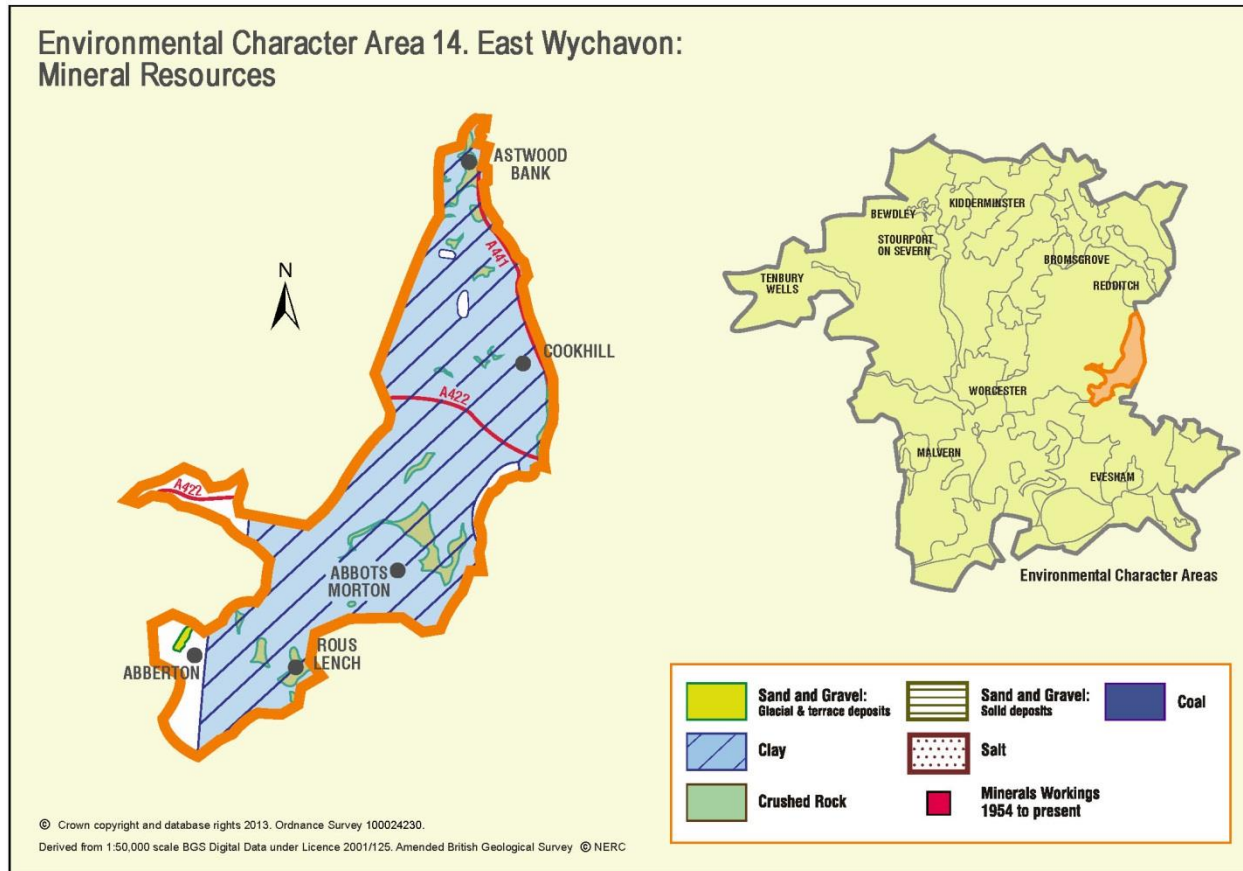


## Appendix 14: Analysis of aggregate resources in ECA 14: East Wychavon



### ECA Summary for the Third Stage consultation on MLP (Spring 2015):

#### Sand and gravel

There are 5 resource areas identified for sand and gravel in East Wychavon ECA:

- Significant: 2
- Not significant: 1
- Compromised: 2

#### Crushed rock

There are no resource areas identified in East Wychavon for crushed rock.

#### Non-aggregates

BGS data indicates that there are deposits of clay in this ECA.

## Overview of resource assessment for ECA 14

### Sand and gravel resource areas:

Resource number*	Second Stage Consultation		Third Stage Consultation	
	Original estimated resource tonnage (2 tonnes/m <sup>3</sup> )	Significance	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Significance
14/1	Depth unknown	Not significant	Depth unknown	Not significant
14/1 a	Depth unknown	Compromised	Depth unknown	Compromised
14/2	1,596,000	Significant	1,316,700	Significant
14/3	Depth unknown	Significant	Depth unknown	Significant
14/4	Depth unknown	Compromised	Depth unknown	Compromised

<b>Overview</b>		
<b>Resource number:</b>	14/1	
<b>Resource name:</b>	South of Astwood Bank	
<b>Resource area:</b>	11ha	
<b>Resource depth:</b>	Not known	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 06 SW	
<b>National grid ref:</b>	404247, 262148	
<b>Resource description:</b>		
<b>Resource description:</b>	Glaciofluvial sand and gravel. The sand and gravel is commonly interdigitated with boulder clay, restricting the value of the potential resource although there have been many small scale workings. No information on thicknesses is available in BGS memoirs.	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	The deposit extends under the village of Astwood Bank, this is assessed separately as resource area 14/1a. The 3 remaining pockets around the southern outskirts of the village are grouped into resource area 14/1 and cover 11 ha. The deposit also continues to the north of Astwood Bank village and this is also considered as a separate resource area (14/4) as it is separated by over 500m. The areas labelled as OUT are beyond of the county boundary in Warwickshire, they are therefore not considered in the resource assessment.	
<b>Crude estimate of resource:</b>	Depth not known.	
<b>Conclusion:</b>	Not significant: Small deposit with no information to estimate the resource in this area. Not for consideration in defining areas of search.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	No change to the assessment.	
<b>Conclusion:</b>	Not significant.	

<b>Overview</b>		
<b>Resource number:</b>	14/1a	
<b>Resource name:</b>	Astwood Bank	
<b>Resource area:</b>	26 ha	
<b>Resource depth:</b>	Not known	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 06 SW	
<b>National grid ref:</b>	404290, 262186	
<b>Resource description:</b>		
<b>Resource description:</b>	Glaciofluvial sand and gravel. The sand and gravel is commonly interdigitated with boulder clay, restricting the value of the potential resource although there have been many small scale workings. No information on thicknesses is available in BGS memoirs.	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	This resource area is overlain by the village of Astwood Bank. The areas outside of the village are considered as separate resource areas (14/1 and 14/4).	
<b>Crude estimate of resource:</b>	Depth not known.	
<b>Conclusion:</b>	Compromised by development.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	No change to the assessment.	
<b>Conclusion:</b>	Compromised by development.	



Overview	
Resource number:	14/2
Resource name:	South of Cookhill
Resource area:	21ha
Resource depth:	Estimated 7.6m
Location	
OS sheet reference:	SO 05 NE
National grid ref:	405600, 257745
Resource description:	
Resource description:	Glaciofluvial sand and gravel. The deposit comprises sand up to 7.6m thick with pebbly and clayey lenses and is closely associated with boulder clay which may be very sandy in part. (Estimated resource depth 7.6m)
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area intersected by a road through the centre of the area. The deposit extends outside of the County into Warwickshire (labelled OUT on the figure above).
Crude estimate of resource:	Area: 21ha x average depth: 7.6 m ÷ 2 Estimated resource volume: 798,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,596,000 tonnes</b>
Conclusion:	Significant. Consider in defining areas of search.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	Area: 21ha x average depth: 7.6 m ÷ 2 Estimated resource volume: 798,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 1,316,700 tonnes</b>
Conclusion:	Significant.

Overview	
<b>Resource number:</b>	14/3
<b>Resource name:</b>	North of Abbots Morton
<b>Resource area:</b>	71ha
<b>Resource depth:</b>	Not known
Location	
<b>OS sheet reference:</b>	SO 05 NW, SO 05 SW
<b>National grid ref:</b>	403461, 255638
Resource description:	
<b>Resource description:</b>	1 <sup>st</sup> terrace (Bretford) sand and gravel. The terrace deposits generally comprise gravel to sand grade material which may be silty and clayey in part. No information on thicknesses is available in the BGS memoirs.
Assessment of resource for the second consultation on MLP (Autumn 2013)	
<b>Commentary:</b>	A medium-sized deposit with limited built development.
<b>Crude estimate of resource:</b>	Depth not known
<b>Conclusion:</b>	Significant. Consider in defining areas of search.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
<b>Revised estimate of resource:</b>	No change to the assessment.
<b>Conclusion:</b>	Significant.



<b>Overview</b>		
<b>Resource number:</b>	14/4	
<b>Resource name:</b>	North of Astwood Bank	
<b>Resource area:</b>	8ha remaining	
<b>Resource depth:</b>	Not known	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 06 SW	
<b>National grid ref:</b>	404170, 262958	
<b>Resource description:</b>		
<b>Resource description:</b>	Glaciofluvial sand and gravel. The sand and gravel is commonly interdigitated with boulder clay, restricting the value of the potential resource although there have been many small scale workings. No information on thicknesses available.	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	A small resource area with some small scale development. The deposit extends under the village of Astwood Bank, this is considered separately as resource area 14/1a, and 8ha remain to the north of the village. The deposit also continues to the south of Astwood Bank village and this is considered as a separate resource area (14/1) as it is separated by over 500m.	
<b>Crude estimate of resource:</b>	Depth not known	
<b>Conclusion:</b>	Compromised by development with less than 10ha of the deposit remaining.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	No change to the assessment.	
<b>Conclusion:</b>	Compromised by development.	