



*East of England Aggregates  
Working Party*

# **Annual Monitoring Report 2016**

Produced by The Minerals and Waste Planning Shared Service for Central Bedfordshire,  
Bedford Borough and Luton Borough Councils on behalf of the East of England Aggregates  
Working Party (EEAWP)

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## **Executive Summary**

This Annual Monitoring Report for the East of England covers the year 2016 and has been compiled by the East of England Aggregates Working Party (AWP) from survey returns made by operators to Mineral Planning Authorities (MPAs). Information has also been sought on secondary and recycled aggregates along with records of minerals planning applications which have been granted, refused, withdrawn or undetermined over the monitoring period. Where appropriate, illustrative material depicts trends over a ten year timespan and provides analysis by individual authority.

The National Planning Policy Framework requires MPAs to prepare a Local Aggregate Assessment (LAA) based on a rolling average of 10 year sales data and other relevant local information, and an assessment of all supply options. It is intended that the information presented within the report assists MPAs in the preparation of their LAAs for submission to the National Co-ordinating Group to consider appropriate provision and inform decisions regarding provision of aggregates in their minerals 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 0.4 mtpa of crushed rock. However, members of the AWP have become increasingly concerned that such figures are becoming outdated with seemingly little prospect of being updated in the near future. The AWP has consequently opted for the sand and gravel provision in plans to be based upon the methodology set out in national policy and guidance.

Sales of land-won sand and gravel in the East of England rose to 11.6 Mt in 2016 compared with 10.8 Mt in 2015. The three year average over 2014 -2016 also returned a figure of 11.6 Mt whilst the ten year average over 2007-2016 indicated 10.6 Mt. This represents an increase compared with the three year average between 2013 – 2015 of 10.9 Mt, although marginally down on the ten year average over 2006 -2015 of 10.8 Mt.

At the end of 2016 reserves of land-won aggregates in the East of England stood at 138.7 Mt, some 1.4 Mt less than at the end of 2015, providing a landbank to 9.4 years, marginally down from a landbank of 9.5 years recorded at the end of 2015. Applying the NPPF methodology based on a rolling average of 10 year sales indicates a landbank of 13.1 years. Using the sub-national apportionment all the authorities within the East of England as at the end of 2016 had landbanks in excess of 7 years with one exception being marginally below that threshold with a landbank of 6.4 years. Applying the 10 year average sales set out in the NPPF, however, indicated that all authorities calculated a landbank in excess of this threshold.

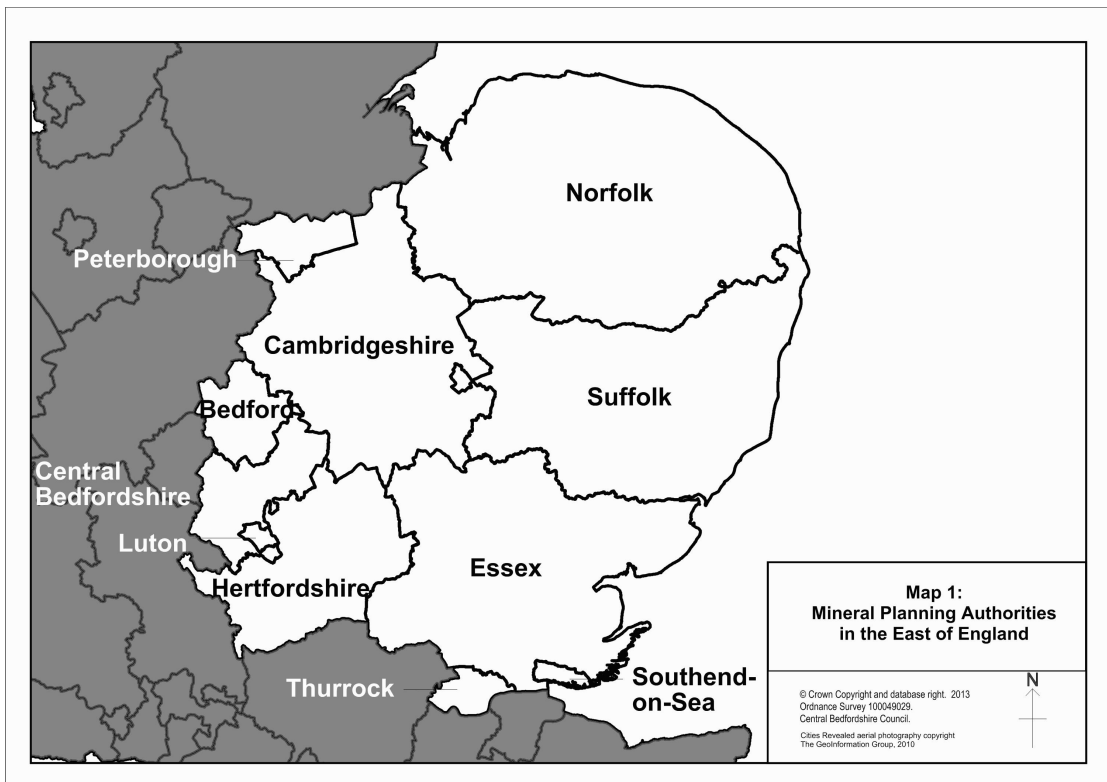
Sales figures for local crushed rock have, for confidentiality reasons, been combined to provide an overall figure for the East of England which, in 2016, amounted to 0.46 Mt, representing an increase of some 0.11 Mt from the sales figures of 0.35 Mt recorded in 2015. The 10 year average over 2007 – 2016 was 0.39 Mt. maintaining the same average recorded over the period 2006 – 2015. It proved difficult to collect accurate and full figures for secondary and recycled aggregates.

New aggregate permissions in the East of England approved a total of 11.6 Mt of sand and gravel in 2016 marking a small increase of 4.5 % over the tonnage permitted in 2015 at 11.1Mt of sand and gravel. The East of England Aggregates Working Party can advise the National Co-ordinating Group and the Department for Communities and Local Government that the authorities comprising the East of England continue to make a full contribution to both local and national aggregate needs.

## Section 1: Introduction

### Background

- 1.1 The Aggregates Working Parties<sup>1</sup> (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. They are not policy-making bodies, but provide information to facilitate the work of Mineral Planning Authorities (MPAs), national government agencies and the minerals industry. They also feed regional views to the Government through the national forum, the National Co-ordinating Group (NCG), although this group has not convened for some time.
- 1.2 The AWP operate under contracts between the Secretary of State for Communities and Local Government and the Chairs of the AWP, and receive funding from the Department to prepare papers, reports, and data collations as recommended by the NCG.



- 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

<sup>1</sup> Were previously known as Regional Aggregate Working Parties but since changed to reflect national guidelines.

Peterborough) and MPAs from the former South East (Essex, Southend-on-Sea, Thurrock, Hertfordshire, Central Bedfordshire, Bedford Borough and Luton).

- 1.4 The EEAWP is chaired by a senior officer from one of the member MPAs. At present the Chair is Richard Greaves, Acting Head of County Planning, Essex County Council having taken on the Chairmanship from Andrew Cook, Director for Operations, Environment and Economy, Essex County Council, as from the end of June 2016. The AWP is also serviced by a Technical Secretary, which, at present, is also a representative from a MPA (Central Bedfordshire Council). The membership of the East of England AWP for 2016 is set out in Appendix 1. The main matters that the East of England AWP considered at its meetings held in 2016 are set out in Appendix 2.

## **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). This stated that an estimated 236 million tonnes (mt) of land won sand and gravel will need to be provided for in the East of England region during the 16 year period 2005-2020. This equates to 14.75 million tonnes per annum (mtpa), a reduction of 1.25mtpa from the 2003 Guidelines. A copy of the 2009 Guidelines is available on the Department for Communities and Local Government (DCLG) website:

<http://www.communities.gov.uk/publications/planningandbuilding/aggregatesprovision2020>

- 1.6 The apportionment of the regional guidelines to sub-regional areas (Mineral Planning Authorities) 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 Mineral Planning Authorities (MPAs). This Board was abolished in 2009. The 2005-2020 Guidelines set out the sub-regional apportionment for each MPA.
- 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.**

<b>Sand and Gravel</b>	<b>(Thousand Tonnes)</b>
Bedford / Central Bedfordshire / Luton	1,840
Cambridgeshire / Peterborough	2,880
Essex / Thurrock / Southend-on-Sea	4,450
Hertfordshire	1,390
Norfolk	2,570
Suffolk	1,620
<b>Total</b>	<b>14,750</b>
<b>Crushed rock</b>	
Cambridgeshire / Peterborough	200
Norfolk (Carstone)	200
<b>Total</b>	<b>400</b>

- 1.8 It should be noted that during its meeting in June 2016 members of the East of England AWP expressed concern that the 2020 figures for sub-regional apportionment were becoming outdated and agreed that the issue be highlighted with the Department for Communities and Local Government (DCLG). Given that the prospect of updated guidelines emerging in the foreseeable future appears unlikely, the EEAWP Chairman has, 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 (National Planning Policy Framework paragraph 145 and Planning Practice Guidance paragraphs 61 -71).

### **The National Planning Policy Framework**

- 1.9 The National Planning Policy Framework (NPPF) came into force in March 2012. 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 that there is a sufficient supply of material to provide the infrastructure, buildings, energy and goods that the country needs. It also recognises that minerals are a finite source which can only be worked where they are found. It also requires that mineral resources are appropriately safeguarded from unnecessary sterilisation together with associated infrastructure, wharfs and rail heads.
- 1.10 The NPPF (Paragraph 145) requires Mineral Planning Authorities to plan for a steady and adequate supply of aggregates by:
- Preparing a Local Aggregate Assessment based on a rolling average of 10 year sales data and other relevant information, and an assessment of all supply options (including marine, dredged, secondary and recycled sources);
  - Participating in the operation of an Aggregate Working Party and taking the advice of that Party into account when preparing their Local Aggregate Assessment;

- 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 National Aggregate Co-ordinating Group as appropriate;
- Taking account of 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;
- 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;
- Making provision for the maintenance of 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 compromised. 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<sup>2</sup>;
- Ensuring that large landbanks bound up in very few sites do not stifle competition; and
- Calculating and maintaining separate landbanks for any aggregate materials of a specific type or quality which have a distinct and separate market.

1.11 Paragraph 143 (bullet 2) of the NPPF specifically requires Local Planning Authorities, when preparing plans, to take account of the contribution that substitute or secondary and recycled materials and minerals waste would make to the supply of materials, before considering the extraction of minerals, whilst aiming to source minerals supplies indigenously.

### **Guidance on the Managed Aggregate Supply System (MASS)**

1.12 Guidance on the Managed Aggregate Supply System (2012) was cancelled and incorporated into the Planning Practice Guidance Suite launched in April 2014.

<https://www.gov.uk/government/speeches/local-planning>

The new Planning Practice Guidance Suite still recognises the important role the Aggregate Working Parties play 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 suite also recognises the important role AWP's play in providing advice to individual mineral planning authorities and the National Aggregate Co-ordinating Group. However, this group has not met for a number of years and did not meet in 2016.

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<sup>2</sup> Planning Practice Guidance (Paragraph: 064 Reference ID: 27-064-20140306) states "*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.*"

## **Section 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, marine aggregates and the capacity of wharves and rail depots to handle aggregates has been derived from both the Local Aggregate Assessments produced by the Mineral Planning Authorities within the East of England and the annual survey returns. It should be noted that data pertaining to 2014 was derived from the four yearly national survey undertaken by the British Geological Survey (BGS) on behalf of DCLG.

### **Sand and gravel**

- 2.2 Aggregate sand and gravel is found throughout the East of England and all the MPAs contribute towards the sub-national apportionment.
- 2.3 A list of existing active and inactive aggregate extraction sites is set out in Appendix 3.

### **Crushed rock**

- 2.4 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 some situations depending on specification. Whilst the 2009 DCLG guidelines have resulted in the reduction in the Cambridgeshire and Peterborough apportionment figure for Crushed Rock to 200,000 tonnes per annum (tpa); the Cambridgeshire and Peterborough MPAs intend to maintain a landbank based on an extraction rate of 300,000 tpa (Cambridgeshire and Peterborough Minerals and Waste Core Strategy policy CS6).
- 2.5 Norfolk intends to continue to maintain the 200,000 tpa crushed rock apportionment (Core Strategy and Minerals and Waste Development Management Policies Development Plan Document 2010-2026).

### **Aggregate Sales**

- 2.6 Table 2 below reflects the three year sales for the period 2014 – 2016 as per Planning Practice Guidance paragraph 064 in order to identify the general trend of demand as part of the assessment as to whether it may be appropriate to increase supply. Figure 1 sets out the 10 year trend for sales of sand and gravel whilst Figure 2 illustrates the proportion of aggregate sales for MPAs in the East of England for 2016. A full list of sales data for the 10 year period from 2007 - 2016 is available in Appendix 4.

**Table 2: Land-Won Aggregate Sand and Gravel: Sales 2014-2016<sup>3</sup>**

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>Average 2014-2016</u>
<b><u>Sand &amp; Gravel</u></b>				
<u>Bedford, Central Bedfordshire &amp; Luton</u>	<u>1,622</u>	<u>1,322</u>	<u>1,692</u>	<u>1,545</u>
<u>Cambridgeshire &amp; Peterborough</u>	<u>2,650</u>	<u>2,548</u>	<u>2,565</u>	<u>2,588</u>
<u>Essex, Southend &amp; Thurrock</u>	<u>4,368</u>	<u>3,454</u>	<u>3,400</u>	<u>3,741</u>
<u>Hertfordshire</u>	<u>1,210</u>	<u>1,224</u>	<u>1,165</u>	<u>1,200</u>
<u>Norfolk</u>	<u>1,462</u>	<u>1,415</u>	<u>1,623</u>	<u>1,500</u>
<u>Suffolk</u>	<u>1,000</u>	<u>871</u>	<u>1,203</u>	<u>1,025</u>
<b><u>East of England</u></b>	<b><u>12.3mt</u></b>	<b><u>10.8mt</u></b>	<b><u>11.6mt</u></b>	<b><u>11.6mt</u></b>

**Crushed rock sales (thousand tonnes)**

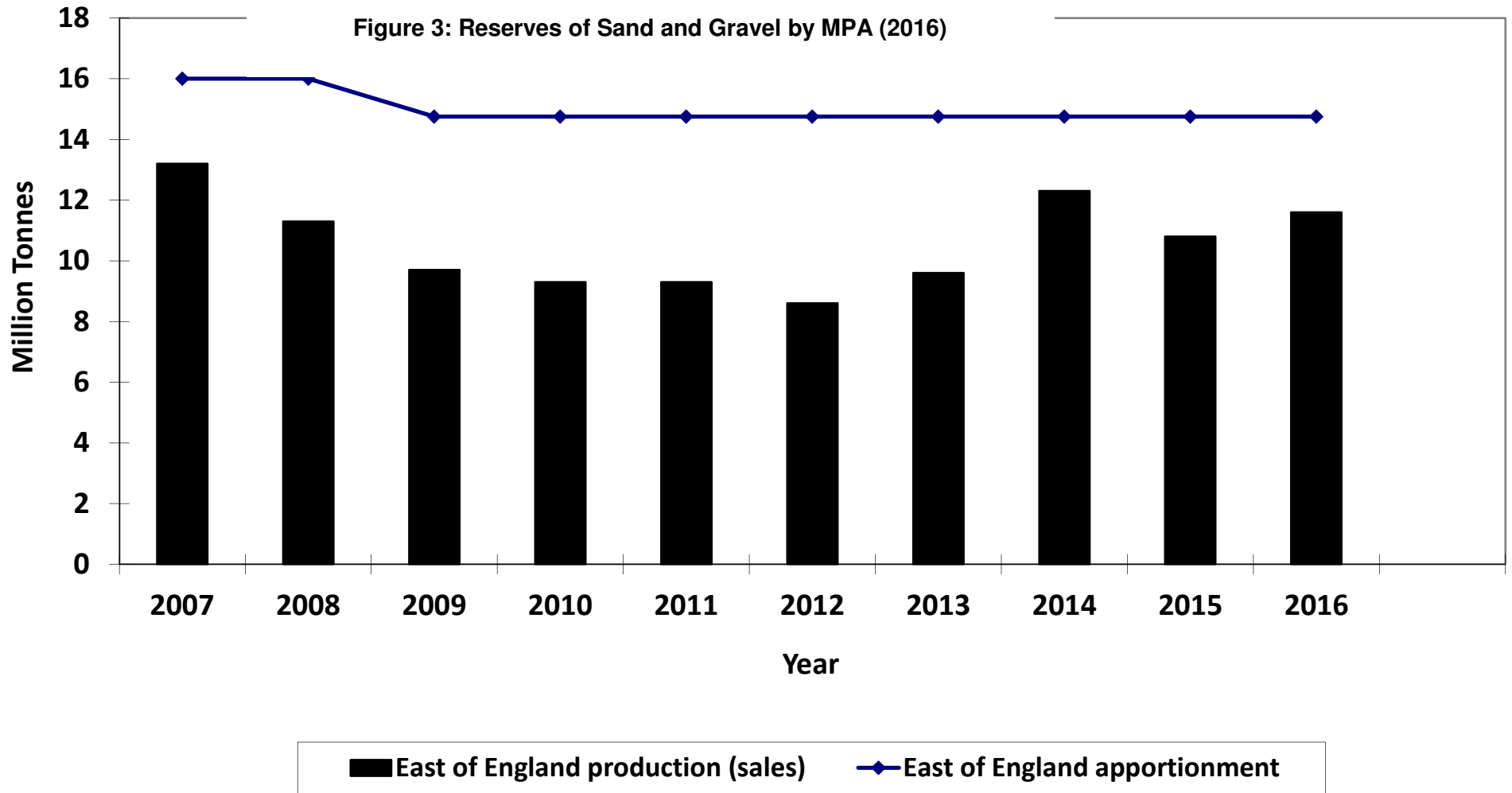
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>Average 2014-2016</u>
<b><u>East of England</u></b> <sup>4</sup>	<b><u>668</u></b> <sup>5</sup>	<b><u>353</u></b>	<b><u>456</u></b>	<b><u>492</u></b>

<sup>3</sup> To avoid under reporting sales and reserves MPAs have included estimates of sales and reserves figures for sites without a submitted return.

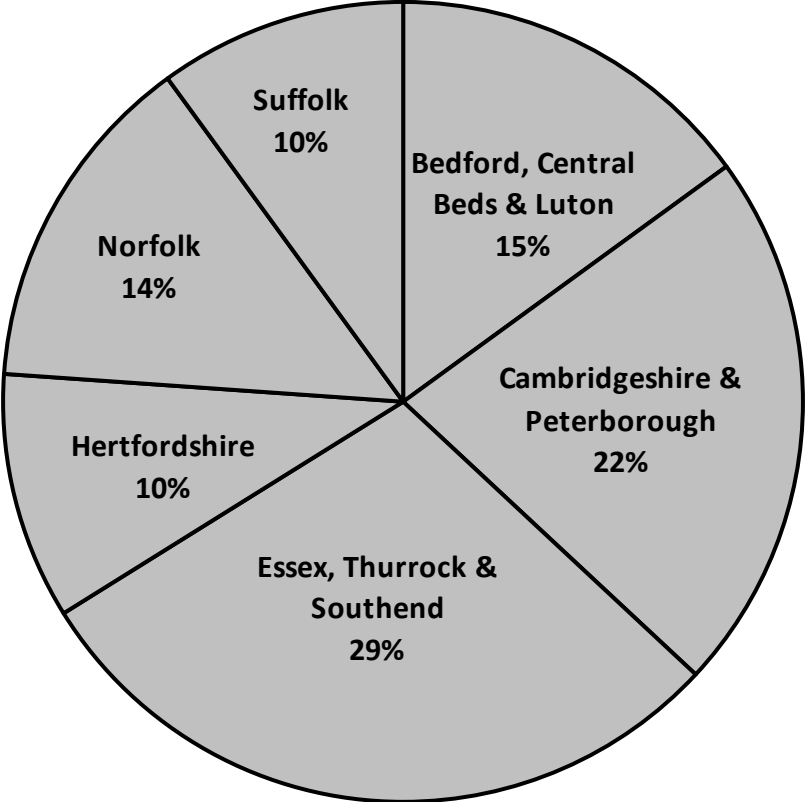
<sup>4</sup> NB Sales for Cambridgeshire, Peterborough and Norfolk have been aggregated for confidentiality reasons.

<sup>5</sup> This figure, derived from the 2014 Aggregates Survey, comprises limestone from Cambs & Peterborough and Carstone from Norfolk.

**Figure 1: Sales of Sand and Gravel in the East of England 2007-2016**



**Figure 2: Proportion of sand and gravel sales by MPA (2016)**



## Aggregate Reserves

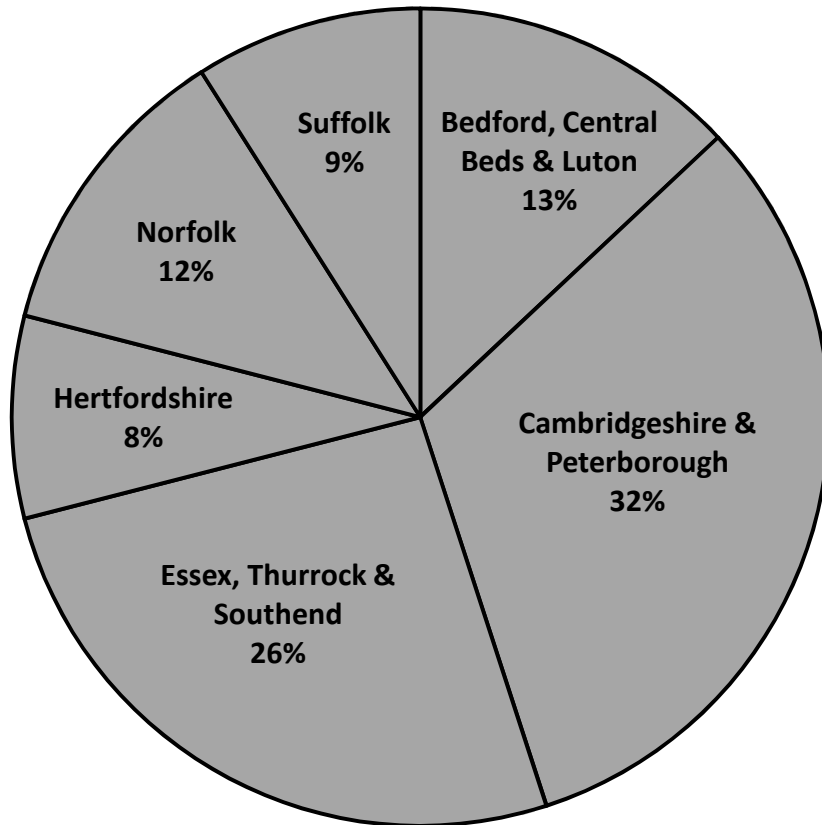
2.6 Table 3 and Figures 3 and 4 below show aggregate reserves within the East of England. Landbanks have been calculated based on both the sub-regional apportionment figures and on the rolling average 10 year sales. A full list of reserves data covering the period 2007 – 2016 is available in Appendix 5. A list of permissions granted, refused, withdrawn or undetermined over 2016 in each MPA is set out in Appendix 6 and provides an indication of the reserves coming forward in each area.

**Table 3: Land-Won Aggregates: Reserves and Landbanks as at 31 Dec 2016**

	<b>Reserves (as at 31/12/16)</b>	<b>Annual Call On Reserves (2005-20)</b>	<b>Landbank (years) based on sub- regional apportionment</b>	<b>Landbank (years) based on rolling average 10 yr sales</b>
<b>Sand &amp; Gravel</b>				
Bedford, Central Bedfordshire & Luton	18,341	1,840	10.0 years	14.3 years
Cambridgeshire & Peterborough	43,920	2,880	15.3 years	19.0 years
Essex, Thurrock & Southend-on-Sea	35,368	4,450	7.9 years	10.8 years
Hertfordshire	11,752	1,390	8.5 years	10.2 years
Norfolk	16,536	2,570	6.4 years	11.7 years
Suffolk	12,747	1,620	7.9 years	11.0 years
<b>East of England</b>	<b>138,664</b>	<b>14,750</b>	<b>9.4 years</b>	<b>13.1 years</b>
<b>Crushed Rock</b>				
Cambridgeshire & Peterborough Limestone and Norfolk Carstone <sup>6</sup>	4,881	400 (200 per Authority)	12.2 years	12.6 years

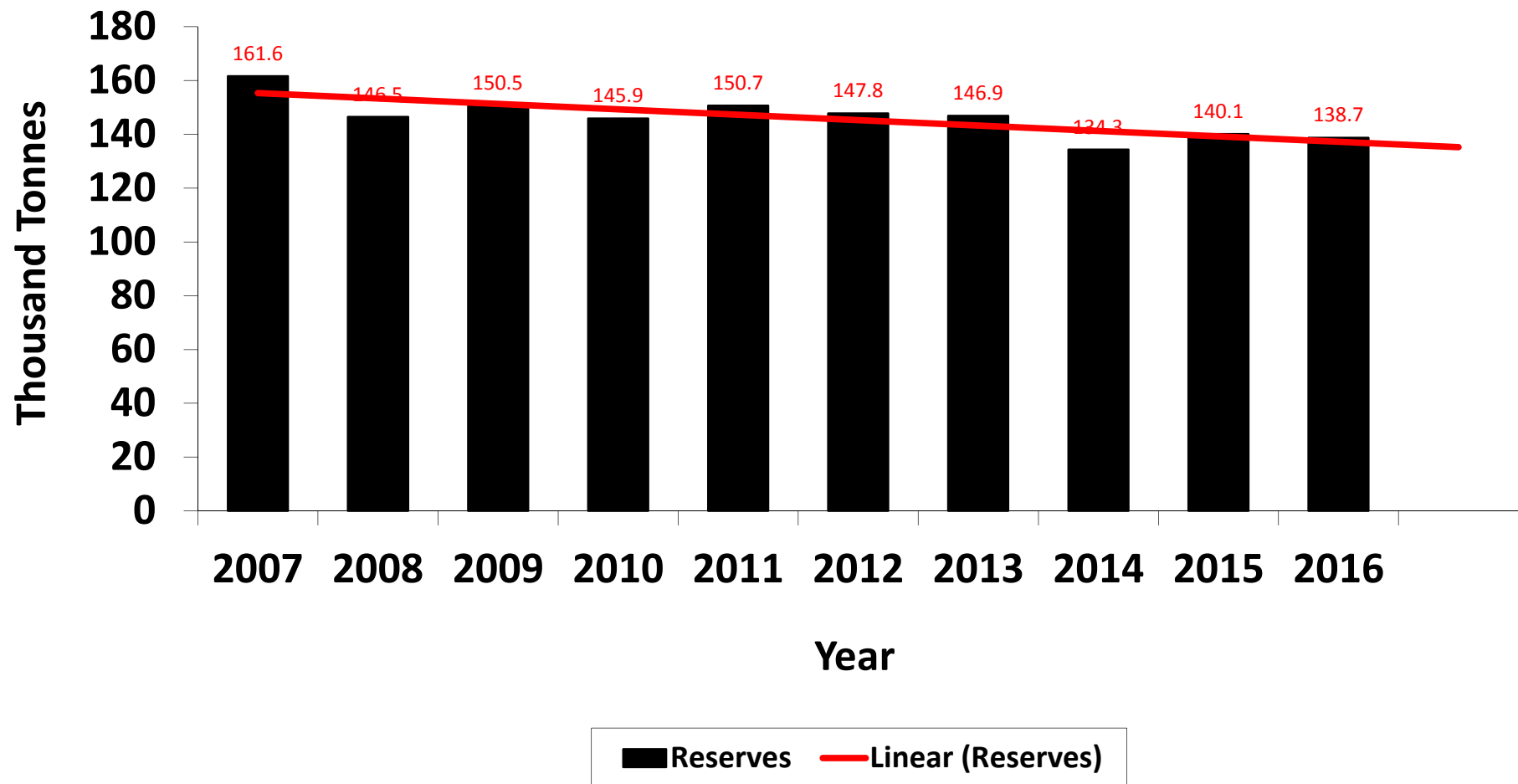
<sup>6</sup> Reserves of Crushed Rock within Cambridgeshire & Peterborough have been combined with those within Norfolk for reasons of confidentiality.

**Figure 3: Reserves of Sand and Gravel by MPA (2016)**





**Figure 4: Reserves of Sand and Gravel in the East of England 2007 - 2016**



## **Section 3: Non-Energy Minerals**

- 3.1 DCLG 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 be chalk, building stone and clay. For 2016 data has only been supplied by a single MPA within the East of England, Hertfordshire, where non-energy minerals other than crushed rock have been used for aggregate purposes within its area.
- 3.2 During 2016, sales of non-energy minerals within Hertfordshire totalled 14,200 tonnes and by the year end reserves totalled 613,300 tonnes, bolstered by a planning permission granted at Bovingdon Brickworks for the extraction of some 285,000 tonnes of brick clay. It should be noted that not all non-energy mineral sites within Hertfordshire provided a return. The figure for reserves as at the end of 2016 represents a substantial uplift of 71% compared with the reserves recorded at the end of 2015 which stood at 358,500 tonnes.

## **Section 4: Secondary and Recycled Aggregates**

- 4.1 The NPPF specifically requires MPAs to take account of the contribution made by substitute, secondary and recycled aggregates before considering the extraction of indigenous materials.
- 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. These include incinerator bottom ash and blast furnace slag.
- 4.3 Recycled aggregates comprise materials produced by the recycling of construction and demolition waste and include crushed concrete, bricks, glass, asphalt planings and spent rail ballast.
- 4.4 Even though these materials continue to play an increasingly important role as a substitute for primary aggregates it has continued to prove difficult to obtain accurate figures of the volumes produced.

### **Location of Recycling Facilities**

- 4.5 The locations of authorised recycling facilities throughout the East of England are set out in Appendix 7.

## Section 5: Road Planings arisings

- 5.1 DCLG requires information on road planing arisings. The Highway Authorities for each MPA are likely to hold data on the volumes and tonnages of road planings produced and Table 5 below states road planing arisings in 2016.

**Table 5: Tonnage of Road Planing Arisings produced in East of England 2016**

Authority	Tonnage of road planing arisings (2016)
Bedford Borough, Central Bedfordshire, Luton Borough	Bedford = 14,751  Cent Beds = 3,142  Luton = <u>20,000</u> 37,893
Cambridgeshire & Peterborough	42,271
Essex, Thurrock & Southend- on-Sea	124,626
Hertfordshire	43,000
Norfolk	28,414
Suffolk	50,000
<b>Total</b>	<b>326,204</b>

- 5.2 Road planing arisings within the East of England in 2016 totalled 326,204 tonnes representing a slight fall (3%) from the figure recorded for 2015 of 337,262 tonnes.

## **Section 6: Imports and Exports between AWP Areas**

- 6.1 DCLG requires the Annual Monitoring Report to include data on imports and exports between AWP areas. This focuses on wharves and railhead facilities.

### **Imports**

- 6.2 Returns of data for imports during 2016 were not wholly complete on account of failure to receive returns from all operators. Of the returns received some 1.7 million tonnes of aggregate were imported into the East of England via aggregate rail depots and wharfs. The source of aggregate imported into the East of England was not identified by all MPAs providing data on imports but, of those that did, such material was imported from the following sources:
- East Midlands;
  - South West;
  - North Wales;
  - South Wales;
  - Northern Ireland;
  - Marine dredged.
- 6.3 It is noted that the recorded figure of 1.7 million tonnes for 2016 is more than 0.5 million tonnes below that recorded in 2015 at over 2.2 million tonnes. It is considered that the 2016 figure reported above remains an under-estimate caused by an incomplete set of returns and the fact that aggregates may have been imported via road. The AMR is unable to state the tonnages imported from each area for confidentiality reasons.

### **Exports**

- 6.4 As with imports, figures for exports in 2016 suffered, to a greater extent, from an incomplete set of survey returns with returns only received from two MPAs. Collectively these indicated that approximately 475,000 tonnes of aggregate was exported outside the East of England including a proportion of marine dredged aggregate. Information on destinations was also limited although London was unsurprisingly identified as a recipient. Whilst the return represents a significant uplift from that recorded as being exported in 2015, at approximately 100,000 tonnes, again, this figure is similarly considered to reflect an under-representation due to the incomplete set of survey returns being submitted.
- 6.5 Appendix 8 sets out the locations of Rail Depots and Wharves in the East of England in 2016.

## Section 7: Major Construction Projects

- 7.1 DCLG requires Annual Monitoring Reports to include information on major construction projects within the East of England.
- 7.2 In order to provide some focus, major construction projects have been taken to be significant transport/infrastructure projects and residential/mixed residential schemes in excess of 200 units. Table 6 below sets out those construction projects that have been identified in the East of England as commencing or on-going in 2016.

**Table 6: Major Construction Projects in the East of England 2016**

Mineral Planning Authority	Major Construction Projects
Bedford, Central Bedfordshire & Luton	<ul style="list-style-type: none"> <li>• Bedford Western Bypass</li> <li>• Riverside North Mixed Use development</li> <li>• A5-M1 Link Road</li> <li>• Woodside Link Road</li> </ul>
Cambridgeshire & Peterborough	<ul style="list-style-type: none"> <li>• Junction 20: new signalised junction</li> <li>• Bourges Boulevard, Peterborough, Phase 2 improvements</li> <li>• A1 improvements – enabling works commenced Autumn 2016 with main construction works starting late 2016 on improvements to the existing A1 from Alconbury to Brampton Hut</li> </ul>
Essex, Thurrock & Southend-on-Sea	<ul style="list-style-type: none"> <li>• A127/A132 Nevendon Interchange Improvement Scheme</li> <li>• Station &amp; Station Square Improvements, Chelmsford</li> <li>• A133 Cymbeline Way &amp; Colne Bank Avenue, Colchester</li> <li>• A414 Maldon – Chelmsford Improvements</li> <li>• Brook Street Roundabout, Colchester</li> <li>• Reconstruction of Fish &amp; Eels Bridge / Dobbs Weir Road</li> </ul>

Hertfordshire	<ul style="list-style-type: none"> <li>• GlaxoSmithKline, Ware – central archive building, respiratory manufacturing building, new manufacturing building &amp; research building</li> <li>• Woodside Industrial Estate, Bishops Stortford B1 Business Units</li> <li>• Former Letchworth Power Station, Letchworth Garden City 4 No. industrial units</li> <li>• Former Argos Depot, Welwyn Garden City 4 No. industrial / distribution units</li> <li>• Warner Bros Studios, Leavesden Studio Extension, Sound Stages 7 workshops</li> <li>• Land at Breakspear House. Hemel Hempstead Hotel &amp; Offices</li> <li>• Former Sainsbury's Distribution Depot, Buntingford, Phases 1-4 Mixed Use scheme</li> <li>• The Campus, Hemel Hempstead Mixed Use scheme Intu Centre, Watford Retail</li> <li>• Land NE Hemel Hempstead (357 dwellings)</li> </ul>
Norfolk	<ul style="list-style-type: none"> <li>• Northern Norwich Distributor Road</li> <li>• A12/143 Bradwell Link Road</li> <li>• Postwick Hub junction improvement</li> </ul>
Suffolk	<ul style="list-style-type: none"> <li>• Bury St Edmunds Eastern Relief Road</li> <li>• Moreton Hall High School</li> <li>• Lowestoft Enterprise Zone</li> </ul>

## **Section 8: Major Trends and Events**

### **East of England**

- 8.1 The sales of sand and gravel in the East of England during 2016 was 11.6 million tonnes (Mt). This represents an approximate 8% increase in the levels of sales experienced in 2015 which totalled 10.8 Mt, albeit a 12% drop since 2007. Nonetheless, sales during 2016 represented the third highest annual sales figure recorded for the ten year period since 2007.
- 8.2 Permitted reserves of sand and gravel within the East of England at the end of 2016 stood at 138.7 Mt. This represents only a 1% decrease since 2015 when the figure stood at 140.1 Mt. Whilst reserves within the East of England as at the end of 2016 represent over a 3% increase from that recorded in 2014 at 134.3Mt, the level of reserves continued the general downward trend over the 10 year period 2007 – 2016 as depicted in Figure 4. Using the apportionment figure derived from the National and Regional Guidelines 2005-2020 the landbank for the East of England slipped marginally from 9.5 years in 2015 to stand at 9.4 years.
- 8.3 The distribution of permitted reserves for sand and gravel between MPA's in 2016, as shown in Figure 3, remained broadly comparable with recent years. Essex, Southend-on-Sea and Thurrock increased its reserve proportion by 3% compared with 2015, whilst Cambridgeshire and Peterborough, increased their reserve proportion by 1%. Cambridgeshire and Peterborough accounted for 32% of permitted reserves with Essex, Southend-on-Sea and Thurrock contributing 26%. Bedford, Central Bedfordshire and Luton decreased their proportion by 1% since 2015 accounting for 13%, whilst Norfolk decreased its reserve proportion by the same margin contributing 12%. No change was recorded in Suffolk, which continued to contribute 9%, whilst Hertfordshire experienced a 2% decrease in its reserve proportion compared to 2015 accounting for 8%.
- 8.4 In terms of the level of new aggregate permissions in the East of England a total of 11.6 Mt of sand and gravel was approved during 2016 whilst nil was refused. This level of aggregate permissions was broadly in line with that approved in 2015 which totalled 11.1 Mt. Essex accounted for the bulk of such approvals in 2016 granting permission for in excess of 6 Mt. Further details on aggregate applications determined within the region are available within Appendix 6.
- 8.5. Within the East of England AWP area it is proposed to make provision for 14.75 million tonnes per annum (mtpa) of land-won sand and gravel and 0.4mtpa of crushed rock based on sub-national apportionment figures which, whilst approaching the end of the period for which the guidelines were established, remain of relevance for every authority. The MPAs have already planned for sufficient reserves to meet these figures on this basis through the forward planning process. The permitted reserves in the East of England at the end of 2016 would enable these figures to be achieved for 9.4 years for land-won sand and gravel and for 12.2 years in respect of crushed rock, although it should be noted that, for reasons of confidentiality, this represents a combined landbank in respect of both limestone and carstone. Applying the methodology in the NPPF based on the rolling average 10 year sales, however, the landbank for the East of England is calculated at 13.1 years for land-won sand and gravel and 12.6 years in respect of crushed rock.

- 8.6 The provision of 13.87 mtpa for land-won sand and gravel is in excess of the 10 year sales average (between 2007 - 2016) of 10.58 Mt. The 10 year average sales for crushed rock is 0.39 Mt which is only marginally below the apportionment figure of 0.4 Mt and consistent with the figures recorded in 2015. Overall there remains a healthy landbank of permitted aggregate reserves in the East of England. EEAWP can, therefore, advise the National Co-ordinating Group and DCLG that the Authorities comprising the East of England continue to offer a full contribution to both national and local aggregate needs.

### **Bedford Borough, Central Bedfordshire and Luton**

- 8.7 The 2016 aggregate sand and gravel sales for Bedford, Central Bedfordshire and Luton increased by 28% from 2015 to stand at 1.69 Mt, a figure broadly in line with sales recorded in 2014. The 10 year sales average in the area for 2007 - 2016 stood at 1.28 Mt representing a minor dip from the 10 year average over the 2006 - 2015 period of 1.26 Mt. Reserves of sand and gravel in the area at the end of 2016 saw a 5.4% decrease over the previous year resulting in a landbank of 10 years, marking a slight reduction in the landbank recorded at the end of 2015 of 10.5 years. Applying the methodology in the NPPF based on the rolling average 10 year sales, indicates a landbank of 14.3 years for land-won sand and gravel. With reference to the longer term trend (Appendix 5), it is again highlighted that the reserves figure returned for 2014, produced as part of the national survey, appears dubious. It should also be noted that some of the sales figures have been used for industrial sand and reserve figures have been adjusted down by 50% at the relevant sites to reflect this. Planning permission was issued for extensions at the Black Cat Quarry providing in excess of 500,000 tonnes of sand and gravel. This is one of the six strategic mineral sites allocated for the supply of aggregate sand and gravels over the Plan period and providing evidence that such allocated reserves are coming forward.

### **Cambridgeshire and Peterborough**

- 8.7 In Cambridgeshire and Peterborough sales of sand and gravel during 2016 totalled 2.56 Mt virtually identical to those recorded in 2015 at 2.55 Mt. Aggregate sand and gravel reserves in 2016 for Cambridgeshire and Peterborough at the end 2016 stood at 43.92 Mt, a small rise of 1.4% since 2015. Based on the available figures the landbank at the end of 2016 was 15.3 years, a marginal increase in that recorded at the end of 2015 at 15 years. Based on the NPPF methodology of a rolling average of 10 year sales, however, a landbank of 19 years is achieved.
- 8.9 Cambridgeshire and Peterborough is also required to meet an apportionment for the production of crushed rock, namely limestone. Sales information pertaining to crushed rock in Cambridgeshire and Peterborough has been collated with crushed rock sales in Norfolk for confidentiality reasons.
- 8.10 Reserves of limestone from Cambridgeshire and Peterborough, coupled with carstone reserves from Norfolk, at the end of 2016 increased by 10.6% since the previous year to 4.88 Mt which resulted in a combined landbank of 12.2 years applying the apportionment figures. This landbank increases marginally to 12.6 years using the methodology set out in the NPPF.



## **Essex, Thurrock and Southend-on-Sea**

8.11 The sales of sand and gravel for the Essex area in 2016 at 3.4 Mt have seen a small decrease of 1.5% increase since 2015 with the 10 year sales average over 2007 - 2016 dipping marginally to 3.27 Mt from that recorded over 2006 – 2015 at 3.33mt. Reserves within Essex for 2016 at 35.4 Mt increased by 8.2% over those recorded for the previous year equating to a landbank for sand and gravel in the Essex area of 7.9 years, slightly up on 7.3 year landbank recorded at the end of 2015. Applying the NPPF methodology based on a rolling average of 10 year sales, indicates a landbank of 10.8 years. The reserves recorded for 2016 represent a figure in excess of the 3 year average of 32.9 Mt (2014 – 2016) but below the 10 year average of 36.4 Mt (2007 - 2016). Planning permission was granted for over 6 Mt of additional sand and gravel over the course of 2016, the largest contribution by any of the MPAs within the East of England.

## **Hertfordshire**

8.12 Sales of sand and gravel in Hertfordshire during 2016 stood at 1.16 Mt representing a slight decrease of 4.9% since 2015 which results in a 10 year sales average of 1.15 Mt. The reserves of sand and gravel in the area at the end of 2016 saw a decrease of 11.1% since the previous year standing at 11.75 Mt. The landbank for sand and gravel in Hertfordshire at the end of 2016 stood at 8.5 years. Using the 10 year sales average as set out in the NPPF this increases to 10.2 years. The 3 year average for reserves over 2014 – 2016 stood at 13.14 Mt with the 10 year average (2007 -2016) indicating a similar level at 13.13 Mt. Planning permission was granted for over 300,000 tonnes of additional sand and gravel over 2016. A further permission was issued for nearly 300,000 tonnes of brick clay which boosted Hertfordshire's reserves of non-energy minerals at the end of the year to over 600,000 tonnes.

## **Norfolk**

8.13 Within Norfolk the sales of sand and gravel in 2016 increased by 14.7% since 2015 to 1.62 Mt. This level of sales exceeded both the 3 year sales average (2014 – 2016) of 1.5 Mt and the 10 year sales average (2007 – 2016) of 1.42 Mt. The level of reserves for Norfolk at the end of 2016 stood at 16.5 Mt which represents a 9.6% decrease on the previous year, but broadly in line with the 10 year average sales figure over 2007 – 2016.. Norfolk's landbank for sand and gravel in 2014 stood at 6.4 years, thereby dipping marginally below the threshold identified in the NPPF although it is noted that the 2016 reserves figure was not bolstered by any grant of planning permission for additional sand and gravel during the year. Applying the NPPF methodology based on a rolling average of 10 year sales, however, increased the landbank to 11.7 years.

8.14 Norfolk is also required to meet an apportionment for crushed rock, namely carstone, in addition to that for sand and gravel. As noted above, the figures for crushed rock have been combined with those relating to limestone within Cambridgeshire and Peterborough in order to avoid disclosure of confidential data. The sales of Norfolk carstone and Cambridgeshire and Peterborough crushed rock for 2016 were recorded as 0.46 Mt tonnes. This represented a 0.1 Mt increase since 2015 equating to an 29.2% uplift. This level of sales is slightly below the 3 year average sales (2014 – 2016) of 0.49 Mt, largely due to a substantial sales figure recorded in 2014, but in excess of the 10 year average sales figure (2007 – 2016) of 0.39 Mt. Reserves as at the end of 2016, again combined for confidentiality reasons, stood at 4.88 Mt, a 10.6% increase from the previous year, equating to a combined landbank of 12.2 years. The combined landbank is slightly elevated to 12.6 years using the NPPF methodology.

## **Suffolk**

- 8.15 Sales of sand and gravel for Suffolk in 2016 were recorded as 1.2 Mt which represents a 38.1% increase from the previous year. This level of sales exceeds both the 3 year average sales figure (2014 – 2016) of 1.03 Mt and the 10 year average sales figure (2007 – 2016) of 1.16 Mt. Reserves of sand and gravel in the area at the end of 2016 saw a 3.4% fall from the previous year's figure and standing at 12.71Mt. This results in a landbank for sand and gravel of 7.9 years, a marginal drop from the previous year. A landbank figure of 11.0 years is, however, indicated using the NPPF methodology. Planning permission was granted for in excess of 1 Mt of additional sand and gravel reserves during 2016.
- 8.16 It should be noted that the 2012 AMR reported a reserve figure of 14mt. This was an error and included additional mineral which was released when the sand and gravel Flixton extension was granted planning permission in March 2013.

**Appendix 1: Membership of the East of England Aggregates Working Party  
in 2016**

<b>Chairman</b>	
Andrew Cook	Essex County Council (until July 2016)
Richard Greaves	Essex County Council (as from July 2016)
<b>Secretariat</b>	
Susan Marsh	Central Bedfordshire Council
Jerry Smith	Central Bedfordshire Council
<b>Mineral Planning Authority Representatives</b>	
Ann Barnes	Cambridgeshire County Council
Roy Romans	Central Bedfordshire, Bedford Borough and Luton Councils
Philip Dash	Essex County Council
Alethea Evans	Essex County Council
Trish Carter-Lyons	Hertfordshire County Council
Chris Stanek	Peterborough City Council
Richard Drake	Norfolk County Council
Richard Hatter	Thurrock Borough Council
Mark Shepherd	Southend BC
Graham Gunby	Suffolk County Council
Irina Davis	Suffolk County Council
<b>Minerals Industry Representatives</b>	
Richard Fifield	BMAPA
Mark Russell	BMAPA
Peter Dawes	Frimstone Ltd/BAA
Chris Hemmingsley	Brett Aggregates Ltd
Kirsten Hannaford-Hill	Aggregate Industries/MPA (as from July 2016, previously representing Cemex/MPA)
Keith Bird	Hanson UK
Bob Smith	Hanson UK
Mark North / David Payne	Mineral Products Association (MPA)
Nick Horsley	MPA
Mike Pendock	Tarmac
Peter Lemon	Middaggs
Trefor Evans	British Aggregates
<b>Other Representatives</b>	
Eamon Mythen	Communities and Local Government (DCLG)
Nat Percival	Marine Management Organisation

## Appendix 2: East of England Aggregates Working Party Activities in 2016

### 2016

Three meetings were held on 25 February, 29 June and 2 November. The following items were discussed during the first meeting held in February:

- Update on the draft National Survey;
- Update on Annual Survey;
- Preparation of LAAs for 2014 and 2015;
- Norfolk County Council Draft LAA and Silica Sand Assessment 2014;
- Future funding of the Aggregates Working Party Secretariat;
- National Planning Update. This covered the Cutting Red Tape Challenge in respect of minerals; The John Rhodes Task Group on Local Plans; the Annual Mineral Raised Inquiry Survey; The Technical Consultation on Implementation of Planning Changes in respect of minerals and waste and Devolution;
- It was commented that the intention is to set up an AWP Technical Secretariat meeting with a view to holding a National Co-ordinating Group meeting once all AWP meetings had been concluded in March and the National Aggregates survey had been published;
- Feedback from the October 2015 meeting of SSPOLG looking at the implications for the London Plan with the impact of development upon existing wharves identified in particular

At the June meeting the following items were discussed:

- The Group considered the draft Annual Monitoring Report for 2014 and 2015;
- National Planning Issues covering continued DCLG funding of the Joint Minerals Information Programme, the Aggregate Mineral Survey and nine AWP Technical Secretariats, and Mineral Consultation Areas / Mineral Safeguarding Areas with safeguarding of wharves and railheads noted as being key. The Group expressed concern that the 2020 figures for sub-regional apportionment are becoming outdated and agreed that a letter be sent to DCLG highlighting the issue.
- The Group agreed to elect Richard Greaves of Essex County Council as Chair for the forthcoming year following the decision of Andrew Cook to step down on account of work commitments.

At the November meeting the following matters were discussed:

- The agreed Annual Monitoring Report would be uploaded to the web pages for the EEAWP on Central Bedfordshire's website;
- Publication of the Aggregate Mineral Survey 2014 was noted;
- Feedback from the October 2016 meeting of the AWP Secretaries was shared confirming that funding was in place for AWP's in 2016/17 but not for 2017/18; a template for a LAA executive summary; pressure for a meeting of the National Coordinating Group to provide clarity on contract related issues; and discussion on merits of changing the national survey to 5 yearly intervals.

- The Group discussed issues relating to the fact that current apportionment figures are based upon the revised national guidelines covering the period to 2020 and acknowledging the National Coordinating Group is unlikely to be meeting in the foreseeable future. It was agreed that a new letter be issued to the EEAWP members highlighting the need to reflect national policy and guidance when making provision for sand and gravel in local plans.
- Representatives from the minerals planning authorities summarised key findings from their draft LAAs and the Group agreed that none of the drafts raised any concerns of a strategic nature. A further two week period was allowed for any detailed comments to be made directly to the relevant mineral planning authority.
- An update of national planning issues covered resources and DCLG restructuring; progress on the Neighbourhood Planning Bill, the Housing and Planning White Paper and Cutting Red Tape; and Secretariat contracts. It was confirmed that the Minerals Strategy was being industry driven.

### Appendix 3: Permitted Aggregate Extraction Sites in 2016

<b>Bedford Borough, Central Bedfordshire and Luton</b>		
<b>Address</b>	<b>Grid reference</b>	<b>Site Operator</b>
<b>Sand and gravel</b>		
Cainhoe	TL 102 375	Thomas Brothers Ltd
Willington (incl Octagon Farm)	TL 097 502	Breedon Group
Black Cat	TL 16480 55480	Breedon Group
Broom South	TL 17321 41838	Tarmac Ltd
Potton/Myers Farm (sand only)	TL 225 503	Breedon Group
Sandy Heath (sand only)	TL 205 492	Tarmac Ltd
Simpsonhill Plantation (sand only)	TL 082 372	Forterra
Churchways (including Checkleywood and Riddy's Pit)	SP 936 294	Aggregate Industries UK Ltd
Grovebury Quarry, Grovebury Road	SP 924 238	Aggregate Industries UK Ltd
Mundays Hill	SP 940 282	Aggregate Industries UK Ltd
Fox Corner <sup>7</sup>	SP 928 293	DB Standing & Son
Bryants Lane	SP 929 288	M O'Brien (t/a LB Silica Sand Ltd)
Reach Lane	SP 932 284	M O'Brien (t/a LB Silica Sand Ltd)
Chamberlains Barn	SP 932 265	AWE
Double Arches	SP 938 288	Aggregate Industries UK Ltd

<b>Cambridgeshire &amp; Peterborough</b>		
<b>Address</b>	<b>Grid reference</b>	<b>Site Operator</b>
<b>Sand &amp; Gravel</b>		
Active		
Dernford Farm, Sawston	546830 250960	RJD Ltd
Mepal Quarry (Sutton Gault)	541650 282090	Frimstone
Must Farm (part)	523080 296950	Hanson Aggregates
Needingworth Quarry	538740 273010	Hanson Aggregates
Block Fen II	542500 284000	Lafarge Aggregates Ltd
Kennet	569000 268760	Mick George Ltd
Witcham Meadlands/Mepal Quarry	544200 284100	Aggregate Industries UK Ltd
Must Farm (part)	523080 296950	Hanson Aggregates
Little Paxton Quarry II	520000 264200	Aggregate Industries UK Ltd
Pode Hole Quarry	526000 303150	Aggregate Industries UK Ltd
Briggs Farm, Prior's Fen	524999 301056	P J Thory

<sup>7</sup> Virtually exhausted. Nominal tonnage extracted to keep permission alive but principally subject to restoration operations

Tanholt / Eyebury Quarry	523800 301650	Cemex
Maxey Quarry	513400 307310	Tarmac
Thornhaugh II	505750 299400	Aggregate Industries UK Ltd / Mick George Ltd
Cook's Hole	505227 299722	Mick George Ltd
<b>Limestone</b>		
Dimmock's Cote (Crushed rock)	554480 272390	Francis Flower Ltd
Thornhaugh II	505750 299400	Aggregate Industries UK Ltd / Mick George Ltd
Cross Leys Quarry	502800 300600	Mick George Ltd
Cook's Hole	505227 299722	Mick George Ltd

<b>Essex, Thurrock &amp; Southend-on-Sea</b>		
<b>Site Name</b>	<b>Grid Ref</b>	<b>Site Operator</b>
<b>Sand &amp; Gravel</b>		
Martell's Quarry, Ardleigh (including Silica sand)	60508 22828	Aggregate Industries UK Ltd
Bradwell Quarry, Silver End	58198 22108	Blackwater Aggregates
Alresford Creek, Alresford	60621 22085	Brett Aggregates
Brightlingsea Quarry	60705 21839	Brett Aggregates
Elsenham Quarry, Elsenham	55486 22691	Brett Aggregates
Lufkins Farm, Thorrington Road, Great Bentley	60974 22208	Brett Aggregates
Widdington	55274 23102	Carr & Bircher Ltd
Royal Oak, Danbury	58036 20510	Danbury Aggregates
St Cleres Pit, Danbury	57623 20578	Danbury Aggregates
Curry Farm, Bradwell-on-Sea	59960 20550	Dewicks
Crumps Farm, Gt Canfield	58815 22105	Edviron Ltd
Blackleys Quarry, Great Leighs	57300 21930	Frank Lyons Plant Services Ltd
Asheldham	59776 20138	G&B Finch Ltd
Rivenhall Airfield (Waste Facility)	58232 22047	Gent Fairhead & Co Ltd
Birch Quarry	59275 21957	Hanson Aggregates
Bulls Lodge Quarry, Boreham	57362 21173	Hanson Aggregates
Fingringhoe Quarry	60432 22013	J J Prior Ltd
Colchester Quarry, Stanway	59488 22265	Tarmac
Wivenhoe Quarry	60577 22210	Tarmac
Mill House Farm, West Tilbury	56583 17906	RJD Ltd
Orsett Quarry- Stanford-le- Hope (Thanet Sand)	56711 18058	RJD Ltd
Cobbs Farm	58900 20855	Sewells Reservoir Construction Ltd
Crown Quarry (Ardleigh Reservoir Extension)	60288 22937	Sewells Reservoir Construction Ltd
Highwood Quarry, Little Easton	55993 22270	Sewells Reservoir Construction Ltd
East Tilbury Quarry	56874 17798	S Walsh and Sons Ltd

<b>Hertfordshire</b>		
<b>Site Name</b>	<b>Grid Ref</b>	<b>Site Operator</b>
<b>Sand &amp; Gravel</b>		
Anstey Chalk Quarry	53934 23302	The Anstey Quarry Co. Ltd
Bedwell Park Quarry	52823 20917	Bedwell Park Quarry Co.
Codicote Quarry	52126 21706	Codicote Quarry Ltd
Bovingdon Brick Works	50040 20299	Bovingdon Brick Works Ltd
Great Westwood Quarry	50717 19879	Cemex UK
Hatfield Quarry	51891 20843	Cemex UK
Hoddesdon Quarry	53538 20762	Ingrebourne Valley Ltd
Panshanger Park Quarry	52918 21271	Lafarge Tarmac Ltd
Pole Hole / Hollingson Meads	54519 21229	Frank Lyons Plant Services Ltd
Rickneys Quarry	53225 21552	Hanson Aggregates
Thornley Hall Farm	54882 21812	David Tinney
Tyttenhanger Quarry	51920 20560	Lafarge Tarmac Ltd
Water Hall Quarry	52982 20979	Frank Lyons Plant Services Ltd
Westmill Quarry	53418 21616	Cemex UK

<b>Norfolk</b>		
<b>Site</b>	<b>Grid ref</b>	<b>Site Operator</b>
<b>Sand &amp; Gravel</b>		
Holt	6075,3372	Cemex
Attlebridge	6147 3160	Cemex
Litcham	5899,3167	East Anglian Stone
Crimplesham	5667,3036	Frimstone
Tottenhill	5630,3118	Frimstone
Pentney	5690,3126	Middleton Aggregates
Middleton	5680,3153	Middleton Aggregates
Earsham	6319,2900	Earsham Gravels
Kirby Cane	6380,2833	Lyndon Pallett Group
Carbrooke	5950,3000	Four Leaf Enterprises
Shropham	6003,2940	Breedon Aggregates
Easton	6145,3100	Lafarge Tarmac
Stanfield	5946,3203	East Anglian Stone
Feltwell	5740,2920	Frimstone
Burgh Castle	6483,3042	Folkes Plant
Wymondham	6136, 3002	Longwater Gravel
Raveningham/Norton Subcourse	6402,2993	Cemex
East Bilney	5965,3188	Middleton Aggregates
East Rudham	5832,3310	Longwater Gravel
Middleton	5675,3144	Delta Roadstone
Carbrooke	5950,3000	Frimstone
Mundham	6338,2971	Earsham Gravels
Easton	6140, 3111	Cemex
Weeting	5788,2870	Lignacite
Horstead	6252,3203	Longwater Gravel
Buxton	6243,3214	Frimstone
Swardeston	6221,3033	Lafarge Tarmac
Beeston Regis	6469,3411	Carter Concrete



<b>Norfolk</b>		
Wormegay	5678,3129	Delta Roadstone
Spixworth	6230,3160	Lafarge Tarmac
Horstead	6258,3183	Lafarge Tarmac
Stody	6075,3338	Frimstone
Longham	5936,3174	McLeod Aggregates Ltd
East Beckham	6154,3407	Gresham Gravels
<b>Crushed Rock</b>		
Middleton	5680,3153	Middleton Aggregates
Snettisham	5684,3349	Frimstone

<b>Suffolk</b>		
<b>Site</b>	<b>Grid ref</b>	<b>Site operator</b>
<b>Sand &amp; Gravel</b>		
Sandy Lane Quarry, Barham	6135 2515	Brett Aggregates Ltd
Gallows Hill Quarry, Barking	6120 2514	Tarmac
Folly Farm Quarry, Tattingstone	6123 2364	Shotley Holdings Ltd
Blood Hill Quarry, Bramford	6110 2487	J T Few
Red House Farm Quarry, Bucklesham	6250 2406	Tarmac
Marstons Pit, Cavenham	5759 2714	Allen Newport Ltd
Shrublands Quarry, Coddenham	6120 2537	Brett Aggregates Ltd
Flixton Quarry, Flixton	6298 2865	Cemex UK Materials Ltd
Foxhall Quarry, Foxhall	6243 2438	Eurovia
Henham Quarry, Henham	6453 2789	Lyndon Pallett
Rands Hall Pit, Layham,	6010 2398	Brett Aggregates Ltd
Sheepdrift Fram Quarry, Waldringfield	6260 2448	Brett Aggregates Ltd
Wangford Quarry, Wangford	6465 2778	Cemex UK Materials Ltd
Lawn Farm Quarry, Wetherden	5995 2625	Aggmax
Pannington Hall Quarry, Wherstead	6140 2398	Brett Aggregates Ltd
Bay Farm Quarry, Worlington	5695 2715	Frimstone Ltd
Peyton Hall Farm Quarry, Hadleigh	6022 2442	Buffalo Crow
North Farm Quarry, Barnham	5845 2795	Elveden Estate

**Appendix 4: Aggregate Sales in the East of England (2007–2016)**

<b>SALES (Thousand Tonnes)</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>3 yr Avg (2014 - 2016)</b>	<b>5 yr Avg (2012 - 2016)</b>	<b>10 yr Avg (2007 - 2016)</b>
<b>Sand and Gravel</b>													
Bedford, Central Bedfordshire & Luton	1,612	1,016	944	1,040	1,115	1,197	1,255	1,622	1,322	1,692	1,545	1,418	1,282
Cambridgeshire & Peterborough	2,820	3,052	2,315	1,800	1,703	1,783	1,837	2,650	2,548	2,565	2,588	2,277	2,307
Essex, Thurrock & Southend-on-Sea	4,091	3,288	2,794	2,986	2,803	2,303	3,184	4,368	3,454	3,400	3,471	3,342	3,267
Hertfordshire	1,010	989	1,214	1,173	1,268	1,124	1,130	1,210	1,224	1,165	1,200	1,171	1,151
Norfolk	1,978	1,586	1,378	1,186	1,290	1,131	1,115	1,462	1,415	1,623	1,500	1,349	1,416
Suffolk	1,730	1,403	1,037	1,104	1,078	1,088	1,061	1,000	871	1,203	1,025	1,045	1,158
<b>East of England</b>	<b>13,241</b>	<b>11,334</b>	<b>9,682</b>	<b>9,289</b>	<b>9,257</b>	<b>8,626</b>	<b>9,582</b>	<b>12,312</b>	<b>10,834</b>	<b>11,648</b>	<b>11,598</b>	<b>10,600</b>	<b>10,581</b>
<b>Crushed rock</b>													
East of England	419	513	337	228	262	287	355	668	353	456	492	424	388

**Appendix 5: Aggregate Sand and Gravel reserves in the East of England (2007-2016)**

<b>RESERVES (Thousand Tonnes)</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>3 yr Avg (14-16)</b>	<b>5 yr Avg (12-16)</b>	<b>10 yr Avg (07- 16)</b>
Bedford, Central Beds & Luton	25,341	19,334	20,364	22,898	21,573	21,700	21,726	13,559	19,386 <sup>8</sup>	18,341	17,095	18,942	20,422
Cambs & Peterboro'	45,684	45,490	49,918	46,200	45,246	<b>47,138<sup>9</sup></b>	48,967	45,410	43,330	43,920	44,220	45,753	46,130
Essex, Thurrock & Southend- on-Sea	46,684	39,191	36,706	36,934	37,014	35,503	32,885	30,724	32,687	35,368	32,926	33,433	36,370
Herts	10,841	10,869	10,619	10,786	16,700	15,792	16,260	14,440	13,216	11,752	13,136	14,292	13,128
Norfolk	17,393	16,069	18,021	15,435	16,079	14,559	13,335	16,922	18,288	16,536	17,249	15,928	16,264
Suffolk	15,640	15,505	14,880	13,615	14,110	<b>13,100<sup>10</sup></b>	13,705	13,205 <sup>11</sup>	13,190	12,747	13,047	13,189	13,970
<b><i>East of England</i></b>	<b>161583</b>	<b>146,458</b>	<b>150,508</b>	<b>145,868</b>	<b>150,722</b>	<b>147,792</b>	<b>146,878</b>	<b>134,260</b>	<b>140,097</b>	<b>138,664</b>	<b>137,674</b>	<b>141,538</b>	<b>146,283</b>

<sup>8</sup> Where some reserves have been used for industrial sand, reserves have been adjusted down by 50% at the relevant sites to account for this.

<sup>9</sup> This figure is taken from the Cambridgeshire and Peterborough LAA (published Dec 2013) and is higher than the final figure reported in the EEAWP collation form for 2012.

<sup>10</sup> The 2012 collation form included an extension to a site which was not permitted until 2013. This explains the reason for a higher reserves figure reported in the 2012 report.

<sup>11</sup> Assumed entry in BGS Survey of 3,752 thousand tonnes is incorrect and relied on figure in Suffolk CC's return.

<b>RESERVES (Thousand Tonnes)</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>3 yr Avg (14-16)</b>	<b>5 yr Avg (12-16)</b>	<b>10 yr Avg (07-16)</b>
Cambs & Peterboro' (Limestone) and Norfolk (Carstone)	5,987	4,462	3,550	3,182	5,976	5,510	5,610	4,807	4,415	4,881 <sup>12</sup>	4,701	5,045	4,838

<sup>12</sup> Figures for Cambridgeshire & Peterborough related to operations of fewer than three companies and so figures have been combined with Norfolk to avoid disclosure of confidential data

## Appendix 6: Applications Approved, Refused, Withdrawn and Undetermined 2016

MPA Bedford, Central Bedfordshire & Luton				
Site Name	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Eastern Way Quarries, Eastern Way, Heath & Reach	Silica Sand	Consolidating application for continued working of existing quarries encompassing review of old mineral permissions, extension to Mundays Hill Quarry, variation of hours for processing plant and comprehensive restoration	Undetermined	450,000 additional silica sand
Bedford Autodrome, Thurleigh	Aggregate Recycling	Removal of residual areas of concrete left over from the use of land as an airfield, known as Bedford Autodrome, & restoration of these areas to grassland. Importation of clean inert certified non-contaminated subsoil and topsoil to spread over where the concrete has been removed, cultivate and reseed these areas with appropriate grass seed. The formation of enhanced wader habitat by the creation of engineered swales and a pond together with the retention of a concrete platform.	Granted temporary Permission	N/A
Black Cat Quarry, A1, Chawston	Sand & Gravel	Extraction of sand and gravel as an extension to Black Cat Quarry with restoration to agriculture and nature conservation.	Granted Permission	650,000
Elstow Railhead Plant, The Old Brickworks, Elstow	Aggregate Recycling	Application for a Lawful Development Certificate for the Existing Use of B8 Storage and Distribution	Undetermined	N/A
<b>Permitted reserves =</b>				<b>650,000</b>

<b>MPA Cambridgeshire &amp; Peterborough</b>				
<b>Site Name</b>	<b>Mineral and grid ref</b>	<b>Description (mineral extraction or recycling)</b>	<b>Decision</b>	<b>Tonnage</b>
Kennet Hall Farm	Sand and Gravel 568899 268159	Non-material amendment relating to the Variation of Conditions 3, 4, 6, 28, 29 & 33 of planning permission E/03011/05/CM	Granted permission	N/A
Dimmocks Cote Quarry	Limestone 553753 272273	Extension to Quarry for extraction of limestone, provision of new storage building, importation of inert fill, ancillary recycling of inert material and revised restoration	Granted permission	Undisclosed
Block Fen	Sand & Gravel 542849 283772	Non-material amendment to phasing of mineral extraction operations	Granted permission	N/A
Lyons Farm	Sand and Gravel 544355 287921	Completion of construction of 2 agricultural irrigation reservoirs by the extraction & export off site of approx. 685,000 tonnes of unprocessed sand and gravel (subject to revised conditions)	Granted permission	N/A

Dernford Farm	Sand and Gravel 546894 250994	Development (extraction & processing of sand and gravel with construction of an agricultural reservoir) without compliance with Condition 3 of permission S/01669/02/CM as varied by S/01283/10/CM to extend time for completion of reservoir to 31 December 2015.	Granted permission	N/A
Pode Hole	Sand and Gravel	Extension to existing quarry site	Undetermined	1,980,000
Pasture House Farm	Sand and Gravel	Quarry (with inert fill restoration)	Granted Permission	Not disclosed
Chesterton Rail Freight Siding	Sand, reclaimed asphalt & granite	Variation of Cond 8 of Permission S/0467/13/CM (Proposed reconfiguration & consolidations of existing minerals processing & transfer operation including installation of covered mineral storage bays, alterations & extensions to existing feeder unit. New office, welfare & workshop buildings, reconfiguration of site circulation & parking area, new boundary fencing & other works associated with relocating rail sidings to serve mineral processing site) to allow a phased construction process requiring the completion of	Granted Permission	N/A

		reconfiguration within 6 months of the first delivery of rail-borne aggregate to the site.		
Chesterton Rail Freight Siding	Sand, reclaimed asphalt & granite	Application for the approval of details reserved by Cond 24 – foul & Surface Water Drainage Scheme of original application S/0009/15/CM	Granted Permission	N/A
Chesterton Rail Freight Siding	Sand, reclaimed asphalt & granite	Proposed reconfiguration & consolidations of existing minerals processing & transfer operation including installation of covered mineral storage bays, alterations & extensions to existing feeder unit. New office, welfare & workshop buildings, reconfiguration of site circulation & parking area, new boundary fencing & other works associated with relocating rail sidings to serve the mineral processing site	Granted Permission	N/A
Dogsthorpe Landfill	Recycling	Inert Recycling Facility	Granted permission	75,000 tpa
Dogsthorpe EMR	Recycling	Waste Recycling Facility (amendments to layout, drainage & car parking or existing facility)	Undetermined	200,000 tpa
<b>Permitted reserves = Undisclosed</b>				



<b>MPA Essex, Thurrock &amp; Southend-on-Sea</b>				
<b>Site Name</b>	<b>Mineral</b>	<b>Description</b>	<b>Decision</b>	<b>Tonnage</b>
Blackley Quarry	Sand and Gravel	Extraction of estimated reserve of 2.8M tonnes	Granted permission	2,800,000
Coleman's Farm	Sand and Gravel	Quarry extraction of 2.5M tonnes.	Granted permission	2,500,000
Elmstead Hall, Elmstead, Colchester		Construction of irrigation reservoir	Granted permission	780,000
<b>Permitted reserves = 6,080,000</b>				

<b>MPA Hertfordshire</b>				
Bovingdon Brickworks	Brick Clay 500300 202600	Brick Clay extraction with restoration primarily to agricultural use, ancillary works to construct a road crossing over Shantock Hall Lane & a haul road into Bovingdon Brickworks.	Granted Permission	285,000
Harper Lane Quarry	Sand and Gravel 515961 201671	Variation of Cond 12 of Permission 5/2596-08 to allow a change in working hours for the ready mix concrete plant.	Granted permission	N/A
Harper Lane Rail & Recycling Depot	Sand and Gravel 516104 201762	Erection of replacement welfare facilities adjacent to the ready mix concrete / mortar plant in the form of a single storey portacabin unit and provision of parking area for 4/5 vehicles.	Granted permission	N/A

Pynesfield, Maple Cross	Sand and Gravel 503360 190455	Mineral extraction, processing & importation of sand and gravel and reclamation materials for Denham Park Farm with restoration to agriculture & a small wetland area.	Allowed on appeal (permission until July 2017)	300,000 – 350,000
Land at Ware Park	Sand and Gravel 532500 215000	Phased extraction of sand & gravel, mobile dry screening plant , stockpile area, weighbridge, wheel cleaning facilities, ancillary site offices together with construction of a new access onto Wadesmill Road & phased restoration of landscaped farmland at a lower level.	Undetermined	2,600,000
Rickneys	Sand and Gravel 53225 21552	Variation of Condition 2 of permission 3/0629-06 to vary date of commencement to be no later than eight years from the date of the original permission i.e. up to until 23 Dec 2017 for sand and gravel extraction.	Undetermined – approval subject to S106	N/A

Hatfield	Sand and Gravel 51891 20843	Restoration to conservation after uses through the importation & final disposal of engineering materials comprising inert waste and soils. The use of part of the site for ongoing silt operations & subsequent restoration	Undetermined	N/A
Hatfield (Furzefield)	Sand and Gravel 518875 208516	Quarry extension for the extraction of approx. 0.45 million tonnes of sand & gravel from within 17.7 ha of land known as Furze Field, involving retention of quarry access road & site infrastructure facilities & restoration of the extension area to agricultural land & mixed habitats including wetlands, acid grassland & woodland planting.	Undetermined – approval subject to S106	450,000
Land at Hatfield Aerodrome	Sand and Gravel 5198 2083	New quarry on land at former Hatfield Aerodrome including a new access road 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.	Undetermined – approval subject to S106	8,000,000

Tyttenhanger	Sand and Gravel 51920 20560	Variation of Condition 33 of permission 0/1353-06 to increase permitted vehicle movements from 210 (105 in, 105 out) on weekdays and 106 (53 in, 53 out) on Saturdays to 380 (190 in, 190 out) on weekdays and 160 (80 in, 80 out) on Saturdays.	Undetermined	N/A
Tyttenhanger	Sand and Gravel 51920 20560	Temporary planning permission for a topsoil manufacturing facility using as-raised mineral from Tyttenhanger Quarry and PAS 100 QP compost.	Granted permission	N/A
Jacks Hill, Graveley	Hard demolition materials	Proposed Change of use of the existing waste management facility & B8 use to sui generis including construction of new waste processing building & modifications to access & egress arrangements	Undetermined	50,000 tpa
Birchall Lane, Cole Green	Hard demolition materials	Discharge of Conds 6 (Landscaping) & 7 (Restoration of Northern Boundary) relating to planning application 3/2261-12	Undetermined	N/A

Birchall Lane, Cole Green	Hard demolition materials	Discharge of Conds 8 (Drainage) & 13 (Phased Restoration Plan) relating to planning application 3/2261-12 at Eco Aggregates.	Undetermined	N/A
Birchall Lane, Cole Green	Hard demolition materials	Proposed inert waste recycling facility including associated stockpiling, maintenance infrastructure, access & landscaping	Granted Permission	350,000 tpa
Birchall Lane, Cole Green	Hard demolition materials	Discharge of Conds 6, 10, 12, 17, 18, 21, 22 & 24 on planning permission 3/1124-15	Undetermined	N/A
Harper Lane Rail Loop	Asphalt readymix	Discharge of Conds 3 (Contamination), 5 (Remediation) & 8 (Ground Water Protection Scheme) against original planning permission 5/04414-15	Undetermined	N/A
Harper Lane Rail Loop	Asphalt readymix	Application for proposed variation of Cond 12 of planning consent 5/2596-08 to enable a change in working hours for the ready mix concrete plant	Approved	N/A
Harper Lane Rail Loop	Asphalt readymix	Discharge of Cond 10 (Landscaping) for planning permission 5/0414015	Undetermined	N/A

Harper Lane Rail Loop	Asphalt readymix	Proposed application for the erection of replacement welfare facilities adjacent to the RMC/mortar plant in the form of a single storey portacabin unit & provision of parking for 4/5 vehicles. Proposed portacabin is a replacement to existing.	Approved	N/A
Land adjacent B197, North of Graveley		Proposed variation of Cond 7 of permission 1/0489-14 to change the no. of vehicle movements from 80 movements (40 in, 40 out) Monday – Friday & 40 movements (20 in, 20 out) Saturday to 160 movements (80 in, 80 out) Monday – Friday and 60 movements (30 in, 30 out) Saturday	Withdrawn	N/A
<b>Permitted reserves = 350,000</b>				

<b>MPA Norfolk</b>				
<b>Site Name</b>	<b>Mineral</b>	<b>Description</b>	<b>Decision</b>	<b>Tonnage</b>
Snettisham	Carstone 568535 334907	Increased depth of working	Granted Permission	360,000
East Beckham	Aggregate Recycling 615415 340792	Recycling inert waste	Granted Permission	5,000 tpa
Heron Farm Bunwell	Aggregate Recycling 608380 295167	Recycling inert waste	Refused	75,000 tpa
Old Quarry Hainford	Aggregate Recycling 623764 316799	Recycling inert waste	Refused	49,200 tpa
Pump Lane Caister	Aggregate Recycling 651859 311242	Recycling inert waste	Granted Permission	10,000 tpa
<b>Permitted reserves = 360,000</b>				

<b>MPA Suffolk</b>				
<b>Site Name</b>	<b>Mineral</b>	<b>Description</b>	<b>Decision</b>	<b>Tonnage</b>
Cavenham Quarry	Sand and gravel 5764 2715	Extension to quarry	Granted Permission	1,100,000
<b>Permitted reserves = 1,100,000</b>				

## Appendix 7: Permitted Aggregate Recycling Sites 2016

Aggregate recycling sites in Bedford, Central Bedfordshire & Luton		
Site	Grid Ref	Operator
<b>Active sites</b>		
Land to the North of Barford Rd, Blunham	TL 13948 51576	Acorn Transport & Plant Hire
North End Farm, Bletsoe	TL 02615 59602	C Jackson & Sons
Cow Close	TL 19221 43428	FD O'Dell and Sons Ltd
Goregong Farm, Podington	494600 262100	CAJ Resources Ltd
Unit 16, Harmill IE, Grovebury Rd, Leighton Buzzard	SP 92251 24022	M O'Brien Plant Hire
Octagon Farm, Cople, Willington	TL 09721 50296	Breedon Group
Old Sand Quarry, Haynes West End	507050 240505	S C Bradshaw Haulage
Heron's Farm	TL 06271 18696	Mr G Sayers
Cainhoe Quarry, Clophill	TL 10306 37755	Thomas Bros Exc Ltd
Land adj to A507, Clophill	TL 10288 37734	Winton Haulage Ltd
Goosey Lodge IE, Wymington	496200, 263930	Wykes Engineering

Aggregate recycling sites in Cambridgeshire and Peterborough <sup>13</sup>		
Active sites	Grid Ref	Operator
Unit 2 Vicarage Farm Road	521064 299348	Bourne Skip Hire & Recycling
Dogsthorpe EMR, Peterborough	520287 302329	Mick George Ltd
Dogsthorpe Landfill	521064 302061	Apex
Rear of Low Cross House, Padholme Road East*	521064 299138	Rose & Sons Plant Hire
Station Road, Thorney*	528129 305128	The Concrete Company

\*Unknown if active.

<sup>13</sup> Cambridgeshire County Council rely on EA Waste Interrogator for aggregate recycling centres information which is yet to be made available for 2016 at the time of the survey.



<b>Aggregate recycling sites in Essex, Thurrock Council and Southend-on-Sea Borough Council</b>		
<b>Site</b>	<b>Grid Ref</b>	<b>Operator</b>
Martell's Quarry, Ardleigh	50516 22808	Recycled in Ardleigh Ltd
The Works, West Hanningfield	57055 20064	C A Blackwell Ltd
Widdington Pit, Widdington	528 314	Carr & Bircher Ltd
Colchester Skip Hire		Colchester Skip Hire
Woolmongers Lane BRW	TL 583 017	John Davies
CottisYard Recycling Facility	TQ 884 901	DD Recycling Ltd
Curry Farm	TL 995 059	R Dewick
Evans Thornwood	469240 049630	D Evans & Sons
EWD Carters Haulage Yard, Brightlingsea	08695 18056	Eastern Waste Disposal Ltd
Loppingdales, Gaunts End, Elsenham	55551 22546	E Corr Plant Hire
Essex Recycling, Lane Farm, Wix	61791 22915	Essex Recycling Ltd
Bulls Lodge Quarry	57450 21070	Eurovia
Bateman's Farm	TL 742 183	G & B Finch
Codham Hall Farm	TQ 592 886	Forefront Utilities Ltd
Forefront Utilities	559234 188583	Forefront Utilities Ltd
Franklin Hire	TL 796 924	Franklin Hire Ltd
Archers Fields, Basildon	57365 19029	GBN Services Ltd
Land adjacent to Taylors Farm, Takeley	55383 2249	GE & AF Silvester Ltd
Green Recycling	TL857 076	Green Recycling Ltd
Harvey Automobile Engineering	TL 380 050	Martin Harvey (Harvey Autos)
Hill Demolition & Skip Hire	TL 70840 00700	Mrs C Hill, Mr T & A Hill & Miss L Hill
Elsenham Recycling Facility	554554 226784	Ingrebourne Valley Ltd
JKS, Roach Valley Works, Rochford	TQ 881899	JKS Construction Ltd
Hallsford Bridge	TL562 018	P W Keen Ltd
Harlow Mill, Old Harlow	54714 21228	Foster Yeoman
Wivenhoe Quarry, Colchester	TM 046 224	Tarmac Ltd
Haigh Recycling Armigers Farm, Thaxted	55949 22920	Ronald B Haigh & Co Ltd
Parkeston Quay		Network Rail Infrastructure Ltd
Halstead Highway Depot	582378 230472	Ringway Jacobs Ltd
Highwood Quarry, Little Easton	55993 22270	Sewells Reservoir Construction Ltd
Crown Quarry		Sewells Reservoir Construction Ltd
The Yard	57005 22525	Silverton Aggregates
Haven Road	TM022 236	Silverton Aggregates
Silverton Aggregates		DL, CF & DPA Goodwin
Colchester Quarry, Stanway (Colchester Recycling)	TL 950 225	Tarmac Ltd (Cory Environmental Ltd)
Land adjacent The Cock Inn P.H.	576033 210443	Thurgood John
Pitsea	TQ739 873	Veolia
Royden Lea Farm	542300 210600	RB Whitbread (Plant Hire) Ltd

Stock Road Recycling Facility	590150 187753	W & H (Roads) Ltd
Patterns Yard		Peter Wingett
Whites Yard		

<b>Aggregate recycling sites in Hertfordshire</b>		
<b>Active sites</b>	<b>Grid Ref</b>	<b>Operator</b>
Anstey Quarry	53934 23302	The Anstey Quarry Co. Ltd
Birchall Lane, Cole Green	52703 21148	Eco Aggregates Ltd
Burnside	52610 21036	BP Mitchell & Peter Brothers Ltd
Codicote Quarry	52135 21729	The Codicote Quarry Company Ltd
Harper Lane Rail Loop	51598 20159	Tarmac Ltd
5 Hunting Gate, Hitchin	51944 23120	Winters Haulage Ltd
Pole Hole*	54528 21228	Frank Lyons Ltd
Jacks Hill, Graveley	52237 22914	Brycelands Removals Ltd (Inactive)
Land adjacent to B197, north of Graveley	52342 22920	Envirowaste (Inc) Ltd/ Stevenage Skips (Inactive)

\* For final restoration of the site only.

<b>Aggregate recycling sites in Norfolk</b>		
<b>Site</b>	<b>Grid Ref</b>	<b>Operator</b>
Aylsham		Aylsham Plant Hire Ltd
Stanfield	5946,3203	East Anglian Stone Ltd
Crimplesham	5667,3036	Frimstone Ltd
Carbrooke	5950,3013	Frimstone Ltd
Buxton	6243,3214	Frimstone Ltd
Snettisham	5684,3349	Frimstone Ltd
Middleton	5680,3153	Middleton Aggregates Ltd
Beetley		Middleton Aggregates Ltd
Ketteringham	6170,3020	Middleton Aggregates Ltd
Shropham	6003,2940	RJ Holbrook
Beeston Regis	6469,3411	Carter Concrete
Breckles	5947,2948	R Childerhouse
Letheringsett	6054,3415	Glaven Pits Ltd
Morningthorpe		Richardson Recycling Ltd
Melton Constable	6045,3328	Morrisey Builders
Heywood		R & C Bettinson
Bergh Apton	6308,2999	T Farrow Construction
Great Yarmouth		EE Green & Son
West Caister		Highways Contractors
West Caister		Carters of Caister
East Beckham		Gresham Gravels Ltd
Coxford Abbey Quarry, East Rudham		Longwater
Aylmerton		Mr Rounce
Costessey		R G Carter

<b>Aggregate recycling sites in Suffolk</b>		
<b>Active sites</b>	<b>Grid Ref</b>	<b>Operator</b>
Broomfield Pit, Barham	6122 2515	Tarmac
Marstons Pit, Cavenham	5759 2714	Middleton Aggregates Ltd
Chilton Grove Works, Chilton	5879 2433	T & K Weavers Ltd
Shrubland Quarry, Coddendam	6120 2537	Brett Aggregates Ltd
Airfield Ind. Est., Eye	6136 2759	Anglian Skips Ltd
Flixton Quarry, Flixton	6298 2865	Cemex UK Materials Ltd
Hollow Road Farm, Fornham St Martin	5863 2662	Shotley Holdings
Hollow Road Farm, Fornham St Martin	5863 2662	Steve Lumley Planings
Gazeley	5720 2671	Tarmac
Gisleham Pipe & Brickworks, Gisleham	65252883	E E Green & Sons Ltd
Maltings Farm, Great Blakenham	6112 2518	J T Few
Great Blakenham Energy from Waste Facility	6123 2497	Brett
Somersham Road	6111 2482	Swift Recycling
Causeway Tip, Lakenheath	5707 2822	Sutton Services
Sinks Pit, Little Bealings	6214 2454	Tippers R Us
Harpers Hill Farm, Naylands	5964 2349	TD & AM Bugg Ltd
Valley Farm Pit, Sproughton	6113 2437	SBS Spares Ltd
Folly Farm, Tattingstone	6123 2364	Shotley Holdings
Sheepdrift Farm Quarry, Waldringfield	6260 2448	Brett Aggregates Ltd
Summer Road Depot, Walsham-le-Willows	5993 2720	R & D Construction Ltd
Bay Farm Quarry, Worlington	5695 2715	Frimstone Ltd

### Appendix 8: Permitted wharfs and aggregate rail depots 2016

Bedford, Central Bedfordshire & Luton	Leagrave Road Aggregate Railhead, Leagrave Road, Luton	TL 074229	Tarmac
	Limbury Sidings, Aggregate Rail depot, Luton	TL 097215	Breedon Group
	Elstow Aggregate Rail depot, Bedford	504246 245723	Tarmac
	Stewartby Aggregate Rail Depot	TL 01252 42750	Network Rail (rail ballast)
Cambridgeshire and Peterborough	Chesterton Rail Freight Sidings, Cambridge	547712E 261306N	Tarmac (Sand, reclaimed asphalt & granite)
	Chesterton Rail Freight Sidings, Cambridge	547712E 261306N	Frimstone (Granite)
	Bourges Boulevard Rail Sidings / Peterborough Rail Depot	518911E 298280N	Cemex (Crushed Rock)
	Queen Adelaide, Ely	5559826240E 2807954469N	Cemex UK Operations Ltd (Sand, sandstone & limestone)
	Whitemoor, March	541420E 298930N	Network Rail (Rail ballast)
Essex, Thurrock Council and Southend-on-Sea Borough Council	Harlow Rail Depot	54714E 21228N	Aggregate Industries UK Ltd
	Purfleet Stone Terminal	55662E 17718N	Cemex
	Chelmsford Rail Sidings	5713E 2075N	Tarmac Ltd
	Chelmsford Rail Depot		Aggregate Industries UK Ltd
	Harlow Rail Sidings	54714E 21228N	Tarmac Ltd
	Marks Tey Rail Depot	5918E 2241N	Tarmac Ltd
	Purfleet Rail Depot, Jurgens Road		Aggregate Industries UK Ltd
	Purfleet Wharf	55710E 17704N	Cemex (Inactive)
	London Gateway Berth 7, DP World		Aggregate Industries UK Ltd
	Thurrock Marine Terminal	55741E 17688N	Tarmac Ltd
	Tilbury Docks	56340E 17607N	Stema Shipping Ltd
	Ballast Quay, Fingringhoe	5044E 2211N	JJ Prior Ltd
	Parkeston Quay, Harwich	62350E 23250N	Harwich International Port Ltd

Hertfordshire	Harper Lane Rail Loop	51598E 20159N	Tarmac Ltd
	Hitchin Rail Depot	51960E 22960N	Cemex UK (Inactive)
	Langley Sidings Rail Depot	52398E 22289N	Tarmac Ltd
	Orphanage Road Rail Depot	51106E 19766N	London Concrete
	Rye House Rail Depot	53894E 20919N	Tarmac Ltd
Norfolk	Trowse Raihead	624477E 307236N	Tarmac
	Leziate	567089 318007	Sibelco UK Ltd
	Palgrave Wharf	652409E 306344N	Silverton Aggregates (Inactive)
Suffolk	Barham Railhead	6120 2514	Tarmac
	Gazeley Railhead	57201870 2671	Tarmac
	Ipswich, West Bank	6168 2431	Brett Aggregates
	Bury St Edmunds Railhead	5854 2652	Tarmac
	Power Station Quay, Ipswich	61682419	Tarmac
	West Bank Quay, Ipswich	6168 2431	Brett Aggregates
	North Quay, Lowestoft	6545 2928	Dudmans
	Hamilton Dock, Lowestoft (inactive)	65520 2928	Associated British Ports

Note: All sites are active unless otherwise stated.

### Appendix 9: Key Milestones for Minerals LDD (and SPDs) in the East of England

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
<b>Bedford, Central Bedfordshire and Luton</b> <a href="http://www.centralbedfordshire.gov.uk/planning/minerals-and-waste/development-framework.aspx">www.centralbedfordshire.gov.uk/planning/minerals-and-waste/development-framework.aspx</a>	Minerals and Waste Local Plan: Strategic Sites and Policies LDD	2006 -2010	10 August 2012	December 2012-January 2013. July 2013	January 2014
<b>Cambridgeshire and Peterborough</b> <a href="http://www.cambridgeshire.gov.uk/environment/planning/mineralswasteframework/mineralsandwastedevelopmentscheme">www.cambridgeshire.gov.uk/environment/planning/mineralswasteframework/mineralsandwastedevelopmentscheme</a>	Minerals and Waste Core Strategy	Completed	Completed	Completed	July 2011
	Minerals and Waste Site Specific Proposals Plan	Completed	Completed	Completed	22 <sup>nd</sup> February 2012
	Block Fen/Langwood Fen Master Plan (SPD)				July 2011
	The Location & Design of Waste Management Facilities SPD	Completed	Completed	Completed	19 <sup>th</sup> July 2011
	RECAP Waste Management Design Guide SPD	Completed	Completed	Completed	22 <sup>nd</sup> February 2012
<b>Essex</b> <a href="http://www.essex.gov.uk/mlpexamination">www.essex.gov.uk/mlpexamination</a>	Essex Replacement Minerals Local Plan.	November 2012	July 2013	-	July 2014
<b>Southend-on-Sea</b>	Southend-on-Sea Core			-	July 2007

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
	Strategy				
<b>Thurrock</b>	Core Strategy and Policies for Management of Development	July 2006 Feb 2008	April 2010	March 2011	December 2011
	Core Strategy and Policies for Management of Development. Focused Review: Consistency with NPPF	October 2012	August 2013	April 2014	
	Thurrock Local Plan	Reg 18 – February 2016 (Issues & Options) Stage 1 October 2016 (Issues & Options) Stage 2 October 2017 Draft Local Plan Reg 19 – October 2018 Publication Draft of the Local Plan)	4 <sup>th</sup> Quarter 2019	Between 2 <sup>nd</sup> Quarter 2019 & 3 <sup>rd</sup> Quarter 2020	4 <sup>th</sup> Quarter 2020
<b>Hertfordshire</b> <a href="http://www.hertsdirect.org/docs/pdf/m/mwdst">http://www.hertsdirect.org/docs/pdf/m/mwdst</a>	Minerals Local Plan	August – October 2015 (Issues & Options) Autumn/Winter 2017	Early 2019	Mid 2019	Early 2020

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
<b>Norfolk</b> <a href="http://www.norfolk.gov.uk/Environment/Planning/Mineral_and_waste_planning/Minerals_and_waste_development_framework/Development_Scheme/index.htm">http://www.norfolk.gov.uk/Environment/Planning/Mineral_and_waste_planning/Minerals_and_waste_development_framework/Development_Scheme/index.htm</a>	Norfolk Core Strategy & Minerals and Waste Development Management Policies DPD	May-June 2007 (Issues & Options) February-March 2008 (Preferred Approach)	February 2011	May-June 2011	September 2011
	Minerals Site Specific Allocations LDD	February – March 2008 (Issues & Options) October-December 2009 & July-August 2011 (Preferred Approach)	10 <sup>th</sup> December 2012	26 March - 28 April 2013	October 2013
	Silica Sand Review of the Minerals Site Specific Allocations DPD	March-April 2015 (Issues & Options) November – December 2015 (Preferred Approach)	8 December 2016	Hearings on 14 & 15 March 2017	April 2017
<b>Suffolk</b> <a href="http://www.suffolk.gov.uk/environment-and-transport/planning-and-buildings/minerals-and-waste-development-framework/">www.suffolk.gov.uk/environment-and-transport/planning-and-buildings/minerals-and-waste-development-framework/</a>	Minerals Core Strategy	February 2006 (Issues and Options) April 2007 (Preferred Options)	October 2007	-	September 2008
	Minerals Site Specific Allocation	June 2006 (Issues and Options) October 2007 (Preferred Options)	August 2008	-	September 2009



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	Minerals & Waste Local Plan	November 2016 (Issues & Options) September 2017 (Preferred Approach)	February 2018	March 2018	July 2018

