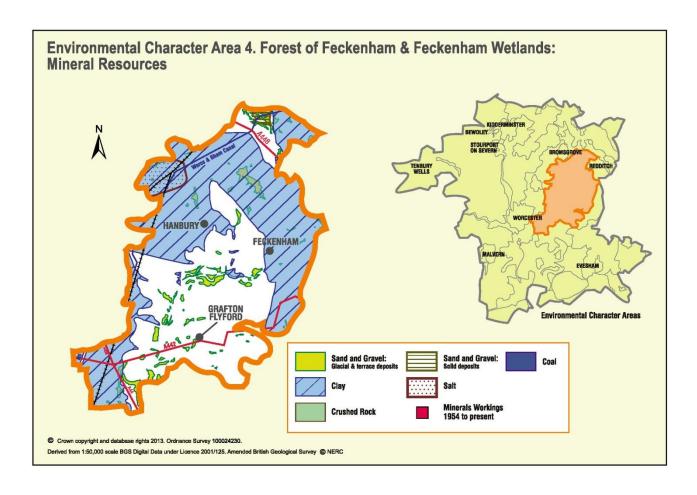
Appendix 4: Analysis of aggregate resources in ECA 4: Forest of Feckenham & Feckenham Wetlands



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

Sand and gravel

There are 24 resource areas identified for sand and gravel in Forest of Feckenham and Feckenham Wetlands ECA:

• Key: 2

Significant: 2

• Not significant: 19

• Compromised: 1

Crushed rock

There are no resource areas identified in Forest of Feckenham and Feckenham Wetlands ECA for crushed rock.

Non-aggregates

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

Overview of resource assessment for ECA 1

Sand and gravel resource areas:

Resource	Second Stage Consultation		Third Stage Consultation	
number*	Original estimated resource tonnage (2 tonnes/m³)	Significance	Revised estimate of resource tonnage (1.65 tonnes/m³)	Significance
4/1	5,217,000	Key	4,304,025	Key
4/2	360,000	Not significant	297,000	Not significant
4/3	300,000	Not significant	247,500	Not significant
4/4	621,000	Compromised	512,325	Compromised
4/5	11,400,000	Key	9,405,000	Key
4/6	700,000	Significant	577,500	→ Not significant
4/7	1,050,000	Significant	866,250	Significant
4/8	400,000	Not significant	330,000	Not significant
4/9	440,000	Not significant	363,000	Not significant
4/10	280,000	Not significant	231,000	Not significant
4/11	220,000	Not significant	181,500	Not significant
4/12	280,000	Not significant	231,000	Not significant
4/13	1,080,000	Significant	891,000	Significant
4/14	300,000	Not significant	247,500	Not significant
4/15	300,000	Not significant	247,500	Not significant
4/16	340,000	Not significant	280,500	Not significant
4/17	640,000	Significant	528,000	→ Not significant
4/18	220,000	Not significant	181,500	Not significant
4/19	260,000	Not significant	214,500	Not significant
4/20	260,000	Not significant	214,500	Not significant
4/21	520,000	Not significant	429,000	Not significant
4/22	400,000	Not significant	330,000	Not significant
4/23	520,000	Not significant	429,000	Not significant
4/24	300,000	Not significant	247,500	Not significant

Resource name: Brockhill to Blackwell

Resource area: 141ha

Resource depth: Estimated 3.7m

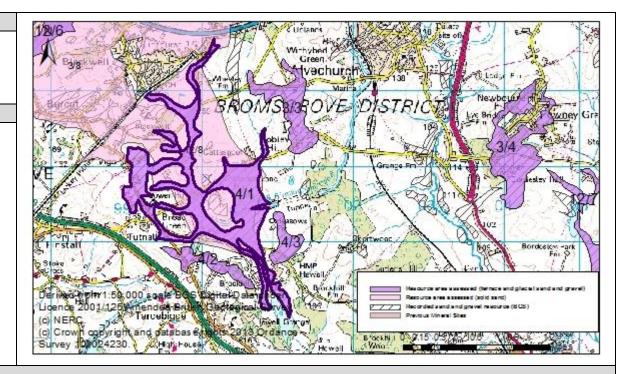
Location

OS sheet reference: SO 07 SW, SO 06

NW, SO 97 SE, SO

97 SW

National grid ref: 40038, 270692



Resource description:

Resource description: Resource area 4.1 is alluvial fan sand and gravel. This is underlain by solid sand deposits which are assessed

as resource area 12/8. The BGS memoir states that a deposit has been worked in a small pit east of Cattespool, now flooded, where 4.6m of coarse gravel with seams of sand were recorded. A borehole at the waterworks recorded 4m of sand and gravel and a well 100m east of this recorded 2.4m of sand and gravel on

Wildmoor sandstone.

The area of deposit near HM Prison Hewell (near Brockhill, at the south of the resource area) is described as

limited in extent and generally thin.

(Estimated resource depth based on mean average of: a) pit east of Cattespool: 4.6m, b) Borehole at waterworks: 4m and c) well east of borehole: 2.4m = 3.7m)

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

Commentary: A large resource area intersected by roads and built development.

Crude estimate of

resource:

Area: 141 ha x average depth: 3.7 m ÷ 2 Estimated resource volume: 2,608,500 m³

Estimated resource tonnage (at 2 t/m³): 5,217,000 tonnes

Conclusion: Significant – key resource.

Use to define areas of search.

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

Revised estimate of resource:

Area: 141 ha x average depth: 3.7 m ÷ 2 Estimated resource volume: 2,608,500 m³

Estimated resource tonnage (at 1.65 t/m³): 4,304,025 tonnes	
Conclusion:	Significant – key resource.

Resource name: South of Brockhill

Lane

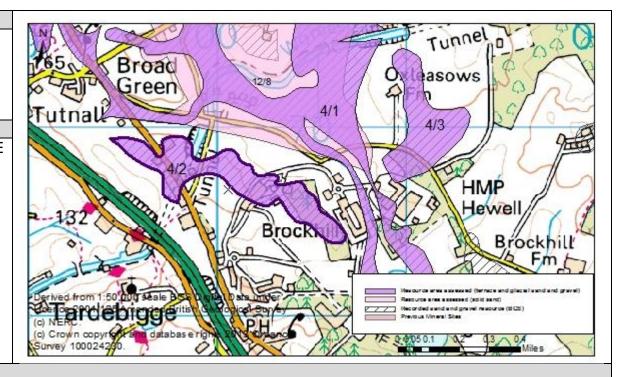
Resource area: 18ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 06 NW, SO 06 NE

National grid ref: 400073, 269713



Resource description:

Resource description: Glaciofluvial sand and gravel. The BGS memoir states that, in this geological district, this type of deposit is

likely to be between 1m and 3m.

(Estimated resource depth based on average of depths in memoirs of 2m).

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

Commentary: A small resource area intersected by roads and dispersed development

Crude estimate of Area: 18 ha x average depth: $2 \text{ m} \div 2$ resource: Estimated resource volume: $180,000 \text{ m}^3$

Estimated resource tonnage (at 2 t/m³): 360,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 18 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 180,000 m³

Estimated resource tonnage (at 1.65 t/m³): 297,000 tonnes

Resource name: North of HM Prison

Hewell

Resource area: 15ha

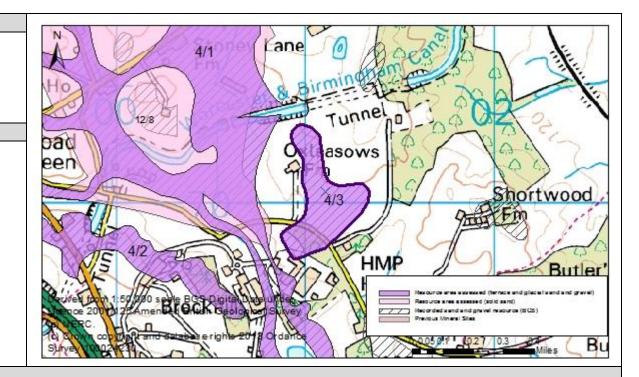
Resource depth: Estimated 2m

Location

OS sheet reference: SO 06 NW, SO 07

SW

National grid ref: 401081, 270012



Resource description:

resource:

Resource description: Alluvial fan sand and gravel. The area of deposit near HM Prison Hewell is described as limited in extent and

generally thin, generally between 1m and 3m in this geological district.

(Estimated resource depth based on average of depths in memoirs of 2m).

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

Commentary: A small resource area with little built development.

Crude estimate of Area: 15 ha x average depth: 2 m ÷ 2

Estimated resource volume: 150,000 m³

Estimated resource tonnage (at 2 t/m³): 300,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 15 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 150,000 m³

Estimated resource tonnage (at 1.65 t/m³): 247,500 tonnes

Resource number: 4/4

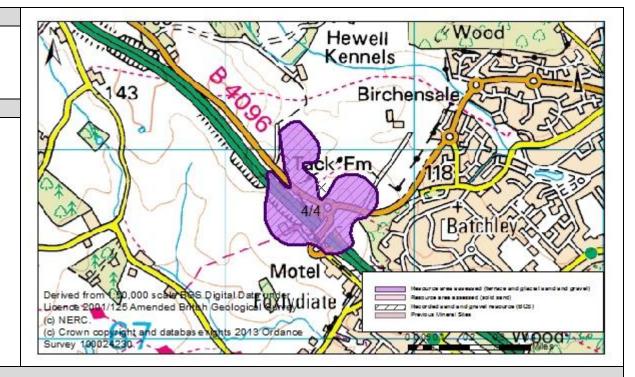
Resource name: Foxlydiate Resource area: 23ha

Resource depth: Estimated 2.7m

Location

OS sheet reference: SO 06 NW

National grid ref: 401467, 267740



Resource description:

Resource description:

Glaciofluvial sand and gravel. The deposit has been worked in a former gravel pit, now built over by the dual carriageway, to a depth of 7.6m where clean sand with gravel and beds of silt and stoney clay were exposed. A disused sandpit north east of Tack Farm exposes 1m of sand. A borehole in the centre of the dual carriageway on the edge of the exposed deposit recorded 3.2m of clayey sand overlain by boulder clay, a further borehole recorded 2.14m of sand and gravel on boulder clay overlain by 0.76m of boulder clay.

Investigations by DK Sykes Assoc supplied to the County Council in December 2011 showed that the majority of the superficial deposit in the north west of the site comprised boulder clay with occasional pockets of sand, which was fine in grain size and silty. The sand was thin (around 1.3-1.4m) and was proven to be underlain by Bromsgrove Sandstone. The fine nature and amount of silt was interpreted to make this 'sand' unusable other than for bulk fill / low quality purposes and then it is likely to be too variable. The shallow thickness, limited extent and the presence of overburden led to the report ruling out this part of the deposit from being viable. To the south east of a pipeline the material was interpreted to be of poor quality due to low percentages of gravel, and the amount of silt and clay present. The thickness of the deposit in this area averaged around 1m. The Council considered the resource to be uneconomic to justify objecting to a proposed housing land allocation.

(Average depth calculated as average of: a) former gravel pit 7.6m b) sandpit north East of Tack Farm: 1m c) Borehole in centre of dual carriageway: 3.2m d) further borehole: 2.14m e) DK Sykes Assoc investigations: 1.35m f) results south east of pipeline: 1m = 2.7m)

Assessment of resource for the second consultation on MLP (Autumn 2013)		
Commentary:	A small resource area compromised by highway development.	
Crude estimate of	Area: 23 ha x average depth: 2.7 m ÷ 2	
resource:	Estimated resource volume: 310,500 m ³	
	Estimated resource tonnage (at 2 t/m³): 621,000 tonnes	
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.	
Assessment of resource	ce for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of	Area: 23 ha x average depth: 2.7 m ÷ 2	
resource:	Estimated resource volume: 310,500 m ³	
	Estimated resource tonnage (at 1.65 t/m³): 512,325 tonnes	
Conclusion:	Compromised by development.	

Overview 4/5

Resource name: The Bentleys

Resource area: 114ha

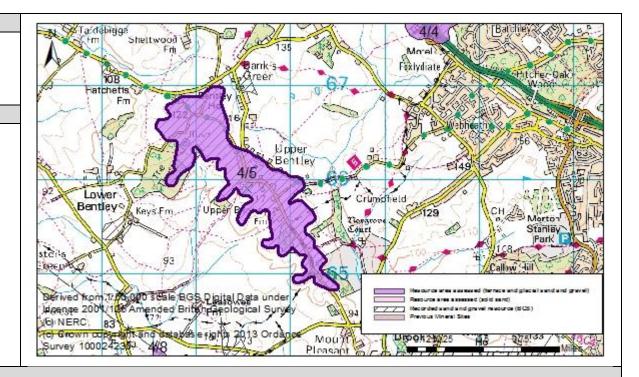
Resource depth: Estimated 10m

Location

OS sheet reference: SO 96 NE, SO 96

NW, SO 06 SW

National grid ref: 399492, 266032



Resource description:

Resource description: Glaciofluvial sand and gravel. The deposit varies from brown to red sand and is very pebbly in places. The

BGS memoirs show that the deposit is thought to be up to 10m thick, although no details of boreholes or

exposures are given.

(Average depth based on BGS memoirs: 10m)

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

Commentary: A medium-sized resource area intersected by roads with some ribbon development.

Crude estimate of Area: 114 ha x average depth: 10 m ÷ 2 **resource:** Estimated resource volume: 5,700,000 m³

Estimated resource tonnage (at 2 t/m³): 11,400,000 tonnes

Conclusion: Significant – key resource.

Use to define areas of search.

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

Revised estimate of resource:Area: 114 ha x average depth: 10 m ÷ 2
Estimated resource volume: 5,700,000 m³

Estimated resource tonnage (at 1.65 t/m³): 9,405,000 tonnes

Conclusion: Significant – key resource.

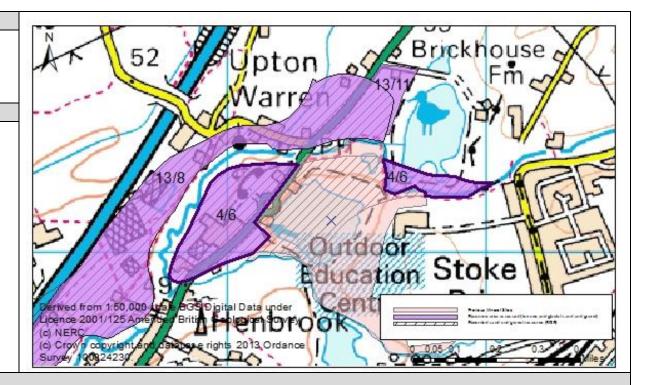
Resource number: 4/6

Resource name: West of Stoke Prior 14ha remaining Resource depth: Estimated 5m

Location

OS sheet reference: SO 96 NW

National grid ref: 393164, 267155



Resource description:

Resource 3rd terrace (Holt Heath) sand and gravel. A former pit at Upton Warren was worked to a depth of approximately

description: 5m.

(Average depth based on depths at Upton Warren: 5m)

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

Commentary: A small resource area, split into two parts. The deposit has been extensively worked, this is not included as

part of the resource area and 14ha remain.

Crude estimate of

resource:

Area: 14 ha x average depth: 5 m ÷ 2 Estimated resource volume: 350,000 m³

Estimated resource tonnage (at 2 t/m³): 700,000 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: 14 ha x average depth: 5 m ÷ 2 Estimated resource volume: 350,000 m³

Estimated resource tonnage (at 1.65 t/m³): 577,500 tonnes

Conclusion: Change to conclusion: Not significant.

Resource number: 4/7

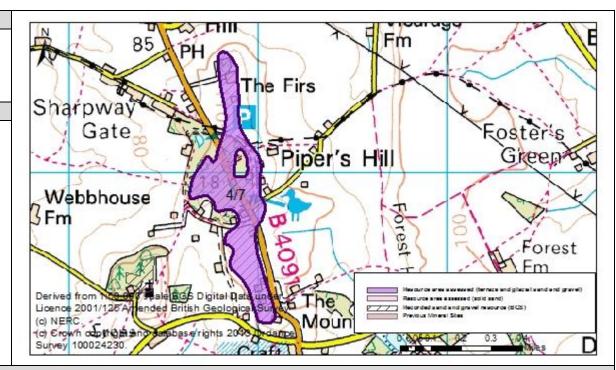
Resource name: Piper's Hill **Resource area:** 21ha

Resource depth: Estimated 5m

Location

OS sheet reference: SO 96 NE, SO 96 SE

National grid ref: 395887, 264891



Resource description:

Resource description: Glaciofluvial sand and gravel. Red to orange-brown clayey sand and gravel, up to 5m thick. The sand and

gravel is overlain by a small patch of boulder clay. (Average depth based on BGS memoirs: 5m)

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

Commentary: A small resource area intersected by a road with some ribbon development.

Crude estimate of Area: 21 ha x average depth: 5 m ÷ 2 **resource:** Estimated resource volume: 525,000 m³

Estimated resource tonnage (at 2 t/m³): 1,050,000 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: 21 ha x average depth: $5 \text{ m} \div 2$ **resource:** Estimated resource volume: $525,000 \text{ m}^3$

Estimated resource tonnage (at 1.65 t/m³): 866,250 tonnes

Conclusion: Significant.

Resource name: Ditchford Bank

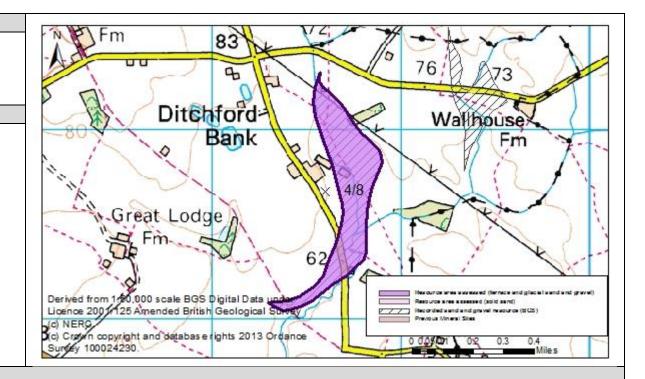
Resource area: 20ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 96 SE

National grid ref: 398695, 263679



Resource description:

Resource description: 1st terrace sand and gravel. The gravels are clayey and the BGS memoirs estimate that they are probably not

more than 2m thick.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with some built development.

Crude estimate of Area: 20 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 200,000 m³

Estimated resource tonnage (at 2 t/m³): 400,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of resource:Area: 20 ha x average depth: 2 m ÷ 2
Estimated resource volume: 200,000 m³

Estimated resource tonnage (at 1.65 t/m³): 330,000 tonnes

Resource number: 4/9

Resource name: Priest Bridge

Resource area: 22ha

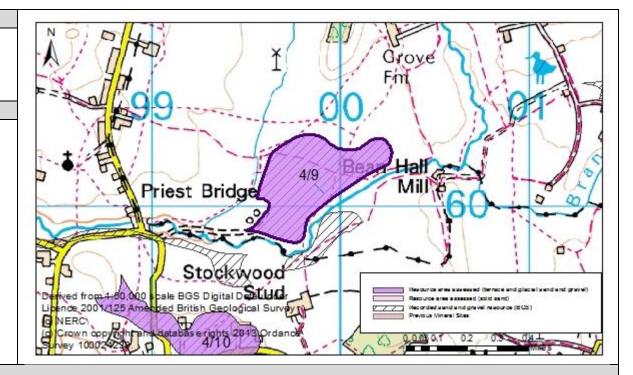
Resource depth: Estimated 2m

Location

OS sheet reference: SO 96 SE, SO 06

SW, SO 95 NE

National grid ref: 399843, 260133



Resource description:

Resource description: 1st terrace sand and gravel. The deposit is of variable lithology, and deposits flanking the Bow Brook tend to be

clayey and consist mostly of sand with very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to

be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with no built development.

Crude estimate of Area: 22 ha x average depth: 2m ÷ 2 **resource:**Estimated resource volume: 220,000 m³

Estimated resource tonnage (at 2 t/m³): 440,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 22 ha x average depth: 2m ÷ 2

resource: Estimated resource volume: 220,000 m³

Estimated resource tonnage (at 1.65 t/m³): 363,000 tonnes

4/10 Resource number:

Stock Green Resource name:

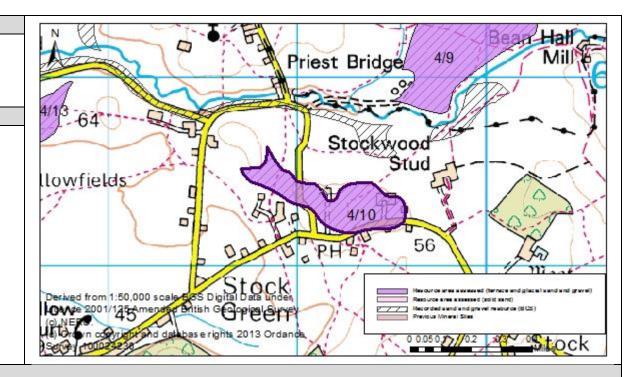
14ha Resource area:

Estimated 2m Resource depth:

Location

SO 95 NE OS sheet reference:

399190, 259347 National grid ref:



Resource description:

2nd river terrace sand and gravel. Deposits flanking the Bow Brook tend to be clayey and consist mostly of **Resource description:**

sand with very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and

Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with some dispersed development.

Crude estimate of Area: 14 ha x average depth: 2 m ÷ 2 resource:

Estimated resource volume: 140,000 m³

Estimated resource tonnage (at 2 t/m³): 280,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Area: 14 ha x average depth: 2 m ÷ 2 Revised estimate of resource:

Estimated resource volume: 140,000 m³

Estimated resource tonnage (at 1.65 t/m³): 231,000 tonnes

Resource name: Hollowfields Road

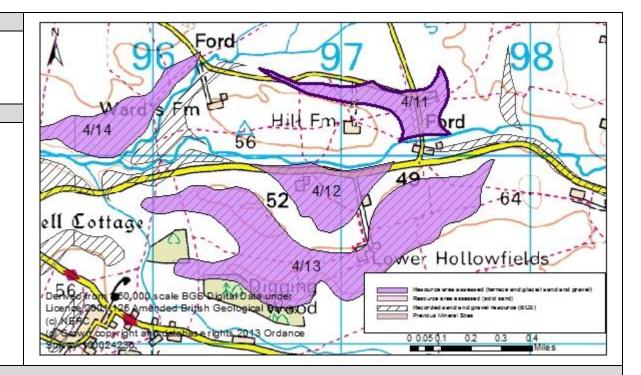
Resource area: 11ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NE

National grid ref: 397260, 260281



Resource description:

Resource description: 1st terrace sand and gravel. Deposits flanking the Bow Brook tend to be clayey and consist mostly of sand with

very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook.

The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no mare detailed lead information on depths available

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area intersected by roads.

Crude estimate of Area: 11 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 110,000 m³

Estimated resource tonnage (at 2 t/m³): 220,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 11 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 110.000 m³

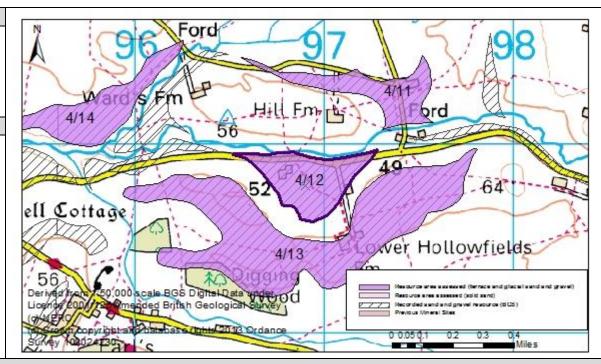
Estimated resource tonnage (at 1.65 t/m³): 181,500 tonnes

Overview
Resource number: 4/12
Resource name: Shell Brook Farm and Bishops Hall Farm
Resource area: 14ha
Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NE

National grid ref: 396917, 259810



Resource description:

Resource description: 1st terrace sand and gravel. Deposits flanking the Bow Brook tend to be clayey and consist mostly of sand with

very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook.

The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon)

are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick. There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with a road running along the northern edge and small scale development on the

periphery of the resource area.

Crude estimate of Area: 14 ha x average depth: 2 m ÷ 2

resource: Estimated resource volume: 140,000 m³

Estimated resource tonnage (at 2 t/m³): 280,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 14 ha x average depth: $2 \text{ m} \div 2$

resource: Estimated resource volume: 140,000 m³

Estimated resource tonnage (at 1.65 t/m³): 231,000 tonnes

Resource number: 4/13

Resource name: Digging Wood

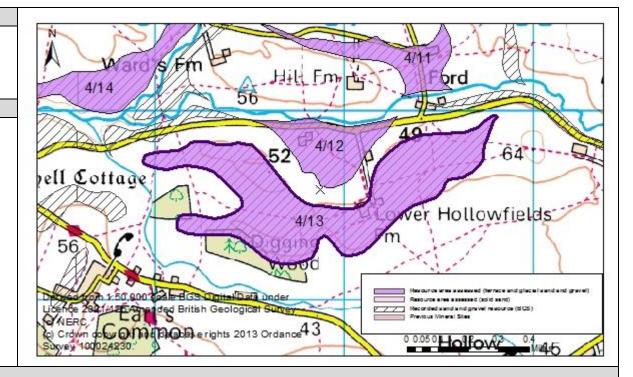
Resource area: 54ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NE

National grid ref: 396889, 259560



Resource description:

Resource description: 2nd terrace sand and gravel. The deposit, poorly exposed in ditches, is a red to orange-brown clayey, pebbly

sand. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow

Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with little built development.

Crude estimate of resource:Area: 54 ha x average depth: 2 m ÷ 2
Estimated resource volume: 540,000 m³

Estimated resource tonnage (at 2 t/m³): 1,080,000 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: 54 ha x average depth: $2 \text{ m} \div 2$

resource: Estimated resource volume: 540,000 m³

Estimated resource tonnage (at 1.65 t/m³): 891,000 tonnes

Conclusion: Significant.

4/14 Resource number:

Seeley Brook Resource name:

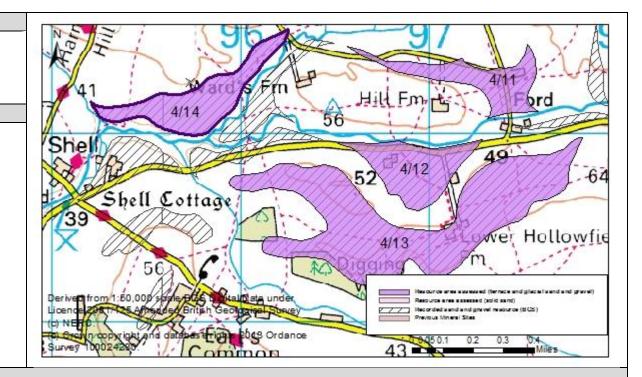
15ha Resource area:

Estimated 2m Resource depth:

Location

SO 95 NE OS sheet reference:

395771, 260185 National grid ref:



Resource description:

Conclusion:

1st terrace sand and gravel. Deposits flanking the Bow Brook tend to be clayey and consist mostly of sand with Resource description:

very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon)

are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with little built development.

Crude estimate of Area: 15 ha x average depth: 2 m ÷ 2 resource:

Estimated resource volume: 150.000 m³

Estimated resource tonnage (at 2 t/m³): 300,000 tonnes

Not significant: Small deposit with less than 300,000m³. Not for consideration in defining areas of search.

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

Revised estimate of Area: 15 ha x average depth: 2 m ÷ 2

Estimated resource volume: 150,000 m³ resource:

Estimated resource tonnage (at 1.65 t/m³): 247,500 tonnes

Overview 4/15

Resource name: West of Himbleton

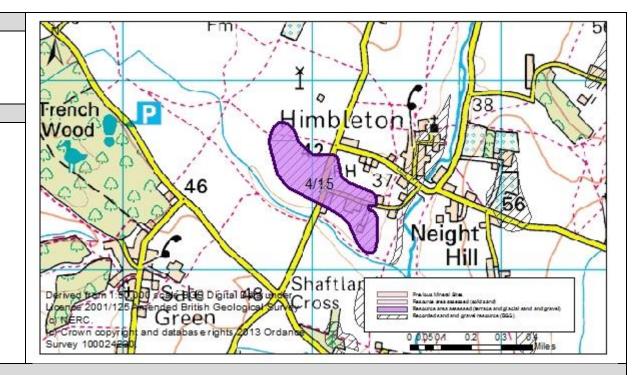
Resource area: 15ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NW

National grid ref: 394061, 258451



Resource description:

Resource description: 2nd terrace (Wasperton) sand and gravel. Deposits flanking the Bow Brook tend to be clayey and consist

mostly of sand with very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with some built development.

Crude estimate of resource:Area: 15 ha x average depth: 2 m ÷ 2
Estimated resource volume: 150,000 m³

Estimated resource tonnage (at 2 t/m³): 300,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 15 ha x average depth: $2 \text{ m} \div 2$ **resource:** Estimated resource volume: $150,000 \text{ m}^3$

Estimated resource tonnage (at 1.65 t/m³): 247,500 tonnes

Overview 4/16

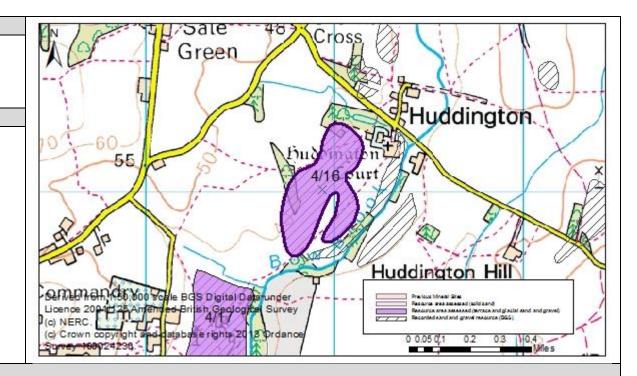
Resource name: Huddington 17ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NW

National grid ref: 393934, 257004



Resource description:

Resource description: 2nd terrace (Wasperton) sand and gravel. The deposit is a red to orange-brown, clayey, pebbly sand. The BGS

memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow

Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available. (Average depth based on BGS memoirs: mid-point of range 2m)

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

Commentary: A small resource area with little built development.

Crude estimate of Area: 17 ha x average depth: 2 m ÷ 2

resource: Estimated resource volume: 170,000 m³

Estimated resource tonnage (at 2 t/m³): 340,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 17 ha x average depth: 2 m ÷ 2

resource: Estimated resource volume: 170,000 m³

Estimated resource tonnage (at 1.65 t/m³): 280,500 tonnes

Resource number: 4/17

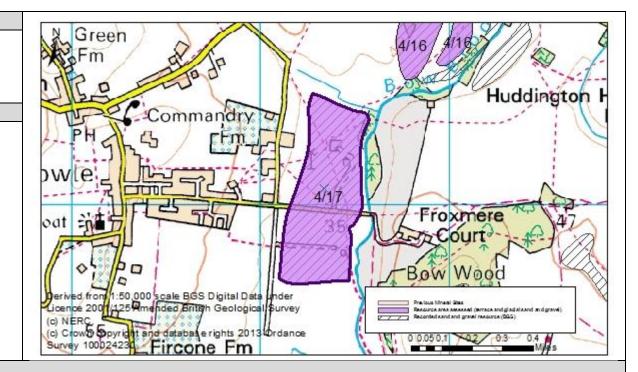
Resource name: East of Crowle

Resource area: 32ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NW National grid ref: 39341, 256039



Resource description:

Resource description: 1st terrace (Bretford) sand and gravel. The BGS memoir notes that east of Crowle the 2nd and 1st terraces

merge and the two cannot be separated. The deposit, poorly exposed in ditches, is a red to orange-brown

clayey, pebbly sand. There is evidence of small scale working in this area.

The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of

the Bow Brook terrace deposits are estimated to be up to 2m thick. There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area intersected by a road

Crude estimate of Area: 32 ha x average depth: $2 \text{ m} \div 2$ resource: Estimated resource volume: $320,000 \text{ m}^3$

Estimated resource tonnage (at 2 t/m³): 640,000 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: 32 ha x average depth: 2 m ÷ 2
Estimated resource volume: 320,000 m³

Estimated resource tonnage (at 1.65 t/m³): 528,000 tonnes

Conclusion: Change to conclusion: Not significant.

Resource name: North of Upton

Snodsbury

Resource area: 11ha

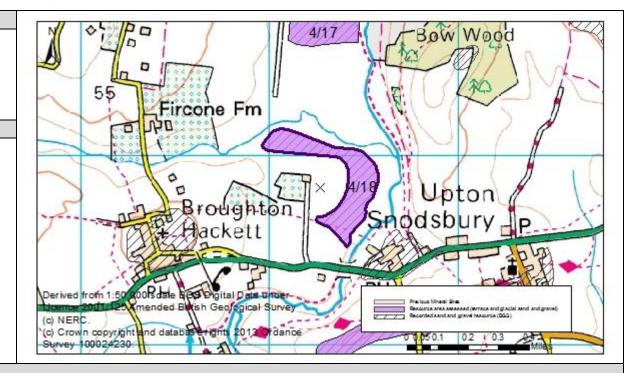
Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NW, SO 95

SW

National grid ref: 393345, 254877



Resource description:

Resource description:

2nd terrace (Wasperton) sand and gravel. The deposit is a red to orange-brown, clayey, pebbly sand. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow

Brook terrace deposits are estimated to be up to 2m thick. There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with no built development.

Crude estimate of Area: 11 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 110.000 m³

Estimated resource tonnage (at 2 t/m³): 220,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 11 ha x average depth: $2 \text{ m} \div 2$ **Estimated resource volume:** $110,000 \text{ m}^3$

Estimated resource tonnage (at 1.65 t/m³): 181,500 tonnes

Resource name: East of Libbery

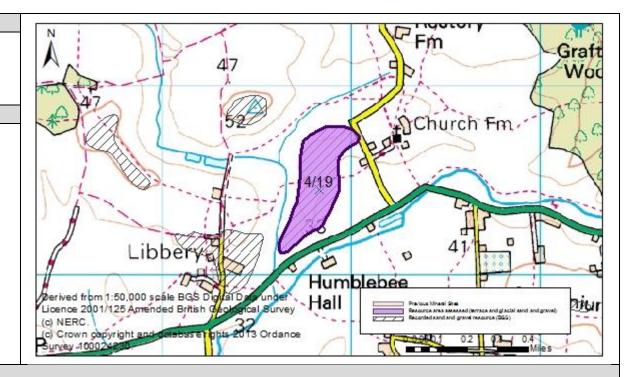
Resource area: 13ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 NE

National grid ref: 395817, 255491



Resource description:

resource:

Resource description: 2nd terrace (Wasperton) sand and gravel. The deposit is a red to orange-brown, clayey, pebbly sand. Deposits

flanking the Piddle Brook tend to be clayey and consist mostly of sand with very little gravel. The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook

terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area with no built development.

Crude estimate of Area: 13 ha x average depth: 2 m ÷ 2 **resource:** Estimated resource volume: 130,000 m³

Estimated resource tonnage (at 2 t/m³): 260,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 13 ha x average depth: 2 m ÷ 2

Estimated resource volume: 130,000 m³

Estimated resource tonnage (at 1.65 t/m³): 214,500 tonnes

Resource number: 4/20

Resource name: West of Upton

Snodsbury

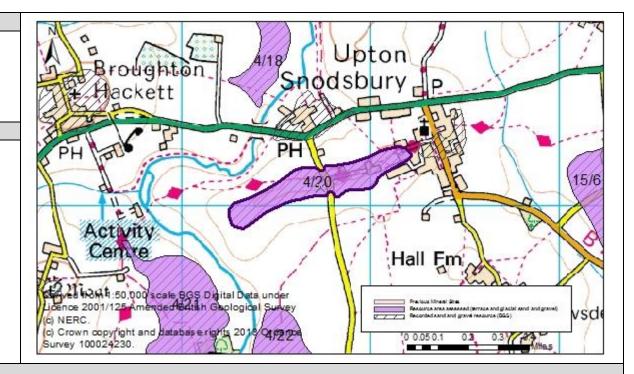
Resource area: 13ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 SW

National grid ref: 393720, 254110



Resource description:

Resource description: 4th terrace (Ailstone) sand and gravel. No exposures seen, but ploughed fields on all of the outcrops of the 4th

terrace showed traces of orange to red-brown, often clayey, sand with scattered pebbles.

The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of

the Bow Brook terrace deposits are estimated to be up to 2m thick. There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area intersected by a road with some built development.

Crude estimate of Area: 13 ha x average depth: 2 m ÷ 2 resource: Estimated resource volume: 130.000 m³

Estimated resource tonnage (at 2 t/m³): 260,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 13 ha x average depth: $2 \text{ m} \div 2$

resource: Estimated resource volume: 130,000 m³

Estimated resource tonnage (at 1.65 t/m³): 214,500 tonnes

Resource number: 4/21

Resource name: Edward's Lane

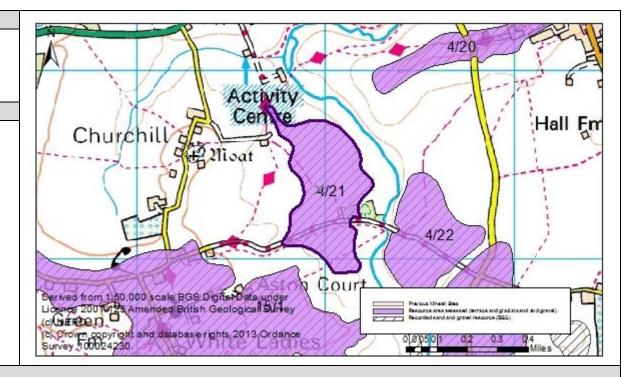
Resource area: 26ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 SW

National grid ref: 392999, 253360



Resource description:

Resource description: 2nd terrace (Wasperton). A ditch section 1m deep within the deposit found gravel, red-brown poorly sorted

sand matrix, locally clayey and pebble-free, pebbles, mostly rounded Kidderminster formation quartzites with

angular quartzite, chert, various sandstones, shale.

The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area, with little built development.

Crude estimate ofArea: 26 ha x average depth: 2 m ÷ 2 **resource:**Estimated resource volume: 260,000 n

Estimated resource volume: 260,000 m³

Estimated resource tonnage (at 2 t/m³): 520,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³. Not for consideration in defining areas of search.

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

Revised estimate of Area: 26 ha x average depth: $2 \text{ m} \div 2$ resource: Estimated resource volume: $260,000 \text{ m}^3$

Estimated resource tonnage (at 1.65 t/m³): 429,000 tonnes	
Conclusion:	Not significant.

Resource name: Edward's Bridge

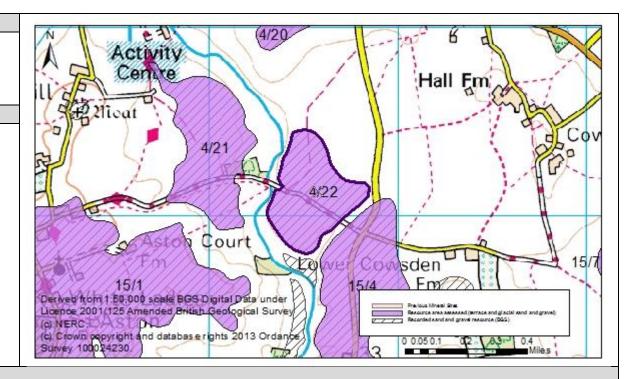
Resource area: 20ha

Resource depth: Estimated 2m

Location

OS sheet reference: SO 95 SW

National grid ref: 393537, 253112



Resource description:

Resource description: 2nd terrace (Wasperton). A ditch section 1m deep within the deposit to the west found gravel, red-brown poorly

sorted sand matrix, locally clayey and pebble-free, pebbles, mostly rounded Kidderminster formation quartzites

with angular quartzite, chert, various sandstones, shale.

The BGS memoir states that there is a suite of five terraces in the valley of the Bow Brook. The Bow Brook is part of the River Avon drainage basin and the two sets of terraces (Bow Brook and Avon) are correlated. All of the Bow Brook terrace deposits are estimated to be up to 2m thick.

There is no more detailed local information on depths available.

(Average depth based on BGS memoirs: 2m)

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

Commentary: A small resource area intersected by a road, with little built development.

Crude estimate ofArea: 20 ha x average depth: 2 m ÷ 2 **resource:**Estimated resource volume: 200.000 m³

Estimated resource tonnage (at 2 t/m³): 400,000 tonnes

Conclusion: Not significant: Small deposit with less than 300,000m³.

Not for consideration in defining areas of search.

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

Revised estimate of Area: 20 ha x average depth: $2 \text{ m} \div 2$ resource: Estimated resource volume: $200,000 \text{ m}^3$

	Estimated resource tonnage (at 1.65 t/m³): 330,000 tonnes
Conclusion:	Not significant.

4/23 Resource number: Sneachill Resource name:

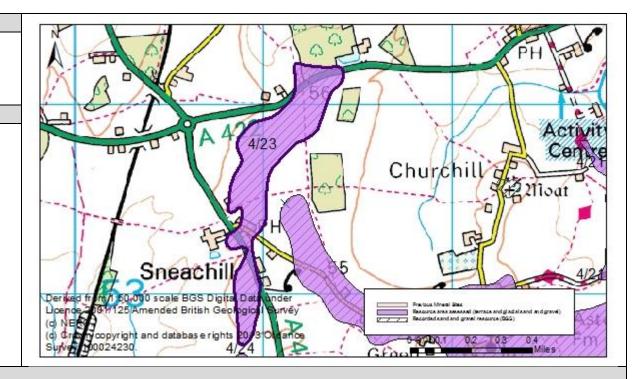
26ha Resource area:

Estimated 2m Resource depth:

Location

SO 95 SW OS sheet reference:

National grid ref: 391038, 253628



Resource description:

Glaciofluvial sand and gravel. No exposures seen, but brown clayey sand proved by augering. The BGS **Resource description:**

memoirs estimate that the deposit is about 2m thick.

(Average depth based on BGS memoirs estimate of 2m)

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

Commentary: A small narrow deposit crossed by A roads in the north and south.

Crude estimate of Area: 26 ha x average depth: 2 m ÷ 2 Estimated resource volume: 260,000 m³ resource:

Estimated resource tonnage (at 2 t/m³): 520,000 tonnes

Not significant: Small deposit with less than 300,000m³. **Conclusion:**

Not for consideration in defining areas of search.

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

Area: 26 ha x average depth: 2 m ÷ 2 Revised estimate of resource:

Estimated resource volume: 260,000 m³

Estimated resource tonnage (at 1.65 t/m³): 429,000 tonnes

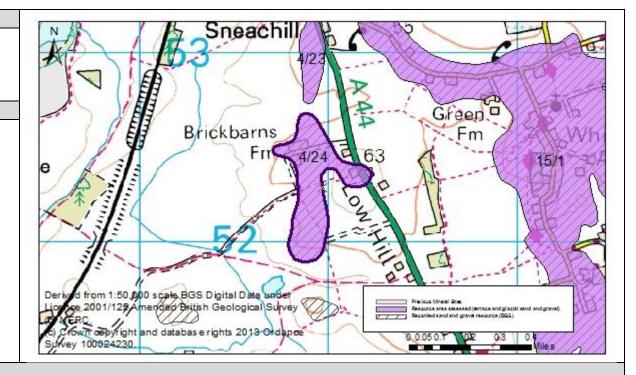
4/24 Resource number: Low Hill Resource name: 15ha Resource area:

Estimated 2m Resource depth:

Location

SO 95 SW OS sheet reference:

National grid ref: 390924, 252295



Resource description:

Glaciofluvial sand and gravel. No exposures seen, but brown clavey sand proved by augering. The BGS **Resource description:**

memoirs estimate that the deposit is about 2m thick. (Average depth based on BGS memoirs estimate of 2m)

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

Commentary: A small resource area with some built development.

Crude estimate of Area: 15 ha x average depth: 2 m ÷ 2 Estimated resource volume: 150,000 m³ resource:

Estimated resource tonnage (at 2 t/m³): 300,000 tonnes

Not significant: Small deposit with less than 300,000m³. **Conclusion:**

Not for consideration in defining areas of search.

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

Revised estimate of Area: 15 ha x average depth: 2 m ÷ 2 resource:

Estimated resource volume: 150,000 m³

Estimated resource tonnage (at 1.65 t/m³): 247,500 tonnes