

Overview of resource assessment for ECA 12

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

Overview

Resource number: 12/1

Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e) average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)

Assessment of resource for the second consultation on MLP (Autumn 2013)

Commentary:

A small resource area with little built development throughout but extending under the settlement of Upper Catshill to the south. The deposit extends under the M5 motorway, this section is not included as part of the resource area.

Crude estimate of resource:

Area: 15 ha x average depth: 5.2 m ÷ 2
Estimated resource volume: 390,000 m³

Overview	
Resource number:	12/3
Resource name:	Halesowen Road
Resource area:	10ha
Resource depth:	Estimated 5.2m
Location	
OS sheet reference:	SO 97 SE
National grid ref:	396933, 274591

Resource description:

Resource description: Resource area 12/3 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource areas 3/7 and 3/10).

This is a complex area of geology but with some limited information available:

- To the north of Junction 4 of the M5 motorway, between Chadwich Grange Farm and Manor Farm, 3 boreholes have recorded:
 - 3.6m of sand and gravel on sandstone overlain by 0.7m of sandy clay;
 - 1.4m of clayey, silty sand on 7.6m of sandstone and
 - 1.3m of clayey, pebbly sand on 5.7m of sandstone.
- 2 boreholes at Lydiate Ash recorded 2.1m and 1.8m of sand and gravel on sandstone.
- An exposure at the southern end of the Chadwich Farm Pit shows 1.9m of sand and gravel on sandstone.
- A borehole adjacent to the M5 south east of the Chadwich Lane / Money Lane junction proves 8.2m of sand and gravel on sandstone overlain by 1.4m of boulder clay.
- An exposure at Tramontana's Pit (in the Chadwich Lane, Money Lane, Sandy Lane area) on the south side of the County Council tip showed a 15m base of well bedded sand and gravel. The pit now infilled by Austin / BL formerly exposed 7.6m of gravel on 4m of coarse sand and fine gravel with the base not seen (total 11.6m).

Estimated resource depth based on mean average of: a) boreholes to the north of Junction 4: (average of 3.6m, 1.4m and 1.3m = 2.1m), b) boreholes at Lydiate Ash: (average of 1.8m to 2.1m = 1.95m, c) exposure at

Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e)
average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)

Assessment of resource for the second consultation on MLP (Autumn 2013)

Commentary:

	Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e) average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area that is largely overlain by the settlement of Upper Catshill.
Crude estimate of resource:	Area: 17 ha x average depth: 5.2 m ÷ 2 Estimated resource volume: 442,000 m ³ Estimated resource tonnage (at 2 t/m³): 884,000 tonnes
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:	Area: 17 ha x average depth: 5.2 m ÷ 2 Estimated resource volume: 442,000 m ³

Overview**Resource number:** 12/5**Resource name:** Staple Hill**Resource area:** 7ha remaining

Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation

Overview

Resource number:	12/5a
Resource name:	Staple Hill a)
Resource area:	14ha
Resource depth:	

Overview

Resource number:	12/6
Resource name:	Lickey End to Gorse Hill
Resource area:	73ha
Resource depth:	Estimated 1.8m

Assessment of resource for the Fourth Stage consultation on MLP (August 2018)			
This resource area has been split into areas 12/6 and 12/6b.			
Resource area 12/6		Resource area 12/6b	
Resource area:	70 ha	Commentary:	Screened out due to the following appendix A criterion: - Settlement boundary
Resource depth:	Estimated 1.8m		
Revised estimate of resource:	Area: 70 ha x average depth: 1.8m ÷ 2 Estimated resource volume: 630,000 m ³ Estimated resource tonnage (at 1.65 t/m³): 1,039,500 tonnes		
Conclusion:	Significant resource	Conclusion:	Compromised

Overview	
Resource number:	12/6a
Resource name:	Lickey End a)
Resource area:	14ha
Resource depth:	Estimated 1.8m
Location	
OS sheet reference:	SO 97 SE
National grid ref:	397987, 273223
Resource description:	

Resource description: Resource area 12/6a is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource area 3/10). A borehole north of Shepley Quarry 336(y)2.26831()1.470(h)2.9650126831()1.470(2re f C

Crude estimate of resource:	Area: 14 ha x average depth: 1.8 m ÷ 2 Estimated resource volume: 126,000 m ³ Estimated resource tonnage (at 2 t/m³): 252,000 tonnes
Conclusion:	Compromised by development.

Overview	
Resource number:	12/7
Resource name:	East of Bordesley Park Farm
Resource area:	26ha
Resource depth:	Not known
Location	

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Commentary:	A large resource area with some built development.
Crude estimate of resource:	Area: 282 ha x average depth: 154.5 m ÷ 2 Estimated resource volume: 217,845,000 m ³ Estimated resource tonnage (at 2 t/m³): 435,690,000
Conclusion:	Significant – key resource. Use to define areas of search.