231312	Inert/C+D	Active	Permanent
	Colchester RCHW, CO3 4RN	71	Essex County Council	596757, 223105	Inert/C+D	Active	Permanent
	Evans Thornwood, CM16 6LU	72	John Evans, Timothy Evans, Terry Evans	546824, 204903	Inert/C+D	Active	Permanent
	Harvey Automobile Engineering, EN9 2EX	73	Harvey Martin	538092, 205473	Inert/C+D	Active	Permanent
	J & R Haulage, EN9 2RJ	74	J & R Haulage Ltd	539969, 206865	Inert/C+D	Active	Unknown – not ECC Permission
	David Brown Skip Hire and Recycling, CM20 2DY	75	Brown David Romanus	546938, 212401	Inert/C+D	Active	Permanent
	G B N Services Ltd, CM20 2DP	76	G B N Services Ltd	546653, 212634	Inert/C+D	Active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Mead Park Depot, Harlow, CM20 2SE	77	H T S (Property and Environment) Ltd	545579, 211896	Inert/C+D	Active	Permanent
	Roydon Lea Farm, CM19 5DU	78	R B Whitbread (Plant Hire) Ltd	542308, 210614	Inert/C+D	Active	Unknown – not ECC Permission
	Harlow RCHW, CM20 2DY	79	Essex County Council	546952, 212467	Inert/C+D	Active	Permanent
	Asheldham Quarry, CM0 7DZ	80	G & B Finch Ltd	597451, 201569	Inert/C+D	Active	31/12/2029
	Buck Rogers Car Breakers, CM3 6EG	81	Simon John Rogers & Jeanne Melvina Rogers	592553, 201714	Inert/C+D	Active	Permanent
	Promenade Park Depot, CM9 5UR	82	Maldon District Council	586050, 206200	Inert/C+D	Active	Permanent
	Green Recycling Limited, CM9 5FA	83	Green Recycling Ltd	585758, 207538	Inert/C+D	Active	Permanent
	Maldon RCHW, CM9 5U	84	Essex County Council	586280, 206186	Inert/C+D	Active	Permanent
	Brickfields Way Transfer Station, SS4 1NB	85	James Waste Management Llp	588227, 190181	Inert/C+D	Active	Permanent
	Cottis Yard Recycling Facility, SS4 1LB	86	D D Recycling Ltd	588478, 190172	Inert/C+D	Active	Permanent
	Ecologic Yard, SS4 1LA	87	G. B. N. Services Ltd	588341, 190248	Inert/C+D	Active	Permanent
	Franklin Hire, SS6 9RL	88	Franklin Hire Ltd	579600, 192401	Inert/C+D	Active	Assumed Permanent
	J K S Construction, SS4 1LZ	89	J K S Group Ltd	588095, 189893	Inert/C+D	Active	Permanent
	R. R. R Recycling Solutions, SS6 9RL	90	R. R. R. Recycling Solutions Ltd	579604, 192131	Inert/C+D	Active	Unknown – not ECC Permission

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Rayleigh RCHW, SS6 7QF	91	Essex County Council	580666, 190186	Inert/C+D	Active	Permanent
	T J Cottis Transport, SS6 9RL	92	T J Cottis Transport Ltd	579617, 192171	Inert/C+D	Active	Permanent
	Clacton Civic Amenity Site, CO16 7AD	93	Veolia Environmental Services (UK) Plc	615596, 214892	Inert/C+D	Active	Permanent
	Collect - A – Way, CO15 4LR	94	Barnett lan Justin	618582, 217925	Inert/C+D	Active	Permanent
	Collins Skip Hire, CO7 7RU	95	Shotley Holdings Ltd	604781, 228216	Inert/C+D	Active	Permanent
	Crown Quarry, CO7 7QR	96	Sewells Reservoir Construction Ltd	602688, 229533	Inert/C+D	Active	2028
	Eastern Waste Disposal Ltd, CO7 0SD	97	Eastern Waste Disposal Ltd	608650, 218080	Inert/C+D	Active	Permanent
	Martells Quarry, CO7 7RU	98	Sewells Reservoir Construction Ltd	605060, 228150	Inert/C+D	Active	2026 – subject to application determinatio n
	Martells Yard, CO7 7RU	99	Sewells Reservoir Construction Ltd	605094, 228278	Inert/C+D	Active	Permanent
	The Works - South Strand, CO11 1UP	100	Andrew William Mapes	610038, 232233	Inert/C+D	Active	Permanent
	Parkeston Quay, CO12 4SS	101	Network Rail Infrastructure Ltd	622642, 232265	Inert/C+D	Active	Permanent
	Gowers Farm. CM6 1NL	102	Prince Recycling Ltd	560516, 218077	Inert/C+D	Active	Permanent
	Haigh Recycling, CM6 2NN	103	Haigh Russell	559526, 229161	Inert/C+D	Active	Permanent
	Home Farm, CM22 6DR	104	Essex Waste Ltd	555140, 225614	Inert/C+D	Active	

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Mawkinherds Farm, CM6 1ND	105	Eco Plan Environmental Ltd	563997, 218783	Inert/C+D	Active	Unknown – not ECC Permission
	Saffron Walden Recycling Centre for Household Waste, CB10 2UR	106	Essex County Council	555219, 237298	Inert/C+D	Active	Permanent
	Widdington Pit, CB11 3SL	107	Widdington Recycling Ltd	552918, 231094	Inert/C+D	Active	01/01/2023
	Benfleet Scrap, RM17 6ST	108	Benfleet Scrap Co Ltd	562387, 177921	Inert/C+D	Active	Permanent
	Botany Quarry, Purfleet, RM16 0AA	109	Killoughery Waste Management Ltd	555795, 178278	Inert/C+D	Active	n/a
	Brocks Haulage, RM20 3EF	110	Brocks Haulage Ltd	558223, 176835	Inert/C+D	Active	n/a
	Buckingham Hill Civic Amenity Site, SS17 0PP	111	Thurrock Council	567061, 181274	Inert/C+D	Active	Permanent
	Burrows Farm Transfer Station - EPR/WP3831JT, RM14 3TL	112	Sims Environmental & Recycling Services Ltd	564510, 185080	Inert/C+D	Active	n/a
	East Tilbury Quarry, RM18 8PH	113	S Walsh & Son Ltd	568688, 177751	Inert/C+D	Active	Site currently in restoration
	Rainbow Shaw Treatment, SS17 OPJ	114	Clearserve Ltd	566748, 180366	Inert/C+D	Active	2020/21
	Recycled In Orsett, RM16 3BB	115	Recycled In Orsett Ltd	565171, 181136	Inert/C+D	Active	2024/25
	Seales Road Haulage Ltd, RM15 4YD	116	Seales Road Haulage Ltd	554775, 179720	Inert/C+D	Active	n/a
	Unit 5 Bennett's Industrial Estate, RM16 4LR	117	Henderson & Taylor Public Works Ltd	565340, 178135	Inert/C+D	Active	
	Units 15/16 Juliet Way, RM15 4YA	118	Modern Skips 2014 Ltd	554622, 179857	Inert/C+D	Active	
	West Thurrock Recycling and Transfer Station, RM20 3EE	119	P F Ahern (London) Ltd	557637, 177043	Inert/C+D	Active	
	Leigh Marsh Civic Amenity Site, SS9 2ET	120	Veolia Environmental Services UK Ltd	583069, 185668	Inert/C+D	Active	Permanent
	Plot 9, SS2 5QF	121	Hadleigh Salvage (Recycling) Ltd	587886, 187715	Inert/C+D	Active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Stock Road Recycling Centre, SS2 5QF	122	Veolia E S (UK) Ltd	588040, 187650	Inert/C+D	Active	Permanent
	Stock Road Recycling Facility, SS2 5QG	123	W & H (Roads) Ltd	587780, 188107	Inert/C+D	Active	
	W & H (Roads) Ltd, SS2 QG	124	W & H (Roads) Ltd	587831, 188179	Inert/C+D	Active	
	Land off Birchall Lane	125	BP Mitchell	527030, 211480	Hard demolition	Active	n/a
	Burnside (site 1)	126	BP Mitchell	526100, 210360	Builders waste and concrete batching	Active	n/a
	Burnside (site 2)	127	Peter Brother Ltd	526100, 210360	Builders waste	Active	n/a
	50-52 Burrowfield	128	Ground Waste Recycling Ltd	523600, 211510	Recycled hardcore	Active	n/a
Hertfordshire	Etteridge Farm Depot	129	AH Nicholls & Sons Ltd	532533, 206738	Recycled aggregates from inert waste	Active	Permanent
	Envirowaste Recycling Centre (Land adjacent to B197)	130	Stevenage Skip Hire Ltd	523420, 229200	Crushed concrete	Active	n/a
	Skinners Yard	131	Aggregate Industries UK Ltd t/a Express Asphalt	529825, 209792	Recycled asphalt and recycled asphalt planings	Active	n/a
	Aylsham Industrial Estate, Aylsham	132	Aylsham Plant Hire Ltd	620100, 327760	Recycled aggregates	Active	Permanent
	Townlands, Harfrey's Road, Great Yarmouth	133	EE Green & Son	652049, 306153	Recycled aggregates	Active	Permanent
	Welcome Pit, Butt Lane, Burgh Castle, Great Yarmouth	134	Folkes Plant & Aggregates Limited	648143, 304273	Recycled aggregates	Active	Permanent
	Six Acres, Stone Road, Hockering, Dereham	135	Norfolk Recycling Ltd	608086, 315134	Recycled aggregates	Active	Permanent
	Rossfield, Reepham Road, Horsford, Norwich	136	Green Planet Environmental Recycling	618282, 314991	Recycled aggregates	Active	Permanent
	Frans Green Industrial Estate, Sandy Lane, East Tuddenham	137	Norman Wenn Ltd	609303, 313953	Recycled aggregates	Active	Permanent
	Frans Green Industrial Estate, Sandy Lane, East Tuddenham	138	Pips Skips (PL Hyde)	609475, 314001	Recycled aggregates	Active	Permanent
	land South Of B1110, North Tuddenham, Dereham	139	Martyn J Green Ltd	604882, 313735	Recycled aggregates	Active	Permanent
	William Frost Way, Longwater Business Park, Costessey	140	Longwater Gravel Co Ltd	615815, 310706	Recycled aggregates	Active	Permanent

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
Norfolk	William Frost Way, Longwater Business Park, Costessey	141	N R Asphalt Limited	615616, 311298	Recycled aggregates	Active	Permanent
	Harfreys Industrial Estate, Great Yarmouth	142	East Coast Waste Ltd	651855, 305611	Recycled aggregates	Active	Permanent
	East Beckham Quarry, Holt Road, Sheringham	143	Gresham Gravel Limited	615522, 340754	Recycled aggregates	Active	31.12.2031
	Costessey Quarry, Longwater Industrial Estate, Costessey	144	Breedon Trading Ltd	614447, 311095	Recycled aggregates	Active	26.06.2022
	Browston sand pit, Cherry Lane, Browston, Great Yarmouth	145	E E Green & Son Limited	649456, 301745	Recycled aggregates	Active	Permanent
	Boundary Pit, Sandy Hills Lane, North Walsham	146	Carl Bird Limited	629064, 328265	Recycled aggregates	Active	Permanent
	Lodge Farm, Breckles, Attleborough	147	Lodge Farm Recycling Ltd	594649, 295238	Recycled aggregates	Active	Permanent
	Walnut Tree Farm, Silver Street, Besthorpe, Attleborough	148	Baldwin Skip Hire	607236, 296353	Recycled aggregates	Active	Permanent
	Lyngate Industrial Estate, North Walsham	149	Drury's Environmental Services Ltd	628047, 331347	Recycled aggregates	Active	Permanent
	Blackwater Pit, Helhoughton Road, Hempton, Fakenham	150	R N Gamble	590470, 328427	Recycled aggregates	Active	Permanent
	Snettisham Quarry, Norton Hill, King's Lynn	151	Mick George Ltd (Frimstone)	568348, 334963	Recycled aggregates	Active	04.09.2028
	Carbrooke Quarry, Summer Lane, Carbrooke	152	Mick George Ltd (Frimstone)	594929, 301229	Recycled aggregates	Active	11.02.2025
	Crimplesham Quarry, Main Road, Crimplesham	153	Mick George Ltd (Frimstone)	566314, 303624	Recycled aggregates	Active	31.12.2027
	Coxford Abbey Quarry, Docking Road, Syderstone	154	Longwater Gravel Co Ltd	582905, 331039	Recycled aggregates	Active	20.05.2027
	East Winch Quarry, East Winch Road, East Winch, King's Lynn	155	Middleton Aggregates Ltd	568412, 315288	Recycled aggregates	Active	23.01.2033
	Ketteringham Quarry. Hethersett Road, Ketteringham	156	Middleton Aggregates Ltd	617358, 302654	Recycled aggregates	Active	31.05.2029
	East Bilney Quarry, Rawhall Lane, East Bilney	157	Middleton Aggregates Ltd	595090, 318640	Recycled aggregates	Active	31.12.2029

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Bitteringham / Longham Quarry, Reed Lane, Longham, Dereham	158	McLeod Aggregates Ltd	593264, 317049	Recycled aggregates	Active	31.12.2032
	Kirby Cane Quarry, Yarmouth Road, Kirby Cane, Bungay	159	The Lyndon Pallett Group Ltd	638067, 292915	Recycled aggregates	Active	31.12.2025
	Feltwell Quarry, Lodge Road, Feltwell, Thetford	160	L P Pallett Quarry (Feltwell) Ltd	573885, 292018	Recycled aggregates	Active	22.02.2042
	Ernest Gage Avenue, Longwater Industrial Estate, Costessey	161	R G Carter Ltd	615646, 311185	Recycled aggregates	Inactive	Permanent
	Ash Tree Farm, Acle New Road, Great Yarmouth	162	Pattisons (Anglia) Ltd	650444, 309264	Recycled aggregates	Active	Permanent
	Beeston Regis Quarry, Briton's Lane, Beeston Regis, Sheringham	163	Carter Concrete Ltd	616861, 641438	Recycled aggregates	Active	31.12.2032
	Wall's Lane Quarry, Wall's Lane, Letheringsett	164	Glaven Pits Ltd	605400, 341600	Recycled aggregates	Inactive	Permanent
	Pump Lane, Caister on Sea, Great Yarmouth	165	Carters of Caister	651670, 311020	Recycled aggregates	Active	Permanent
	Lodge Farm, Thetford Road, Breckles, Attleborough	166	R Childerhouse	594632, 295200	Recycled aggregates	Active	Permanent
	Land off Marriott Way, Melton Constable Industrial Estate, Briston	167	Morrissey Builders Ltd	604636, 332817	Recycled aggregates	Active	Permanent
	Ducks Hole Farm, Hunworth Road, Holt	168	Breedon Trading Ltd	607237 337002	Recycled aggregates	Active	31.12.2030
	Mayton Wood Quarry, Little Hautbois, Coltishall, Norwich	169	Frimstone Ltd	624150, 321444	Recycled aggregates	Inactive	31.12.2035
	Bolton Brothers Recycling Centre (MRF)	170	Bolton Brothers	612153, 249700	Paper	Active	
Suffolk	Shrubland Park	171	Brett Aggregates	612000, 253700	Inerts.	Active	
	Sheepdrift Farm (Waldringfield)	172	Brett Aggregates	626000, 244800	Not operational	Site restored	
	Sinks Pit	173	Cemex	621498, 245495	CD and E	Active	
	Flixton Quarry (Site A)	174	Cemex	629800, 286500	Inerts	Active	
	D J Spall Recycling Ltd	175	D J Spall Recycling	626551, 255006	CD&E		

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Former Brickworks and Piperwork's site (Lowestoft)	176	EE Green & Son	652400, 288500	CD&E		
	Malting Farm	177	HF and JT Few	611257, 251806	Material reclamation facilities		
	Broomfield Pit	178	Tarmac	612200, 251500	Secondary Aggregates and recycling		
	Gazeley Secondary Agg Production	179	Tarmac	571889, 267193	Secondary aggregates and recycling		
	Worlington Quarry	180	M Dickerson	569410, 271743	Inerts		
	Marston's Quarry	181	Middleton Aggregates	575925, 271485	Inerts		
	Old Chicory Factory	182	Murfitts Industries	572492, 286426	Secondary aggregates and recycling		
	Sole Bay Recycling	183	Murray Graham	649862, 276551	Secondary aggregates and recycling		
	Newmarket Open Door Recycling Centre	184	Newmarket Open Door	563526, 264698	Potentially closed.	Potentially closed	
	S Sacker (Claydon) Ltd	185	Sackers Recycling	612299, 250377	CD&E		
	Causeway Pit, Lakenheath	186	Sutton Services	570700, 282200	Secondary aggregates and recycling		
	Somersham Road	187	Swift Recycling	611100, 248200	Secondary aggregates and recycling		
	Harpers Hill Farm	188	T D & A M Bugg	596400, 234900	CD&E		
	Beccles Civic Amenity Site	189	Radical Waste	645143, 288605			
	Chilton Grove Works	190	Wiles Contractors Limited	587917, 243351			
	Lakenheath Recycling Centre, Brandon Road	191	Elveden Farms	573383, 279879	CD&E		
	Claydon Skips Ltd, Masons Landfill	192	Claydon Skips	611604, 250142	CD&E		
	Ellough Waste Transfer Station	193	V C Cooke	644051, 288533	CD&E		
	Barton Mills Chalk Quarry	194	Needham Calks (HAM)	571059, 272238	Inerts		
	Falconer Road, Haverhill	195	McFitch Waste Management	568045, 244553			

Mineral Planning Authority	Site Name	Cross Reference to Figure 5	Operator	Grid Reference	Mineral	Status	Planning Permission End Date
	Lawn Farm, Wetherden	196	Aggamx	599309, 262979	Inerts		
	Chilton Concrete Recycling Facility, Chilton Airfield	197	T & K Weavers Demolition	587917, 243351	CD&E		
	Holywell Row Waste Recovery Site	198	A & S Topsoils	570672, 278265			
	R & D Construction Depot, Summer Road, Walsham le Willows	199	R & D Construction	599362, 272131			
	Solar Farm, Gisleham	200	Ley Plant	652488, 288370			
	The Control Tower (Recycling) Bentwaters	201	John Kemble	634136, 252681			