## **APPENDIX**

# **MAIN MODIFICATIONS**

The main modifications below are shown in the form of a red strikethrough for deletions and red <u>underlining</u> for additions of text.

Other instructions are set out in italics.

		Chapter 2 - SPATIAL PORTRAIT AND KEY MINERALS PLANNING ISSUES							
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification					
MM1	Page 21	Paragraph	Insert new sentence at the end of paragraph as follows:  The potential for an increased contribution of sand and gravel from marine sources will be monitored.	Marine dredged aggregate forms an important part of the overall supply of aggregate. Not-withstanding none is landed on wharfs in the Plan area, it is desirable to monitor operational constraints around landing facilities particularly those in the adjoining authority of Thurrock and review the ability for its continued or even increased contribution as a substitute for a portion of the land won plan provision.					
MM2	Page 23	Para 2.39	Amend point seven as follows:  Protect existing, and Preferred and Reserve Sites for extraction so their ability to supply essential resources is not compromised, (economic).	Cross references the addition of the term 'reserve sites' introduced into Policy 6 of the MLP.					
MM3	Page 23	Para 2.39		Cross references the addition of the term 'reserve sites' introduced into Policy 6 of the MLP.					

Preferred and Reserve Sites and mineral demand, (economic,	
social and environmental).	

			Chapter 3 - THE STRATEGY	
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification
MM4	Page 24	Table 1	Amend final part of Point (B) as follows:  A steady and adequate supply of sand and gravel will be provided, having regard to the Local Aggregate Assessment and the targets agreed with the East of England Aggregates Working Party. Whilst not Phasing has been introduced so as to avoid over-supplying in order to protect Essex's environment and our finite mineral resources. Plan provision will also be made for silica sand and brick clay.	period through introduction of
MM5	Page 25	Table 1	and mineral supply infrastructure will be safeguarded to ensure	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
мм6	Page 27	Aims and Strategic Objectives	Amend 'Aims' point 5 as follows:  5. To protect and safeguard existing mineral reserves, existing permitted mineral sites and Preferred and Reserve Sites for mineral extraction, as well as existing proposed sites for associated mineral development.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

MM7	Page 28	Para 3.3	Amend third sentence as follows:  To this end, the Plan identifies Preferred and Reserve Sites for future development.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM8	Page 33	Policy S2	Amend point 6 as follows:  6. Making planned provision through Preferred and Reserve Site allocations for a steady and adequate supply of aggregates and industrial minerals to meet identified national and local mineral needs in Essex during the plan-period whilst maintaining landbanks at appropriate levels,	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM9	Page 47	Paragraph 3.82	Amend second sentence as follows:  It is considered unnecessary and impractical to maintain separate landbanks for County sub-areas or to distinguish between building sand and concreting aggregates, although further monitoring of building sand will be undertaken to establish whether this situation needs to be reviewed.	Although it's not considered necessary or practical at this current time to distinguish between building sand and concreting aggregates the situation will be monitored to establish whether it should be reviewed in the future.
MM10	Page 47	Paragraph 3.84	Insert new sentence after second sentence as follows:  Where the landbank falls below seven years there will be an opportunity to bring Reserve Sites forward for extraction.	Clarifies the mechanism for plan provision being phased across the Plan period through introduction of 'reserve sites' by way of change to Policy S6 of the MLP.
MM11	Page 49	Paragraph 3.95	Amend first sentence as follows:  This Plan has therefore been prepared to provide 4.31mtpa of sand and gravel over the plan-period, to be provided by existing sites with permission, and Preferred and Reserve Sites	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

			proposed by the Plan.	
MM12	Page 49	Paragraph 3.96	Amend as follows:  The numerical difference between the sub-regional apportionment figure and the sales figures provides for flexibility in the Plan. If future sales do not approach the sub-regional apportionment figure then provision made now can be rolled forward in a Local Plan Review to cover the period extending beyond 2029. Conversely, if the The provision allocated through both Preferred and Reserve sites meets the 4.31 mtpa sub-regional apportionment figure. The provision for solely Preferred sites is based on 10 year average sales. Should sales figures 'bounce back' to higher volumes closer to recent pre recessionary experience, then the Plan will be able to deal with this outcome effectively and this is addressed in the Plan through the ability to bring forward the allocated Reserve sites while continuing to provide certainty to local communities and the minerals industry about where minerals development will take place.	Amends explanatory text to Policy S6 to introduce the basis for the new approach whereby some sites have been redefined as reserve sites.
MM13	Page 51	Paragraph 3.110	Amend first sentence as follows:  A plan-led approach excluding such an allowance and identifying Preferred and Reserve Sites, provides greater certainty for local communities and the minerals industry about where minerals development will take place over the long-term.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM14	Page 52	Policy S6	Amend as follows:  The Mineral Planning Authority shall endeavour to ensure reserves of land won sand and gravel are available until 2029,	Clarifies the mechanism for plan provision being phased across the Plan period through introduction of 'Reserve sites'. The overall plan provision continues to be based

			set out in national policy., taking into account the local annual supply requirement for Essex. This requirement will be periodically assessed.  The Plan identifies sufficient provision through Preferred Sites allocations (listed in Table 5) until 2029 and will be subject to periodic review to enable the maintenance of at least a seven year landbank.  The working of Reserve sites will only be supported if the landbank with respect to the overall requirement of 4.31mtpa is	on applying the sub-national supply guidelines which have been apportioned to individual mineral planning authorities on the advice of the aggregate working party. However, the basis for differentiating between Preferred and Reserve Sites is the 10 year average sales and the mechanism for bringing reserve sites forward is if the landbank falls below 7 years, thereby ensuring that potential excessive supply is avoided, subject to market conditions
MM15	Page 57	Paragraph 3.130	Amend first sentence as follows:  It is necessary to safeguard existing mineral workings, and	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the

			Preferred and Reserve Sites to prevent the possibility of new incompatible neighbours being established and ultimately restricting their activities.	MLP.
MM16	Page 57	Paragraph 3.131	Amend Bullet 3 as follows:  Preferred and Reserve Sites proposed in this Plan for future mineral extraction.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM17	Page 59	Policy S8	Amend first paragraph as follows:  By applying Mineral Safeguarding Areas (MSAs) and/ or Mineral Consultation Areas (MCAs), the Mineral Planning Authority will safeguard mineral resources of national and local importance from surface development that would sterilise a significant economic resource or prejudice the effective working of a permitted mineral reserve or Preferred or Reserve Site allocation within the Minerals Local Plan. The Minerals Planning Authority shall be consulted, and its views taken into account, on proposed developments within MSAs and MCAs except for the excluded development identified in Appendix 9 5.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM18	Page 59	Policy S8	Amend first and last paragraphs under Mineral Consultation Areas as follows:  MCAs are designated within and up to an area of 250 metres from each safeguarded permitted minerals development and Preferred and Reserve Site allocation as shown on the Policies Map and defined on the maps in Appendix 10 6. The Mineral Planning Authority shall be consulted on:  Proposals which would unnecessarily sterilise mineral resources or conflict with the effective workings of permitted minerals development, or Preferred or Reserve Mineral Site allocation	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

			shall be opposed.	
MM19	Page 68	Paragraph 3.177	Amend as follows:  The three tiers of the hierarchical approach are equally applicable to any minerals related planning application, including new proposals for transhipment sites requiring connection to the road network. The Highway Authority has reviewed the Preferred and Reserve Sites with their preference being for sites which utilise and make the most effective use of the upper tiers of the route hierarchy in order to keep traffic away from unsuitable minor roads.	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM20	Page 68	Paragraph 3.182	Amend first part of paragraph as follows:  It is important to ensure that the effects of traffic on any local community, the environment and the local road network are carefully considered, including the cumulative impacts of these. Where Preferred or Reserve Sites are extensions to existing quarries, these areas should be worked consecutively in order that mineral extraction in the existing quarry be completed prior to mineral extraction commencing in the new "extension area".	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM21	Page 72	Paragraph 3.197	Amend third and fourth sentences as follows:  The Plan proposes an ambitious target for the creation of a minimum of 200ha of priority habitat creation in Essex from the Preferred and Reserve Site allocations. Six UK BAP habitats UK Biodiversity Framework habitats have been selected reflecting local conservation priorities as well as the geological and hydrological character of the Preferred and Reserve Sites:	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.  Editing changes bring the plan up to date.

			Amend as follows:	
MM22	Page 72	3.199	Bradwell Quarry (Rivenhall), A9 Broadfield Farm (Rayne),  Suppyment (Alresford), Maldon Road (Birch), and Land at	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

	Chapter 4 PREFERRED MINERAL SITES FOR PRIMARY MINERAL EXTRACTION						
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification			
MM23	Page 76	Chapter Title	4 PREFERRED AND RESERVE MINERAL SITES FOR PRIMARY	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.			
MM24	Page 76	Paragraph 4.4	2029,	Amends explanatory text to Policy P1 to explain the differentiation between Preferred and Reserve Sites by way of change to Policy S6 of the MLP.			

MM25	Page 76	Paragraph 4.5	Amend as follows:  This is comprised of 16 allocations on 10 sites, of which 13 are extensions to existing quarries and 3 are new sites. Of these 16 allocations 2 would be Reserve Sites.	Amends explanatory text to Policy P1 to explain the differentiation between Preferred and Reserve Sites by way of change to Policy S6 of the MLP.
MM26	Page 76	Paragraph 4.7	Amend second sentence as follows:  A Sustainability Appraisal Report is also available as a supporting document explaining how Sustainability Appraisal/ Strategic Environmental Assessment (SA/ SEA) has informed and influenced the selection of the Preferred sites.	Cross reference to the selection of sites now including more than one type of 'site'.
MM27	Page 77	Policy P1	sand and gravel extraction, the principle of extraction has also been accepted, however, the release of minerals from these sites is subject to the landbank falling below seven years.	Clarifies the differentiation in principle between Preferred and Reserve Sites which comes down to reserve sites being phased on the basis that the full plan provision may not be needed over the Plan period. As with Policy S6 it sets out that the mechanism for bringing reserve site forward is based on the size of the land-bank.  Both Preferred and Reserve sites have been through a robust site selection process and are deemed to be socially and environmentally acceptable. None-the-less

				preferred sites have been redefined as reserve sites on the basis of those that are least desirable at the present time. Differentiating between preferred and reserve sites has been undertaken with reference to the full site selection process and in particular Stages 3-5. This process is set out in the attached addendum. As explained in the addendum the site selection process has been further refined through particular preference to those preferred sites which may ultimately provide for the best possible geographic dispersal across the County.
MM28	Page 77	Table 5	Amend title as follows:  Table 4 Preferred and Reserve Sand and Gravel Sites	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM29	Page 77	Table 5	Insert new header above row one of table as follows:  Preferred Sand and Gravel Sites:	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM30	Page 78	Table 5	Insert new header below row 16 (B1 Slough Farm) as follows:  Reserve Sand and Gravel Sites	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the

				MLP.
MM31	Pages 77 & 78	Table 5	Move rows four and five of table (A6 & A7 Bradwell Quarry) to	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM32	Page 78	Table 5	Delete Note 2	Reflecting the introduction to reserve sites and preference towards Preferred Sites.
MM33	Page 80	Paragraph 4.10	The Preferred <u>and Reserve</u> Sites are site specific allocations and the site boundary delineated in the respective site profile is	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM34	Page 80	Paragraph 4.11	Insert new sentence at end of paragraph as follows:  This applies equally to Reserve Sites, however, for extraction to be supported at Reserve Sites the need for mineral extraction would require to be demonstrated. Such need could only be demonstrated if the landbank falls below 7 years.	Further explanation to assist understanding of the difference between Preferred and Reserve Sites by way of change to Policy S6 of the MLP.

	Chapter Five DEVELOPMENT MANAGEMENT POLICIES						
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification			
MM35	Page 85		development proposed in this Plan has been informed at all				

	Chapter Six IMPLEMENTATION, MONITORING AND REVIEW					
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification		
MM36	Page 94	Paragraph 6.2	The following table details the current mineral companies with	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.		

			selected as a Preferred <u>or Reserve</u> Site for future working.	
MM37	Page 94	Paragraph 6.3	Amend first and second sentences as follows:  The Table below denotes existing permitted sites, the new Preferred and Reserve Sites as allocated within this Plan and as set out in Section 4 and Tables 5 and 6, and the current mineral operator assigned with that site. The 'Preferred and Reserve Sites' for future mineral extraction will only be developed if brought forward by the respective mineral operator (with the landowners' support).	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM38	Page 94 & 95	Table 7	Amend third column heading as follows:  Existing, or Preferred or Reserve Site	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM39	Page 94	Table 7	Amend fourth rows and insert new row below as follows:  Site Operator: Blackwater Aggregates  Sites:Bradwell Quarry, Rivenhall Airfield (Sites A2 - A7 A5) (Extension to Bradwell Quarry) Existing, Reserve or Preferred Site: Preferred  Sites:Bradwell Quarry, Rivenhall Airfield (Sites A6 and A7) (Extension to Bradwell Quarry) Existing, Reserve or Preferred Site: Reserve	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

MM40	Pages 95 & 96		Amend as follows:  Subject to planning permission being granted, and based on the information provided by Site Promoters, the 'Preferred and Reserve Sites' would come into operation in a phased manner across the plan period. This Phasing information was provided to the Council by Site Promoters and it is both outside of the considered unnecessary to control the release of Preferred Sites beyond being of the Council and subject to external market forces. However for Reserve Sites it is considered necessary that need for their extraction should be demonstrated to ensure that oversupply does not take place. It is considered that the indicative phasing is such that sand and gravel will be available to serve the Essex market throughout the plan period.	Further explanation to assist understanding of the difference between Preferred and Reserve Sites by way of change to Policy S6 of the MLP.
MM41	Page 98	Table 8	Insert new monitoring indicator two (numbering of subsequent indicators to be updated) as follows:  Indicator: The need for a separate landbank for building sand  Related Policy: Policy S6: Provision for Sand and Gravel Extraction  Target: Establish a consistent baseline of building sand sales and reserves in Essex over a 5 year time frame. This will be a factor in assessing whether a separate building sand landbank can be established.  Implementation: Engaging with the minerals industry to establish sales / reserves of building sand	Collection of such data would assist in any future consideration for the desirability to create a separate building sand land-bank within the Plan area.

			Data Source: Mineral industry returns.	
			Frequency: Annually through AMR.	
			Responsibility: ECC and mineral operators.	
			Insert new monitoring indicator three (numbering of subsequent indicators to be updated) as follows:	
			Indicator: Contribution of marine dredged sources towards overall aggregate provision	
			Related Policy: Policy S6: Provision for Sand and Gravel Extraction.	Marine dredged aggregate forms an important part of the overall supply of aggregate. Not-withstanding
			Target: That if marine imports come within 90% of wharf capacity in Greater Essex then a review is undertaken to determine whether capacity is constraining the landing of	none is landed on wharfs in the Plan area, it is desirable to monitor operational constraints
MM42	Page 98	Table 8	marine dredged aggregate and the potential for increasing capacity at either existing or new transhipment sites.	around landing facilities particularly those in the adjoining authority of Thurrock
			Implementation: Engaging with the minerals industry, adjoining port and district authorities where landings occur to retain or increase existing processing capacity.	and review the ability for its continued or even increased contribution as a substitute for
			Data Source: Bespoke investigation of wharf capacity	a portion of the land won plan provision.
			Frequency: Annually through AMR	
			Responsibility: ECC, minerals industry, adjoining authorities and port companies.	

			Amena Target for Indicator three as follows:	Confirms that the size of the land-bank represents the key
MM43	Page 99	Table 8	landbank based on a production potential of 4.31 mtpa from	indicator for determining whether reserve sites should therefore be brought forward as set out in Policy S6.
			·	Confirms that the size of the land-bank represents the key
MM44	Page 99	Table 8	industry Bringing forward unimplemented Preferred or Reserve	indicator for determining whether reserve sites should therefore be brought forward
				as set out in Policy S6.

	Chapter Seven - REFERENCE MATERIAL					
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification		
MM45	Page 113	1611113	Definition: An area containing mineral resources which can be identified with a high degree of provision and identified with	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.		

			Insert new Term and Definition for Reserve Sites as follows:	
MM46	Page 114	Glossary of Terms	Definition: An area containing mineral resources identified	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

	Appendix Five Site Profiles for Preferred Sites						
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification			
MM47	Page 137	Appendix Five		To reflect deletions of appendices 1-4 and to cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.			
MM48	Page 137	Appendix Five	for each of the proposed Preferred and Reserve Sites subject to	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.			
MM49	Page 137	Appendix Five	Amend A6 and A7 as follows:	Cross references the addition of the term 'reserve sites'			

			A6 Bradwell Quarry, Rivenhall <u>(Reserve Site)</u> A7 Bradwell Quarry, Rivenhall <u>(Reserve Site)</u>	introduced into Policy S6 of the MLP.
MM50	Page 138	Appendix Five	Insert new page before A3 Site Profile detailing the Specific Issues to be Addressed that apply to all Bradwell sites A3 - A7 (Amended text in point five is in <b>bold</b> ) as follows:  A3, A4, A5, A6 & A7 Bradwell Quarry, Rivenhall Airfield  A3, A4, A5, A6 & A7: Specific issues to be addressed  The following issues apply to all five sites:  1. Mineral from the site would be processed through the existing processing plant.  2. Mineral traffic would use the existing main site access, and HGV movements would be restricted in line with current levels of working to avoid adverse impacts to the A120. The phasing of site working would need to reflect HGV movement limitations. A Transport Assessment would be required.  3. Improvements to the crossing points at Ash Lane and Church Road would be required.  4. There has been a long history of settlement and occupation within this landscape. An historic environment assessment would be required with any application/ EIA.  5. The sites comprise the best quality Grade 2 agricultural soils and it is expected that these would be retained on site during	To avoid duplication for specific issues to be addressed for sites A3-A7.  Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

			covering the Bradwell Quarry in its entirety. This would ensure all pre-extraction activity, site working and restoration is considered as a whole and restoration potential is maximised including the opportunity for significant biodiversity enhancement and habitat creation on site. The first Preferred Site for Bradwell Quarry for which there is an application (e.g., from the sites A3-A7) should provide indicative phasing,/ restoration levels/and after-uses for all the Bradwell Quarry Preferred and Reserve Sites as part of the Masterplan. and The developer shall be expected to enter into a legal agreement to ensure that any subsequent applications for Preferred or Reserve Sites at Bradwell Quarry shall be in accordance with the Masterplan and indicative phasing/restoration levels/ after-uses. Careful consideration must be given to the final low-level restoration contours to ensure the final landform blends with the surrounding topography and could blend with the levels and planting of the strategic waste management development (Ref	
			ESS/37/08/BTE) if implemented.	Editing changes to shorten,
MM51	Page 139	Appendix Five	Move map from page 148 and update to show Preferred and Reserve site boundaries.	streamline or simplify the plan in preparation for adoption.
MM52	Page 144	Table 12	Amend page title as follows:  A6 Bradwell Quarry, Rivenhall Airfield <u>- Reserve Site</u>	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.

MM53	Page 144	Site A6, Specific Issues to be Addressed	1. Applications for extraction at this site are not supported until	Implements the mechanism intended for how plan provision is effectively being phased across the Plan period as set out in Policy S6.
MM54	Page 146	Table 13	Amena page title as follows:  A7 Bradwell Quarry Rivenhall Airfield - Reserve Site	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.
MM55	Page 146	Site A7, Specific Issues to be Addressed	Applications for extraction at this site are not supported until such time as the landbank falls below 7 years.	Implements the mechanism intended for how plan provision is effectively being phased across the Plan period as set out in Policy S6.

	Appendix Nine Consultation Procedure for Mineral Safeguarding Areas						
Ref.	Page No.	Policy/Para/ Table/ Figure No.	Modification	Justification			
MM56	Page 207	Table 38	Amend MCA column header as follows:  MCA  (N.B. The MPA would wish to be consulted on any planning application for development on Development MSA an existing minerals development, or Preferred or Reserve Site)	Cross references the addition of the term 'reserve sites' introduced into Policy S6 of the MLP.			