



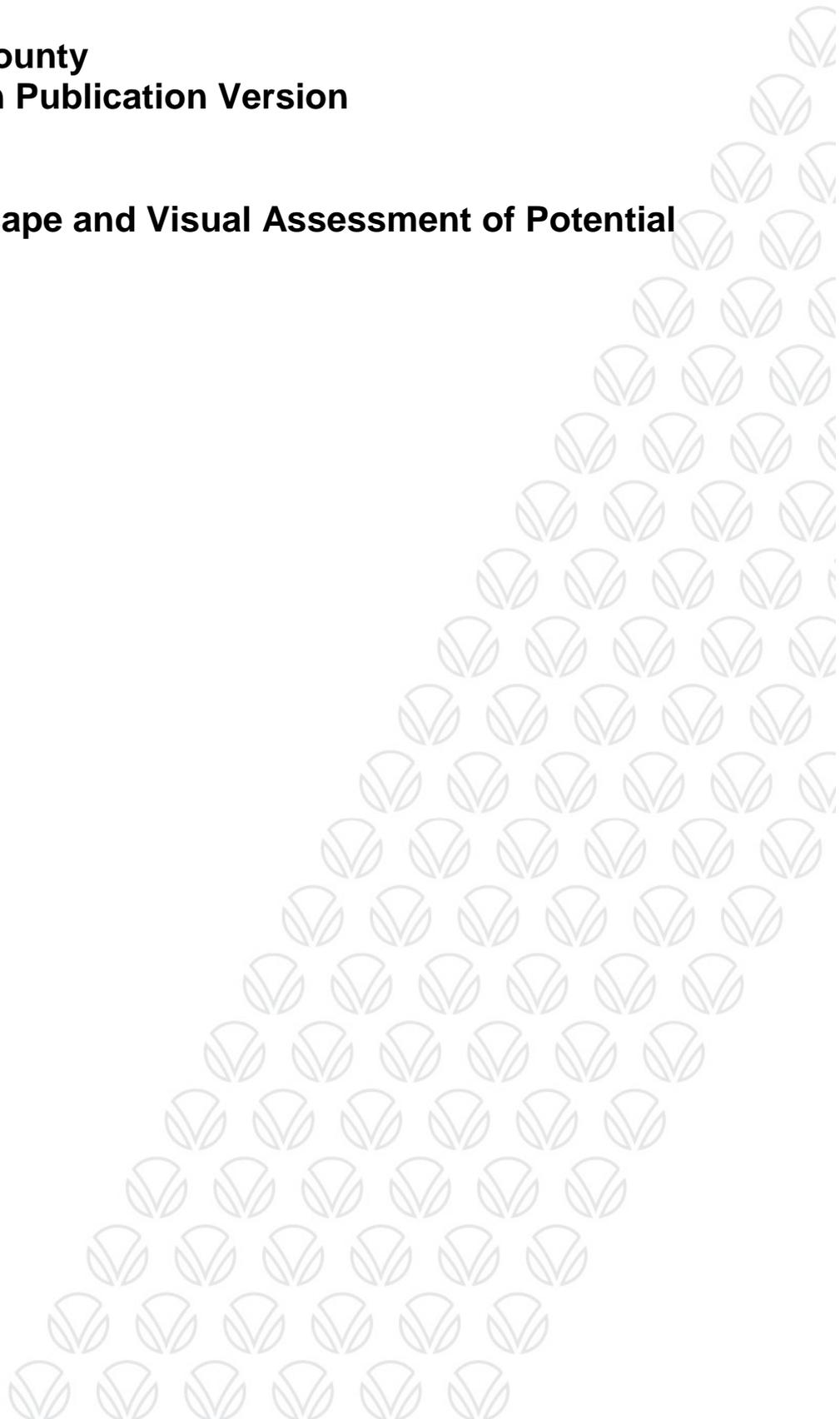
in partnership with



**Nottinghamshire
County Council**

**Nottinghamshire County
Minerals Local Plan Publication Version**

**Preliminary Landscape and Visual Assessment of Potential
Mineral Sites**



QUALIFICATIONS & LIMITATIONS

The report has been prepared by Via East Midlands in Partnership with Nottinghamshire County Council. It is a preliminary site assessment of mineral sites put forward by mineral operatives based on landscape and visual issues. Its purpose is to inform the Sustainability Appraisal of the Mineral Local Plan.

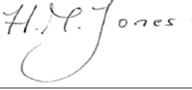
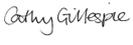
The base information on which the report has been based has been provided by others and has not been verified independently but is assumed to be correct. Furthermore, new and more detailed information, changed practices or new legislation may necessitate revised interpretation of the proposal after the date of its submission.

Via East Midlands Ltd prepared this report for the sole and exclusive use of Nottinghamshire County Council in response to the commission to undertake analysis of potential mineral sites.

Client	Minerals and Waste Team, Place Department, Nottinghamshire County Council
Job Title	Minerals Local Plan Review - Landscape character and visual impact assessment of sites
Job Number/ File Reference	HW00935
Date	June 2019

	Signed	Name	Date
Originated		A Stuart	08/06/2018
Reviewed		C. Gillespie	23/07/2018

Note: This sign off includes the appendices at the end of the report and is authorisation of the drawings in Appendix 2.

Revision 1	Signed	Name	Date
Revised		H Jones	14/06/2019
Originated		A Stuart	08/06/2018
Reviewed		C. Gillespie	14/06/2019

Note: Revision to include additional sites. This sign off includes the appendices at the end of the report and is authorisation of the drawings in Appendix 2.

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Appendices

Appendix 1: Site assessment sheets

Appendix 2: Landscape character and visual impact
assessment and site summaries

Appendix 3: Site assessment methodology

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Executive Summary

This report has been prepared by Via East Midlands in partnership with Nottinghamshire County Council. It is an assessment of mineral sites, put forward by mineral operatives, based on landscape and visual issues. Its purpose is to inform the Sustainability Appraisal prepared by the county's Minerals and Waste Team which forms part of the evidence base of the New Minerals Local Plan.

The assessment indicated that there are some sand and gravel sites that could be worked and restored without significant adverse impacts to landscape character or visual receptors, subject to appropriate mitigation. These include several smaller sites within the north of the county and a larger site to the south and east of Nottingham. There are also a cluster of sites around the north and north-western edge of Newark along the Trent Valley. Due to these being adjacent or near active sites and former mineral sites the cumulative impacts should be considered,

The most apparent change in landscape character post restoration is the loss of agricultural land to areas of open water and wetland. In many cases restoration on former worked sites has provided biodiversity opportunities enabling a contribution to Local Biodiversity Action Plan (LBAP) targets. Sites that support the actions of the relevant landscape character area Policy Zones and that offer the potential to create priority habitats, (lowland wet grassland, lowland neutral grassland reedbeds and wet woodland) have been favoured over those that remove landscape elements and that have limited habitat creation potential.

The impact of working sites close or adjacent to existing/former mineral sites may have a cumulative impact on the wider landscape. This is to be assessed following the drafting of the Sustainability Appraisal which will identify the more be allocated for future mineral provision.

1.0 Introduction

The New Minerals Local Plan sets out the overall approach to minerals extraction in Nottinghamshire over the period 2016-2036. Key issues will include estimates of how much mineral needs to be provided to meet expected demand, which sites are suitable to meet this demand and where in broad terms new or extended mineral sites should be located.

The New Minerals Local Plan will contain a range of planning policies against which minerals development will be assessed. Policies will be set out to minimise adverse environmental impacts and maximise environmental protection whilst providing guidance on information required to support Environmental Assessments and planning applications.

This report outlines the methodology and results of a preliminary landscape and visual impact appraisal of the sites put forward for consideration by the Minerals Planning authority in preparation of the New Minerals Local Plan.

2.0 Proposed Sites

There are 31 sites assessed of which 26 were sand and gravel sites, 3 sandstone, 1 gypsum and 1 clay. Of the 23 remaining sand and gravel sites, 2 are additional (28 and 29), and 3 have been subject to amendment (30,31 and 32) and so replace the original sites which have been struck out (4, 5 and 6).The location of the sites is shown on Figure 1 and are set out in Table 1 below:

Table 1: List of sites assessed

Ref:	Mineral	Mineral Operator
	Sand and gravel	
1	Bawtry Road west	Owner operator
3	Scrooby North	Rotherham Sand and Gravel
4	Scrooby Thompson Land	Rotherham Sand and Gravel
5	Barnby Moor (Hanson)	Hanson
6	Barnby Moor (Rotherham Sand and Gravel)	Hanson
7	Botany Bay	Tarmac
8	Besthorpe East	Tarmac
9	Cromwell	Cemex
9a	Carlton Meadows	Cemex
9b	Cromwell Triangle	Cemex
10	Langford Lowfields North	Tarmac
11	Langford South and West	Tarmac
12	Burrige Farm	Tarmac
13	Coddington	Hanson
14	Great North Road North	Tarmac
15	Great North Road South	Tarmac
20	Shelford	Brett Aggregates
21	Mill Hill near Barton in Fabis	London Rock
22	Barton in Fabis West	Cemex
23	Redhill	No operator
24	East Leake North	Cemex
28	Flash Farm	Mick George
29	Little Carlton	Aggregate Industries
30	Barnby Moor	Hanson
31	Torworth	Rotherham Sand and Gravel
32	Scrooby Thompson Land	Rotherham Sand and Gravel

	Sandstone	
2	Scrooby Top north	Rotherham Sand and Gravel
17	Bestwood II North	Tarmac
18	Bestwood II East	Tarmac
	Gypsum	
16	Bantycok Quarry south	British Gypsum
	Clay	
19	Woodborough Lane	lbstock

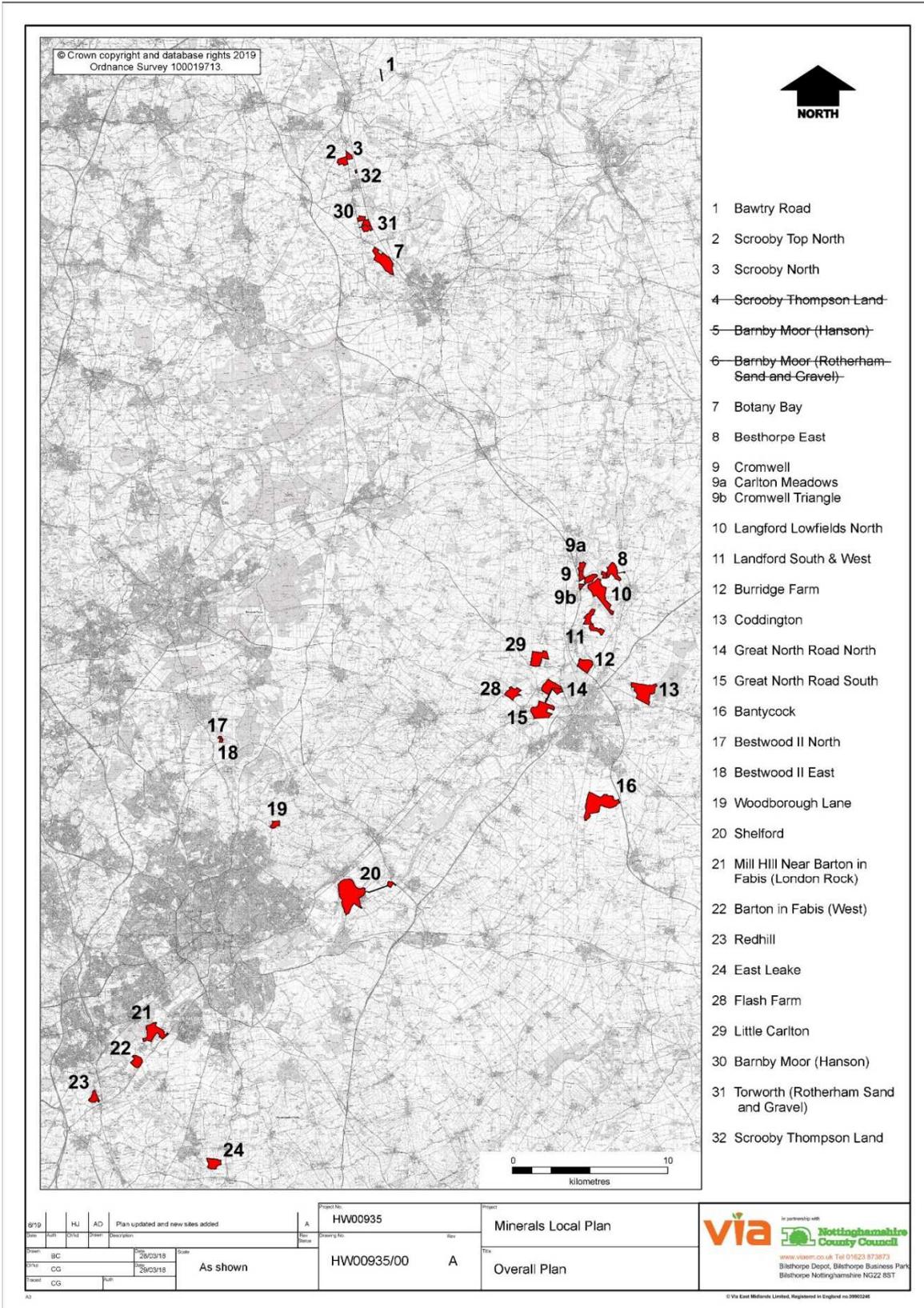


Figure 1

Please note - Sites 4, 5 and 6 are now replaced by sites 30,31 and 32

3.0 Methodology

This assessment was carried out by chartered Landscape Architects (The Landscape Institute). It is based on both a desk top study and an on-site assessment of the proposed mineral extraction area.

For each site a 2.5km buffer of the site boundary was defined around the study area and this was included in the analysis of the site where there were visibility and wider setting issues.

The National Character Area profiles (Natural England) and the local landscape character documents were used to give the baseline landscape character of the study area. As most of the sites are sand and gravel sites located in the Trent Washlands character area this character area was reviewed to ensure that the findings still reflected current land uses.

Stage 1 Site assessment - Desk study

The desk study included:

1. a review of local heritage, ecological, landscape and Public Rights of Way designations within the study area
2. the mapping of Policy Zones within the study area using Map Info Pro 2016 using the landscape character information contained within the following landscape assessment documents:
 - Bassetlaw Landscape Character Assessment 2009
 - Greater Nottingham Landscape Character Assessment 2009
 - Newark and Sherwood Landscape Character Assessment 2013
3. The mapping (Map Info Pro 2016) of a **Zone of Theoretical Visibility** (ZTV map) for both the existing site, and a proposed scenario that included 4m high mounds located on the highest point of the site. Lidar surface data was used with an assumed eye level of 1.6 metres above ground level was to show the worst-case scenario. Later field study allowed screening elements such as existing vegetation and buildings, walls and fences to be included when assessing the visual sensitivity of the site.
4. Overview of factors effecting the recognition of landscape and visual value such as any cultural or recreational associations.

Stage 2 Site assessment - Field work

Field work included:

1. A site visit to photograph and record key views of the site and to assess the existing landscape and potential change brought about by mineral extraction.

Following this the site assessment sheet was completed using a scoring system to allow comparison between sites particularly the sand and gravel sites. These are located across the county primarily focussed within the **Trent and Belvoir Vales**, National Character Area profile 48 (Natural England 2013) and the Trent Washlands character area (Bassetlaw Landscape Character

Assessment 2009, Greater Nottingham Landscape Character Assessment 2009, Newark and Sherwood Landscape Character Assessment 2013).

A scoring system was used to understand the clusters of sites around Newark, Nottingham and north of the county.

Details of the scoring methodology are set out within Appendix 3.

The site assessment sheet was completed using the methodology contained within the Guidelines for Landscape and Visual Impact Assessment 3rd Edition (Landscape Institute and Institute of Environmental Management and Assessment 2013, GLVIA3). This landscape and visual assessment is compatible with other assessments carried out for Gedling and Rushcliffe Borough councils, also to inform site allocation process. Due to the large scale of many of the sites and the different stages (operational period and post restoration) with associated lengthy timescales the impacts on the wider study area were also considered. The amount of change brought about by mineral extraction and the compatibility with the actions of various policy zones both during working phases and during the restoration phase were used as a broad guide in the assessment of the sites.

A detailed methodology is provided in Appendix 3.

Limitations

The baseline assessment was carried out in March 2018, and updated in February 2019 and reflects the on-site conditions present at that time. The assessment is a broad overview and detailed site analysis of specific development proposals would be required for a landscape and visual impact assessment. Cumulative impacts on landscape character and visual receptors has not been considered either with other developments within the area or other proposed mineral extraction sites put forward as part of this review.

4.0 Results

The sites and 2.5km wide study areas were assessed and the individual site summary sheets are contained within Appendix 1. The landscape character and visual impact summaries for each site are within Appendix 2. The scores for each site during operation and post restoration are set out in the tables below.

Table 2: Summary scores for sand and gravel sites

Ref	Site name	Extension /new	Landscape Sensitivity (Op)	Visual Sensitivity (Op)	Combined score (Op)	Landscape Sensitivity (PR)	Visual Sensitivity (PR)	Combined score (PR)
1	Bawtry Road west	Extension	28	19	47	26	16	42
3	Scrooby North	New	30	21	51	28	19	47
4	Scrooby, Thompson Land	New	28	38	66	26	22	48
5	Barnby Moor	New	30	28	58	28	22	50
6	Barnby Moor	New	30	38	68	28	22	50
7	Botany Bay	New	38	44	82	32	28	60
8	Besthorpe east	Extension	27	31	58	31	31	62
9	Cromwell	New	34	38	72	29	34	63
10	Langford Lowfields North	Extension	37	34	71	37	34	71
11	Langford south & west	Extension	37	25	62	37	25	62
12	Burridge Farm	New	31	36	67	23	25	48
13	Coddington	New	37	34	71	33	27	60
14	Great North Road north	New	34	43	77	30	34	64
15	Great North Road south	New	39	46	85	35	37	72
20	Shelford	New	43	46	89	43	46	89

21	Mill Hill near Barton in Fabis	New	46	50	96	46	50	96
22	Barton in Fabis (west)	New	31	46	77	31	30	61
23	Redhill	New	25	31	56	30	31	61
24	East Leake North	Extension	31	22	53	29	22	51

9a	Carlton Meadows	New	45	47	92	41	38	79
9b	Cromwell Triangle		27	21	48	23	21	44

28	Flash Farm	New	32	44	76	24	20	44
29	Little Carlton	New	38	46	84	34	30	64
30	Barnby Moor (Hanson)	No 5 Amended	32	28	60	28	22	50
31	Torworth (RSG)	No 6 Amended	32	28	60	28	22	50
32	Scrooby Thompson Land	No 4 Amended	28	28	56	26	16	42

Table 3: Summary scores for sandstone / clay / gypsum sites

Ref	Site name	Extension /new	Landscape Sensitivity (Op)	Visual Sensitivity (Op)	Combined score (Op)	Landscape Sensitivity (PR)	Visual Sensitivity (PR)	Combined score (PR)
Sandstone								
2	Scrooby Top North	Extension	31	31	62	29	19	48
17	Bestwood II North	Extension	44	28	72	44	28	72
18	Bestwood II East	Extension	44	34	78	44	34	78
Clay								
19	Woodborough Lane	Extension	35	34	69	29	34	63
Gypsum								
16	Bantycok Quarry south	New	37	36	73	31	25	56

5.0 Discussion

The assessment indicated that, in the medium term, there are sand and gravel sites that could be worked and restored without significant adverse impacts to landscape character or visual receptors, subject to appropriate mitigation, throughout the county. The smaller sites lie within the north of the county with larger new sites to the south and east of Nottingham. There are a cluster of sites around the north and north-western edge of Newark along the Trent Valley. Due to these being adjacent or near active sites and former mineral sites the cumulative impacts should be considered.

The most apparent change in landscape character post restoration is the loss of agricultural land to areas of open water and wetland. In many cases restoration has provided biodiversity opportunities enabling a contribution to Local Biodiversity Action Plan (LBAP) targets. Sites that support the actions of the relevant landscape character area policy zone and that offer the potential to create priority habitats, (lowland wet grassland, lowland neutral grassland reedbeds and wet woodland) should be favoured over those that remove landscape elements and that have limited restoration potential.

Constraints to development include areas of heritage statutory and non-statutory designations and their setting. This may include landscapes which contain as yet undiscovered areas of archaeological resource. As sites are worked areas of traditional alluvial flood meadow may become locally rarer and therefore their local significance may increase. These sites may support lowland wet grassland and unimproved neutral grassland both of which are already less prevalent in the county and under threat from agricultural improvements (Nottinghamshire Minerals Local Plan Background Paper Biodiversity 2016).

Over the long term continued working of sites within the Trent Valley will impact on the character of the landscape particularly the river meadowlands landscape type. A strategic approach to managing change and development within the Trent Valley should be considered to ensure a co-ordinated response to deliver environmental social and economic benefits to the wider area.

6.0 References

Bassetlaw Landscape Character Assessment 2009

Bassetlaw District Local Development Framework Core Strategy and development management policies - 2011

Greater Nottingham Landscape Character Assessment 2009

Broxtowe Borough, Gedling Borough Council, Nottingham City - Adopted Aligned Core Strategy September 2014

Newark and Sherwood Landscape Character Assessment 2013

Newark and Sherwood Local Development Framework Core Strategy Development Plan Document Newark and Sherwood District Council Adopted March 2011

Newark and Sherwood Allocations & Development Management Development Plan Document Adopted July 2013

Guidelines for Landscape and Visual Impact Assessment 2013 3rd Edition (Landscape Institute and Institute of Environmental Management and Assessment 2013, GLVIA3.)

Nottinghamshire Minerals Local Plan Background Paper Biodiversity, Nottinghamshire County Council January 2016

National Landscape Character Assessment, Natural England September 2013