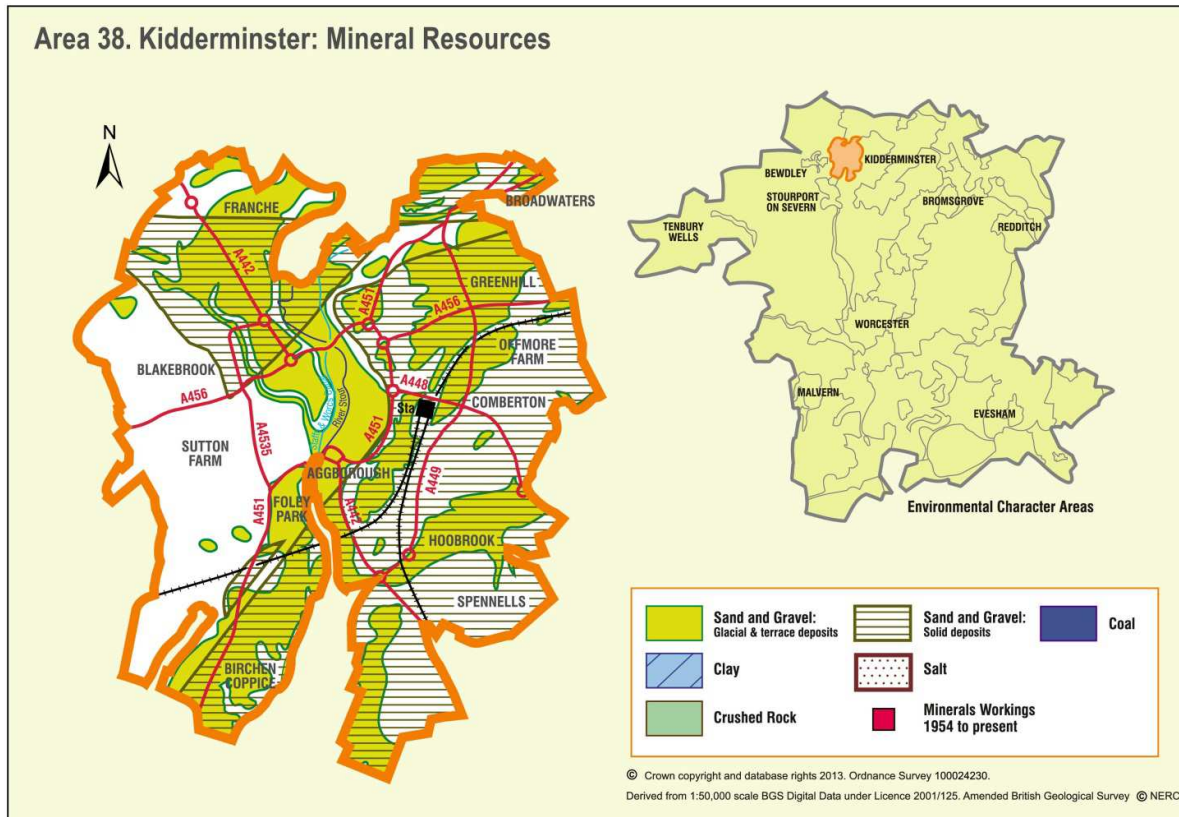


## Appendix 38: Analysis of aggregate resources in Area 38: Kidderminster



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

#### Sand and gravel

There are 5 resource areas identified for sand and gravel in Kidderminster Area:

- Not significant: 1
- Compromised: 4

There are also solid sand deposits in this area. These are assessed in Appendix 2 (Severn Valley North) as resource areas 2/21 and 2/25.

#### Crushed rock

There are no resource areas identified in Kidderminster area for crushed rock.

#### Non-aggregates

BGS data indicates that there are no non-aggregate mineral deposits in this Area.

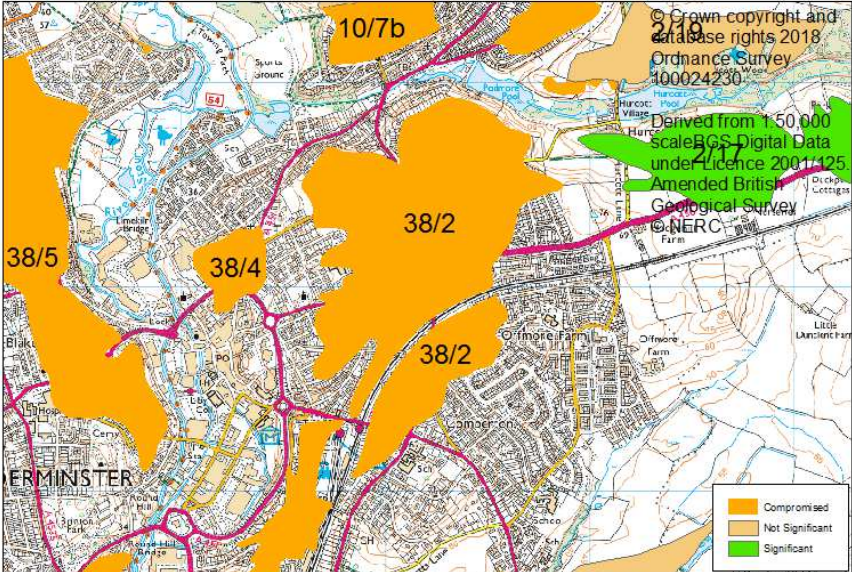
## Overview of resource assessment for ECA 38

### Sand and gravel resource areas:

Resource number*	Second Stage Consultation		Third Stage Consultation		Fourth 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	New resource number (where resource has been split)	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Result
38/1	320,000	Not significant	264,000	Not significant	Not reassessed		
38/2	5,166,000	Compromised	4,261,950	Compromised			
38/3	966,000	Compromised	796,950	Compromised			
38/4	610,000	Compromised	503,250	Compromised			
38/5	5,795,000	Compromised	4,780,875	Compromised			

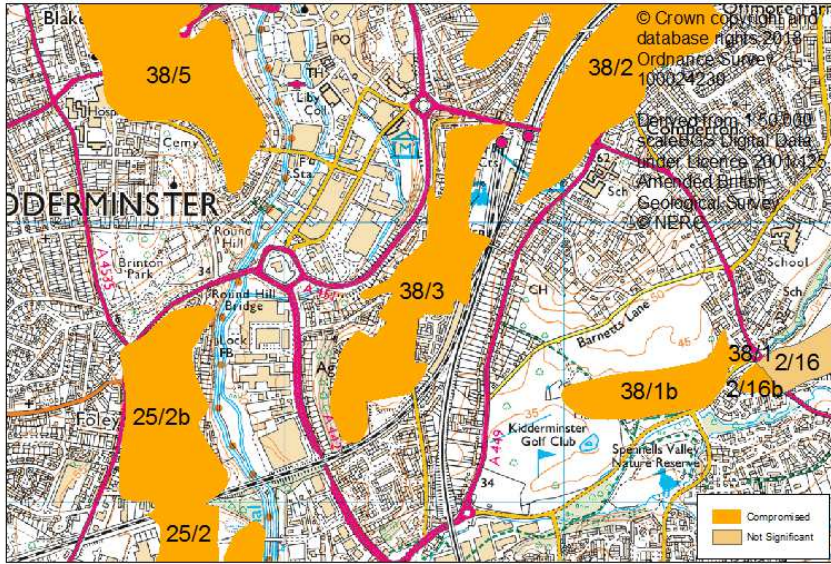
Overview	
Resource number:	38/1
Resource name:	Spennells Valley Road
Resource area:	10ha
Resource depth:	Estimated 3.2m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	384324, 275409
Resource description:	
Resource description:	<p>Resource area 38/1 is 1<sup>st</sup> terrace (Powerhouse) sand and gravel. The BGS memoirs state that the 1<sup>st</sup> terrace varies in depth between 6' (1.8m) and 14'8" (4.5m) in the Stourport/Kidderminster area.</p> <p>Estimated resource depth based on mid-point in BGS estimate 1.8m to 4.5m: 3.2m.</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/21 and 2/25).</p>
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area with some built development in the east.
Crude estimate of resource:	<p>Area: 10 ha x average depth: 3.2 m ÷ 2</p> <p>Estimated resource volume: 160,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 320,000 tonnes</b></p>
Conclusion:	<p>Not significant: Small deposit with less than 300,000m<sup>3</sup>.</p> <p>Not for consideration in defining areas of search.</p>
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	<p>Area: 10 ha x average depth: 3.2 m ÷ 2</p> <p>Estimated resource volume: 160,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 264,000 tonnes</b></p>
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

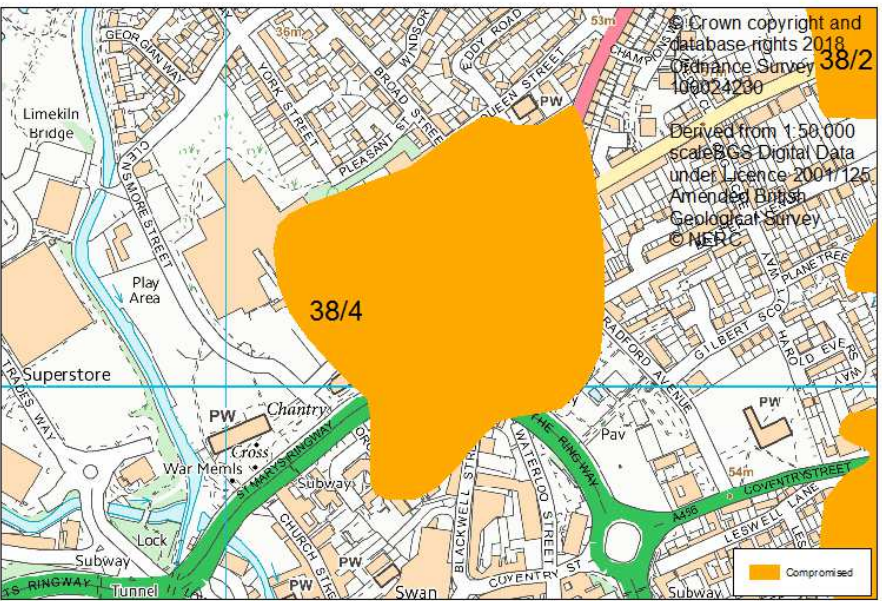
<b>Overview</b>	
<b>Resource number:</b>	38/2
<b>Resource name:</b>	Greenhill
<b>Resource area:</b>	123ha
<b>Resource depth:</b>	Estimated 4.2m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 87 NW
<b>National grid ref:</b>	384160, 277146
	
<b>Resource description:</b>	
<b>Resource description:</b>	<p>Resource area 38/2 is 4<sup>th</sup> terrace (Kidderminster Station) sand and gravel. Pits have been worked in the southern end of this terrace in the past. In Lea and Mole's Pits (formerly Yates) adjoining the station there is a distinct bi-partition of the pits into fine sandy red or brown loam with a basal layer of pebbles up to 5' thick overlying 10' of coarse gravel and sand (total 15' or 4.6m). The gravels are contorted and contain local pockets of sand and sandy clay. Further in the south were sections showing up to 12' (3.7m) of sand and coarse gravel.</p> <p>Estimated resource depth based on mean average of: a) Lea and Mole's Pit 4.6m and b) sections in the south 3.7m = 4.2m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/25).</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A medium-sized resource area overlain by the settlement of Kidderminster.
<b>Crude estimate of resource:</b>	<p>Area: 123 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 2,583,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 5,166,000 tonnes</b></p>
<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>	<p>Area: 123 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 2,583,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 4,261,950 tonnes</b></p>
<b>Conclusion:</b>	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

<b>Overview</b>	
<b>Resource number:</b>	38/3
<b>Resource name:</b>	Aggborough
<b>Resource area:</b>	23ha
<b>Resource depth:</b>	Estimated 4.2m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 87 NW
<b>National grid ref:</b>	383469, 275754
	
<b>Resource description:</b>	
<b>Resource description:</b>	<p>Resource area 38/3 is 4<sup>th</sup> terrace (Kidderminster Station) sand and gravel. Pits have been worked in the southern end of this terrace in the past. In Lea and Mole's Pits (formerly Yates) adjoining the station there is a distinct bi-partition of the pits into fine sandy red or brown loam with a basal layer of pebbles up to 5' thick overlying 10' of coarse gravel and sand (total 15' or 4.6m). The gravels are contorted and contain local pockets of sand and sandy clay. Further in the south were sections showing up to 12' (3.7m) of sand and coarse gravel.</p> <p>Estimated resource depth based on mean average of: a) Lea and Mole's Pit 4.6m and b) sections in the south 3.7m = 4.2m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/25).</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area overlain by the settlement of Kidderminster. This deposit has partially been worked, this is not included as part of the resource area.
<b>Crude estimate of resource:</b>	<p>Area: 23 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 483,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 966,000 tonnes</b></p>
<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>	Area: 23 ha x average depth: 4.2 m ÷ 2 Estimated resource volume: 483,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 796,950 tonnes</b>
<b>Conclusion:</b>	Compromised by development.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

<b>Overview</b>	
<b>Resource number:</b>	38/4
<b>Resource name:</b>	Churchfields
<b>Resource area:</b>	10ha
<b>Resource depth:</b>	Estimated 6.1m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 87 NW
<b>National grid ref:</b>	383251, 277105
	 <p>The map shows a residential area with a central orange-shaded region labeled '38/4'. Surrounding streets include York Street, Broad Street, Church Street, and Church Lane. Landmarks such as Limekiln Bridge, Play Area, and Superstore are visible. A legend in the bottom right corner identifies orange areas as 'Compromised'. Text on the map includes 'Crown copyright and database rights 2018', 'Ordnance Survey 100024230', and 'Derived from 1:50,000 scale BGS Digital Data under Licence 2004/125 Amended British Geological Survey © NERC'.</p>
<b>Resource description:</b>	
<b>Resource description:</b>	Resource area 38/4 is 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel. The BGS estimates that the 3 <sup>rd</sup> terrace varies between 15' (4.5m) and 25' (7.6m) in the Stourport/Kidderminster area.  Estimated resource depth based on mid-point of BGS estimates (4.5m to 7.6m): 6.1m.  This resource area is underlain by solid sand deposits (assessed as resource area 2/25).
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area overlain by the settlement of Kidderminster.
<b>Crude estimate of resource:</b>	Area: 10 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 305,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 610,000 tonnes</b>

<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>	Area: 10 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 305,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 503,250 tonnes</b>
<b>Conclusion:</b>	Compromised by development.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

<b>Overview</b>	
<b>Resource number:</b>	38/5
<b>Resource name:</b>	Blakebrook and Franche
<b>Resource area:</b>	95ha
<b>Resource depth:</b>	Estimated 6.1m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 87 NW
<b>National grid ref:</b>	382266, 277250
<b>Resource description:</b>	
<b>Resource description:</b>	<p>3<sup>rd</sup> terrace (Holt Heath) sand and gravel. The 3<sup>rd</sup> terrace varies between 15' (4.5m) and 25' (7.6m) in the Stourport/Kidderminster area.</p> <p>Estimated resource depth based on mid-point of BGS estimated (4.5m to 7.6m): 6.1m.</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/25).</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	This resource area is overlain by the settlement of Kidderminster. The northern end of the deposit has previously been worked, this is not included as part of the resource area.
<b>Crude estimate of resource:</b>	<p>Area: 95 ha x average depth: 6.1 m ÷ 2</p> <p>Estimated resource volume: 2,897,500 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 5,795,000 tonnes</b></p>
<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>	<p>Area: 95 ha x average depth: 6.1 m ÷ 2</p> <p>Estimated resource volume: 2,897,500 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 4,780,875 tonnes</b></p>
<b>Conclusion:</b>	Compromised by development.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	

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