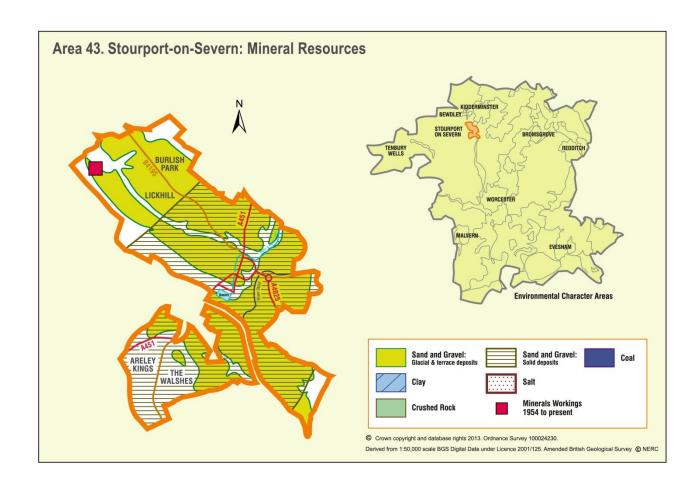
### Appendix 43: Analysis of aggregate resources in Area 43: Stourport-on-Severn



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

#### Sand and gravel

There are 4 resource areas identified for sand and gravel in Stourport Area:

- Significant: 1
- Compromised: 3

There are also solid sand deposits in this area, these are assessed as resource areas 1/32, 2/22 and 2/23.

#### Crushed rock

There are no resource areas identified in Stourport 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 43**

## Sand and gravel resource areas:

Resource	Second Stage Consultation		Third Stage Consultation	
number*	Original estimated resource	Significance	Revised estimate of resource	Significance
	tonnage (2 tonnes/m³)		tonnage (1.65 tonnes/m³)	
43/1	854,000	Compromised	704,550	Compromised
43/2	1,000,000	Significant	825,000	Significant
43/2a	5,600,000	Compromised	4,620,000	Compromised
43/3	448,000	Compromised	369,600	Compromised

Overview
Resource number: 43/1

**Resource name:** Areley Kings

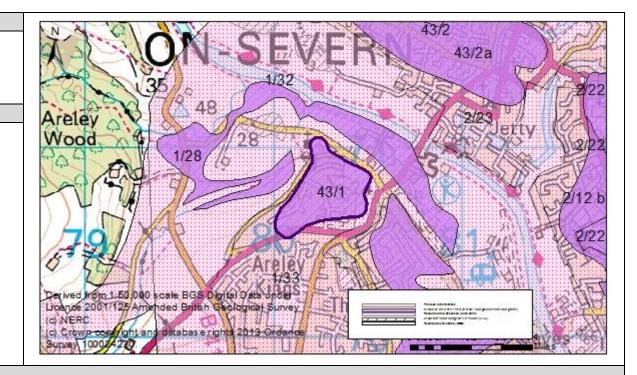
Resource area: 14ha

**Resource depth:** Estimated 6.1m

Location

OS sheet reference: SO 87 SW

**National grid ref:** 380268, 270763



**Resource description:** 

Resource description: Resource area 43/1 is 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 area.

Estimated resource depth based on mid-point of 3<sup>rd</sup> terrace depths (4.5m to 7.6m): 6.1m

This resource area is underlain by solid sand deposits (assessed as resource area 1/33).

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

**Commentary:** A small resource area overlain by the settlement of Areley Kings.

**Crude estimate of resource:**Area: 14 ha x average depth: 6.1 m ÷ 2
Estimated resource volume: 427,000 m<sup>3</sup>

Estimated resource tonnage (at 2 t/m³): 854,000 tonnes

**Conclusion:** Compromised by development.

Assessment of resource for the Third Stage consultation on MLP (Spring 2015)

**Revised estimate of** Area: 14 ha x average depth: 6.1 m ÷ 2 **resource:** Estimated resource volume: 427,000 m<sup>3</sup>

Estimated resource tonnage (at 1.65 t/m³): 704,550 tonnes

**Conclusion:** Compromised by development.

Overview

Resource number: 43/2

Resource name: Stourport South

Resource area: 10ha

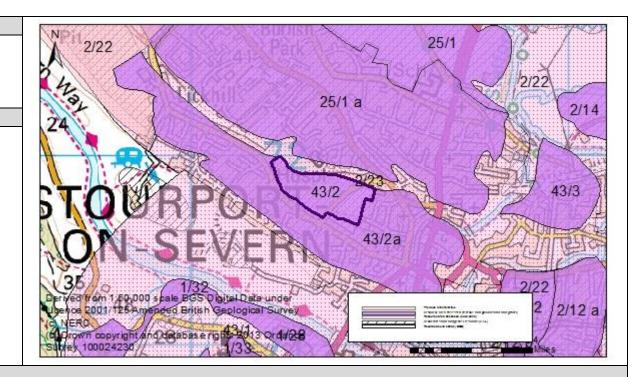
**Resource depth:** Estimated 10m

Location

OS sheet reference: SO 77 SE, SO 87

SW

**National grid ref:** 380705, 271806



**Resource description:** 

**Resource description:** Resource area 43/2 is 2<sup>nd</sup> terrace (Worcester) sand and gravel. The deposit was worked at Lickhill Quarry (to

the north west of this resource area), the application stated a maximum depth of 10m of sand and gravel.

Estimated resource depth based on information provided with Lickhill Quarry application: 10m

This resource area is underlain by solid sand deposits (assessed as resource area 2/23)

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

**Commentary:** A small resource area in the centre of Stourport. The deposit continues under the urban area of Stourport

(assessed as resource area 43/2a) and continues to the west where it has been worked extensively at Lickhill

Quarry.

**Crude estimate of** Area: 10 ha x average depth: 10 m ÷ 2

resource: Estimated resource volume: 500,000 m<sup>3</sup>

Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,000,000 tonnes

**Conclusion:** Significant.

Consider in defining areas of search.

Assessment of resource for the Third Stage consultation on MLP (Spring 2015)

**Revised estimate of** Area: 10 ha x average depth: 10 m ÷ 2

**resource:** Estimated resource volume: 500,000 m<sup>3</sup>

Estimated resource tonnage (at 1.65 t/m³): 825,000 tonnes

**Conclusion:** Significant.

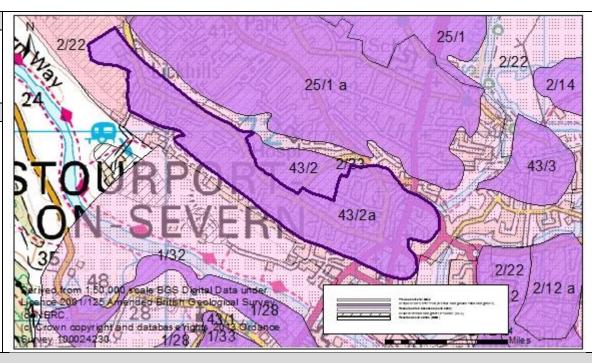
Overview

Resource number: 43/2 a)
Resource name: Stourport South a)
Resource area: 56ha
Resource depth: Estimated 10m

Location

OS sheet reference: SO 77 SE, SO 87 SW
National grid ref: 380705, 271806

**Resource description:** 



recoduled accomplism.	
Resource description:	Resource area 43/2a is 2 <sup>nd</sup> terrace (Worcester) sand and gravel. The deposit was worked at Lickhill Quarry (to the west of this resource area), the application stated a maximum depth of 10m of sand and gravel.
	Estimated resource depth based on information provided with Lickhill Quarry application: 10m
	This resource area is underlain by solid sand deposits (assessed as resource area 2/23)
Assessment of resourc	e for the second consultation on MLP (Autumn 2013)
Commentary:	A medium-sized resource area overlain by the settlement of Stourport. The deposit continues to the north
	(assessed as resource area 43/2) and continues to the west where it has been worked extensively at Lickhill
	Quarry.
Crude estimate of	Area: 56 ha x average depth: 10 m ÷ 2
resource:	Estimated resource volume: 2,800,000 m <sup>3</sup>
	Estimated resource tonnage (at 2 t/m³): 5,600,000 tonnes
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.
Assessment of resourc	e for the Third Stage consultation on MLP (Spring 2015)
Revised estimate of	Area: 56 ha x average depth: 10 m ÷ 2
resource:	Estimated resource volume: 2,800,000 m <sup>3</sup>
	Estimated resource tonnage (at 1.65 t/m³): 4,620,000 tonnes
Conclusion:	Compromised by development.

Overview
Resource number: 43/3

**Resource name:** Upper Mitton Bridge

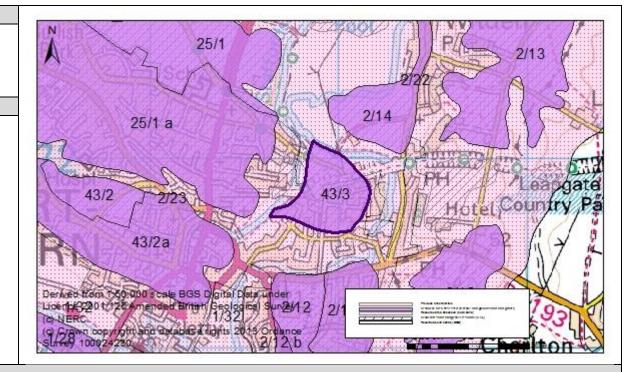
Resource area: 14ha

**Resource depth:** Estimated 3.2m

Location

OS sheet reference: SO 87 SW

**National grid ref:** 381948, 271814



**Resource description:** 

**Resource description:** Resource area 43/3 is 1<sup>st</sup> terrace (Powerhouse) sand and gravel. The BGS memoirs record that 1<sup>st</sup> terrace

varies in depth between 6' (1.8m), 14'8" (4.5m) in the Stourport area.

Estimated resource depth based on mid-point of 1st terrace depth (1.8m to 4.5m): 3.2m

This resource area is underlain by solid sand deposits (assessed as resource area 2/22 and 2/23)

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

**Commentary:** A small resource area which is largely overlain by the settlement of Stourport on Severn.

**Crude estimate of resource:**Area: 14 ha x average depth: 3.2 m ÷ 2
Estimated resource volume: 224,000 m<sup>3</sup>

Estimated resource tonnage (at 2 t/m<sup>3</sup>): 448,000 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: 14 ha x average depth: 3.2 m ÷ 2
Estimated resource volume: 224,000 m<sup>3</sup>

Estimated resource tonnage (at 1.65 t/m³): 369,600 tonnes

**Conclusion:** Compromised by development.