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Essex Replacement Minerals Local Plan: Pre-Submission Draft

Sustainability Appraisal and Strategic Environmental Assessment

Environmental Report: Annex E - Site Appraisals

November 2012

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1 Introduction

1.1 Background

Essex County Council commissioned Place Services (formerly part of Essex County Council's Spatial Planning Group) to undertake a Sustainability Appraisal, incorporating Strategic Environmental Assessment (SA/SEA), on the proposed Replacement Minerals Local Plan: Pre-Submission Draft.

Place Services are acting as consultants for this work; therefore the content of the SA/SEA should not be interpreted or otherwise represented as the formal view of Essex County Council.

This Annex sets out the appraisal of suggested mineral extraction sites.

1.2 Mineral Extraction Sites

The MLP sets out the plan requirements of the Provision of Primary Minerals for the County for the 18 year period covering 1st January 2012 to 31st December 2029. The provision made ensures an adequate and steady supply of minerals for land won sand and gravel and silica sand. In addition to this, landbanks are also required for industrial minerals in line with paragraph 146 of the NPPF.

The appraisals of the individual preferred sites as reported within this Annex correspond to the appraisal of Policies P1 and P2 in the main Environmental Report. The minerals sites for primary mineral extraction have followed the methodology as described in the next section.

2 Methodology

The methodology of site appraisals in the SA/SEA is independent from that of the MLP's site assessment and selection methodology. Despite this, some of the information and evidence base gathered for the MLP site assessment and selection methodology has been used to inform that of the SA/SEA site appraisals.

In progressing from the Preferred Approach stage to the Pre-Submission stage, the Minerals and Waste Planning team revised their site assessment and selection methodology in light of:

- Assessing sites for their acceptability for low-level restoration, based on evidence in the emerging Waste Local Plan's Capacity Gap Report regarding tonnages of suitable inert materials.
- Preferred Approach MLP consultation responses regarding sites having to be accepted in the south and west of the County that perform less well, on environmental grounds, than sites located elsewhere in the County that haven't been selected.
- A need to clearly establish environmental acceptability on an even footing across all sites with those assessed as being unacceptable ruled out.
- Limiting more minor cumulative adverse environmental impacts where it can be demonstrated that impacts could be satisfactorily avoided, mitigated or compensated for.

As a result of this change in methodology, all previously preferred and non-preferred sites in the Preferred Approach MLP have been re-assessed for the Pre-Submission stage MLP by the Minerals and Waste Planning team. As a result of this, the SA/SEA has also undertaken a process to re-appraise all relevant sites in those instances where the MLP site assessment and selection methodology has been used to inform that of the SA/SEA site appraisals.

For the assessment of the mineral extraction sites there was a need to devise a consistent methodology to ensure that all sites were appraised on a like for like basis. The methodology for conducting the site appraisals was based on the Sustainability Objectives and Key Questions outlined within the First Stage Environmental Report (2009) which were based on the Scoping Report (2008). Table 1 details the approach taken for each Sustainability Objective to achieve an impact assessment and sets out the sources used to appraise each site against the Sustainability Objectives.

For the purpose of the site appraisals short, medium and long term impacts were appraised. These were defined as:

- Short Term: During site development / construction (including infrastructure).
- Medium Term: During site working (The site as a working minerals site as opposed to its current use).
- Long Term: After final site restoration (The site following restoration work as opposed to its original use).

TABLE 1: SITE ASSESSMENT METHODOLOGY

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
1. To protect and enhance biodiversity and geo-diversity throughout Essex	Will the Site allocation protect and/or enhance biodiversity and geo-diversity across Essex? Will the Site allocation protect and/or enhance areas designated as important for ecological and geological reasons at a local, regional, national and international level?	Essex County Council Arc GIS Comments provided by ECC County Ecologists.	S / M	Major ecological impact, Mitigation not possible	Less than 100m to international / national designation; or Major impact identified, Mitigation Possible	Minor – Moderate impact, Mitigation Possible	N/A	No impact	Uncertainty relating to impact.
			L	Mitigation not possible as a result of short/medium term impact.	Mitigation required.	Restoration includes biodiversity improvements	N/A	No impact	Uncertainty relating to impact.
2. To maintain and enhance water resources and quality	Will the Site allocation have an adverse impact upon water resources? Will the Site allocation enhance water resources? Will the Site allocation have an adverse impact upon water quality?	Essex County Council Arc GIS Level 1 SFRA (May 2010)	S / M	SPZ 1 identified	Water resource runs through the site; or within 200m of the site.	No water resource identified within 200m of the site.	N/A	No impact; or Site requires immediate access to a watercourse	Uncertainty relating to impact.
			L			Restoration features agricultural reservoirs or amenity lakes		No impact	Uncertainty relating to impact.

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
3. To minimise risk of flooding	Will the Site allocation increase the risk of flooding?	Essex County Council Arc GIS Level 1 SFRA (May 2010)	S / M	Site falls within Flood Zone 3b and is not water compatible development	Site falls within Flood Zones 3a and 2 and is water compatible development	Site not located within flood zone 2, 3a or 3b	N/A	No impact	Uncertainty relating to impact.
	Will the Site allocation have an adverse effect on the impact of flooding?		L		Site falls within Flood Zones 2, 3a or 3b and is not a water compatible development.	Restoration includes flood alleviation measures		No impact	Uncertainty relating to impact.
4. To encourage the sustainable use of land and protection of soils, including the best & most versatile agricultural land	Will the Site allocation have an adverse impact upon areas of good quality soil?	Essex County Council Arc GIS	S / M	Resource mainly lies within land classified as Grade 1 or 2 agricultural land	Resource mainly lies within land classified as Grade 3 agricultural land	Resource mainly lies within land classified as Grade 4 or 5 agricultural land.	Resource mainly lies within land unclassified agricultural land or PDL	No impact	Uncertainty relating to impact.
	Will the Site allocation have an adverse impact upon the best and most versatile agricultural land?		L	Site lies on Grade 1 or 2 agricultural land and is not to be, or only partially to be, returned to agriculture.	Site lies on Grade 3 agricultural land and is not to be, or partially to be, returned to agriculture; or Grade 1 or 2 and restoration includes the creation of an agricultural	Site lies on Grade 3 agricultural land and the restoration proposal is for an agricultural use and the creation of an agricultural reservoir.	Restoration brings PDL back into appropriate use	No impact; Site is returned solely to agricultural use	Uncertainty relating to impact.

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
					reservoir.				
5. To promote the minerals supply hierarchy and where minerals waste is produced, to promote the movement of minerals waste up the waste management hierarchy.									
6. To safeguard air quality	Will the Site allocation have an adverse impact upon local air quality? Will the Site allocation have an impact upon air quality in Air Quality Management Areas within Essex?	Essex County Council Arc GIS UK Air Quality Archive:	S / M	Site located within 200m of existing AQMA.	Increase in road transport anticipated.	Development would allow a proportion of material to be transported by means other than the road network	N/A	No impact	Uncertainty relating to impact.
			L		Increase in road transport anticipated.			No impact	Uncertainty relating to impact.
7. To minimise the net emissions of greenhouse gases and increase adaptability to climate change	Will the Site allocation increase emissions (both direct and indirect) of greenhouse gases? Does the Site allocation encourage the use of renewable energy sources for minerals	Mode of minerals transportation provided by site promoter, and confirmed	S / M			Development would allow a proportion of material to be transported by means other than the road network	Site allocation includes renewable energy resources, specific energy efficiency detail;	No impact	Uncertainty relating to impact.

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
	activities? Will the Site allocation have any impact upon the county's vulnerability to the impacts of climate change?	by MLP Team.	L		Increase in emissions through transport anticipated.	Renewables or adaptation to climate change considered as part of the restoration project		No impact	Uncertainty relating to impact.
8. To minimise the impact on the historic environment , both above and below ground	Will the Site allocation have an adverse impact upon local historic assets, including archaeological deposits, historic buildings and battlegrounds?	Essex County Council Arc GIS Comments provided by ECC County Historic Environment Team	S / M	Loss or irreparable damage to designated sites, mitigation not possible	High – medium sensitivity, mitigation possible	Low sensitivity, mitigation possible	Supports restoration or contributes to the character of an existing heritage area.	No impact	Uncertainty relating to impact.
			L	Loss or irreparable damage to designated sites as a result of short/medium term effects.	Long term use has adverse impact on historic assets.	No short/medium term impacts and long term use reinstates previous use.	Long term use supports restoration or contributes to the character of an existing heritage area.	No impact	Uncertainty relating to impact.
9. To protect and enhance the quality and character of the MGB and the Essex landscape	Will the Site allocation have an adverse impact upon local landscape character? Will the Site allocation improve areas of poor landscape quality? Does the Site allocation	Essex County Council Arc GIS Comments provided by ECC Landscape	S / M	Major / High Landscape Impact, mitigation not possible	High – Moderate Landscape Impact, mitigation possible	Slight / Insignificant Landscape Impact, mitigation possible	Significant improvements to existing landscape resulting in both on and off site landscape benefits.	No impact	Uncertainty relating to impact.

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
	protect designated and other valuable landscape areas?	Team	L	Loss or irreparable damage to designated sites as a result of short/medium term.	Long term use has adverse impact landscape	Improvements to existing landscape	Significant improvements to existing landscape resulting in both on and off site landscape benefits.	Proposed restoration is the same or similar to land use pre-extraction	Uncertainty relating to impact.
10. To enable all sections of the community to participate fully at all stages of decision making in the MLP and in determining planning applications:									
11. To maximise opportunities for economic development , including jobs, arising from minerals activities	Will the Site allocation facilitate an increase in employment?	Proposal provided by site promoter, and confirmed by MLP Team.	S / M		Will reduce employment opportunities in the area	Will create employment opportunities in the area		No impact	Uncertainty relating to impact.
	Will the Site allocation facilitate wider economic development?		L		Will reduce employment opportunities in the area	Will create employment opportunities in the area		No impact	Uncertainty relating to impact.
12. To improve the sustainable use of minerals:									
13. To achieve beneficial restoration and aftercare of all mineral sites	Will the Site allocation promote beneficial site allocation restoration?	Proposal provided by site promoter, and confirmed by MLP Team.	S / M		No restoration scheme proposed	Restoration scheme proposed		No impact; Development is intended to be permanent	Uncertainty relating to impact.
	Will the Site allocation promote beneficial aftercare of sites?		L		No restoration scheme proposed	Restoration scheme proposed			

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
14. To reduce transportation of minerals and road congestion, and promote more sustainable transport	Will the Site allocation reduce transportation of minerals?	Mode of minerals transportation provided by site promoter, and confirmed by MLP Team. Comments provided by ECC Transport Team	S / M	ECC Highway Authority Objection Increase in amount of aggregate moved on local road network.	ECC Highways assess site as having major issues that require further information/investigation.	Minor – Moderate issues identified – Mitigation Possible Suitable in Highway Terms	Decrease in the amount of aggregate moved on the local road network	No impact	Uncertainty relating to impact.
	Will the Site allocation promote non-road transportation of minerals? Will the Site allocation have an impact upon road congestion? Will the Site allocation result in minerals activities that are connected to the main highway network?		L		Site is unsupported by ECC Highways	Improvements to be made to infrastructure as part of the restoration proposal.	Major infrastructure improvements form part of the restoration proposal	No impact	Uncertainty relating to impact.
15. To protect and enhance human health and well being	Will the Site allocation have an adverse impact upon human health?	Essex County Council Arc GIS	S / M	Residential Care Home / Hospital identified within 250m of site.	At least five properties within 250m of the proposed site.	Improvements to current or future quality of life for existing / future local residents	Improvements to current or future quality of life for existing / future local residents	No impact	Uncertainty relating to impact.
			L			Improvements to current or future quality of life for existing / future local residents		No impact	Uncertainty relating to impact.

Sustainability Objective	Key Questions	Source	Time	Significant Negative	Negative	Positive	Significant Positive	Neutral / No impact	Uncertain
				--	-	+	++	0	/
16. To minimise nuisance and impact on local amenity	Will the Site allocation increase the level of nuisance (including dust, particulate emissions, noise, vibration, odour, visual, vermin, light, litter)?	Essex County Council Arc GIS	S / M	School / recreational facilities located within 250m of site.	At least five properties within 250m of the proposed site; or PROW crosses the site	Green space, countryside etc acting as a buffer to closest receptors.		No impact	Uncertainty relating to impact.
	Does the Site allocation encourage operators to establish good environmental management practices? Does the Site allocation adversely impact upon access to land for recreation?		L			Amenity creation forms part or all of the restoration proposal.		No impact	Uncertainty relating to impact.

3 Site Appraisals

3.1 Introduction

Table 2 lists the suggested sites which have been appraised as part of the SA/SEA work.

TABLE 2: LIST OF SUGGESTED SITES

Site	Resource	Status	Site	Resource	Status
A1 Appleford and Colemans Farm, Little Braxted Lane, Witham	Sand and Gravel	Included	A28 Fingringhoe Quarry – North, Colchester	Sand and Gravel	Included
A2 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A29 Fingringhoe Quarry – West, Colchester	Sand and Gravel	Included
A3 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A30 Fingringhoe Quarry – South, Colchester	Sand and Gravel	Included
A4 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A31 Birch Quarry – Southern Extension, Colchester	Sand and Gravel	Included
A5 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A33 Annigers Farm, Thaxted	Sand and Gravel	Included
A6 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A34 Thornington Hall Farm	Sand and Gravel	Included
A7 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A35 Tyndales Farm, Danbury	Sand and Gravel	Included
A8 Bradwell Quarry, Rivenhall Airfield	Sand and Gravel	Included	A36 Olivers Nurseries, Witham;	Sand and Gravel	Included
A9 Broadfield Farm, Rayne	Sand and Gravel	Included	A37 Alsteads Farm, Little Waltham;	Sand and Gravel	Included
A10 Covenbrook Hall Farm, Stisted	Sand and Gravel	Included	A38 Blackley Quarry Gate Farm - Site 1, Great Leighs;	Sand and Gravel	Included
A11 Tile Kiln, Valley Farm, Sible Hedingham	Sand and Gravel	Included	A39 Blackley Quarry Gate Farm - Site 2, Great Leighs;	Sand and Gravel	Included

Site	Resource	Status	Site	Resource	Status
A12 Colchester Quarry - Bellhouse Farm South, Stanway	Sand and Gravel	Included	A40 Shellow Cross, Willingale;	Sand and Gravel	Included
A13 Colchester Quarry – Five Ways Fruit Farm, Stanway	Sand and Gravel	Included	A41 Patch Park Farm, Abridge;	Sand and Gravel	Included
A14 Fingringhoe Quarry, Ballast Quay, Fingringhoe	Sand and Gravel	Included	A42 Ardleigh Rail, Ardleigh;	Sand and Gravel	Included
A15 Admirals Farm, Great Bentley	Sand and Gravel	Included	A43 Parkgate Farm, Silver End	Sand and Gravel	Included
A16 Church Farm, Alresford	Sand and Gravel	Included	A44 Whitehouse Farm, Woodham Walter	Sand and Gravel	Included
A17 Frating Hall Farm, Frating	Sand and Gravel	Included	A45 Ardleigh Rail 2	Sand and Gravel	Included
A18 Gurnhams, Little Bentley	Sand and Gravel	Included	A46 Colemans Farm, Little Braxted Ln, Witham	Sand and Gravel	Included
A19 Lodge Farm, Alresford	Sand and Gravel	Included	B1 Slough Farm, Ardleigh Area 1	Silica sand	Included
A20 Sunnymead, Elmstead and Heath Farm, Alresford	Sand and Gravel	Included	B3 Park Farm, Ardleigh Area 3	Silica sand	Included
A21 Thorrington Hall Farm, Thorrington	Sand and Gravel	Included	C2 Bulmer Brickfields, Bulmer.	Clay	Included
A22 Little Bullocks Farm, Canfield Area A	Sand and Gravel	Included	D2 Ballast Quay, Fingringhoe	Transshipment Sites	Included
A23 Little Bullocks Farm, Canfield Area B	Sand and Gravel	Included	D3 Sadds Wharf, Maldon	Transshipment Sites	Included
A25 Elsenham Quarry, Elsenham	Sand and Gravel	Included	D5 Brightlingsea Quarry, Tendring	Transshipment Sites	Included
A26 Frogs Hall Farm, Takeley	Sand and Gravel	Included	D6 Ardleigh Rail Sidings	Transshipment Sites	Included

Site	Resource	Status	Site	Resource	Status
A27 Land at Ugley, Ugley	Sand and Gravel	Included			

3.2 North Eastern Area Sites

3.2.1 Preferred Sites

A3 Bradwell Quarry, Rivenhall Airfield

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A3	1	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	/	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A3	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	/	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change long term score for objective 1 to 1. After-use to a range of managed habitats.

Analysis Report

- Traffic and transportation score of Amber 1 to be change to Green (i) for policy and Amber 1 for engineering and safety - no additional impact on objective 14.

A4 Bradwell Quarry, Rivenhall Airfield

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A4	3	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A4	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change long term score for objective 1 to 1. After-use to a range of managed habitats.

Analysis Report

- Traffic and transportation scores to be Green (i) for policy and Amber 1 for engineering and safety - Previous score was Amber 1 so no change to objective 14.
- Amenity and Pollution: Change score from Green to Amber 2 due to number of properties within 100m of indicative extraction area – no change to relevant objective scores as different criteria is used.

A5 Bradwell Quarry, Rivenhall Airfield

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A5	3	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A5	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Amendments

- Change long term score for objective 1 to 1. After-use to a range of managed habitats.

Analysis Report

- Traffic and transportation score to change from Amber 1 to be Green (i) for policy and Amber 1 for engineering and safety - no additional impact on objective 14.
- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area - already taken into consideration when scoring relevant objectives.

A6 Bradwell Quarry, Rivenhall Airfield**Preferred Approach**

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A6	2.5	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A6	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change long term score for objective 8 to -1. Explanation below.
- Change long term score for objective 1 to 1. After-use to a range of managed habitats.
- Change long term score for objective 16 to 0. Reflects revised after-use.

Analysis Report

- Landscape: Change score from Amber 2 to Amber 1 – no change to objective 9 as the impact remains moderately adverse
- Proximity to Sensitive Uses: Change score from Amber 2 to Amber 1 –no change to relevant objectives as the impact remains moderately adverse
- Amenity and Pollution: Change score to Amber 3 due to number of properties within 100m of indicative extraction area - no change to relevant objective scores as different criteria are used.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for localised infilling to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 – change long term score for objective 8 to a negative.
- Ecology: Change score to Amber 2 – minor/moderate impact with mitigation stipulated therefore no change to existing score for objective 1.
- Traffic and transportation scores to be Green (i) for policy and Amber 1 for engineering and safety - Previous score was Amber 1 therefore no further impact on objectives.

A7 Bradwell Quarry, Rivenhall Airfield

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A7	6.5	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A7	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Amendments

- Change long term score for objective 1 to 1. After-use to a range of managed habitats.

Analysis Report

- Traffic and transportation scores to be Green (i) for policy and Amber 1 for engineering and safety. Previous score was Amber 1 therefore no further impact on objective 14

- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area – no change to relevant objective scores as different criteria are used.

A13 Colchester Quarry – Five Ways Fruit Farm, Stanway

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A13	2.95	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A13	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-2	0	/	/	/	/	0	/	0	1	0	/	1	

Amendments

- Change long term score for objectives 1 and 16 to 1. After-use to green infrastructure & amenity in line with Colchester DPD.
- Change long term score for objective 4 to -2 to reflect after use to green infrastructure & amenity.

Analysis Report

- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area – no change to relevant objective scores as different criteria are used.
- Traffic and Transportation: Scores to be changed, in view of new methodology from Amber 1 to: Green (i) for Policy and Green for Engineering & Safety – no impact on existing score for objective 14

A20 Sunnymead, Elmstead and Heath Farm, Alresford

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A20	4.67	SM	-1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	1	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A20	SM	-1	-1	1	-1	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site
	L	1	1	/	-1	0	/	/	/	/	0	/	0	1	0	/	/	

Amendments

- Change impact on objective 4 from -2 to -1. Explanation below.
- Change long term impact for objective 16 to /. Explanation below.

Analysis Report

- Agriculture: Change score to Amber 1 due to agricultural land classification report submitted by site promoter proving that none of the site would affect Grade 1 or 2 land – Change impact on objective 4 to -1 as the site is within grade 3 land.
- Proximity to Sensitive Uses: In view of the scoring methodology, reduce overall score to Amber 2 given the number of properties within 250m of the site boundary - already taken into consideration when scoring relevant objectives
- Traffic and Transportation: Change score to Green due to Highway Authority assessment – no further impact on objective 14
- Amenity and Pollution: Change score to Amber 3 due to number of properties within 100m of indicative extraction area - no change to relevant objective scores as different criteria are used.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the issue regarding potential ponding after extraction ceases and reinstatement of the footpath it is considered the score for the site should be increased to Amber 2 – change long term impact on objective 16 to uncertain in response to footpath issue.

A31 Birch Quarry – Southern Extension, Colchester

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A31	4	SM	1	-1	-1	-1	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site.
		L	/	1	/	0	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A31	SM	1	-1	-1	-1	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site
	L	1	1	/	0	0	/	/	-1	/	0	/	0	1	0	/	1	

Amendments

- Change Objective 8 long term score to -1. Explanation below
- Change long term score for objective 1 to 1. After-use to a range of managed habitats.

Analysis Report

- Reduce landscape score to Amber 2 in accordance with the revised landscape comments following the change made to the site boundary and additional information submitted/available; which it is considered reduces the potential landscape impact – no change to objective 9 as the landscape impact would remain being moderately to highly adverse
- Reduce Ecology score from Amber 2 to Amber 1 following the reduction in the site area and resulting avoidance of woodland habitat in SE of site - minor/moderate impact with mitigation stipulated therefore no change to existing score for objective 1.
- Increase Historic Environment score from Amber 2 to Amber 3, given the particular sensitivity with regard to infill and boundary treatments – Existing short term score for objective 8 is -1. Long term score for objective 8 to change to -1 due to infill issue
- Traffic and Transportation Policy score to be Green (i) and Engineering & Safety score to be Amber 1. Overall score remains at Amber 1 therefore no change to objective 14.
- Raise Amenity and Pollution score from Green to Amber 1 - no change to relevant objective scores as different criteria are used.
- Restoration and Aftercare: In consideration of the incompatibility between the low level restoration proposal and the need for localised infilling to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 - Long term score for objective 8 to change to -1.

3.2.2 Non Preferred Sites**A1 Appleford and Colemans Farm, Little Braxted Lane, Witham**

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A1	SM	1	-1	-1	-2	0	/	/	-2	-1	0	/	0	1	-1	-1	-1	Fundamental sustainability issue in that - Unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A1	SM	1	-1	-1	-2	0	/	/	-2	-1	0	/	0	1	-1	-1	-1	Fundamental sustainability issue in that - Unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	/	0	/	0	1	0	/	0	

Analysis Report

- Traffic and transportation scores to be Green (i) for policy and Amber 3 for engineering and safety. previous score was Amber 3 – objective score remains -1 as further detailed investigation/design and road safety audit will be required for site access.
- Amenity and Pollution: Change overall amenity and pollution score from Amber 1 to Amber 3 based on 6 properties being within 100m of indicative extraction area – already taken into consideration when scoring relevant objectives.

A2 Bradwell Quarry, Rivenhall Airfield

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A2	0.25	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A2	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	/	-1	Grade 2 agricultural land
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Analysis Report

- Traffic & Transportation: Policy score Green (i) and Engineering & Safety score Amber1. Overall score is Amber 1 which is same as previous – no change in impact on objective 14
- Amenity and Pollution: Change overall score from Green to Amber 1 based on 1 property being within 100m of indicative extraction area – no change to relevant obj scores as different criteria is used.

A8 Bradwell Quarry, Rivenhall Airfield**Preferred Approach**

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A8	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	/	/	Stage 1 Fail - Cumulative Impact at Bradwell Quarry
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A8	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	/	/	Cumulative Impact at Bradwell Quarry
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	0	0	

Amendments

- Obj 15 changed from uncertain. Analysis report does not suggest improvements to future quality of life but it is not anticipated that restoration will have detrimental impacts either.

Analysis Report

- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area. – Does not impact on SA objectives as distance criteria is different.

- Traffic and transportation scores to be Green (i) for policy and Amber 1 for engineering and safety – Policy states....”transportation by road[...]will be permitted where the highway network is suitable for use by HGV, or can be improved to accommodate such vehicles for transportation by road” and contains a hierarchy of preference which satisfies Obj 14
- Updated Site Requirements - This site comprises the best quality Grade 2 agricultural soils and it is expected that these would be retained on site during restoration – no impact on Obj 4 criteria

A10 Covenbrook Hall Farm, Stisted

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A10	1.5	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A10	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Analysis Report

- Due to site promoter stating that advance boundary landscaping, it is considered the overall landscape score for the site should be Reduced to Amber 1 – no change to objective 8 as there is still likely to be moderate adverse landscape impacts.
- Change to the traffic and transportation score reflects change in methodology Green (i) for Policy and Amber 3 for Engineering and Safety. Previous overall score was Amber 3 – no change to objective 14 as further detailed investigation/design and road safety audit are required following access issues.
- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area - no change to relevant objective scores as different criteria are used.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need to restore the landform, it is considered the score for the site should be increased to Amber 1 - no change to SA objective as criteria different.

A11 Tile Kiln, Valley Farm, Sible Hedingham

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A11	SM	1	1	1	-1	0	/	/	-1	-2	0	/	0	1	1	/	/	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A11	SM	1	1	1	-1	0	/	/	-1	-2	0	/	0	1	1	/	/	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Analysis Report

- Proximity to Sensitive Uses: Reduce overall proximity to sensitive uses score from Amber 3 to Amber 2 based on further consideration of the number of visual receptors - no change to relevant SA Objectives.
- Traffic & Transportation: Reduce traffic & transportation score from Amber 1 to Green in light of the revised comments from the ECC Highway Authority – no change to SA Objective 14.
- Restoration and Afteruse: In consideration of the incompatibility between promoting low level restoration and the need for significant infilling, to restore the landscape, it is considered the score for the site should be increased to Amber 3 - This will impact on the Objective 9 which already scores -2

A12 Colchester Quarry - Bellhouse Farm South, Stanway

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A12	SM	-1	-1	-1	-2	0	/	/	-1	-2	0	/	0	1	1	/	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A12	SM	-1	-1	-1	-2	0	/	/	-1	-2	0	/	0	1	1	/	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	-1	-2	0	/	0	1	0	/	0	

Analysis Report

- Historic Environment: Score to be increased to Amber 3 due to the site representing an increase in proximity to group of listed buildings at Bellhouse Farm and Copford Hall including the grade I listed church –change objective 8 long term impact score to -1.
- Traffic and Transportation: Policy score to be Green (i) and engineering and safety score to be Green from an overall score of Amber 1 – no change as previous objective 14 score was green
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, both to protect the setting of listed buildings and to avoid creation of waterbodies, it is considered the score for the site should remain Amber 2 – change objective 8 long term score to -1.

A14 Fingringhoe Quarry, Ballast Quay, Fingringhoe

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A14	0.6	SM	1	1	1	-1	0	1	1	-1	-1	0	/	0	1	2	-1	-1	Site allows for transportation of minerals by water.
		L	/	0	/	0	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A14	SM	1	1	1	-1	0	1	1	-1	-2	0	/	0	1	2	-1	-1	Major impact on landscape. Site allows for transportation of minerals by water.
	L	/	0	/	0	0	/	/	-1	-2	0	/	0	1	0	/	0	

Amendments

- Change objective 8 long term score to -1. Explanation below
- Change objective 9 to -2. Explanation below.

Analysis Report

- Raise landscape score from Amber 3 to Red – change objective 9 to significant negative due to major impact on landform and impacts on the settings of listed buildings and the conservation area.
- Historic Environment: Increase score to Amber 3 from Amber 2, due to increased proximity to road harm the Listed Buildings and Conservation Area in Fingringhoe and High Park Corner – change objective 8 long term score to -1.
- Increase overall proximity to sensitive uses score from Amber 3 to Red due to revision to the visual impact assessment – existing score for relevant objectives are already -1.
- Amenity and Pollution score from Green to Amber 2 – already taken into consideration when scoring relevant objectives.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, both to protect the setting of listed buildings, landscape and to ensure reinstatement of the footpath, it is considered the score for the site should be increased to Amber 2 – change objective 8 long term score to -1.

A15 Admirals Farm, Great Bentley

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A15	SM	1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A15	SM	1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	No Highway Authority objection. Further investigation required.
	L	/	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 8 to -1. Explanation below.
- Change objective 14 to -1. See policy score.

Analysis Report

- In consideration of the scoring methodology, the current information submitted, and the potential impact on the setting of the Conservation Area it is considered that the Historic Environment score be changed from Amber 2 to Amber 3 –does not change short term score for Objective 8 as the site provides some mitigation as to its impact on the designation
- Previous transport score was red. Transport policy score Green (i) and engineering and safety score change to Amber 3 due to the site not being an accident investigation site. Site accords with emerging minerals transportation policy S11(i) but there are outstanding issues requiring further investigation to demonstrate that the site would be acceptable in highway terms – change objective 14 to -1.
- Change score from Green to Amber 1 due to the number of properties that would be within 100m of the indicative extraction area – no change as Obj criteria is different
- In consideration of the incompatibility between the low level restoration proposal and the need for infilling to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 – this is expected to have a long term negative impact on historic assets therefore long term score for Objective 8 is changed to -1

A16 Church Farm, Alresford

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A16	2	SM	1	-1	-1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-2	Primary School located to the east of the site, and site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A16	SM	1	-1	-1	-1	0	/	/	-1	1	0	/	0	1	-1	-1	-2	Primary School located to the east of the site
	L	1	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land and from responses made during the consultation.
- Change objective 8 long term score to -1. Explanation below.
- Change objective 14 score to -1. Explanation below.

Analysis Report

- Landscape: Increase score to Amber 2, from Amber 1 due to further consideration of the site – no change to objective 9 as report states “It is likely that there will be a slight landscape impact” which adheres to existing score.
- Agriculture: Based on new evidence that there is no Grade 1 or 2 agricultural land on the site reduce score to Amber 1 from Amber 2 – change objective 4 to negative for short term impact due to site lying within Grade 3 agricultural land.
- Proximity to Sensitive Uses: Reduce score from Amber 3 to Amber 2 – Alresford Primary School and Montessori Nursery remain within 250m therefore impact on objective 16 does not change.
- Traffic and transportation: Raise score from Amber 1 to Red – Report states there are “concerns over route from site to main road network” therefore impact on objective 14 has been increased to -1.
- Amenity and Pollution: Raise score from Green to Amber 1 - no change to relevant objective scores as different criteria are used
- Afteruse and Restoration: In consideration of the incompatibility between the low level restoration proposal and the need for localised infilling to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 from Green – long term impact on objective 8 to be changed to -1.

A17 Frating Hall Farm, Frating

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A17	4	SM	1	1	1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	1	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A17	SM	1	-2	1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-1	Grades 1 and 2 agricultural land and SPZ
	L	1	-2	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 8 long terms impact to -1
- Change objective 2 to -2 due to Source Protection Zone

Analysis Report

- Reduce proximity to sensitive uses score from Amber 2 to Amber 1 given that the visual impact is likely to be insignificant to slight and the number of properties within 250m of the site boundary – the number of properties within 250m remains therefore no change in score for objectives 15 and 16.
- Amenity and Pollution: Score should be changed to Amber 2 due to number of properties within 100m of indicative extraction area - already taken into consideration when scoring relevant objectives.
- Restoration and Afteruse: Increase score from Green to Amber 2 given the incompatibility between the low level restoration proposal and the need for significant infilling, to protect the setting of Frating Hall and issues over reinstated footpaths and flooding – Objective 3 score remains uncertain, existing score for objective 16 incorporated impact on PROW and long term score for objective 8 to be changed to -1 due to future impact on setting of listed building.

A18 Gurnhams, Little Bentley

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A18	SM	1	-1	-1	-2	0	/	/	1	-1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A18	SM	1	-1	-1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	No Highway Authority objection. Further investigation required.
	L	/	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Changed Obj 8 due to the impact on Gurnham being classed as severe and proposal for low level restoration – see below.
- Changed Obj 14 changed from -2 to -1. Analysis report states “...the site accords with emerging minerals transportation policy S11(i)... . It has however been scored Amber 3 as there are still outstanding issues that require further investigation to demonstrate that the site would be acceptable in highway terms”.

Analysis Report

- Historic env score to be changed from Amber 1 to Amber 3 due to the severe impact on setting on Listed Buildings, particularly Gurnhams – change Objective 8 scores to -1.

- Proximity and sensitive uses - Reduce score to Amber 1 from Amber 2 in view of the moderate visual impact – no change to obj 15 and 16
- Traffic and Transportation: Change scores, in view of the new methodology to: Green (i) for Policy and Amber 3 for Engineering & Safety. Score was previously Red. – changed Obj14
- Amenity and Pollution: Change score from Green to Amber 2 due to number of properties within 100m of indicative extraction area – no change - relevant Objs are already -1
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for infilling to protect the setting of listed buildings, it is considered the score for the site should be increased from Green to Amber 1 - – Changed long term score for Objective 8 to -1.

A19 Lodge Farm, Alresford

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A19	SM	1	-1	1	-1	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A19	SM	1	-1	1	-1	0	/	/	-1	-2	0	/	0	1	-1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Amendments

- Objective 14 changed from 1 to -1. Explanation is below.

Analysis Report

- Proximity to Sensitive Uses: Change score from Red to Amber 2 in view of the proposed landscaping. The overall landscape impact is nevertheless considered severe and the Red scoring should remain - no change to relevant SA Objectives
- Traffic and Transportation: Change scores, in view of the new methodology from Red to: Red for Policy and Amber 3 for Engineering & Safety. Overall score is Red – change Objective 14 score to -1 due to site being contrary to the Emerging Mineral Transport Policy.
- Restoration and Afteruse: Change score from Green to Amber 1 given the partial landscape impact with low level restoration - no change as existing score for Objective 9 is -2.

A21 Thorrington Hall Farm, Thorrington

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A21	SM	-1	-1	-1	-2	0	/	/	-2	-2	0	/	0	1	1	-1	-1	landscape not capable of mitigation + unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A21	SM	-1	-1	-1	-1	0	/	/	-2	-2	0	/	0	1	1	-1	-1	landscape not capable of mitigation + unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	-2	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land

Analysis Report

- Reduce landscape score from Red to Amber 3 – no change to objective 9 as the report still states “There would be a highly adverse landscape impact”.
- Amenity and Pollution: Change score from Green to Amber 3 due to the number of properties within the indicative extraction area - – already taken into consideration when scoring relevant objectives.

A28 Fingringhoe Quarry – North, Colchester

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A28	0.1	SM	1	1	1	-1	0	1	1	-1	-1	0	/	0	1	2	-1	-1	Site allows for transportation of minerals by water.
		L	/	0	/	0	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A28	SM	1	1	1	-1	0	1	1	-1	-1	0	/	0	1	2	-1	-1	Site allows for transportation of minerals by water
	L	/	0	/	0	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 8 long term score to -1. Explanation below.

Analysis Report

- Increase to Historic Environment score to Amber 3 from Amber 2 due to the proximity to Furneaux Road making this site particularly harmful to the Conservation area (CA), given its impact on the approach into the CA. Concur with the representations which highlight the impact on LBs and the CA – existing score for objective 8 S/M term is -1 therefore no change.
- Restoration and Afteruse: In consideration of the incompatibility between low level restoration and the need for infilling to original levels, both to protect the setting of listed buildings and to ensure reinstatement of the footpath, it is considered the score for the site should be increased to Amber 2 – change objective 8 long term score to -1.

A29 Fingringhoe Quarry – West, Colchester

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A29	SM	1	1	1	-1	0	1	1	-1	-2	0	/	0	1	2	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A29	SM	1	1	1	-1	0	1	1	-1	-2	0	/	0	1	2	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Analysis Report

- Restoration and aftercare: In consideration of the incompatibility between the low level restoration proposal and the need for infilling to original levels, it is considered the score for the site should be increased to Amber 3 – impacts on Obj 9 landscape which is already scored as -2. No change to score.

A30 Fingringhoe Quarry – South, Colchester

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A30	SM	1	1	1	-1	0	/	/	-1	-2	0	/	0	1	1	/	/	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A30	SM	1	1	1	-1	0	/	/	-1	-2	0	/	0	1	1	/	/	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Analysis Report

- Raise restoration and afteruse score from Amber 1 to Amber 3 In consideration of the potential for low level restoration. – This will impact on the Landscape Objective which already scores -2.

A34 Thorrington Hall Farm

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A34	SM	-1	-1	-1	-2	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A34	SM	-1	-1	-1	-1	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	/	-2	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land

Analysis Report

- Reduce landscape score from Red to Amber 3 – no change to objective 9. Report states “There would be a highly adverse to major adverse landscape impact”
- Change ecology score from Amber 3 to Amber 2 – no change to objective 1
- Amenity and Pollution: Change score from Green to Amber 3 due to number of properties within or within proximity the 100m indicative extraction area – no change on existing negative scores for objectives 15 and 16.

A42 Ardleigh Rail, Ardleigh

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A42	SM	1	-1	1	-2	0	/	/	-2	-1	0	/	0	1	1	-2	-1	Stage 1 Fail - Unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A42	SM	1	-1	1	-2	0	/	/	-2	-1	0	/	0	1	-1	-2	-1	Stage 1 Fail - Unacceptable adverse impact on international or national historic environment designation
	L	/	0	/	-1	0	/	/	-2	/	0	/	0	1	0	/	0	

Amendments

- Change Obj 14 from 1 to -1 – Analysis report states “Highway Authority does not support the northern site access and would require further details regarding the location of the proposed southern access”

Analysis Report

- Change score from Amber 2 to Amber 1 based on Ecology comments – no change to obj 1
- Change score from Green to Amber 2 due to the number of properties within 100m of indicative extraction area – proximity of properties already incorporated within obj 15 and 16 – no change to SA
- The restoration and afteruse score can be downgraded from Amber 2 to Green – no change to obj 13 as criteria is different.
- Highway score for policy and engineering and safety to be Red instead of Amber 2. – SA changed: see above

A43 Parkgate Farm, Silver End

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A43	SM	-1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Stage 1 Fail - Cumulative Impact at Bradwell Quarry
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A43	SM	-1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Stage 1 Fail - Cumulative Impact at Bradwell Quarry
	L	/	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Obj 15 changed from uncertain. Analysis report does not suggest improvements to future quality of life but it is not anticipated that restoration will have detrimental impact either.
- Obj 9 long term score to -1 from 0. See below for explanation.

Analysis Report

- Change score to Amber 3 from Amber 2 due to potential harm on setting of nearby Listed Buildings – change Obj 9 long term score to -1 from 0. See Restoration and Aftercare comment for explanation
- Change in Amenity & Pollution Score to Red from Amber 1 – no change to obj 15 and 16 as properties already identified as being in proximity.
- Change in Restoration & Aftercare score from Green to Amber 1. In consideration of the incompatibility between the low level restoration proposal and the need for infilling to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 – existing score for objective 8 is -1. No change.

A45 Ardleigh Rail 2

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A45	7mt	SM	/	1	-1	-2	0	1	1	-1	/	0	/	0	1	2	-1	-1	Site includes Grades 1 or 2 Agricultural Land. Mixed use restoration.
		L	/	1	/	-2	0	0	1	/	/	0	/	0	1	2	1	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A45	SM	/	1	-1	-2	0	1	1	-1	-1	0	/	0	1	-1	-1	-1	Site lies within Grade 1 Agricultural Land. Mixed use restoration.
	L	/	1	/	-2	0	0	1	-1	-1	0	/	0	1	-1	1	1	

Amendments

- Change long term score for objective 8 to -1. Explanation below.
- Change scores for objective 9 to -1. Explanation below.

- Change scores for objective 14 to -1. Explanation below.

Analysis Report

- Score for Landscape impact to be amber 3 based on ECC Landscape Assessment. Report states “Taking account of the impact on the village and the cumulative impact, there is likely to be a moderate to high landscape impact” – impact on objective 9 should be changed to negative inline with the criterion.
- Overall Ecology and Designations score to be Amber 1. Reports states that impacts are likely to be minor however if proposed minerals are exported by rail using port facilities at Haven Gateway further investigation under HRA may be required – score for objective 1 should remain as uncertain.
- Historic Environment: Overall score amber 3 due to potential impacts on archaeology – potential long term negative impact on archaeology.
- Agriculture: Score to be amber 3 due to the site being on Grade 1 agricultural land – accords with the score for objective 4.
- Overall water, hydrology and flood risk score to be amber 1 due to site being near to local water abstraction points and a small section being within Flood Zone 3 – impact reflected in relevant objective scoring.
- Traffic and Transportation scoring for policy and engineering and safety to be Red – Site is contrary to emerging mineral transport policy and has issues with regards to capacity and safe access therefore the scoring for objective 14 should be changed to negative.
- Recreation: Overall recreation score to be amber 2 due to public rights of way crossing the site – impact on objective 16 is reflected in existing score.
- Overall Amenity and Pollution score to be amber 3 due to the number of properties within 100m of the indicative extraction area - no change to relevant objective scores as different criteria are used.
- Overall Restoration and Afteruse score to be Green. Report states that site has “potential for a range of afteruses and scope for possible improvements to the PROW adjacent to Badley Hall” – Long term positive impacts are reflected in scores for objectives 15 and 16.

3.3 Central Area Sites

3.3.1 Preferred Sites

A9 Broadfield Farm, Rayne

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A9	4.28	SM	1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A9	SM	1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Amendments

- Change objective 14 score to 1. Explanation below.

Analysis Report

- Ecology and Designations: Change score to Amber 2 due to there being minor/moderate impact on LoWS that could be mitigated – accords with criteria for a positive scoring for objective 1 therefore no change.
- Traffic and Transportation score to be changed from Amber 1 to Green (iii) for policy and Amber 1 for engineering and safety – positive impact on objective 14 where the site accords with emerging minerals transport policy and no major issues identified.
- Amenity & Pollution: Change score from Green to Amber 3 due to number of properties within 100m of indicative extraction area - already taken into consideration when scoring relevant objectives
- Change Restoration and Afteruse score from Amber 2 to Green due to potential for enhancing nature conservation in the County – already reflected in score for objective 1.

A22 Little Bullocks Farm, Canfield Area A

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A22	0.65	SM	1	-1	-1	-2	0	/	/	1	-1	0	/	0	1	1	/	/	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A22	SM	1	-1	-1	-2	0	/	/	1	-1	0	/	0	1	1	/	/	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Analysis Report

- Amenity & Pollution Score. The original score of Amber 3 was largely based on complaints with respect to odour, however, there arose from waste composting operations and not in relation to mineral operations. There have been no odour complaints made to ECC in 2012 (up to June). As there are no properties within 100m, it is therefore considered that Amber 1 score would be more appropriate as some impact was occurring during the site visit with respect to minerals – no change to relevant objective scores as different criteria are used.
- Restoration & aftercare score increased from Green to Amber 2 due to potential incompatibility of site low level restoration with need to avoid water levels with respect to airport safeguarding – no change to any of the SA objectives.

A23 Little Bullocks Farm, Canfield Area B

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A23	0.06	SM	1	1	1	-2	0	/	/	1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A23	SM	1	1	1	-2	0	/	/	1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Analysis Report

- Amenity and Pollution: The original score of Amber 3 was largely based on complaints with respect to odour, however, there arose from waste composting operations and not in relation to mineral operations. There have been no odour complaints made to ECC in 2012 (up to June). As there no properties within 100m, it is therefore considered that Amber 1 score would be more appropriate as some impact was occurring during the site visit – no change to relevant obj scores as different criteria is used

A38 Blackley Quarry Gate Farm - Site 1, Great Leighs**Preferred Approach**

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A38	1.07	SM	1	-1	1	-2	0	/	/	-1	1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A38	SM	1	1	1	-1	0	/	/	-1	1	0	/	0	1	1	-1	-1	
	L	/	0	/	1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land, and long term impact to 1 due to agricultural restoration.
- Change objective 2 to +1 due to error in previous assessment.

Analysis Report

- No changes to scores

A39 Blackley Quarry Gate Farm - Site 2, Great Leighs

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A39	0.75	SM	1	1	1	-2	0	/	/	1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A39	SM	1	1	1	-1	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site
	L	/	0	/	/	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land. Change long term to / to reflect agricultural restoration but in line with need for infilling for 15% of site (listed building setting)
- Change objective 8 scores to -1. Explanation below

Analysis Report

- Change to historic environment score to Amber 2 due to proximity to grade II listed Gatehouse Farmhouse – change objective 8 score to -1.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for localised infilling, to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 1 – change objective 8 long term score to -1 to reflect potential negative impact on historic asset.

A40 Shellow Cross, Willingale

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A40	3.5	SM	-1	-1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A40	SM	1	-1	1	-1	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change objective 1 short term impact to 1. Explanation below.
- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land and from responses made during the consultation.
- Change objective 16 to 0 to reflect restoration to nature conservation and amenity.

Analysis Report

- Ecology and Designations: In consideration of the revised methodology, it is considered the score for the site should be reduced to Amber 2– impact on objective 1 to be changed. Moderate impact identified alongside mitigation measures.
- Agriculture: Considering the information presented to Essex County Council with regard to agricultural land classification it is considered the score should be reduced to Amber 2 –change objective 4 score to -1. It is acknowledged grade 2 land accounts for 4.4% of total site area.
- Traffic and Transportation: Break down of score, in view of the new methodology changed to: Green (ii) for Policy and Amber 1 for Engineering & Safety - No change in overall score therefore no further impact on objective 14

A46 Colemans Farm, Little Braxted Ln, Witham**Preferred Approach**

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A46	2.5mt	SM	/	-1	-1	-2	0	/	/	-1	/	0	/	0	1	-1	-1	-1	Site includes Grades 1 or 2 Agricultural Land. Restoration not agricultural
		L	/	1	/	-2	0	0	/	/	/	0	/	0	1	0	1	1	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A46	SM	/	-1	-1	-2	0	/	/	-1	-1	0	/	0	1	-1	-1	-1	Site lies mainly within Grade 2 Agricultural Land. Restoration not agricultural
	L	1	1	/	-2	0	0	/	/	-1	0	/	0	1	0	1	1	

Amendments

- Change objective 1 score to 1 for long term impact. Explanation below.
- Change objective 9 scores to -1. Explanation below.

Analysis Report

- Score for landscape impact to be Amber 3 based on ECC Landscape Assessment – change objective 9 score to -1 due to report stating that “taking account of the whole site, particularly the south area, there is likely to be a high landscape impact” which could be reduced in the long term but will be apparent on the landscape close to the river.
- Ecology and Designations: Score to be Amber 2 based on ECC Ecology assessment – impacts on habitats are likely to be minor however potential for impacts upon downstream international estuary sites. Short to medium term impact on Objective 1 remains as uncertain as impact on international site is currently unknown.
- Historic Environment: Overall score to be Amber 3 due to potential archaeological deposits on site – existing score on objective 8 reflects this.
- Score for agriculture to be amber 2 due to the site comprising some Grade 2 agricultural land – objective 4 score remains as -2 however as noted through representations only about 5% of site is Grade 2 land.
- Overall Proximity to Sensitive Uses score to be Amber 2 – reflected in existing score for relevant objective
- Traffic and transportation scores to be Green (i) for policy and Amber 3 for engineering and safety – the requirement for further detailed investigation/design and road safety audit and the identified access issues onto the A12 result reflect the existing score for objective 14.
- Recreation score to be Amber 2 due to PROW crossing the site – reflected in the existing short/medium term score for objective 16.
- Overall Amenity and Pollution score to be Amber 3 to reflect the 6 properties within 100m of indicative extraction area – supports existing scores for objectives 15 and 16.
- Overall Restoration and Afteruse score to be green. Site restoration being proposed by site promoter represents an opportunity to restore for nature conservation with open water and reedbeds, with access and interpretation for the public – positive long term impact on objective 1, supports long term impact on objective 4 and supports existing positive long term impact on objective 16.

3.3.2 Non Preferred Sites

A24 Easton Park, Great Dunmow

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A24	4	SM	-1	-1	1	-2	0	/	/	1	-1	0	/	0	1	1	/	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	1	

Submission

Site has since gained planning permission and is no longer part of the site allocation process.

A35 Tyndales Farm, Danbury

Preferred Approach

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Significant Impacts
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A35	3	SM	1	1	1	-2	0	/	/	1	-1	0	/	0	1	1	-1	-1	Site includes Grades 1 or 2 agricultural land
		L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A35	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
	L	1	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change objective 8 score to -1. Explanation below.

Analysis Report

- Increase historic environment score from Amber 1 to Amber 3 – Report states that “the setting to 7 listed buildings along Southend Road will be harmed by introducing quarrying to the north” therefore the score for objective 8 is changed to a negative impact.
- No change to traffic & transportation score required, overall score remains at Amber 2 – no change to objective 14 score.

- Increase amenity & pollution score from Amber 2 to Amber 3 given the number of properties within 100m – no change to relevant objective scores as different criteria are used.

A36 Olivers Nurseries, Witham

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A36	SM	1	-1	1	-2	0	/	/	-1	1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A36	SM	1	-1	1	-1	0	/	/	-1	1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land

Analysis Report –

- no changes

A37 Alsteads Farm, Little Waltham

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A37	SM	-1	1	1	-2	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A37	SM	1	1	1	-2	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	-1	-2	0	/	0	1	0	/	0	

Amendments

- Change objective 1 score to 1. Analysis report states “Direct loss of habitat is likely to be minor. There is potential for moderate impacts upon the woodland LoWS”

Analysis Report

- Ecology: Change score from Amber 3 to Amber 2. EIA will need to consider impacts upon ancient woodland & LoWS (Sheepcotes Wood), and apply mitigation measures consistent with Natural England’s Standing Advice for Ancient Woodlands – change objective 1 score to 1.
- Historic Environment: Change score to Amber 3 due to harm of settings of nearby Listed Buildings – change long term score for Objective 8 to -1.
- Amenity and Pollution: Change score from Green to Amber 1 due to the number of properties within 100meters of the indicative extraction area - no change to relevant Objectives due to different criterion used
- Restoration and After use: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, to protect the setting of listed buildings, it is considered the score for the site should be increased to Amber 2 - change long term score for Objective 8 to -1

A44 Whitehouse Farm, Woodham Walter**Preferred Approach**

Site	Quantity (mt)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A44	4mt	SM	/	-1	1	-2	0	/	/	-1	/	0	/	0	1	/	-1	-1	Site includes Grades 1 or 2 Agricultural Land.
		L	/	-1	0	0	0	0	/	/	/	0	/	0	1	/	/	/	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A44	SM	1	-1	1	-2	0	/	/	-2	-2	0	/	0	1	1	-1	-1	Major significant negative impacts identified on the landscape and historic assets. Site also lies within Grade 2 agricultural land
	L	/	-1	0	-1	0	0	/	-2	-2	0	/	0	1	0	/	/	

Amendments

- Change objective 1 short/medium term score to 1. Explanation below
- Change long term score for objective 4 to -1. Explanation below.
- Change scores for objective 8 to -2. Explanation below.
- Change scores for objective 9 to -2. Explanation below
- Change objective 14 short/medium score to 1 and the long term score to 0. Explanation below

Analysis Report

- Overall landscape score to be Red based on the ECC Landscape Assessment. The report identifies that there would be a highly adverse landscape impact, largely because of the impact of the works, and the long-term effects on landform – the scores for objective 9 should be changed to significantly negative.
- Ecology and Designations: Score to be Amber 2 based on ECC Ecology assessment. The report identifies that direct habitat is likely to be minor, but there is potential for moderate impacts upon the abutting LoWS through enrichment of vegetation from airborne or waterborne pollutants or through alteration to the local hydrology - Short to medium term impact on Objective 1 is therefore positive with longer term impacts remaining uncertain.
- Historic Environment score should be Amber 3 because the proposed site would harm the settings of listed buildings visually and because of the concerns raised by English Heritage and Historic Environment (Archaeology) with regard to the physical harm to the Scheduled Ancient Monument and dewatering problems – impact on objective 8 should be significantly negative largely owing to English Heritage believing that no changes can be made which would alleviate the significant harm caused to monument.
- Agriculture: Score should be Amber 2 as proposed site is partially located on Grade 1 or 2 agricultural land – short/medium term impact is reflected in existing scoring of objective 4 but long term impact is assessed as negative due to comment that the “proposed restoration is back to lower level agriculture with woodland and small water body”.
- Score for Proximity to Sensitive Uses to be Amber 2 given that the visual impact is likely to be moderate and the number of properties within 250m of the site boundary. – impact is reflected in the existing scoring for objective 15

- Traffic and transportation scores to be Green (i) for policy and Amber 1 for engineering and safety – site accords with emerging transport policy and mitigation of impacts are possible therefore scoring for objective 14 should be positive and long term impact should be neutral.
- Score for Recreation to be Amber 2 given that Footpaths 14 & 16 cross the site and Footpath 19 adjoins the site - impact is reflected in the existing scoring for objective 16
- Amenity and Pollution: score to be Green given that there are no properties within 100m of the indicative extraction area - no change to relevant objective scores as different criteria are used.
- Restoration and Afteruse: Score to be Amber 2 in consideration of the incompatibility between low level restoration proposal and the need for significant infilling e.g to protect the landscape and settings of listed buildings – impact on objectives 8 and 9 contributing to -2 scores.

3.4 West Area Sites

3.4.1 Preferred Sites

None

3.4.2 Non Preferred Sites

A25 Elsenham Quarry, Elsenham

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A25	SM	1	-1	1	-2	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A25	SM	1	-1	1	-2	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	-1	0	/	/	-1	-2	0	/	0	1	0	/	0	

Amendments

- Objective 8's long term score has changed to -1. Explanation below.

Analysis Report

- Reduce ecology score from amber 2 to amber 1 – no change to Objective 1
- Historic Environment: In consideration of the additional information which has been submitted and the scoring methodology it is considered the historic environment score should be increased from Amber 2 to Amber 3 – change Objective 8 to -1 to reflect low level restoration implications.
- Proximity to Sensitive Uses: In consideration of the sensitive uses in proximity to the site and the scoring methodology (including scores allocated to other sites) it is considered the proximity to sensitive uses score should be reduced from Red to Amber 3 – no change to relevant SA objectives
- Amenity and Pollution: Change score from amber 3 to amber 2 due to the number of properties within 100meters of the indicative extraction area and as noted above Any potential adverse effects of the site operations on the environment and local amenity would need to be assessed as part of an application/EIA – no change to relevant Objectives due to differing criteria
- Restoration and After use: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, to protect the setting of listed buildings it is considered the score for the site should be increased to Amber 2 - long term impact on Objective 8 changed to -1.

A26 Frogs Hall Farm, Takeley

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A26	SM	1	-1	-1	-2	0	/	/	-1	-1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A26	SM	1	-1	-1	-2	0	/	/	-1	-1	0	/	0	1	-2	-1	-1	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Objective 8's long term score has changed to -1. Explanation below.

Analysis Report

- Proximity to Sensitive Uses: Visual impact score to be reduced from Amber 3 to Amber 2. Overall score to be reduced to Amber 2 – no change to Obj as report states “There is likely to be a high adverse visual impact from several receptors”
- Amenity and Pollution: Change score from Amber 1 to Amber 2 based on number of properties within 100m of indicative extraction area. – no change as relevant obj scores are -1 already.
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, both to protect the setting of listed buildings and to avoid creation of waterbodies, it is considered the score for the site should be increased to Amber 3 from Green – long term negative score on Obj 8.

A27 Land at Ugley, Ugley

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A27	SM	1	-2	-1	-2	0	/	/	1	-1	0	/	0	1	1	-2	-1	Fundamental sustainability issue in that - SPZ
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A27	SM	1	-2	-1	-1	0	/	/	-1	-1	0	/	0	1	1	-2	-1	Fundamental sustainability issues
	L	/	0	/	-1	0	/	/	-1	/	0	/	0	1	0	/	0	

Amendments

- Change objective 4 short/medium score to -1 following review of agricultural land classifications which showed that site mainly lies within Grade 3 land
- Change objective 8 scores to -1. Explanation below.

Analysis Report

- Historic Environment: Increase score from Amber 1 to Amber 2 in view of close proximity of Listed Buildings and proposed restoration – change objective 8 scores to -1.

- Water, Hydrology and Flood Risk: Reduce score from Amber 3 to Amber 2 in view of the consultation responses received with regard to the potential impact on the SPZ – scores significantly negative under SEA criteria but Environment Agency stated the site is “considered no risk to upstream water resource assets”.
- Traffic and Transportation: Change scores, in view of the new methodology from Amber 1 to: Green (ii) for Policy and Amber 1 for Engineering & Safety. Overall score has not changed – no change to SA objective 14
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for significant infilling, to protect the setting of Orford House it is considered the score for the site should be increased from Green to Amber 3 – change objective 8 long term score to -1

A33 Annigers Farm, Thaxted

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A33	SM	1	-1	1	-2	0	/	/	1	-1	0	/	0	1	-2	/	/	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	/	/	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A33	SM	1	-1	1	-2	0	/	/	1	-1	0	/	0	1	-2	/	/	Stage 1 Fail - Unable to achieve satisfactory highway access
	L	/	0	/	-1	0	/	/	0	/	0	/	0	1	0	0	0	

Amendments

- Obj 8 changed from uncertain owing to S/M score and Analysis Report – “Listed Building in the vicinity (Armigers, Common Hill Cottage and 2 in Stanbrook) are reasonably well removed and this extension is likely to incur no greater visual harm than the existing site”. Restoration should have no impact
- Obj 15 changed from uncertain. Analysis report does not suggest improvements to future quality of life but it is not anticipated that restoration will have detrimental impact either.

Analysis Report

- After further consideration, of the methodology, the score for ecology is reduced to Amber 1. – no impact on Obj1

- Change proximity to sensitive uses score from Amber 2 to Amber 3 in consideration of the visual impact from the footpath, bridleway and for a number of properties – obj 9 already red
- Change score for amenity & pollution to Green in view that there are no properties within 100m of the extraction area – no change as distance criteria is different

A41 Patch Park Farm, Abridge

Preferred Approach

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A41	SM	-1	-1	-1	-1	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
A41	SM	1	-1	-1	-1	0	/	/	-1	-2	0	/	0	1	1	-1	-1	Fundamental sustainability issue in that - Landscape not capable of mitigation
	L	/	0	/	0	0	/	/	/	-2	0	/	0	1	0	/	0	

Analysis Report

- Ecology and Designations: Change score from amber 3 to amber 2. Appropriate levels of mitigation of protected species will be subject to the detailed assessment as part of the EIA – change objective 1 score to 1 in light of impacts being classified as moderate.
- Traffic and transportation scores to be Green (ii) for policy and Amber 2 for engineering and safety from an overall score of Amber 2 – no change to objective 14
- Amenity & Pollution: In consideration of the changed methodology the amenity and pollution score is increased from Amber 1 to Amber 2 – no change in objective scores as different criteria used
- Restoration and Afteruse: In consideration of the incompatibility between the low level restoration proposal and the need for infilling to avoid compromising flight operations, it is considered the score for the site should be increased to Amber 3 – no change to SA objective as criteria different.

3.5 Industrial Minerals Sites

3.5.1 Preferred Sites

B1 Slough Farm, Ardleigh Area 1

Preferred Approach

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
B1	Silica Sand	SM	1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site.
		L	/	0	/	-1	0	/	/	/	0	0	/	0	1	/	/	/	

Submission

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
B1	S M		1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	-1	-1	Grade 2 agricultural land
		L	/	0	/	-1	0	/	/	/	0	0	/	0	1	0	/	/	

Amendments

- Change long term score for objective 14 to 0. Explanation below.

Analysis Report

- Amenity and Pollution: Change score to Amber 2 due to number of properties within 100m of indicative extraction area - no change to relevant objective scores as different criteria are used.
- Traffic and Transportation: Policy Score is Green (i) and the engineering and safety score is Green – It is anticipated that there will be no long term impacts on transport therefore objective 14 long term score should be changed to 0.

3.5.2 Non Preferred Sites

B3 Park Farm, Ardleigh Area 3

Preferred Approach

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
B3	Silica Sand	S M	-1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	/	/	More sustainable site due to fewer nearby residential properties.
		L	/	0	/	-1	0	/	/	/	0	0	/	0	1	/	/	/	

Submission

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
B3	S M	S M	-1	1	1	-2	0	/	/	-1	-1	0	/	0	1	1	/	/	Site lies within Grades 1 and 2 agricultural land
		L	/	0	/	-1	0	/	/	/	0	0	/	0	1	0	/	/	

Amendments

- Change long term score for objective 14 to 0. Explanation below.

Analysis Report

- Traffic and Transportation: Policy Score is Green (i) and the engineering and safety score is Green – It is anticipated that there will be no long term impacts on transport therefore objective 14 long term score should be changed to 0.

C2 Bulmer Brickfields, Bulmer

Preferred Approach

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
C2	Clay	S M	1	-1	1	-1	0	/	/	-1	1	0	/	0	1	1	-1	-1	
		L	1	0	/	-1	0	/	/	/	0	0	/	0	1	/	/	/	

Submission

Site			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
			Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
C2	S M	S M	1	-1	1	-1	0	/	/	1	1	0	/	0	1	1	-1	-1	No major significant negative impacts identified, but minor negative relevant to the site
		L	1	0	/	-1	0	/	/	0	0	0	/	0	1	0	/	/	

Amendments

- Change score for objective 8 to 1 for short term impact and 0 for long term impact. Explanation below.
- Change long term score for objective 14 to 0. Explanation below.

Analysis Report

- Historic Environment: In consideration of the archaeological evaluation now submitted, it is considered the score should be changed from Amber 3 to Green – change impact on objective 8 to 1 for short term impact and 0 for long term impact.
- Amenity and Pollution: Change score from Green to Amber 2 based on the number of properties within 100m of indicative extraction area - no change to relevant objective scores as different criteria are used.
- Traffic and Transportation: Policy Score is Green (i) and the engineering and safety score is Green – It is anticipated that there will be no long term impacts on transport therefore objective 14 long term score should be changed to 0

3.6 Transshipment Sites

3.6.1 Preferred Sites

D2 Ballast Quay, Fingringhoe

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
D2	S M	1	0	-1	2	0	1	1	1	1	0	/	0	/	2	-1	-1	Significant positive impacts are identified with regards to transport and use of land. The site will reduce the amount of aggregate moved on the road network and is located predominantly on non agricultural land
	L	/	0	/	/	0	0	0	0	/	0	/	0	/	0	/	/	

Analysis Report

- Landscape: The site is well screened by vegetation to the south. It is visible from the opposite side of the Colne from public footpaths and from the edge of Wivenhoe – score for objective 9 should be 1 to reflect slight landscape impact.
- Ecology and Designations: Subject to the findings of any future Ecological Impact Assessment & HRA, mitigation requirements are likely to be moderate – Score for objective 1 should be 1 in the short/medium term and uncertain in the long term as the future of the site is unknown post plan period.
- Historic Environment: There is the potential for surviving above and below-ground remains associated with the historic quay and brickworks – Score for objective 1 should be 1 to reflect the low sensitivity to historic assets.

3.6.2 Non Preferred Sites

D3 Sadds Wharf, Maldon**Submission**

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
D3	SM	1	0	-1	2	0	1	1	-1	-1	0	/	0	/	2	-1	-1	Significant positive impacts are identified with regards to transport and use of land. The site will reduce the amount of aggregate moved on the road network and is located on PDL. There are a number of minor negatives relevant to the site
	L	/	0	/	/	0	0	0	/	/	0	/	0	/	0	/	/	

Analysis Report

- **Landscape:** The proposal is located in a sensitive area and a transshipment site is considered to out of keeping with the character. The site is prominent will therefore have a considerable impact on the conservation area and the wider settings of a number of important listed buildings – Scores for objectives 8 and 9 should be -1 for the short/medium term but will be uncertain in the long term as the future of the site is unknown post plan period.
- **Ecology and Designations:** On the basis of what was available at the appeal (APP/X1545/A/09/2105943/NWF) the Inspector was convinced that there would be no harmful effect either as a result of the development or by way of cumulative effect on the integrity of the protected areas – Score for objective 1 should therefore be 1 for short/ medium term and uncertain in the long term as the future of the site is unknown post plan period.

D5 Brightlingsea Quarry, Tendring

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
D5	SM	-2	0	-1	-	0	1	1	-1	-2	0	/	0	/	2	-1	-1	Significant negative impacts on biodiversity and landscape where the site cuts across the edge of a SSSI and an SPA. There are a number of minor negatives relevant to the site. Significant positive impacts are identified with regards to transport as the site will reduce the amount of aggregate moved on the road network.
	L	/	0	/	/	0	0	0	/	/	0	/	0	/	0	/	/	

Analysis Report

- Landscape: The proposed conveyor would have an impact on a length of the valley and the adjacent bridleway, would cut through an Ancient Woodland covered by a TPO, and would cut across the edge of a SSSI and an SPA – score for objective 9 should be -2 in the short/ medium term and uncertain in the long term as the future of the site is unknown post plan period.
- Ecology and Designations: Subject to the findings of any future Ecological Impact Assessment & HRA, mitigation requirements are likely to be major – score for objective 1 should be -2 in the short/ medium term and uncertain in the long term as the future of the site is unknown post plan period.
- Historic Environment: There is potential for well preserved archaeological remains within the inter-tidal zone – Score for objective 8 should be -1 to reflect the medium sensitivity to historic assets.

D6 Ardleigh Rail Sidings

Submission

Site		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Comments
		Biodiversity	Water	Flooding	Soils	Supply Hierarchy	AQ	G/house gases	Historic Env	Landscape	Community	Economy	Sustainable Use	Restoration	Transport	Human health	Amenity	
D6	SM	1	0	1	-2	0	1	1	-2	-1	0	/	0	/	2	-1	-1	Significant negative impact on the historic environment and soils.
	L	/	0	1	/	0	0	0	-2	/	0	/	0	/	0	/	/	

Analysis Report

- Landscape: Overall there is likely to be a moderate landscape impact – score for objective 9 should be -1 in the short/ medium term and uncertain in the long term as the future of the site is unknown post plan period.
- Ecology and Designations: Subject to the findings of any Ecological Impact Assessment, impacts are likely to be minor

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