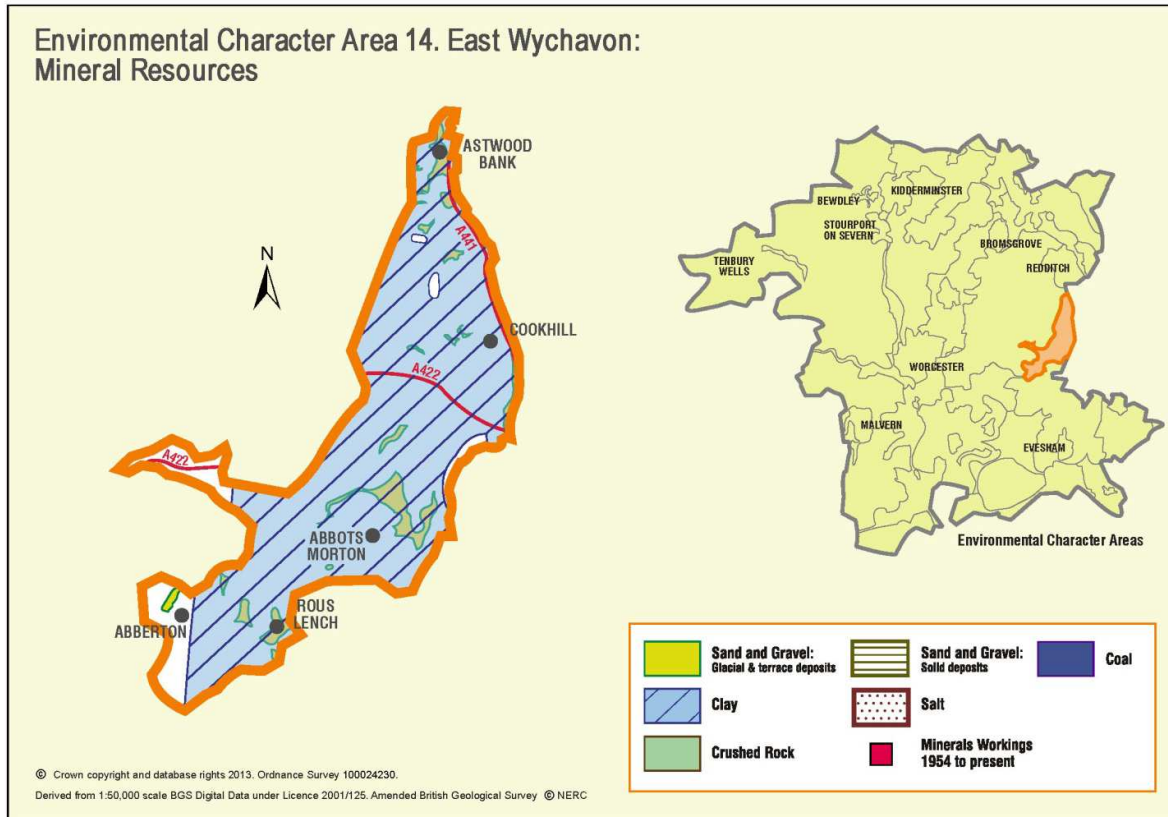


Appendix 14: Analysis of aggregate resources in ECA 14: East Wychavon



ECA Summary for the Fourth Stage consultation on MLP (Winter 2018):

Sand and gravel

There are 7 resource areas identified for sand and gravel in East Wychavon ECA:

- Significant: 2
- Not significant: 1
- Compromised: 4

Crushed rock

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

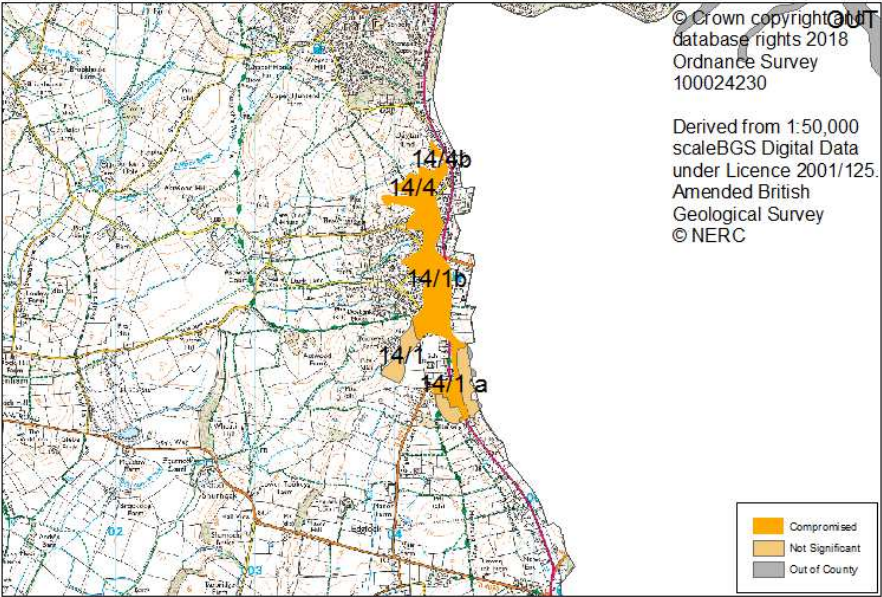
Non-aggregates

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		Fourth Stage Consultation		
	Original estimated resource tonnage (2 tonnes/m ³)	Significance	Revised estimate of resource tonnage (1.65 tonnes/m ³)	Significance	New resource number (where resource has been split)	Revised estimate of resource tonnage (1.65 tonnes/m ³)	Result
14/1	Depth unknown	Not significant	Depth unknown	Not significant	Not reassessed		
14/1 a	Depth unknown	Compromised	Depth unknown	Compromised			
14/2	1,596,000	Significant	1,316,700	Significant	14/2	1,191,300	Significant
					14/2b		Compromised
14/3	Depth unknown	Significant	Depth unknown	Significant	14/3	Depth unknown	Significant
					14/3b		Compromised
14/4	Depth unknown	Compromised	Depth unknown	Compromised	Not reassessed		

Overview	
Resource number:	14/1
Resource name:	South of Astwood Bank
Resource area:	11ha
Resource depth:	Not known
Location	
OS sheet reference:	SO 06 SW
National grid ref:	404247, 262148
	
Resource description:	
Resource description:	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.
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	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.
Crude estimate of resource:	Depth not known.
Conclusion:	Not significant: Small deposit with no information to estimate the resource in this area. Not for consideration in defining areas of search.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	No change to the assessment.
Conclusion:	Not significant.
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

Overview	
Resource number:	14/1a
Resource name:	Astwood Bank
Resource area:	26 ha
Resource depth:	Not known
Location	
OS sheet reference:	SO 06 SW
National grid ref:	404290, 262186

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100024230

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Legend:
 Compromised
 Not Significant
 Out of County

Resource description:	
Resource description:	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.
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	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).
Crude estimate of resource:	Depth not known.
Conclusion:	Compromised by development.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	No change to the assessment.
Conclusion:	Compromised by development.
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

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 ³ Estimated resource tonnage (at 2 t/m³): 1,596,000 tonnes	
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 ³ Estimated resource tonnage (at 1.65 t/m³): 1,316,700 tonnes	
Conclusion:	Significant.	
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)		
This resource area has been split into areas 14/2 and 14/2b.		
Resource area 14/2		Resource area 14/2b

Resource area:	19 ha	Commentary:	Screened out due to the following appendix A criterion: - Listed Buildings - Settlement boundary
Resource depth:	Estimated 7.6m		
Revised estimate of resource:	Area: 19 ha x average depth: 7.6m ÷ 2 Estimated resource volume: 722,000 m ³ Estimated resource tonnage (at 1.65 t/m³): 1,191,300 tonnes		
Conclusion:	Significant resource	Conclusion:	Compromised
Assessment of resource for the Fourth Stage consultation on MLP (November 2018)			
This resource area has been split into areas 14/2 and 14/2c.			
Resource area 14/2		Resource area 14/2c	
Resource area:	19 ha	Commentary:	Screened out due to the following appendix A criterion: - Scheduled Ancient Monument
Resource depth:	Estimated 7.6m		
Revised estimate of resource:	Area: 19 ha x average depth: 7.6m ÷ 2 Estimated resource volume: 646,000 m ³ Estimated resource tonnage (at 1.65 t/m³): 1,065,900 tonnes		
Conclusion:	Significant resource	Conclusion:	Compromised

Overview			
Resource number:	14/3		
Resource name:	North of Abbots Morton		
Resource area:	71ha		
Resource depth:	Not known		
Location			
OS sheet reference:	SO 05 NW, SO 05 SW		
National grid ref:	403461, 255638		
Resource description:			
Resource description:	1 st 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)			
Commentary:	A medium-sized deposit with limited built development.		
Crude estimate of resource:	Depth not known		
Conclusion:	Significant. Consider in defining areas of search.		
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)			
Revised estimate of resource:	No change to the assessment.		
Conclusion:	Significant.		
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)			
This resource area has been split into areas 14/3 and 14/3b.			
Resource area 14/3		Resource area 14/3b	
Resource area:	70 ha	Commentary:	Screened out due to the following appendix A criterion: - Ancient Semi-Natural Woodland
Resource depth:	Depth not known		
Revised estimate of resource:	Depth not known		

Conclusion:	Significant resource	Conclusion:	Compromised
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Overview		
Resource number:	14/4	
Resource name:	North of Astwood Bank	
Resource area:	8ha remaining	
Resource depth:	Not known	
Location		
OS sheet reference:	SO 06 SW	
National grid ref:	404170, 262958	
Resource description:		
Resource description:	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.	
Assessment of resource for the second consultation on MLP (Autumn 2013)		
Commentary:	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.	
Crude estimate of resource:	Depth not known	
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.	
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)		
Revised estimate of resource:	No change to the assessment.	
Conclusion:	Compromised by development.	
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)		
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation		