

East of England Aggregates Working Party

Annual Monitoring Report

2019 and 2020 Data

December 2021

Enquiries concerning the purchase of this or other EEAWP publications referred to in this report should be addressed to the Secretary of the Working Party.

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1. Bar charts showing aggregate sales between 2011 and 2020
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ACRONYMS

AMS	Aggregate Mineral Survey
AWP	Aggregate Working Party
BAA	British Aggregates Association
BGS	British Geological Survey
DLUHC	Department for Levelling Up, Housing and Communities
LAA	Local Aggregate Assessment
MASS	Managed Aggregate Supply System
MHCLG	Ministry of Housing, Communities and Local Government
MPA	Mineral Products Association
NPPF	National Planning Policy Framework
PPG	Planning Practice Guidance
SOCG	Statement of Common Ground
SWAWP	South West Aggregates Working Party
SWRAWP	South West Regional Aggregates Working Party

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
National Aggregate Co-ordinating Group	The National Aggregate Co-ordinating Group comprises 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 AWP's
National and Sub-National Guidelines	Guidelines for the provision of aggregates published in June 2009 to replace those which had existed since 2003
Recycled aggregates	Include aggregates derived from construction, demolition and excavation waste
Secondary aggregates	Include aggregates derived from industrial waste such as incinerator bottom ash and industrial and minerals by-products, notably waste from china clay, coal and slate extraction
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 years 2019 and 2020 and has been compiled by the East of England Aggregates Working Party (AWP).

2019 sales data have been taken from the final published version of the four yearly Aggregate Mineral Survey carried out by the British Geological Survey in 2019 (AMS 2019) meaning that a separate annual report was not prepared by the EEAWP for 2019. A copy of the AMS 2019 is available [here](#). Where different from the AMS 2019 data, locally obtained sales figures for 2019 are shown in brackets in Table 2.

2019 reserves data and all 2020 data (i.e. both sales and reserves) have been taken from survey returns made by operators to their respective mineral planning authorities. 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.

The National Planning Policy Framework requires mineral planning authorities to prepare an annual Local Aggregate Assessment (LAA) to forecast future demand for aggregates based on a rolling average of ten year sales data and other relevant local information, and an assessment of all supply options. It is intended that the information presented within this report assists mineral planning authorities in the preparation of their LAAs for submission to the National Co-ordinating Group to consider appropriate provision and inform decisions regarding the provision of aggregates in their mineral plans.

Based on the sub-national apportionment figures it is expected that the East of England makes provision for 14.75 million tonnes per annum (mtpa) of land-won sand and gravel and 0.5 mtpa of crushed rock. However, members of the AWP have become increasingly concerned that such figures are outdated and in need of updating in the very near future. The EEAWP has consequently opted for the sand and gravel provision in plans to be based upon the methodology set out in national policy and guidance. For this reason, data relating to the sub-national apportionment figures is not included within this report.

East of England Sand and Gravel and Crushed Rock Sales Figures (2019) (data taken from AMS 2019)

	Sales (Million Tonnes)	% change from 2018	3 year average sales 2017- 2019	% change from 2016- 2018	10 year average sales 2010- 2019	% change from 2009- 2018
Sand and Gravel	10.775	-12.9	11.937	-2.39	10.736	+1.03
Crushed Rock	0.104	-52.1	0.24	-32.8	0.333	-6.46

East of England Sand and Gravel and Crushed Rock Sales Figures (2020)

	Sales (Million Tonnes)	% change from 2019	3 year average sales 2018- 2020	% change from 2017- 2019	10 year average sales 2011- 2020	% change from 2010- 2019
Sand and Gravel	10.457	-2.95	11.201	-6.17	10.853	+1.09
Crushed Rock	0.149	+43.3	0.157	-34.6	0.325	-2.4

Sales of land-won sand and gravel in the East of England dropped 12.9% to 10.775mt in 2019 compared with 2018 and 2020 showed a further small drop to 10.457mt. The 12.67mt recorded in 2017 remains the largest annual sales in any of the preceding ten years. The three year average over 2017 - 2019 returned a figure of 11.9mt representing a small decrease of 2.4% compared with the three year average of 12.2mt recorded over the previous period of 2016 - 2018. The ten year sales average over 2010 - 2019 was 10.7mt representing a marginal increase of 1% over the ten year average figure of 10.6mt recorded over 2009 - 2018. The ten year sales average over 2011-2020 was up slightly on the 2010-2019 figure (10.853mt versus 10.736mt) whilst the three year average for 2018-2020 was down compared to 2017-2019 (11.201mt versus 11.937mt).

East of England Sand and Gravel and Crushed Rock Reserves and Landbank Figures (2019)

	Reserves (Million Tonnes)	% change from 2018	Landbank based on 10 year sales average	% change from 2018
Sand and Gravel	120.543	-0.45	11.23	-1.49
Crushed Rock	5.121	+19.2	15.36	+27.4

East of England Sand and Gravel and Crushed Rock Reserves and Landbank Figures (2020)

	Reserves (Million Tonnes)	% change from 2019	Landbank based on 10 year sales average	% change from 2019
Sand and Gravel	117.202	-2.77	10.8	-3.83
Crushed Rock	5.005	-2.27	15.4	0.26

At the end of 2019, reserves of land-won sand and gravel in the East of England stood at 120.5mt. By the end of 2020 they had fallen to 117.2mt. Applying the NPPF methodology based on a rolling average of 10 year sales indicates a landbank of 11.2 years at the end of 2019 and 10.8 years at the end of 2020. This compares to 11.4 years as at the end of 2018 and 12.0 years recorded as at the end of 2017. Using the 10 year average sales figures methodology as set out in the NPPF indicated that all MPAs 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 2020 (see Table 3 below). Hertfordshire's sand and gravel landbank at the end of 2020 was 6.5 years. This is discussed in paragraphs 7.30 and 7.31 below.

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. In 2019, this figure was reported in the AMS 2019 as being 0.104mt. If taken at face value, this figure represents a substantial fall of 52.1% from the sales figure of 0.217mt recorded in 2018 and an even greater fall from the sales of 0.399mt recorded in 2017 and 0.456mt recorded in 2016. Indeed, this figure represents the lowest annual sales figure of any of the preceding ten year period 2010 - 2019. However, it should be noted that, based on locally obtained survey data, the combined figure for crushed rock sales in the East of England in 2019 is approximately 0.26mt. It is suggested that the disparity in figures between those locally obtained and those published in the AMS 2019 could be the result of reporting issues whilst the general fluctuation in the sales figures for crushed rock between 2017 and 2020 is likely to be a consequence of the closure of a Peterborough quarry which ceased extraction in 2018 with a final return that includes sales for the year 2019. There has also been a change in ownership of two other quarries in that time. The Covid 19 pandemic may be a contributing factor, though industry has generally reported that the effects of the pandemic were not felt until the second quarter of 2020 once stay at home orders were introduced. In 2020, crushed rock sales were recorded as 0.149mt representing a 43% increase on the 2019 AMS figure but still the second lowest sales figure of the decade. This is despite the sales figure for crushed rock now including limestone from Cambridgeshire and Peterborough, Carstone from Norfolk and, since 2019, sandstone from Bedfordshire. The 2020 sales figure was lower than the 3 year average of 0.157mt and well below the 10 year average of 0.325mt.

In terms of landbanks of crushed rock, based on the rolling average of 10 year sales, a landbank of 15.4 years can be demonstrated in 2020 compared with 15.36 years in 2019, 12.1 years in 2018 and 11.6 years in 2017. This rising trend is a combined result of increased reserves since 2018 and falling annual sales, with the 10 year sales average for 2020 standing at 0.325mt compared with 0.333mt in 2019 and 0.356mt in 2018.

New planning permissions in the East of England were granted in respect of a total of 11.1mt of aggregate (sand and gravel) in 2020. As at the year end, the collective authorities had undetermined applications proposing a total of over 20mt of additional reserves. Of these, one in Hertfordshire for 3.52mt has a resolution to approve, subject to a section 106 agreement.

It once again proved difficult to capture accurate and full figures for secondary and recycled aggregates as well as marine aggregates.

Sales for both sand and gravel and crushed rock are below the levels of provision anticipated within the sub-national apportionment figures (10.46mt (actual 2020 sand and gravel sales) versus 14.75 mtpa (Guideline figure) and 0.15mt (actual 2020 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 2008 and 2019 only 75% of crushed rock permitted reserves were replenished and just 63% of sand and gravel reserves¹, a position which is unsustainable in the long run and which must be considered to be of concern. It should also be recognised that significant construction projects within the East of England may or may not come forward which could cause the current outlook to change rapidly. It is accordingly suggested that caution should 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.

¹ Data taken from MPA press release dated 1 December 2021.

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.

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 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 and reflecting the approach generally adopted by the region's mineral planning authorities, it should be noted that Hertfordshire has revised its annual provision rate and is now basing it on the ten year average sales figure plus an extra ten percent uplift, in order to provide flexibility and accommodate future growth. This is discussed further in section 7 below.

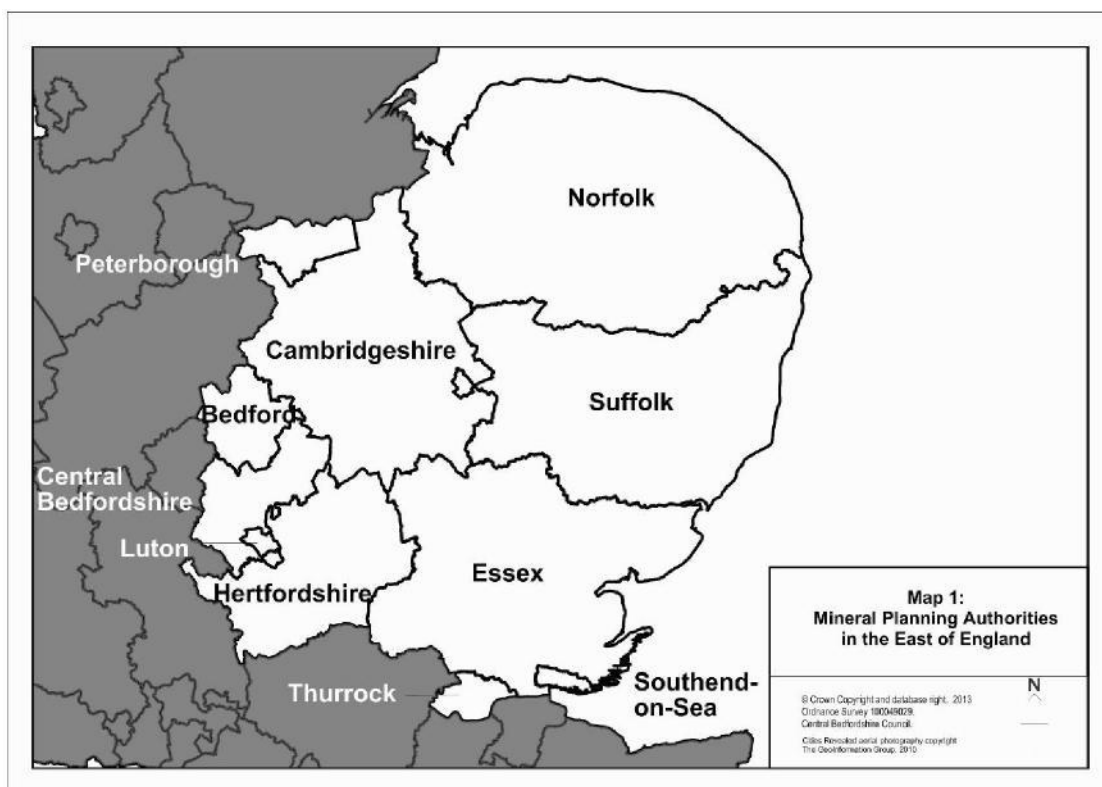
Dashboard Key Data Summary 2020

	2020 Sales (million tonnes)	Change (from 2019)	10-year Sales Average (mtpa)	3-year Sales Average (mtpa)	Change (from 2019)	Reserves (million tonnes)	Change (from 2019)	Landbank (based on 10-year Sales Average)	Change (from 2019)
All land-won sand and gravel	10.457	↓	10.853	11.201	↑↓	117.202	↓	10.8	↓
All crushed rock	0.149	↑	0.325	0.157	↓↓	5.005	↓	15.4	↑
Total primary aggregates	10.606	↓							

1. INTRODUCTION

Background

- 1.1 The Aggregates Working Parties² (AWPs) were established in the 1970s to collect and monitor data on aggregates provision as an aid to minerals planning. AWP 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. AWP are intended to feed regional views to the Government through the national forum, the National Co-ordinating Group (NCG), albeit that the NCG seldom meets, the last such meeting being held in October 2017 after a multi-year hiatus.
- 1.2 The AWP operate under contracts made between the Department for Levelling Up, Housing and Communities (formerly the Ministry of Housing, Communities and Local Government (MHCLG)) and the secretaries of the AWP.



² Aggregate Working Parties were previously known as Regional Aggregate Working Parties but this was changed to reflect national guidelines.

- 1.3 The East of England Aggregates Working Party (EEAWP) was established in 2001. It comprises the former East Anglia MPAs (Norfolk, Suffolk, Cambridgeshire and Peterborough) and MPAs from the former South East (Essex, Southend-on-Sea, Thurrock, Hertfordshire, Central Bedfordshire, Bedford Borough and Luton) as highlighted on Map 1.
- 1.4 The EEAWP is chaired by a senior officer from one of the member MPAs. The present Chair is Richard Greaves, Chief Planning Officer (County Planning and Major Development), Essex County Council. The AWP is also served by a Technical Secretary, the current incumbent of which is Julia Webberley of David Jarvis Associates Ltd. The membership of the EEAWP for 2021 is set out in Appendix 1. The EEAWP met on a number of occasions during 2019, 2020 and 2021 as shown in the table below, with a link to all the minutes. Note that some of these meetings were held remotely (on-line) because of Covid-19.

EEAWP Meeting Dates and Link to Minutes

Meeting Date	Link to All Minutes
October 2021	https://davidjarvis.biz/east-of-england-awp/
June 2021	
February 2021	
September 2020	
June 2020	
February 2020	
November 2019	
June 2019	
February 2019	

Government Guidance

National and Regional Guidelines for Aggregates Provision 2009

- 1.5 In June 2009, the National and Regional Guidelines for aggregates provision in England were revised (superseding those published in 2003). These stated that an estimated 236mt of land-won sand and gravel would need to be provided in the East of England during the 16 year period 2005 – 2020. This equates to 14.75mt per annum (mtpa), a reduction of 1.25 mtpa from the 2003 Guidelines. For crushed rock, 8mt was required over the same period, equating to 0.5mtpa.

A copy of the 2009 Guidelines is available to view on the [GOV.UK](https://www.gov.uk) website using the following link:

<https://www.gov.uk/government/publications/national-and-regional-guidelines-for-aggregates-provision-in-england-2005-to-2020>

- 1.6 The apportionment of the regional guidelines to sub-regional areas within the East of England was the responsibility of the Regional Planning Board (RPB), with advice from the East of England Aggregates Working Party including the relevant mineral planning authorities. The RPB was abolished in 2009.

- 1.7 Table 1 below sets out the average annual call on reserves of sand and gravel and crushed rock in the East of England as set out in the sub-regional apportionment.

Table 1: Average Annual Call on Reserves of sand and gravel and crushed rock in the East of England 2005-2020 as set out in the sub-regional apportionment

Sand and Gravel	Thousand Tonnes
Bedford / Central Bedfordshire / Luton	1,840
Cambridgeshire / Peterborough	2,880
Essex/ Southend-on-Sea / Thurrock	4,450
Hertfordshire	1,390
Norfolk	2,570
Suffolk	1,620
Total	14,750
Crushed Rock	
Cambridgeshire / Peterborough	300
Norfolk (Carstone)	200
Total	500

- 1.8 During a meeting in June 2016, members of the East of England AWP expressed concern that the 2005-2020 figures for sub-regional apportionment were becoming rapidly outdated and agreed that this issue be highlighted with the then Department for Communities and Local Government. Given that, at that time, the prospect of updated guidelines emerging in the foreseeable future appeared unlikely, the EEAWP Chairman, after discussion with the AWP members, highlighted the need for sand and gravel provision in plans to be based upon the methodology expressed in national policy and guidance (paragraph 213 of the National Planning Policy Framework and Planning Practice Guidance Minerals section paragraphs 61 – 71). More recently, the same concern was raised at the October 2017 meeting of the NCG. For the purposes of this Annual Monitoring Report, therefore, landbanks have not been calculated in respect of the current sub-regional apportionment figures. It is understood that DLUHC is preparing to undertake work on updating the sub-national apportionment figures and reference to these will be reintroduced in future versions of this report once updated figures have been published.

The National Planning Policy Framework

- 1.9 The National Planning Policy Framework (NPPF) came into force in March 2012 with a revised version being issued in July 2021. The NPPF is Government policy that reinforces a presumption in favour of sustainable development and seeks to facilitate the sustainable use of minerals. It recognises that it is important for there to be a sufficient supply of material to provide the infrastructure, buildings, energy and goods that the country needs. It also recognises that minerals are finite natural resources which can only be worked where they are found. It further requires that mineral resources are appropriately safeguarded from unnecessary sterilisation together with infrastructure associated with the bulk transport, handling and processing of minerals.
- 1.10 The NPPF (paragraph 213) requires mineral planning authorities to plan for a steady and adequate supply of aggregates by:
- a) preparing an annual Local Aggregate Assessment, either individually or jointly, to forecast future demand, based on a rolling average of 10 years' sales data and other relevant local

information, and an assessment of all supply options (including marine dredged, secondary and recycled sources);

- b) participating in the operation of an Aggregate Working Party and taking the advice of that Party into account when preparing their Local Aggregate Assessment;
- c) making provision for the land-won and other elements of their Local Aggregate Assessment in their mineral plans, taking account of the advice of the Aggregate Working Parties and the National Aggregate Co-ordinating Group as appropriate. Such provision should take the form of specific sites, preferred areas and/or areas of search and locational criteria as appropriate;
- d) taking account of any published National and Sub National Guidelines on future provision which should be used as a guideline when planning for the future demand for and supply of aggregates;
- e) using landbanks of aggregate minerals reserves principally as an indicator of the security of aggregate minerals supply, and to indicate the additional provision that needs to be made for new aggregate extraction and alternative supplies in mineral plans;
- f) maintaining landbanks of at least 7 years for sand and gravel and at least 10 years for crushed rock, whilst ensuring that the capacity of operations to supply a wide range of materials is not compromised³;
- g) ensuring that large landbanks bound up in very few sites do not stifle competition; and
- h) calculating and maintaining separate landbanks for any aggregate materials of a specific type or quality which have a distinct and separate market.

1.11 Planning Practice Guidance (Paragraph: 064 Reference ID: 27-064-20140306) states that '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'.

1.12 Paragraph 210(b) of the NPPF provides that planning policies should take account, as far as is practicable, of the contribution that substitute or secondary and recycled materials and minerals waste would make to the supply of materials, before considering extraction of primary materials, whilst aiming to source minerals supplies indigenously.

Guidance on the Managed Aggregate Supply System (MASS)

1.13 Guidance on the Managed Aggregate Supply System (2012) was cancelled and incorporated into the suite of Planning Practice Guidance launched in April 2014 as a web-based resource. Planning Practice Guidance still recognises the important role played by Aggregate Working Parties in delivering a steady and adequate supply of aggregates by producing fit for purpose and comprehensive data on aggregates covering specific geographical areas. The guidance also recognises the important role AWP's play in providing advice to individual mineral planning authorities and the NCG.

³ Longer periods may be appropriate to take account of the need to supply a range of types of aggregates, locations of permitted reserves relative to markets, and productive capacity of permitted sites.

2. AGGREGATE SALES, RESERVES AND LANDBANKS

- 2.1 Data on land-won aggregates and crushed rock reserves and sales together with information on recycled and secondary aggregates has been derived from both the Local Aggregate Assessments produced by the mineral planning authorities within the East of England, the annual survey returns and from the Environment Agency's Waste Interrogator. It should be noted that sales data pertaining to 2019 has been derived from the four yearly national survey undertaken by the British Geological Survey on behalf of DLUHC, although where different sales figures have been obtained via locally run surveys, these are also shown in brackets beneath the BGS figures in Table 2. However, reserves data for 2019 has been taken from annual survey returns as the national survey does not publish this at a sub-regional level.

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 the sub-national apportionment. A list of permitted aggregate extraction sites operational within the East of England by mineral planning authority area in 2020 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 have been 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.

Aggregate Sales

- 2.5 Table 2 below shows the three year sales for the period 2018 – 2020 in order to identify the general trend of demand as part of the overall assessment as to whether it may be appropriate to increase supply. A full list of sales data for the 10 year period from 2011 – 2020 is available in Appendix 3.

Table 2: Land-won Aggregate Sand and Gravel and Crushed Rock Sales 2017 – 2020⁴ (thousand tonnes)

Sand and Gravel	2018	2019⁵	2020	Average 2018-2020
Bedford, Central Bedfordshire and Luton	1,675	1,217	1,212	1,368
Cambridgeshire and Peterborough	3,199	3,211 (3,422)	2,823	3,078
Essex, Southend-on-Sea and Thurrock	3,559	2,936 (3,171)	2,962	3,152
Hertfordshire	1,207	1,245	1,123	1,192
Norfolk	1,511	1,280 (1,329)	1,312	1,368
Suffolk	1,221	886	1,025	1,044
East of England	12,372	10,775	10,457	11,201
Crushed rock	2018	2019	2020	Average 2018-2020
East of England⁶	217	104 (261)	149	157

Aggregate Reserves

2.6 Table 3 shows aggregate reserves within the East of England. Landbanks have been calculated based on the rolling average of 10 year sales. A full list of reserves data covering the period 2011 – 2020 is available in Appendix 4. A list of planning permissions granted, refused, withdrawn or undetermined in 2020 in each mineral planning authority area is set out in Appendix 5 and provides an indication of the reserves coming forward in each authority area.

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

⁵ 2019 sales data have been taken from the final published version of the four yearly Aggregate Mineral Survey carried out by the British Geological Survey in 2019 (AMS 2019). Where different, locally obtained sales figures are shown in brackets.

⁶ NB Until and including 2018, crushed rock sales for Cambridgeshire, Peterborough and Norfolk have been aggregated for confidentiality reasons comprising limestone from Cambridgeshire and Peterborough and Carstone from Norfolk. From 2019 onwards, crushed rock sales also include sandstone sold from within the Bedfordshire authority area.

Table 3: Land-won Aggregates: Reserves and Landbanks as at 31 Dec 2020

	Reserves (as at 31/12/20)	Average 10 year sales (2011-2020)	Landbank (years) based on rolling average 10 year sales
Sand and Gravel (thousand tonnes)			
Bedford, Central Bedfordshire and Luton	17,265	1,395	12.4
Cambridgeshire and Peterborough	36,057	2,588	13.9
Essex, Southend- on-Sea and Thurrock	33,589	3,238	10.4
Hertfordshire	7,684	1,186	6.5
Norfolk	14,511	1,374	10.6
Suffolk	8,096	1,071	7.6
East of England	117,202	10,853	10.8
Crushed Rock (thousand tonnes)			
Cambridgeshire and Peterborough limestone, Norfolk Carstone and Bedfordshire sandstone ⁷	5,005	325	15.4

⁷ Reserves of Crushed Rock within Cambridgeshire and Peterborough have been combined with those within Norfolk and Bedfordshire for reasons of confidentiality

3. NON-ENERGY MINERALS

- 3.1 DLUHC requires data on sales and reserves of non-energy minerals other than aggregate sand, gravel and crushed rock to be included within annual monitoring reports. This, it is assumed, only relates to minerals which potentially substitute for aggregate. In general terms, this is likely to comprise chalk, building stone and clay. For 2020, as for previous years, data in respect of non-energy minerals have only been supplied by Hertfordshire where such minerals other than crushed rock have been used for aggregate purposes within its area.
- 3.2 Normally, where there are a limited number of operators, data is combined to present a wider, sub-national picture. However, it has not been possible to do so in respect of the 2020 data provided given that Hertfordshire is the only MPA to have provided data on non-energy minerals based on returns from fewer than three operators. Accordingly, a request for confidentiality has been sought preventing the release of precise figures. In general terms, however, what can be relayed is that the end of year reserves of non-energy minerals have remained the same owing to sales during the year being of stockpiled material as opposed to of newly extracted minerals.

4. SECONDARY AND RECYCLED AGGREGATES

- 4.1 The revised NPPF (paragraph 210) specifically requires MPAs to take account of the contribution made by substitute or secondary and recycled materials and minerals waste before considering the extraction of primary materials whilst aiming to source minerals supplies indigenously.
- 4.2 Secondary aggregates are produced as a by-product of other mining or quarrying activities and may include china clay and slate waste. They can also be created as a by-product of industrial processes such as incinerator bottom ash, furnace bottom ash and fly ash.
- 4.3 Recycled aggregates comprise materials produced by the recycling of construction and demolition waste and 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.
- 4.4 Latest figures available from the Mineral Products Association⁸ indicate that a total of 176mt of primary aggregates were produced by industry in Great Britain in 2017 with an estimated further 72mt from recycled and secondary sources. The latter therefore contributed some 29% to the total aggregates supply in Great Britain. Of that 72mt, the vast bulk, 64.6mt, came from recycled sources whilst secondary sources contributed 7.4mt. The data available from the Mineral Products Association suggests that at the national level, whilst there has been a drop in the total of secondary sources in 2017 compared with 2015 and 2016, overall tonnages when combined with total recycled sources have seen an uplift over that period. This has generally risen steadily from a little over 10% in 1990.
- 4.5 Data compiled in 2017 would also indicate that the 29% of recycled and secondary materials achieved in Great Britain as a proportion of total aggregate sales in 2017 was superior to the share attained in other European countries⁹.
- 4.6 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.
- 4.7 As in previous years it has proved difficult to obtain accurate figures in respect of the volumes produced within the East of England.

Location of Recycling Facilities

- 4.8 The locations of authorised recycling facilities throughout the East of England are set out at Appendix 6.

⁸ 'The Contribution of Recycled and Secondary Materials to Total Aggregates Supply in Great Britain' – (Mineral Products Association 2017).

⁹ Source: Mineral Products Association.

5. IMPORTS AND EXPORTS BETWEEN AWP AREAS

5.1 DLUHC requires Annual Monitoring Reports to include data on imports and exports between Aggregate Working Party areas. This focuses on wharves and railhead facilities.

Imports

5.2 Collated returns of data for 2020 indicate that some 3.94mt of aggregate were imported into the East of England via aggregate rail depots and wharves, a figure not dissimilar from that reported in the 2018 annual report. However, it should be noted that there were a number of no-returns from operators meaning that the figure stated is likely to be an underestimate. Aggregate imported into the East of England were reported as coming from the following sources:

- East Midlands
- South West England
- South East England
- South Wales
- Scotland
- Outside UK incl. Greece, Norway and Ireland

5.3 The above sources would broadly appear to align with those identified in the inter-regional flows of aggregates as reported in publications by the Mineral Products Association¹⁰. The AMR is unable to specify the tonnages imported from each area for confidentiality reasons.

5.4 Insufficient data on the tonnage of aggregate exported from the East of England by wharves and rail depots in 2020 was received to be able to maintain commercial confidentiality so this is not reported here.

5.5 The locations of Rail Depots and Wharves within the East of England in 2020 are set out in Appendix 7.

¹⁰ 'Profile of the UK Mineral Products Industry' (Mineral Products Association 2020 Edition).

6. MAJOR CONSTRUCTION PROJECTS

6.1 DLUHC requires the Annual Monitoring Reports to include information on major construction projects within the East of England. 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 4 below identifies those construction projects that have been identified in the East of England as commencing or ongoing in 2020.

Table 4: Major Construction Projects in the East of England 2020

Mineral Planning Authority	Major Construction Projects
Bedford, Central Bedfordshire and Luton Borough	<ul style="list-style-type: none"> • A421 upgrade to dual carriageway (complete); • The Wixams, Bedford (on-going); new settlement of up to 4,500 new homes, employment and mixed uses; • Houghton Regis North (Site 1 on-going); a mixed use development comprising up to 5,150 new homes, employment, retail, leisure, new schools and infrastructure; • Houghton Regis North (Site 2 on-going); a mixed use development comprising up to 1,850 new homes, employment, retail, leisure, new schools and infrastructure; • Chamberlains Barn, Heath & Reach (on-going); a residential-led development comprising up to 950 new homes, local centre, lower school and link road; • Caddington Woods, Caddington (on-going); a residential development of 325 new homes including community facilities; • Rookery South Energy Recovery Facility, Stewartby (on-going).
Cambridgeshire and Peterborough	<ul style="list-style-type: none"> • A14 Improvement works (CCC) • Resurfacing of Orton Parkway (PCC) • Junction 18 works (completion in 2020) (PCC) • A605 Stanground highway works, design continuing in 2019, construction will start in 2020 (PCC) • A605 Alwalton highway works, design finished in 2019, construction will start in 2020 (PCC) • Kings Dyke Crossing scheme (commenced July 2020) (PCC) • Chisholm Trail (commenced late 2018) (PCC) • Fendon Rd Dutch roundabout (commenced 2019; completed 2020) (PCC)
Essex, Southend-on-Sea Thurrock	<ul style="list-style-type: none"> • Southend on Sea: Car Park at 27 Victoria Avenue, Southend on Sea SS2 6AL – project under construction to include 217 self-contained flats with commercial units (Use Classes A1, A2, A3 and A4) at ground floor level plus 172 parking spaces at ground and first floor car park and cycle storage to rear, install vehicular accesses on to Victoria Avenue, form

Mineral Planning Authority	Major Construction Projects
	<p>loading bays, alterations to highway, public realm alterations and associated landscaping (Amended proposal) approved 2 July 2019. (CIL Demand Notice issued 28/2/20 (development commenced on 2/12/19));</p> <ul style="list-style-type: none"> • Thurrock: A13 widening between junctions with A128 and A1014 (on-going); • London Gateway Port (on-going development of employment areas); and • Tilbury Port Expansion (Tilbury 2) (on-going); • Lower Thames Crossing led by National Highways as an NSIP, expected in 2027/28
Hertfordshire	<ul style="list-style-type: none"> • HS2 • A602 improvements from Stevenage to Ware • A120 Corridor Improvements • Land At Icknield Way, Tring (226 dwellings) • Land at Bishops Stortford North, Bishops Stortford (2,200 dwellings) • Land at Bishops Stortford South (BISH5) Off Whittington Way, Bishops Stortford (hybrid application: A full application for 142 dwellings and an outline application for 608 homes) • Hertswood School, Thrift Farm Lane, Borehamwood, WD6 1TS (301 residential units) • International University, The Avenue, Bushey (216 Dwellings) • Land Adjacent and To The East Of McDonalds Restaurant, Baldock Road, Royston, SG8 9NT (279 dwellings) • Oaklands College, Smallford Campus, St Albans, AL4 0JA (348 dwellings) • Land at Harperbury Hospital, Harper Lane Shenley, Radlett, WD7 9HH (206 dwellings) • Land to the south Of, Thomas Sawyer Way, Comprising The Waterside Area And Forming Part Of The Watford Riverwell Development (408 dwellings) • Land To The South of Thomas Sawyer Way comprising The Waterside Area and forming part of The Watford Riverwell Development (formerly known as Watford Health Campus, Watford (253 unit residential care community)
Norfolk	<ul style="list-style-type: none"> • North of the River Tud, Costessey: 1,650 residential units (on-going) • West of Lodge Farm, Costessey: 509 residential units (on-going) • Cringleford: up to 1,300 residential units (construction commenced in 2020) • North of Hethersett: 1,196 residential units (on-going) • South of Stoke Road, Poringland: 232 residential units (ongoing)

Mineral Planning Authority	Major Construction Projects
	<ul style="list-style-type: none"> • North of Shotesham Road, Poringland: 221 residential units (on-going) • Heath Farm, Poringland: up to 250 residential units (ongoing) • NW of Carpenter’s Barn/Beckett’s Grove, Wymondham: up to 350 residential units (ongoing) • Between the A11 Spink’s Lane & Norwich Road, Wymondham: 259 residential units (ongoing) • Land north of A11, Wymondham: up to 500 residential units (on-going) • Land between London Road and Sutton Lane, Wymondham: up to 375 residential units (construction commenced in 2020). • Royal Norwich Golf Club, Drayton High Road, Hellesdon, Norwich: up to 1,000 homes, primary school site, D1/D2 community use and associated car parking, open space plus off-site highway works (ongoing since 2018). • East of Holt Road, Horsford, Norwich: 259 residential dwellings, with associated Public Open Space, landscaping, highways & drainage infrastructure works (ongoing since 2019) • St Faiths Road, Old Catton, Norwich: 328 residential dwellings and associated infrastructure and landscaped public open space (ongoing since 2019) • Home Farm, Blue Boar Lane, Sprowston: 164 residential dwellings, office, retail, community facilities and Petrol Filling Station (ongoing since 2014) • White House Farm, Land at Blue Boar Lane, Sprowston: erection of up to 1233 dwellings including Link Road, Recreation Areas, Primary School, Open Space and other associated works (ongoing since 2015) • Land North of Carrow Quay, Kerrison Road, Norwich: 323 residential flats, car parking, commercial office space and community uses, access road and riverside walk (ongoing). • St Anne’s Wharf, King Street, Norwich: 437 residential units, 2128 sq m of A1, A2, A3 and D2 uses, carparking, riverside walkway, bridge over river and public open space (ongoing) • Three Score Site, Land South of Clover Hill Road, Norwich: 908 dwellings, care home, shops, associated roads and infrastructure (ongoing) • The Blackdale Building, Bluebell Road, Norwich: student accommodation for 915 bedrooms (equivalent to 366 dwellings) and community building (ongoing and Phase 1 completed) • Wheatcroft Farm, south of Bradwell, Great Yarmouth: 850 residential dwellings, commercial mixed use, local centre, primary school and open space (ongoing since 2014)

Mineral Planning Authority	Major Construction Projects
	<ul style="list-style-type: none"> • 'Site 25', Beacon Park, Bradwell, Great Yarmouth: 287 residential units (ongoing since 2019) • Great Yarmouth Tidal Defence Project (Epoch 2): refurbishment of 40 flood defence walls along Rivers Yare and Bure (ongoing since 2019). • North of Hempstead Road, Heath Farm, Holt: 212 residential dwellings (ongoing since 2017). • Land at Haverscroft Farm House, Attleborough: 200 dwellings with associated infrastructure (ongoing) • Land at London Road, Attleborough: 375 dwellings and employment development (ongoing) • Land north of Red House Norwich Road, Thetford, Croxton and Kilverstone: 343 residential dwellings as part of mixed use urban extension (ongoing) • Land at Greenfields Road, Dereham: 279 residential dwellings (ongoing) • Land north and south of Norwich Road, Swaffham: 350 residential dwellings (ongoing) • Land to west of Watton Road, Swaffham and Swans Nest site, Swaffham: 272 dwellings (ongoing) • The Nar Ouse Regeneration Area (NORA), Wisbech Road, King's Lynn: 413 residential dwellings and associated infrastructure (across 4 planning permissions) (ongoing) • New siding for King's Lynn train station (completed 2020 by Network Rail)
Suffolk	n/a

7. MAJOR TRENDS AND EVENTS

East of England

- 7.1 Sales of sand and gravel in the East of England during 2020 totalled 10.46mt compared with 10.78mt in 2019 and 12.37mt in 2018. Although 2020's total is circa 17% lower than the decade's highest figure of 12.7mt reached in 2016 and reflects a declining trajectory since then, it is still very close to the ten year average for sales between 2011 and 2020 (10.46mt versus 10.85mt). It is also an encouraging figure against the backdrop of the Covid 19 pandemic, the impact of which began to be felt by the industry from the second quarter of 2020 once stay at home orders were introduced.
- 7.2 Permitted reserves of sand and gravel within the East of England at the end of 2020 stood at 117.2mt compared with 120.5mt at the end of 2019 and 121.1mt at the end of 2018. This reflects a steady 22% decline from the start of the decade when reserves stood at 150.7mt (2011) and, whilst the 2020 figure is still relatively close to the three year average (2018-2020) of 119.6mt, it is significantly below the ten year average (2011-2020) of 134.2mt. The decline in the East of England's sand and gravel reserves is reflective of the nationwide trend that between 2008 and 2019 only 75% of crushed rock permitted reserves were replenished and just 63% of sand and gravel reserves¹¹, a position which is unsustainable in the long run and which must be considered to be of concern.
- 7.3 The distribution of permitted sand and gravel reserves amongst the mineral planning authorities within the East of England is detailed in Appendix 4. Cambridgeshire and Peterborough continued to retain the largest proportion of reserves within the East of England with just under 31%, with the second largest proportion being held by Essex, Southend-on-Sea and Thurrock (c. 29%).
- 7.4 New planning permissions in the East of England were granted in respect of a total of 11.1mt of aggregate (sand and gravel) in 2020. As at the year end, the collective authorities had undetermined applications proposing a total of over 20mt of additional reserves. Of these, one in Hertfordshire for 3.52mt has a resolution to approve, subject to a section 106 agreement.
- 7.5 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 2020 within the East of England totalled 0.149mt representing a significant fall of 31% on the 0.22mt recorded in 2018, but an increase of 43% on the figure reported within the AMS 2019 of just 0.10mt sold in 2019. However, it should be noted that, based on locally obtained survey data, the combined figure for crushed rock sales in the East of England in 2019 is approximately 0.26mt. It is suggested that the disparity in figures between those locally obtained and those published in the AMS 2019 could be the result of reporting issues whilst the general fluctuation in the sales figures for crushed rock between 2017 and 2020 is likely to be a consequence of the closure of a Peterborough quarry which ceased extraction in 2018 with a final return that includes sales for the year 2019. There has also been a change in ownership of two other quarries in that time. The Covid 19 pandemic may be a contributing factor, though, as noted above, industry has generally reported that the effects of the pandemic were not felt until the second quarter of 2020 once stay at home orders were introduced. In any event, 2020 crushed rock sales are well below the three year and ten year sales averages of 0.157mt and 0.325mt respectively.
- 7.6 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 2020 was 10.8 years compared with 11.2 years at the end of 2019, 11.4 years at the end of 2018 and 12 years at the end of 2017. Based on the 10 year average sales figure methodology, as shown in Table 3, all mineral

¹¹ Data taken from MPA press release dated 1 December 2021.

planning authority areas within the East of England except Hertfordshire could demonstrate landbanks in excess of the seven year threshold as at the end of 2020. Hertfordshire's landbank at the end of 2020 was 6.5 years whilst Suffolk's was only just above the 7 year threshold coming in at 7.6 years. This is discussed further below.

- 7.7 In terms of crushed rock, based on the rolling average of 10 year sales, a landbank of 15.4 years can be demonstrated compared with 15.36 years in 2019, 12.1 years in 2018 and 11.6 years in 2017. This rising trend is a combined result of increased reserves since 2018 and falling annual sales, with the 10 year sales average for 2020 standing at 0.325mt compared with 0.333mt in 2019 and 0.356mt in 2018.
- 7.8 Whilst the National and Sub-national Guidelines are now considered to be out of date, it is still worth noting that sales of both sand and gravel and crushed rock within the East of England are below the levels of provision anticipated within the sub-national apportionment figures (10.46mt (actual 2020 sand and gravel sales) versus 14.75 mtpa (Guideline figure) and 0.15mt (actual 2020 crushed rock sales) versus 0.5 mtpa (Guideline figure)). **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 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.**
- 7.9 Further, it is 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 2008 and 2019 only 75% of crushed rock permitted reserves were replenished and just 63% of sand and gravel reserves¹², a position which is unsustainable in the long run and which must be considered to be of concern. It should also be recognised that significant construction projects within the East of England may or may not come forward which could cause the current outlook to change rapidly. It is accordingly suggested that caution should be exercised when assessing the current 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.
- 7.10 Finally, it should 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

- 7.11 Sales of aggregate sand and gravel for Bedford, Central Bedfordshire and Luton in 2020 stood at 1.21mt compared with 1.22mt in 2019 and 1.68mt in 2018. The level of sales during 2018 remains the second highest level of annual sales recorded within the area over the ten year period 2011 – 2020. The Bedfordshire authorities accounted for 11.6% of sand and gravel sales within the East of England in 2020 dropping slightly from the 13% recorded in 2018. The ten year sales average (2011-2020) in the area stood at 1.4mt representing a small increase from the ten year average of 1.35mt recorded over the period 2009 – 2018 and being equal to the 1.4mt average over the period 2010-2019. It is notable that sales in the last two years have dropped back to levels seen more towards the start of the ten year period (2011-2013). However, it should be borne in mind that sales in 2019 and particularly in 2020 took place during the height of the Covid 19 pandemic so it will be interesting to see how far sales bounce back in 2021.
- 7.12 Reserves of sand and gravel in the area at the end of 2020 amounted to 17.27mt representing an 8.7% increase in reserves since the start of the year when they stood at 16.2mt. Several reasons are

¹² Data taken from MPA press release dated 1 December 2021.

given for this apparent anomaly to assist in explaining why the end of year reserves do not equate to subtracting 2020 sales from the 2019 end of year reserves' figure whilst adjusting for permissions granted in 2020, as follows: i) the 2019 end of year reserves' figure included estimates at several sites; ii) several sites contain reserves of silica sand which can supply both aggregate and non-aggregate markets - in these cases, an arbitrary 50% proportion of permitted reserves has been taken to reflect this; and iii) several sites have reported reserve recalculations.

- 7.13 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 12.4 years for land-won sand and gravel. This compares to a landbank of 11.8 at the end of 2019 and 11.3 years at the end of 2018 and remains comfortably in excess of the minimum 7 year supply referred to in the NPPF. With reference to the longer term trend (Appendix 4), 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.
- 7.14 Additional sand and gravel reserves were permitted at Broom South Quarry during 2020 (though subject to a section 106 agreement). This was a consolidating application including a northern extension to an allocated site and involved a total of 8.2mt, of which 4mt relates to new sand and gravel reserves.
- 7.15 For the first time, 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 at paragraphs 7.21-7.23 below.
- 7.16 Finally, in terms of aggregate recycling, an application for the construction of a new building and an extension to an existing building for waste processing and storage was permitted at Cow Close. Whilst this permission increased the site's waste handling ability, its maximum throughput remains at 49,000tpa linked to permit requirements.

Cambridgeshire and Peterborough

- 7.17 Sand and gravel sales during 2020 in Cambridgeshire and Peterborough totalled 2.8mt representing a decrease of 12.5% from the sales figure of 3.2mt recorded in both 2019 and 2018 and a drop compared with the three year average (2018-2020) of 3.1mt although it exceeded the ten year average for 2011-2020 which was 2.6mt. Again, however, this needs to be viewed against the backdrop of the Covid 19 pandemic. Sales in the area during 2020 accounted for 27% of sales within the East of England.
- 7.18 Reserves of aggregate sand and gravel in Cambridgeshire and Peterborough as at the end of 2020 stood at 36.1mt representing quite a decrease (7.7%) compared with the reserves figure at the end of 2019 (39.2mt), itself a decrease on the reserves figure of 41.8mt recorded at the close of 2018. The 2020 reserves figures equates to approximately a 31% proportion of sand and gravel reserves within the East of England.
- 7.19 The 2020 figure is the lowest recorded over the ten year period 2011-2020 and, indeed, is significantly below both the three year average (2018-2020) of 39.0mt and the ten year average (2011 - 2020) of 43.3mt. It is noted that reassessment of reserves occurred at two sites, with one showing an increase and the other a decrease. Additional reserves of only 430,000t were permitted at one site during the year (at Witcham Meadlands Quarry) and no planning applications were outstanding at the end of the year.

- 7.20 Adopting the NPPF approach of applying the rolling average of ten year sales and based on the reserves figure of 36.057mt indicates a landbank for the area of 13.9 years, 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.
- 7.21 Whilst the permission granted at Witcham Meadlands Quarry was the only permission which resulted in additional reserves, several other permissions were granted during the year for, variously, importation of inert waste, extensions of time and restoration of quarry workings. A planning application was withdrawn for use of land for waste management.
- 7.22 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.
- 7.23 The combined sales of crushed rock during 2020 totalled just 0.149mt representing a substantial reduction of over 31% from the sales of 0.217mt recorded in 2018. However, this figure represented an increase of over 43% above the volume of sales for 2019 which was recorded in the AMS 2019 as just 0.1mt and was the lowest level of sales recorded throughout the ten year period 2011 – 2020. However, it should be noted that, based on locally obtained survey data, the combined figure for crushed rock sales in the East of England in 2019 is approximately 0.26mt. It is suggested that the disparity in figures between those locally obtained and those published in the AMS 2019 could be the result of reporting issues whilst the general fluctuation in the sales figures for crushed rock between 2017 and 2020 is likely to be a consequence of the closure of a Peterborough quarry which ceased extraction in 2018 with a final return that includes sales for the year 2019. There has also been a change in ownership of two other quarries in that time. The Covid 19 pandemic may be a contributing factor, though industry has generally reported that the effects of the pandemic were not felt until the second quarter of 2020 once stay at home orders were introduced. The 2020 sales figure was the second lowest figure of the decade and was lower than the 3 year average of 0.157mt and well below the 10 year average of 0.325mt.
- 7.24 Reserves of crushed rock as at the end of 2020, again combined with reserves within Norfolk and Bedfordshire, stood at 5.0mt representing an increase of 16.5% from the reserves figure of 4.3mt recorded at the end of 2018 and a slight drop from the total of 5.1mt recorded at the end of 2019. Applying the rolling average of ten year sales indicates a combined landbank of 15.4 years at the end of 2020, an increase from the landbank of 12.1 years at the end of 2018 and 15.36 years recorded at the end of 2019.

Essex, Southend-on-Sea and Thurrock

- 7.25 Data received on behalf of Greater Essex, comprising Essex, Southend-on-Sea and Thurrock, refer to over 40 quarries, wharves and rail transshipment sites with a 96% response rate across those surveyed.
- 7.26 Sales of sand and gravel in 2020 for the Greater Essex area stood at 3.0mt, moreorless on a par with 2019 sales which were reported in the AMS 2019 as 2.9mt, but a reduction from the sales of 3.6mt recorded in 2018 and lower than both the three year average (2018-2020) and the ten year average (2011-2020) both of which were 3.2mt. The 2019 and 2020 sales figures are at a similar level to those seen at the start of the ten year period but, as before, should be read against the backdrop of the Covid 19 pandemic. Sales of sand and gravel within Greater Essex in 2020 accounted for 28% of those recorded within the East of England.

- 7.27 As shown in Table 2, there is a disparity between the sales figures for 2019 presented in the national AMS 2019 and those obtained via local survey (2.94mt versus 3.17mt). Owing to the commercial confidentiality of both datasets and the need for survey returns to be deleted once they have been amalgamated for the regional survey, there is limited opportunity for comparison between the data. However, internal review within Greater Essex has concluded that the larger reserve figure (3.17mt presented by the regional survey) is considered to be more accurate as it was informed by a greater number of survey returns than the national survey. Nonetheless, this should still be acknowledged as an under-representation of the full sales data owing to the fact that some sites responded to the national survey and not to the regional one. The option to estimate a higher value to try to include any responses received by the national survey has been ruled out as there is not enough primary data available (owing to commercial confidentiality) to make a robust estimation.
- 7.28 Sand and gravel reserves within Greater Essex as at the end of 2020 stood at 33.6mt, a healthy increase on the figure recorded at the end of 2018 of 30.0mt and above the 3 year (2018-2020) average of 32.2mt and the ten year average (2011-2020) of 33.3mt. This uplift stems from permission being granted at two sites during 2020 which released a combined total of 4mt of sand and gravel (see below), as well as from the fact that two sites which had not previously responded to data requests were able to provide a response for 2020 whilst a number of other sites have taken the opportunity to re-assess their permitted reserves. This reassessment would also go towards explaining the half a million tonne disparity between subtracting the 2020 sales figure from the 2019 reserves figure whilst factoring in the 4mt of permitted additional reserves.
- 7.29 The reserves figure of 33.6mt equates to 29% of reserves within the East of England. Applying the approach set out in the NPPF, reserves of sand and gravel as at the end of 2020 indicate a landbank of 10.4 years representing a small increase in the landbank of 10.2 years at the end of 2019 and 9.3 years recorded at the end of 2018.
- 7.30 As stated above, two permissions were granted within the Greater Essex region which resulted in a combined total of 4mt of sand and gravel being added to the reserves figure. The first of these was an extension to the existing Wivenhoe Quarry including the erection of a sand and gravel processing plant and ancillary facilities allowing for the extraction of 3.8mt of sand and gravel. The second was for the extraction of 0.2mt of sand and gravel at Medina Farm in Thurrock. At the end of 2020, a number of other planning applications remained pending which, if granted, would release an additional 9.5mt of sand and gravel.
- 7.31 Two further applications were granted during the year involving aggregate recycling; the first of these related to importation of inert material, installation and use of recycling plant to produce secondary aggregate and to facilitate restoration of the site at Newport Chalk Quarry (200,000t over seven years) whilst the second was for a variation of condition to continue importation of material for recycling or infilling void spaces at Rainbow Shaw Quarry until March 2025.

Hertfordshire

- 7.32 Sales of sand and gravel in Hertfordshire during 2020 totalled 1.12mt compared with 1.25mt in 2019 and 1.21mt in 2018. The 2020 sales figure is slightly down compared with both the 3 year (2018-2020) and 10 year (2011-2020) average sales figures of 1.19mt but this may be a direct result of the Covid-19 pandemic. Sales of sand and gravel in Hertfordshire during 2020 accounted for 11% of the total sales within the East of England.
- 7.33 Reserves of sand and gravel in Hertfordshire at the end of 2020 stood at 7.68mt compared with 8.95mt in 2019 and 10.06mt in 2018. This is the lowest figure recorded but is subject 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.

Once permission has been granted, and subject to continuing interim sales which will diminish existing reserves, reserves are likely to be increased to levels more like those recorded in 2016/2017. As a result of the 2020 drop in reserves, the 3 year average (2018-2020) dropped to 8.9mt whilst the 10 year average (2011-2020) dropped to 12.5mt. Reserves in Hertfordshire at the end of 2020 accounted for just 6.6% of the total reserves within the East of England.

- 7.34 The landbank for sand and gravel in Hertfordshire at the end of 2020 stood at just 6.48 years when based on the 10 year sales average (7.684/1.186) which is less than the minimum threshold of 7 years set out in the NPPF. However, if reserves can be boosted back up to approximately 11.2mt (subject to continuing interim sales) by successful completion of a section 106 agreement in relation to the land at Coopers Green Lane then, based on the 10 year sales average for 2020, this would increase the landbank to circa 9.4 years (11.2/1.186).
- 7.35 In any event, it should be noted that Hertfordshire is aware of its decreasing landbank and is addressing the shortfall in supply of sand and gravel via a review of its Minerals Local Plan. Hertfordshire has recently revised its annual provision rate for sand and gravel and is now basing it on the ten year average sales figure plus an extra ten percent uplift. This gives an annual provision rate of 1.31mtpa. Based on this provision rate, the landbank falls even further to just 5.9 years (7.684/1.31). The annual provision rate aims to provide flexibility and accommodate future growth by taking account of anticipated higher levels of demand for sand and gravel.
- 7.36 Besides the Coopers Green Lane application referred to above, two further applications within Hertfordshire were of note in 2020. The first was an application for the establishment of a new quarry on land at the former Hatfield aerodrome, including a new access onto the A1057, aggregate processing plant, concrete batching plant and other ancillary facilities, together with the importation of inert fill materials for the restoration of the minerals working. The application was refused by Hertfordshire County Council on 24 September 2020. On 30 June 2021, the applicant submitted an appeal to the Secretary of State against the decision of Hertfordshire County Council to refuse planning permission. The appeal will be determined on the basis of a public inquiry which is set to take place in November 2021. If the application receives approval, it will add an additional reserve of 8mt of sand and gravel. A second application for an eastern extension at Rickneys Quarry to delay the date of commencement of development was undetermined.
- 7.37 The collated return received from Hertfordshire included data in respect of non-energy minerals. It has not, however, been possible to include that data in this annual monitoring report given that returns in respect of non-energy minerals were only received from Hertfordshire where the number of operators is limited and accordingly confidentiality has been sought. In general terms, however, reserves at the start and end of 2020 remained the same because the site was selling stockpiled material rather than extracting new material.

Norfolk

- 7.38 Sand and gravel sales in Norfolk dropped from 1.51mt in 2018 to 1.28mt in 2019 before rising slightly in 2020 to 1.31mt. The 2020 sales are slightly lower than both the 3 year (2018-2020) and 10 year (2011-2020) sales averages which are both equal to 1.37mt. The 2020 sales in Norfolk accounted for 12.5% of those recorded within the East of England.
- 7.39 The level of sand and gravel reserves for Norfolk as at the end of 2020 stood at 14.5mt, being an increase on both 2019 (13.5mt) and 2018 (13.3mt). Norfolk's reserves as at the end of 2020 equate to 12% of the total reserves within the East of England. The 2020 reserves figure lies in between the 3 year average recorded between 2018 – 2020 of 13.8mt and the 10 year average recorded between 2011 – 2020 of 15mt.

- 7.40 Norfolk's landbank for sand and gravel as at the end of 2020 stood at 10.6 years based on a rolling average of 10 years' sales (14,511/1374) representing an increase from the 2018 figure of 9.7 years.
- 7.41 The collated return from Norfolk County Council indicates that two planning permissions were granted during 2020 which resulted in a combined increase in sand and gravel reserves of 2.67mt. These related respectively to a permission granted in relation to Beeston Regis Quarry for the extraction of 1.0 million tonnes of sand and gravel as an eastern extension to the existing quarry with restoration to nature conservation habitat and Earsham Quarry for the extraction of 1.67mt of sand and gravel from three separate extension areas with restoration to nature conservation after use. A number of other applications relating to sand and gravel sites with the potential to release approximately 6.5mt of reserves remained undetermined at the end of the year. One permission was also granted in respect of a C,D and E waste transfer site with capacity for 5,000tpa.
- 7.42 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. This is discussed further in paragraph 7.23 above. Whilst it cannot be individually reported, it is understood that the ten year Carstone average sales figure for Norfolk has been continually falling over the past decade. The production of Carstone is concentrated into relatively few workings and production levels vary each year depending on individual construction projects.
- 7.43 Crushed rock reserves as at the end of 2020 stood at 5.0mt, again combined for the purposes of confidentiality. This figure represents a small fall from the reserves figure of 5.12mt recorded at the end of the previous year but both the 2019 and 2020 figures represent a reasonable increase on the 2018 figure of 4.3mt. Applying the rolling average of ten year sales produces a combined landbank of 15.4 years as at the end of 2020 which increases substantially to 31.9 years when based on the three year sales average (5,005/157). No new planning applications for Carstone extraction were received in 2020 and no new permissions were granted.

Suffolk

- 7.44 Sales of sand and gravel during 2020 in Suffolk were recorded as 1.025mt compared with 0.886mt in 2019. Sand and gravel sales have been fairly consistent over the past ten years generally sitting around the 1mt level with dips in 2015 and 2019 down to circa 0.8mt and highs in 2016, 2017 and 2018 around the 1.2mt level. The three and ten year averages reflect the consistent sales level with figures of 1.044mt and 1.071mt respectively.
- 7.45 Sales of sand and gravel in Suffolk during 2020 accounted for 9.8% of the total sold within the East of England thereby achieving a similar proportion of sales to those recorded in 2017 and 2018 and a slight increase on the 8% recorded in 2019.
- 7.46 In terms of reserves of sand and gravel in the area, these were recorded as being 8.096mt at the end of 2020. Whilst they reflect a steady decline in reserves since 2013, Suffolk has indicated that this is likely to be an underestimate as two sites did not provide responses. This level of reserves translates to a landbank figure of 7.6 years using the NPPF methodology marking a continued reduction from the landbanks recorded in preceding years. No planning permissions were granted for additional sand and gravel reserves during 2020; nor were there any undetermined applications involving potentially additional reserves as at the end of 2020. Suffolk will need to be mindful of its decreasing landbank as it approaches the minimum threshold of 7 years set out in the NPPF.
- 7.47 As within all MPA areas, particular development projects may or may not come forward; however particular attention should be drawn to the proposals for Sizewell C nuclear power station in Suffolk which was subject to a recent announcement concerning a new funding mechanism by the Business

and Energy Secretary, Kwasi Kwarteng (October 2021). It should be recognised that in the event of that project proceeding, it is likely to have a rapid and significant impact on the complexion of aggregate reserves.

Appendix 1: Membership of the East of England Aggregates Working Party in 2021

Chairman	
Richard Greaves	Essex County Council
Secretariat	
Julia Webberley	David Jarvis Associates Ltd
Mineral Planning Authority Representatives	
Emma Fitch	Cambridgeshire County Council
Roy Romans / Jerry Smith	Bedford Borough, Central Beds & Luton Borough Councils
Philip Dash	Essex County Council
Emma Chapman / Christopher Stanek	Hertfordshire County Council
Alan Jones	Peterborough City Council
Caroline Jeffery / Richard Drake	Norfolk County Council
Richard Hatter	Thurrock Borough Council
Claire Victory	Southend-on-Sea Borough Council
Graham Gunby / Cameron Clow	Suffolk County Council
Minerals Industry Representatives	
Kirsten Hannaford-Hill	Aggregates Industries
Angela Watts	Brett Aggregates Ltd
Peter Huxtable	British Aggregates Association (BAA)
Shaun Denny	Breedon Group
Simon Smith	Longwater Gravel
Mark Page	Hanson UK
Peter Lemon	Middaggs
Mark North	Mineral Products Association (MPA)
Alan Everard	Tarmac
Thomas Forbes Cox	Cemex
Other Representatives	
Nick Everington	The Crown Estate
Corinna Dietz	Marine Management Organisation
Aimee Smith / Vineeta Sharma	DLUHC

Appendix 2: Permitted Aggregate Extraction Sites in 2020

Site Name	Grid reference	Site Operator
Bedford Borough, Central Bedfordshire and Luton		
Checkleywood Quarry, Heath and Reach (sand)	SP 936 294	Aggregate Industries UK Ltd
Churchways Quarry, Heath and Reach (sand)	SP 936 294	Aggregate Industries UK Ltd
Grovebury Quarry, Leighton Buzzard (sand – dredging site)	SP 924 238	Aggregate Industries UK Ltd
Mundays Hill Quarry, Heath and Reach (sand)	SP 940 282	Aggregate Industries UK Ltd
Black Cat Quarry, Great North Road, Chawston (sand and gravel)	TL 161 553	Breedon Group
Potton/Myers Farm, Potton Road, Everton (sand)	TL 225 503	Breedon Group
Land either side of Willington Lock, St Neots Road (sand and gravel)	TL 123 504	Breedon Group
Simpsonhill Plantation, Bedford Road, Clophill (sand)	TL 082 372	Forterra
Bryants Lane Quarry, Heath and Reach (sand)	SP 929 288	M O'Brien (T/A LB Silica Sand)
Broom South Quarry (sand and gravel)	TL 173 416	Tarmac
Sandy Heath, Quarry, Potton Road, Sandy (sand)	TL 200 494	Tarmac
Fox Corner Quarry, Heath and Reach (sand)	SP 927 292	DB Standing & Son
Cainhoe Quarry, Clophill (sand)	TL 101 374	Thomas Bros
Cambridgeshire and Peterborough		
Cook's Hole Quarry (sand and gravel and crushed rock)	505230 299746	Mick George Ltd
Eyebury Quarry (Tanholt Farm) (sand and gravel)	523266 301604	Cemex UK Materials Ltd
Maxey Quarry (sand and gravel)	512783 307464	Tarmac Ltd
Must Farm (sand and gravel and brickclay)	522365 297140	Hanson Aggregates
Pasture House Farm, The Causeway, Thorney (sand and gravel and inert recycling)	525175 303553	Land Logical Ltd
Pode Hole Quarry (sand and gravel)	526174 303276	Aggregate Industries UK Ltd
Willow Hall Farm, Thorney (sand and gravel)	524628 301941	PJ Thory
Thornhaugh IIB, Peterborough (crushed rock)	505500 299500	Bullimores
Dimmock's Cote Quarry (crushed rock)	554480 272390	LKAB

Site Name	Grid reference	Site Operator
Little Paxton Quarry (sand and gravel)	520000 264200	Aggregate Industries UK Ltd
Gravel Diggers Farm (Cottenham/Waterbeach) Cambs (sand and gravel)	548750 270269	Frimstone (Mick George Ltd)
Sutton Gault (aka Mepal Reservoirs) (sand and gravel)	541650 282090	Frimstone (Mick George Ltd)
Block Fen Quarry (sand and gravel)	542900 283260	Hanson Aggregates
Needingworth Quarry (sand and gravel)	538740 273010	Hanson UK
Marsh Lane (sand and gravel)	531500 269460	Land Logical / Logical Concrete
Colne Fen, Earith (sand and gravel)	538380 277200	Mick George Ltd
Kennett (sand and gravel)	569000 268760	Mick George Ltd
Lyons Farm (sand and gravel)	542600 290700	Mick George Ltd
Stibbington Marina (sand and gravel)	509721 297670	Mick George Ltd
Block Fen Quarry II (sand and gravel)	542500 284000	Tarmac
Must Farm Quarry (part) (sand and gravel)	523600 296000	Forterra
Bridge Farm Reservoir, Holme Fen Drove (sand and gravel)	539800 276895	Mick George Ltd
Mitchell Hill Farm North, Waterbeach (sand and gravel)	547786 269885	Mick George Ltd
Essex, Southend-on-Sea and Thurrock		
Mill House Farm, Chadwell St Mary (sand and gravel)	TQ 565 180	Ingrebourne Valley
Orsett Quarry, Stanford-le- Hope (sand and gravel - Thanet sand)	TQ 677 807	Ingrebourne Valley
Dansand Quarry, Orsett (sand and gravel)	TQ 650 810	Rio Aggregates
East Tilbury Quarry (sand and gravel)	TQ 687 787	S Walsh & Sons
Medina Farm, South Ockendon	TQ 574 838	Ingrebourne Valley
Alresford Creek, Alresford (sand and gravel)	TM 063 200	Brett Aggregates
Asheldham Quarry, Southminster (sand and gravel)	TL 973 014	G & B Finch Ltd
Birch Quarry, Birch (sand and gravel)	TL 927 193	Hanson Aggregates
Blackley Quarry, Great Leighs (sand and gravel)	TL 728 191	Frank Lyons Plant Services Ltd

Site Name	Grid reference	Site Operator
Bradwell Quarry, Silver End (sand and gravel)	TL 819 217	Blackwater Aggregates
Brightlingsea Quarry (sand and gravel)	TM 070 188	Brett Aggregates
Bulls Lodge Quarry, Boreham (sand and gravel)	TL 746 108	Hanson Aggregates
Cobbs Farm, Goldhanger (sand and gravel)	TL 893 085	SRC Ltd
Colchester Quarry (aka Stanway Quarry) (sand and gravel)	TL 954 227	Tarmac Ltd
Coleman's Quarry, Witham (sand and gravel)	TL 838 156	Brice Aggregates
Crown Quarry, Ardleigh (sand and gravel)	TM 025 295	SRC Ltd
Crumps Farm, Gt Canfield (sand and gravel)	TL 584 211	Edviron Ltd
Curry Farm, Bradwell-on-Sea (sand and gravel)	TL 993 059	Dewicks
Highwood Quarry, Little Easton (sand and gravel)	TL 598 224	SRC Ltd
Lufkins Farm, Thorrington Road (sand and gravel)	X-609625.1 Y-222106.3	Brett Aggregates
Royal Oak, Danbury (sand and gravel)	TL 805 050	Danbury Aggregates
St Cleres Pit, Danbury (sand and gravel)	TL 763 058	Danbury Aggregates
Wivenhoe Quarry, Wivenhoe (sand and gravel)	X-605695 Y-222598	Tarmac Ltd
Martell's Quarry, Ardleigh (sand and gravel incl. Silica sand)	TM 049 283	SRC Ltd
Rivenhall Airfield (Waste Facility) (sand and gravel)	X-581819 Y-221749	Gent Fairhead & Co Ltd
Elmstead Hall (AKA Elmstead Reservoir) (sand and gravel)	X-605769 Y-225753	R W Mitchell & Sons
Sheepcotes (sand and gravel)	X-571862 Y-213954	SRC Ltd
Rayne Quarry (sand and gravel)	X-570950 Y-223099	Tarmac
Fingringhoe Quarry, Fingringhoe (sand and gravel)	TM 042 210	JJ Prior Ltd
Hertfordshire		
Braziers ¹³	534000 215300	Frank Lyons Services Group
Hatfield Quarry – Symondshyde (sand and gravel) and Furze Field extension area	520450 210500	Cemex UK Ltd
Panshanger ¹⁴	527970 212043	Tarmac Ltd / BP Mitchell Haulage Ltd
Thornley Hall Farm Quarry (sand and gravel)	548257 218294	Ingrebourne Valley Ltd

¹³ Was worked for sand and gravel. Now being restored with C, D and E waste.

¹⁴ Was worked for sand and gravel and is now being infilled with C, D and E waste.

Site Name	Grid reference	Site Operator
Tyttenhanger Quarry (sand and gravel)	519954 203231	Tarmac Ltd
Waterhall Complex Hertford ¹⁵	529825 209792	Waterhall (England) Ltd / Frank Lyons
Westmill Quarry / Landfill ¹⁶	533929 215923	Biffa Waste Services Ltd
Norfolk		
Holt Quarry, Hunworth Road, Holt (sand and gravel)	607021 337136	Breedon Trading Ltd
Punch Farm Quarry, Litcham (sand and gravel)	5899, 3167	East Anglian Stone Ltd
Crimplesham Quarry, Ashcraft Farm, Main Road, Crimbleham (sand and gravel)	5667, 3036	Mick George Ltd (Frimstone)
Watlington Quarry, Watlington Road, Oakwood Corner, Tottenhill (sand and gravel)	5630, 3118	Mick George Ltd (Frimstone)
Pentney Quarry, Abbey Road, Pentney, Nr King's Lynn (sand and gravel)	5690, 3126	Middleton Aggregates Ltd
East of Mill Drove, Blackborough End, King's Lynn (sand and gravel and Carstone)	5680, 3153	Middleton Aggregates Ltd
Earsham Quarry, Bath Hills Road, Earsham (sand and gravel)	6319, 2900	Earsham Gravels Ltd
Kirby Cane Quarry, Yarmouth Road, Kirby Cane, Bungay (sand and gravel)	6380, 2833	The Lyndon Pallett Group Ltd
Carbrooke Quarry, Mill Lane, Carbrooke (sand and gravel)	5950, 3000	4 Leaf Enterprises Ltd
Feltwell Quarry, Lodge Road, Feltwell, Thetford (sand and gravel)	5740, 2920	L P Pallett Quarry (Feltwell) Ltd
Welcome Pit, Burgh Castle, Great Yarmouth (sand, sand and gravel)	6483, 3042	Folkes Plant & Aggregates Ltd
Wymondham Quarry, Stanfield Road, Wymondham (sand and gravel)	6136, 3002	Longwater Gravel Co Ltd
Norton Subcourse Quarry, Loddon Road, Hales (sand and gravel)	640104 299530	Breedon Trading Ltd
East Bilney Quarry, Rawhall Lane, East Bilney, Nr Dereham (sand and gravel)	595090 318640	Middleton Aggregates Ltd
Coxford Abbey Quarry, Docking Road, Syderstone, Fakenham (sand and gravel)	5832, 3310	Longwater Gravel Co Ltd
Land off Mill Drove, Blackborough End, King's Lynn (sand and gravel)	5675, 3144	William George Sand and Gravel Ltd
Horstead Quarry, Buxton Road, Horstead (sand and gravel)	6252, 3203	Longwater Gravel Co Ltd
Buxton (Mayton Wood), Little Hautbois, Coltishall (sand and gravel)	6243, 3214	Mick George Ltd (Frimstone)

¹⁵ The site has been worked and restoration has ceased.

¹⁶ Was worked for sand and gravel but now operates as a landfill and is being restored.

Site Name	Grid reference	Site Operator
Mangreen Quarry, Ipswich Road, Swardeston (sand and gravel)	6221, 3033	Tarmac Trading Limited
Briton's Lane, Beeston Regis, Sheringham (sand and gravel)	6469, 3411	Norfolk Gravel Limited
Park Farm, Wormegay, King's Lynn (sand and gravel)	5678, 3129	Middleton Aggregates Ltd
Stanninghall Quarry, Norwich Road, Horstead (sand and gravel)	6258, 3183	Tarmac Trading Limited
Briston Stody Estate, Breck Farm, Stody (sand and gravel)	6075, 3338	Mick George Ltd (Frimstone)
Bitteringham / Longham Quarry, Reed Lane, Longham, Dereham (sand and gravel)	5936, 3174	McLeod Aggregates Ltd
East Beckham Quarry, Holt Road, Upper Sheringham (sand and gravel)	6154, 3407	Gresham Gravel Limited
Snettisham Quarry, Norton Hill, Snettisham (Carstone)	5684, 3349	Mick George Ltd (Frimstone)
Suffolk		
Bolton Brothers Recycling Centre (MRF)	612153 249700	Bolton Brothers
Shrubland Park	612000 253700	Brett Aggregates
Sheepdrift Farm (Waldringfield)	626000 244800	Brett Aggregates
Sinks Pit	621498 245495	Cemex
Flixton Quarry (Site A)	629800 286500	Cemex
D J Spall Recycling Ltd	626551 255006	D J Spall Recycling
Former Brickworks and Piperwork's site (Lowestoft)	652400 288500	EE Green & Son
Malting Farm	611257 251806	HF and JT Few
Broomfield Pit	612200 251500	Tarmac
Gazeley Secondary Agg Production	571889 267193	Tarmac
Worlington Quarry	569410 271743	M Dickerson
Marston's Quarry	575925 271485	Middleton Aggregates
Old Chicory Factory	572492 286426	Murfitts Industries
Sole Bay Recycling	649862 276551	Murray Graham
Newmarket Open Door Recycling Centre	563526 264698	Newmarket Open Door
S Sacker (Claydon) Ltd	612299 250377	Sackers Recycling

Site Name	Grid reference	Site Operator
Causeway Pit, Lakenheath	570700 282200	Sutton Services
Somersham Road	611100 248200	Swift Recycling
Harpers Hill Farm	596400 234900	T D & A M Bugg
Beccles Civic Amenity Site	645143 288605	Radical Waste
Chilton Grove Works	587917 243351	Wiles Contractors Limited
Lakenheath Recycling Centre, Brandon Road	573383 279879	Elveden Farms
Claydon Skips Ltd, Masons Landfill	611604 250142	Claydon Skips
Ellough Waste Transfer Station	644051 288533	V C Cooke
Barton Mills Chalk Quarry	571059 272238	Needham Calks (HAM)
Falconer Road, Haverhill	568045 244553	McFitch Waste Management
Lawn Farm, Wetherden	599309 262979	Aggamx
Chilton Concrete Recycling Facility, Chilton Airfield	587917 243351	T & K Weavers Demolition
Holywell Row Waste Recovery Site	570672 278265	A & S Topsoils
R & D Construction Depot, Summer Road, Walsham le Willows	599362 272131	R & D Construction
Solar Farm, Gisleham	652488 288370	Ley Plant
The Control Tower (Recycling) Bentwaters	634136 252681	John Kemble

Appendix 3: Aggregate Sales in the East of England (2011 – 2020)

SALES (Thousand Tonnes) ¹⁷	2011	2012	2013	2014	2015	2016	2017	2018	2019 ¹⁸	2020	3 yr Avg (2018- 2020)	10 yr Avg (2011- 2020)
Sand and Gravel												
Bedford, Central Bedfordshire and Luton	1,115	1,197	1,255	1,622	1,322	1,692	1,643	1,675	1,217	1,212	1,368	1,395
Cambridgeshire and Peterborough	1,703	1,783	1,837	2,650	2,548	2,565	3,559	3,199	3,211	2,823	3,078	2,588
Essex, Southend-on-Sea and Thurrock	2,803	2,303	3,184	4,368	3,454	3,400	3,415	3,559	2,936	2,962	3,152	3,238
Hertfordshire	1,268	1,124	1,130	1,210	1,224	1,165	1,167	1,207	1,245	1,123	1,192	1,186
Norfolk	1,290	1,131	1,115	1,462	1,415	1,623	1,605	1,511	1,280	1,312	1,368	1,374
Suffolk	1,078	1,088	1,061	1,000	871	1,203	1,277	1,221	886	1,025	1,044	1,071
East of England	9,257	8,626	9,582	12,312	10,834	11,648	12,666	12,372	10,775	10,457	11,201	10,853
Crushed Rock												
East of England (Cams and Peterborough Limestone and Norfolk Carstone and, from 2019, Sandstone from Bedfordshire)	262	287	355	668	353	456	399	217	104	149	157	325

¹⁷ NB Tonnages have been rounded to the nearest thousand.

¹⁸ Sales figures are taken from the final published version of the four yearly Aggregate Mineral Survey carried out by the British Geological Survey in 2019 (AMS 2019). Where different sales figures have been obtained via locally run surveys, these are shown in brackets in Table 2.

Appendix 4: Aggregate Sand and Gravel and Crushed Rock Reserves in the East of England (2011 – 2020)

RESERVES (Thousand Tonnes)¹⁹	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	3 yr Avg (2018-2020)	10 yr Avg (2011-2020)
Sand and Gravel												
Bedford, Central Bedfordshire and Luton	21,573	21,700	21,726	13,559	19,386	18,341	15,910	15,219	16,215	17,265	16,233	18,089
Cambridgeshire and Peterborough	45,246	47,138	48,967	45,410	43,330	43,920	41,429	41,828	39,173	36,057	39,019	43,250
Essex, Southend-on-Sea and Thurrock	37,014	35,503	32,885	30,724	32,687	35,368	31,953	29,980	33,099	33,589	32,223	33,280
Hertfordshire	16,700	15,792	16,260	14,440	13,216	11,752	10,458	10,056	8,951	7,684	8,897	12,531
Norfolk ²⁰	16,079	14,559	13,335	15,316	18,348	16,536	14,732	13,311	13,515	14,511	13,779	15,024
Suffolk	14,110	13,100	13,705	13,205	13,190	12,747	11,822	10,690 ²¹	9,590	8,096	9,459	12,026
East of England	150,722	147,792	146,878	132,654	140,157	138,664	126,304	121,084	120,543	117,202	119,610	134,200
Crushed Rock												
East of England (Cams and Peterborough Limestone and Norfolk Carstone and, from 2019, Sandstone from Bedfordshire)	5,976	5,510	5,610	4,807	4,415	4,881	4,480	4,295	5,121	5,005	4,807	5,491

¹⁹ NB Tonnages have been rounded to the nearest thousand.

²⁰ NB: **Figures shown in red** have been amended to reflect permitted reserve figures in Norfolk's past LAAs which previously did not match. Note consequential changes to totals

²¹ Reassessment of reserves took place on some sites.

Appendix 5: Applications Approved, Refused, Withdrawn and Undetermined 2020²²

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
MPA Bedford, Central Bedfordshire and Luton				
Broom South Quarry	Sand and gravel	Extraction of sand & gravel from northern extension as a consolidation working and restoration scheme	Granted 30.11.20 (subject to a s106 agreement)	4,000,000 (additional reserves)
Cow Close, Langford Road, Biggleswade	Aggregate recycling	Construction of new building and extension to existing building for waste processing and storage	Granted 20.05.20	49,000tpa (NB Whilst the permission increases the site's waste handling ability, its max. throughput remains at 49,000tpa linked to permit requirements)
Additional aggregate reserves permitted in 2020 = 4mt				
MPA Cambridgeshire and Peterborough				
Cross Leys Quarry		Restoration of quarry workings to agriculture and woodland through the importation and deposit of inert restoration materials and quarry waste	Granted	Nil
Colne Fen Quarry	N/a inert fill	Importation of inert waste to stabilise land for bridleway	Granted	Nil
Plantation Quarry	Chalk	Extension of time to 31 December 2038	Granted	Nil

²² For the purposes of this Annual Monitoring Report, the applications listed in Table 6 are generally limited to those involving additional reserves or recycling capacity.

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Saxon Pit	Clay	Extension of time for restoration through inert fill.	Granted	Nil
Witcham Meadlands Quarry, Block Fen	Sand and Gravel	Southern extension to Witcham Meadlands Quarry involving the extraction of sand and gravel; extraction of clay; storage of top soil & subsoil; formation of silt settlement ponds; and importation and landfill of inert waste.	Granted	430,000
Little Paxton Quarry		Extension of time; alteration to working method; and alterations to restoration.	Granted	Nil
Dawson Plant Hire, Middle Fen Drove	Aggregate recycling	Use of land for waste management including a new waste handling building informative. Includes outdoor screening and grading of inert waste & soils and the use of a mobile crusher for a temporary period.	Withdrawn	Nil
Additional aggregate reserves permitted in 2020 = 0.43mt				
MPA Essex, Southend-on-Sea and Thurrock				
Wivenhoe (Sunnymead) Quarry	Sand and Gravel	Extraction of 3.8 million tonnes of sand and gravel as an easterly extension to the existing Wivenhoe Quarry, erection of sand and gravel processing plant and ancillary facilities, new vehicular access onto the B1027 Brightlingsea Road, and restoration to agriculture and low-level water-based nature conservation habitats, lowland meadow, woodland planting and hedgerow enhancement using approximately 1.2 million cubic metres of imported inert waste material.	Granted (including legal agreements)	3,800,000

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Medina Farm, South Okendon. THURROCK	Sand & Gravel	Extraction of mineral and reclamation material and import of inert materials, ancillary plan and buildings with restoration back to agriculture.	Granted November 2020	200,000
Orsett Quarry & Walton Hall Farm, Linford, Stanford Le Hope. THURROCK	Sand & Gravel	Mineral extraction and processing at Orsett Quarry and extension into Walton Hall Farm, erection of processing plant and ancillary activities, with restoration to agriculture with landscape planting.	Undetermined	1,500,000
Bradwell Quarry, Church Road, Bradwell, CM77 8EP, and land south of Cuthedge Lane.	Sand & Gravel	Extraction of 6.5 million tonnes of sand and gravel (from Site A7 as identified in the Essex Minerals Local Plan 2014) including the retention of existing access onto A120, the processing plant (including sand and gravel washing plant), office and weighbridge, ready mix concrete plant, bagging unit, DSM plant, water and silt management systems. Plus, extension of the internal haul road into Site A7 and access for private and support vehicles to the Site A7 contractors' compound via Woodhouse Lane and Cuthedge Lane. Restoration of Site A7 to agriculture and biodiversity (species rich grassland and wetland).	Undetermined	6,500,000
Land south of A1060 (Salt's Green), Chalk End, Roxwell, Chelmsford, CM1 4NJ	Sand & Gravel	Sand and gravel quarry and associated works/development including formation of new access and mobile plant area; together with the importation of inert material to facilitate site restoration - REVISED APPLICATION DETAILS	Undetermined	190,000

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Land at Martells Quarry, Slough Lane, Ardleigh, Essex, CO7 7RU	Sand & Gravel	Proposed western extension to Martells Quarry for the extraction, processing, sale and distribution of silica sand and gravel, and subsequent restoration using inert materials along with the creation of a new access.	Undetermined	1,310,000
Newport Chalk Quarry, Chalk Farm Lane, Newport, Saffron Walden, Essex	Inert waste	Importation of inert material, installation and use of recycling plant to produce secondary aggregate and the final disposal of inert residues to facilitate restoration of the site to calcareous grassland, together with the continued extraction of chalk reserve	Granted 25.10.19	200,000
Abaco House, Foxhall Road, Southminster, Essex CM0 7LB	C, D & E	Construction of a Waste Transfer Station for the sorting of up to 6,000 tonnes of inert waste per annum.	Undetermined	6,000
Clearserve Ltd, Rainbow Shaw Quarry, Hoford Road, West Tilbury, Essex SS17 0PJ	Inert materials C, D & E	20/0129/CV Application for the variation of condition no.1 of application 10/01276/CV to continue the importation of material for recycling or infilling void spaces until 31 March 2025.	Granted 23.12.20	n/a
Additional aggregate reserves permitted in 2020 = 4mt				

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
MPA Hertfordshire				
Land at the Former Hatfield Aerodrome	Sand and Gravel	Application for the establishment of a new quarry on land at the former Hatfield aerodrome, including a new access onto the A1057, aggregate processing plant, concrete batching plant and other ancillary facilities, together with the importation of inert fill materials for the restoration of the minerals working.	Refused 24.09.20	8mt
Eastern Extension at Rickneys Quarry	Sand and Gravel	Application proposal for the variation of condition 2 (Time Limit for Commencement) of planning application 3/0629-06 to vary the date of commencement to be no later than eight years from the date of the original permission i.e. up until 31st December 2021 for sand and gravel extraction	Undetermined	1.24mt
Land adjoining Coopers Green Lane	Sand and Gravel	Application for the extraction of approximately 3.5 million tonnes (mt) of sand and gravel involving the retention of the existing quarry access and site infrastructure at Oaklands Lane and the provision of new conveyor tunnels, vehicular surface crossings and new upgraded vehicular access from Coopers Green Lane and Green Lane for the importation of approximately 3.1 mt of inert material for restoration of the site to agriculture, seasonal ponds, wetland areas and woodland planting.	Presented to Committee on 22.10.20. Resolution to approve subject to a section 106 agreement.	3.52mt
Additional aggregate reserves permitted in 2020 = Nil				
MPA Norfolk				
Beeston Regis Quarry	Sand and Gravel	Extraction of 1.0 million tonnes of sand and gravel as an eastern extension to existing quarry with restoration to nature conservation habitat.	Granted	1,000,000
Earsham	Sand and Gravel	Extraction of sand and gravel from three separate extension areas with restoration to nature conservation afteruse.	Granted	1,670,000
Welcome Pit, Burgh Castle	Sand and Gravel	Northern extension to existing approved with extraction of sand and gravel and restoration to a lake.	Undetermined	200,000
Attlebridge Quarry	Sand and Gravel	Extraction of sand and gravel with progressive restoration to heathland	Undetermined	545,000

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Horstead Quarry	Sand and Gravel	Proposed eastern extension to Horstead quarry	Undetermined	650,000
Stanninghall Quarry	Sand and Gravel	Proposed northern extension of Stanninghall Quarry and consolidated working and restoration scheme (to agriculture, grassland and woodland) incorporating existing quarry.	Undetermined	3,750,000
Mayton Wood	Sand and Gravel	Extension of existing quarry to extract 1.45 million tonnes of sand and gravel and the importation of inert materials for restoration and recycling.	Undetermined	1,450,000
FUL/2020/0044 Land at Mill Drove, Blackborough End	C, D & E waste	Proposed change of use of former quarry to inert waste recycling facility	Undetermined	Not specified
FUL/2020/0064 Gamble Plant (Norfolk) Ltd, Salhouse Road, Rackheath	C,D & E waste	Construction and demolition waste processing / recycling	Undetermined	75,000
FUL/2020/0090 East Coast Waste Ltd, Land to the west of A47, Harfrey's Industrial Estate, Great Yarmouth	C,D & E waste	Extension to waste recycling yard for the handling and recycling of inert waste materials	Undetermined	75,000
FUL/2020/0078Mangreen Quarry, Ipswich Road, Norwich	C,D & E waste	Change of use to enable the use of a facility to import and recycle waste materials, road planings, selected C&D materials	Undetermined	100,000
FUL/2020/0062 Heron Farm, Bunwell Road, Besthorpe	C,D & E waste	Change of use to an aggregate and soil recovery facility	Undetermined	60,000
FUL/2020/0043 Anglian Business Centre, West Carr Road, Attleborough	C, D & E waste	Recycling facility for construction, demolition and excavation waste	Undetermined	75,000
FUL/2020/0017 Pips Skips Ltd, Frans Green Industrial Estate, East Tuddenham	C, D & E waste	Waste transfer building	Approved	5,000
Additional aggregate reserves permitted in 2020 = 2.67mt				

Site	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
MPA Suffolk				
N/A				
Additional aggregate reserves permitted in 2020 = Nil				

Appendix 6: Permitted Aggregate Recycling Sites active in 2020

Site	Grid Ref	Operator
Aggregate recycling sites in Bedford, Central Bedfordshire and Luton		
Land North of Barford Rd, Blunham	TL 13961 51625	Acorn Transport and Plant Hire Ltd
North End Farm, Bletsoe	TL 02615 59602	C Jackson & Sons
Cow Close, Langford Road, Biggleswade	TL 19221 43428	FD O'Dell and Son Ltd
Unit G, Faldo Road, Barton Industrial Estate, Barton-le-Clay	TL 07115 31762	Barton Skips
Unit 16, Harmill Industrial Estate, Leighton Buzzard	SP 92251 24022	M O'Brien
Old Sand Quarry, Haynes West End	TL 07050 40505	S C Bradshaw Haulage
Heron's Farm, Mancroft Rd, Aley Green, Caddington	TL 06324 18662	Mini One Plant Hire Ltd (Mr G Sayers)
Cainhoe Quarry, Ampthill Road, Clophill	TL 10167 37574	Thomas Bros Excavations (Luton) Ltd
Land adjacent Ampthill Road (A507), Beadlow	TL 10288 37734	Winton Haulage Ltd
Goosey Lodge Industrial Estate, Wymington, Rushden	SP 96200, 63930	Wykes Engineering
Four Winds Industrial Estate, Bedford Road, West End, Haynes	TL 07172 39910	Wilstead Skips
Manor Road, Kempston Hardwick, Bedford	TL 03201 44292	G Moore Haulage Ltd
1 Kempston Court, Manor Road, Kempston Hardwick, Bedford	TL 03257 44202	Paul Riches Skips Ltd
1 Covent Garden Close, Luton	TL 06904 23063	Cawleys Waste Management
Fox Corner, Woburn Road, Heath and Reach	SP 92753 29165	DB Standing & Sons
Chiltern Green Road, East Hyde	TL 12407 18158	Holywell Haulage

Site	Grid Ref	Operator
Unit 2, 250 Toddington Road, Luton	TL 04673 24997	Three Shires Waste Recycling Ltd
Compound A Unit 4, Cauldwell Walk Industrial Estate, Bedford	TL 04367 48683	Budget Skips Direct Ltd
Aggregate recycling sites in Cambridgeshire and Peterborough		
Alconbury Waste Recycling And Transfer Station	518500 278800	Amey Cespa (East) Ltd
Buckden Material Recycling Facility	520496 268903	Acorn Transport And Plant Hire Limited
Cambridge Transfer Station	547139 261549	Mick George Ltd
Chapsmith Services Recycling Centre	534897 274793	Chapsmith Services Ltd
County Highways Depot, March	540788 298413	Cambridgeshire County Council
Dawson Recycling Facility	536060 269260	Mick George Limited
Dockerill (Plant Hire) Ltd	552747 251517	Dockerill (Plant Hire) Ltd
Eaton Tractors - Pitt Farm	518800 263500	Eaton Tractors Ltd
First Furlong Farm	538162 285586	S R Harradine Haulage Limited
Highways Depot, Whittlesford	548555 247385	Cambridgeshire County Council
Highways Depot, Stanton Way	523383 272873	Cambridgeshire County Council
Highways Depot, Stirling Way	551481 278820	Cambridgeshire County Council
Kennett Soil And Aggregate Treatment Facility	569397 268945	Mick George Limited
March Waste Recycling And Transfer Station	540883 298404	Amey Cespa (East) Ltd
Mepal Soil And Aggregate Treatment Facility	544677 284081	Mick George Limited
Mepal Soil and Waste Treatment Centre EPR/EP3492SP	544530 283920	Mick George Limited

Site	Grid Ref	Operator
National Track Materials Recycling Centre	541210 298840	Network Rail Infrastructure Limited
Padnal Sidings	558250 282150	Ellgia Recycling Ltd
Plantation Farm	568281 268710	D Haird & Company Limited
Sherwood Park Ltd, (also known as Land at Britania Way, Wishbech)	545997 308181	Sherwood Park Ltd
St Ives Aggregates Facility	532600 270501	Midland Quarry Products Limited
St Ives Transfer Station EPR/MP3139FY	532120 270780	Mick George Ltd
St Neots Transfer & Recycling Fac	519150 259350	Biffa Waste Services Ltd
Warboys Waste Transfer Station	531100 281900	Woodford Recycling Services Ltd
Waterbeach Recycling Facility	547985 268504	Frimstone Limited
Waterbeach Waste Management Park EPR/LP3593LM	547900 268660	AmeyCespa (East) Limited
White Walls	531825 297975	P J Thory Limited
Wisbech Waste Transfer Station	545529 307918	Frimstone Limited
Woodhatch Farm WTS EPR/EP3038VB	518380 271780	Mick George Ltd
Eye Recycling Facility (M R F)	523500 300998	Biffa Waste Services Ltd
F C C Dogsthorpe	520714 302187	Construction & Environmental Services Limited
Fengate Waste Treatment Facility	520844 298587	M G Recycling Limited
Oxney Road Industrial Estate	522270 300830	Aggregate Industries U K Ltd
Rose Plant Hire Transfer Station	521000 299200	Rose Aggregates Limited
Unit 2 Vicarage Farm Road	520999 299202	Bourne Skip Hire & Recycling Limited

Site	Grid Ref	Operator
Aggregate recycling sites in Essex, Southend-on-Sea and Thurrock		
Pitsea Hall Lane, Pitsea, Basildon	TQ739 873	Veolia ES
Whites Yard, Archers Fields Close, Basildon		Paul Whitehair
Plot 9 Hallsford Bridge Ind Est, Stondon Road, Stondon Massey, Ongar	TL 562 018	P W Keen Ltd
Halstead Highway Depot, Fenn Road, Halstead	582378 230472	Ringway Jacobs Ltd
The Yard, New Parsonage Lane, Gt Saling, Braintree	57005 22525	Silverton Aggregates
Bulls Lodge Quarry, Generals Lane, Boreham, Chelmsford	57450 21070	Eurovia
The Works, Stock Road, West Hanningfield, Chelmsford		C A Blackwell (Contracts) Ltd
Colchester Quarry (Colchester Recycling), Warren Lane, Stanway, Colchester	TL 950 225	Tarmac (Cory Environmental Ltd)
Greenacres, Old Packards Lane, Wormingford, Colchester		Colchester Skip Hire
Haven Quay, Haven Road, Colchester	TM 022 236	Silverton Aggregates
Patterns Yard, Nayland Road, West Bergholt, Colchester		Peter Wingett
Wivenhoe Quarry, Alresford Road, Wivenhoe, Colchester	TM 046 224	Lafarge Aggregates Ltd
Thornwood Marlow, High Road, Thornwood Common, Epping	469240 049630	D Evans & Sons
Harlow Mill Aggregate Depot, Station Approach, Old Harlow	54714 21228	Aggregate Industries
Hill Demolition and Skip Hire, 1-3 Edinburgh Place, Edinburgh Way, Harlow	TL 70740 00700	Mrs C Hill, Mr T & A Hill & Miss L Hill

Site	Grid Ref	Operator
Royden Lea Farm, Roydon Road, Harlow	542300 210600	R B Whitbread (Plant Hire) Ltd
Green Recycling, Quayside Ind Est, Bates Road, Off the Causeway, Maldon	TL 857 076	Green Recycling Ltd
Cottis Yard Recycling Facility, Cottis Yard, Welton Way, Rochford	TQ 884 901	DD Recycling Ltd
Unit 1, Rawreth Ind Est, Rawreth Lane, Rayleigh	TQ 796 924	Franklin Hire Ltd
JKS Roach Valley Works, 53 Purdey's Way, Purdey's Ind Est, Rochford	TQ 881 899	JKS Construction Ltd
Stock Road Recycling Facility, 25 Stock Road, Southend-on-Sea	590150 187753	W & H (Romac) Ltd
Devereaux Farm, Walton Road, Kirby Le Soken	TM 232 220	Silverton Aggregates
Essex Recycling, Wix Lane Farm, Harwich Road, Wix	61791 22915	Essex Recycling Ltd
EWD Carters Haulage Yard, Morses Lane Ind Est, Brightlingsea, Colchester	08695 18056	Eastern Waste Disposal Ltd
Martell's Slough Lane, Ardleigh, Colchester	50516 22808	Recycled in Ardleigh Ltd
Land at Parkeston Quay, West Dock Road, Harwich		Network Rail Infrastructure Ltd
Haigh Recycling, Armigers Farm, Thaxted	55949 22920	Ronald B Haigh & Co Ltd
Land adjacent to Taylors Farm, Takeley	55383 22149	G E & A F Silvester Ltd
Highwood Quarry, Little Easton Airfield, Little Easton, Great Dunmow		SRC
Loppingdales, Gaunts End, Elsenham, Bishops Stortford	55551 22546	E Corr Plant Hire
Widdington Pit, Hollow Road, Widdington, Saffron Walden	528 314	Carr & Bircher Ltd
Codham Hall Farm, Unit A, Codham Hall Lane, Great Warley, Brentwood	TQ 592 886	Ferns Surfacing Ltd

Site	Grid Ref	Operator
The Elms, Woolmongers Lane, Blackmore, Epping Forest	TL 583 017	John Davies
Bateman's Farm, Great Leighs, Chelmsford	TL 742 183	G & B Finch
Elm Farm, Elm Lane, Marks Tey, Colchester		Mason Trucking Company
Payne's Lane, Nazeing, Waltham Abbey	TL 380 050	Martin Harvey
Unit 1C Birchwood Ind Est, Hoe Lane, Nazeing		J & R Haulage Ltd
Curry Farm, New House, Mill End, Bradwell-Juxta-Mare, Maldon	TL 995 059	R Dewick
Elsenham Recycling Centre, Hall Road, Elsenham, Bishops Stortford	55441 22662	Viridor Waste Management/ Brett Aggregates
Rainbow Shaw Quarry, Holford Road, Linford, Thurrock		Clearserve
East Tilbury Quarry, Princess Margaret Road, East Tilbury, Thurrock		S Walsh & Sons
Dansand Quarry, Stanford Road, Orsett, Thurrock		Recycled in Orsett
Killoughery, Becon Hill Ind Est, Botany Way, Purfleet, Thurrock		Killoughery
Burrows Farm, Brentwood Road, Bulphan, Thurrock		Sims Milling
Juliette Way, Purfleet Industrial Estate, Thurrock		Seales Haulage
Watson Close, West Thurrock		Brocks Haulage
Tilbury 2, Fort Road, Tilbury, Thurrock		Tbc
Aggregate recycling sites in Hertfordshire		
Land off Birchall Lane	52703 21148	BP Mitchell
Burnside, Hatfield	52610 21036	B P Mitchell & Peter Brother Ltd

Site	Grid Ref	Operator
50-52 Burrowfield	52360 21151	Ground waste Recycling Ltd
Harper Lane (Rail Loop)	51598 20159	Tarmac
Envirowaste Recycling Centre (Land Adj. to B197, North of Graveley)	52342 22920	Stevenage Skip Hire Ltd
Skinner's Yard	529825 209792	Aggregate Industries UK Limited t/a Express Asphalt
Aggregate recycling sites in Norfolk		
Aylsham Industrial Estate	620086, 327715	Aylsham Plant Hire Ltd
Ash Tree Farm, Acle New Road, Great Yarmouth	650448, 309244	Pattisons (Anglia) Ltd
Blackwater Pit, Helhoughton Road, Hempton, Fakenham	590468, 328427	R N Gamble
Lyngate Industrial Estate, North Walsham	628100, 331200	Drury's Environmental Services Ltd
Walnut Tree Farm, Silver Street, Besthorpe, Attleborough	607231, 296338	Baldwin Skip Hire
Lodge Farm, Breckles, Attleborough	594651, 295233	Lodge Farm Recycling Ltd
Boundary Pit, Sandy Hills Lane, North Walsham	629137, 328218	Carl Bird Limited
Browston sand pit, Cherry Lane, Browston, Great Yarmouth	649400, 301700	E E Green & Son Limited
Longdell Quarry, Alex Moorhouse Way, Costessey	615018, 311317	Cemex U K Materials Ltd
East Beckham Quarry, Holt Road, Sheringham	615481, 340859	Gresham Gravel Limited
Eurocentre, North River Road, Harfreys Industrial Estate, Great Yarmouth	652120, 309170	East Coast Waste Ltd
Feltwell Quarry, Lodge Road, Thetford	574236, 292106	L P Pallett Quarry (Feltwell) Ltd

Site	Grid Ref	Operator
Holt Quarry, Ducks Hole Farm, Hunworth Road, Holt	607243, 337050	Cemex UK Materials Ltd
William Frost Way, Longwater Business Park, Costessey	615625, 311300	N R Asphalt Limited
William Frost Way, Longwater Business Park, Costessey	615697 311310	Longwater Gravel Co Ltd
land South Of B1110, North Tuddenham, Dereham	604883, 313752	Martyn J Green Ltd
Frans Green Ind Est, Sandy Lane, East Tuddenham	609316, 314020	Norman Wenn Ltd
Pips Skips, Frans Green Industrial Estate, Sandy Lane, East Tuddenham	609451, 314037	PL Hyde
Rossfield, Reepham Road, Horsford, Norwich	618278, 315101	Green Planet Environmental Recycling
Six Acres, Stone Road, Hockering	608103, 315120	Norfolk Recycling Ltd
Welcome Pit, Butt Lane, Burgh Castle	648102, 304233	Folkes Plant & Aggregates Limited
Townlands, Harfrey's Road, Great Yarmouth	651843, 305513	EE Green & Son
Snettisham Quarry, Norton Hill, King's Lynn	568343, 334969	Mick George Ltd (Frimstone)
Carbrooke Quarry, Summer Lane	594900, 301200	Mick George Ltd (Frimstone)
Buxton (Mayton Wood), Little Hautbois, Coltishall	624213, 321360	Mick George Ltd (Frimstone)
Crimplesham Quarry, Main Road, Crimplesham	566600, 303500	Mick George Ltd (Frimstone)
Coxford Abbey Quarry, Docking Road, Syderstone	583020, 330880	Longwater Gravel Company Ltd
East Winch Quarry, East Winch Road	567917, 315584	Middleton Aggregates Ltd
Ketteringham Quarry, Hethersett Road, Ketteringham	617271, 302612	Middleton Aggregates Ltd
East Bilney Quarry, Rawhall Lane, East Bilney	595523, 318601	Middleton Aggregates Ltd
Roudham Recycling Facility, Roudham Road, East Harling	597738, 287558	Rory J Holbrook Ltd

Site	Grid Ref	Operator
Ernest Gage Avenue, Longwater Industrial Estate, Costessey	615066, 311253	R G Carter Ltd
Kirby Cane Quarry, Yarmouth Road, Kirby Cane, Bungay	638100, 292791	The Lyndon Pallett Group Ltd
Bitteringham / Longham Quarry, Reed Lane, Longham, Dereham	59364, 317214	McLeod Aggregates Ltd
Aggregate recycling sites in Suffolk		
Bolton Brothers Recycling Centre (MRF)	612153 249700	Bolton Brothers
Shrubland Park	612000 253700	Brett Aggregates
Sheepdrift Farm, Waldringfield	626000 244800	Brett Aggregates
Sinks Pit	621498 245495	Cemex
Flixton Quarry (Site A)	629800 286500	Cemex
D J Spall Recycling Ltd	626551 255006	D J Spall Recycling
Former Brickworks and Piperworks Site, Lowestoft	652400 288500	EE Green & Son
Malting Farm	611257 251806	HF & JT Few
Broomfield Pit	612200 251500	Tarmac
Gazeley Secondary Aggregate Production	571889 267193	Tarmac
Worlington Quarry	569410 271743	M Dickerson
Marston's Quarry	575925 271485	Middleton Aggregates
Old Chicory Factory	572492 286426	Murfitts Industries
Sole Bay Recycling	649862 276551	Murray Graham
S Sacker (Claydon) Ltd	612299 250377	Sackers Recycling

Site	Grid Ref	Operator
Causeway Pit, Lakenheath	570700 282200	Sutton Services
Somersham Road	611100 248200	Swift Recycling
Harpers Hill Farm	596400 234900	TD & AM Bugg
Beccles Civic Amenity Site	645143 288605	Radical Waste
Chilton Grove Works	587917 243351	Wiles Contractors Ltd
Lakenheath Recycling Centre, Brandon Road	573383 279879	Elveden Farms
Claydon Skips Ltd, Masons Landfill	611604 250142	Claydon Skips
Ellough Waste Transfer Station	644051 288533	VC Cooke
Barton Mills Chalk Quarry	571059 272238	Needham Calks (HAM)
Falconer Road, Haverhill	568045 244553	McFitch Waste Management
Lawn Farm, Wetherden	599309 262979	Aggamix
Chilton Concrete Recycling Facility, Chilton Airfield	587917 243351	T & K Weavers Demolition
Holywell Row Waste Recovery Site	570672 278265	A & S Topsoils
R & D Construction Depot, Summer Road, Walsham le Willows	599362 272131	R & D Construction
Solar Farm, Gisleham	652488 288370	Ley Plant
The Control Tower (Recycling) Bentwaters	634136 252681	John Kemble

Appendix 7: Permitted Wharfs and Aggregate Rail Depots in the East of England 2020

MPA	Facility	Grid Ref	Operator
Bedford, Central Bedfordshire and Luton	Limbury Sidings, Aggregate Rail Depot, Leagrave Road, Luton	TL 075229	Breedon Group
	Elstow Aggregate Rail Depot, Bedford	TL 041457	Tarmac
	Crescent Road, Luton	TL 097215	GRS Rail Services
	Stewartby Aggregate Rail Depot	TL 017431	Network Rail (rail ballast)
Cambridgeshire and Peterborough	Ely	555900 280900	Tbc
	Chesterton Sidings	547465 260700	Tarmac / Lafarge
	Chesterton Sidings	547465 260700	Frimstone
	Whitemoor, March	541420 298930	Network Rail
	Peterborough	518911 298280	Cemex
Essex, Southend-on-Sea and Thurrock	Purfleet Rail Depot, Jurgens Road, Purfleet	TQ 566 771	Aggregate Industries
	Port of Tilbury, Bulk Rail Terminal, (former Freightliner Terminal), Tilbury Dock, Tilbury	TQ 630 765	FM Conway
	Port of Tilbury, Berth 34		S Walsh
	Tilbury 2, Fort Road, Tilbury	TQ 647 752	Port of Tilbury
	Ballast Quay, Fingringhoe	TM 043 210	JJ Prior Ltd

MPA	Facility	Grid Ref	Operator
	Port of Harwich, Parkeston, Harwich. (listed as a potential wharf in MLP)	TM 238 326	Hutchinson Ports
	Chelmsford Rail Depot, Brook Street	TL 712 074	Aggregate Industries
	Harlow Mill Rail Depot	TL 470 122	Aggregate Industries
	Harlow Rail Depot	TL 470 122	Tarmac
	Marks Tey Rail Depot	TL 918 240	Tarmac
	DP World	TQ 719 823	Aggregate Industries
	Thurrock Marine Terminal, Oliver Close, West Thurrock	TQ 576 771	Tarmac Thurrock Sand and Gravel Ltd
	Purfleet Wharf, West Thurrock	TQ 564 775	Hanson / Cemex
	Berth 1, Tilbury Docks	TQ 638 759	Stema Shipping Ltd
Hertfordshire	Harper Lane Rail Loop	51598 20159	Tarmac
	Hitchin Rail Depot	51960 22960	Aggregate Industries UK Ltd
	Langley Sidings Rail Depot	52398 22289	Tarmac
	Orphanage Road Rail Depot	51106 19766	London Concrete Ltd / Aggregate Industries UK Ltd
	Rye House Rail Depot (inactive)	53894 20919	Tarmac
Norfolk	Trowse Railhead, Norwich	624477, 307236	Tarmac Trading Ltd
	Norwich Riverside Rail Depot	624304, 308010	Breedon Trading Limited

MPA	Facility	Grid Ref	Operator
	Brandon Rail Depot, Mundford Road, Brandon	578479, 287283	Breedon Trading Limited
	Snetterton Railhead	601500, 290130	Mick George Ltd (Frimstone)
	Yeoman Wharf, Great Yarmouth	652409, 306344	Silverton Aggregates Ltd
	Great Yarmouth Port, Outer Harbour, South Denes Road, Great Yarmouth	653333, 304132	Stema Shipping UK Ltd
Suffolk	Barham Railhead	611888 251403	Tarmac
	Bury St Edmunds Railhead	585115 265164	Tarmac
	Gazeley Railhead (Kentford/Higham)	571872 266987	Tarmac
	West Bank Terminal, Ipswich	616735 243191	Brett Aggregates
	Cliff Quay, Ipswich	616786 242631	Port Authority
	Hamilton Dock, Lowestoft	655297 293024	Port Authority
	North Quay, Lowestoft	653603 292906	Port Authority
	West Bank Terminal, Ipswich	616627 242800	Brett Aggregates

Appendix 8: Key Milestones for Minerals LDDs and SPDs in the East of England

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
Bedford, Central Bedfordshire and Luton	Minerals and Waste Local Plan: Strategic Sites and Policies LDD	2006 – 2010	10 August 2012	December 2012 – January 2013; July 2013	January 2014
Cambridgeshire and Peterborough	Minerals and Waste Core Strategy. Minerals and Waste Site Specific Proposals Plan (Devt Plan Doc). The Location and Design of Waste Management Facilities (SPD). Block Fen/ Langwood Fen Master Plan (SPD) Minerals and Waste Local Plan	May/Jun 18 and Mar/Apr 19	Mar 2020	Sept 2020	July 2011 February 2012 July 2011 July 2011 July 2021
Essex, Southend-on-Sea and Thurrock	Essex Minerals Local Plan Essex Mineral Plan Review Thurrock Core Strategy [Thurrock Minerals and Waste Local Plan] Southend New Local Plan	March/April 2021 (Reg.18) Awaiting Cabinet Member approval before next steps [Issues and Options Dec 2009 but since suspended] Issues and Options spring 2019 and planned Q2 2022	tbc	tbc	July 2014 tbc Dec 11 + Jan 15 Expected 2023
Hertfordshire	Minerals Local Plan	Aug 2015 (Issues and Options); Dec 2017 (Reg 18); Jan 2019 (Preferred Approach); Second Reg 19 proposed for Jan – Mar 2021 but delayed so likely to have knock on effect on following stages	July / October 2021	November 2021 – January 2022	August – October 2022

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
Norfolk	Minerals and Waste Local Plan Review	June – August 2018 (Issues and Options); September - October 2019 (Preferred Approach)	Expected 2022	Expected 2022/23	Expected 2023
Suffolk	Suffolk Minerals and Waste Local Plan				July 2020