Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 1

Limit(s): West Oxfordshire LCU

Total Area: 9,597 Ha

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas in Flood Zone 1</td>
<td>1697</td>
<td>18.5</td>
</tr>
<tr>
<td>Areas in Flood Zone 2</td>
<td>82</td>
<td>0.9</td>
</tr>
<tr>
<td>Areas in Flood Zone 3a with Climate Change</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Areas in Flood Zone 3a</td>
<td>16</td>
<td>0.2</td>
</tr>
<tr>
<td>Areas in Flood Zone 3b</td>
<td>602</td>
<td>6.3</td>
</tr>
</tbody>
</table>

MAIN RIVER

The River Evenlode flows west through the centre of the Resource Area. The Cornwell Brook flows south to join the Evenlode at Fingeham.

FLOOD RECORDS

There are records of flooding along the Evenlode floodplain. Properties have been affected by flood flooding in Shipton Under Wychwood, Bourton Under Wychwood and Cheltenham.

There are no recorded incidents of seepage or groundwater flooding in this area.

N.B. the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and WADDC as part of their combined SFRA.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 3

**District:** Cherwell

**Total Area:** 4.435 Ha

<table>
<thead>
<tr>
<th>Feature</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>4.233</td>
<td>95</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>0.3</td>
<td>0.7</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>Area in Flood Zone 3c</td>
<td>0.1</td>
<td>0.3</td>
</tr>
</tbody>
</table>

**MAIN RIVER:**
There are no Environment Agency designated main rivers within this Resource Area.

**FLOOD RECORDS:**
There are no recorded incidents of flooding within this Resource Area.

N.B. the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and WADCO as part of their combined SFRA.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 4

District: Vale of White Horse U.D. & West Oxfordshire U.D.

Total Area: 5,970 Ha

<table>
<thead>
<tr>
<th>Zone</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Flood Zone 1</td>
<td>30.75</td>
<td>0.5</td>
</tr>
<tr>
<td>In Flood Zone 2</td>
<td>615</td>
<td>10.3</td>
</tr>
<tr>
<td>In Flood Zone 3a with Climate Change</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>In Flood Zone 3a</td>
<td>15</td>
<td>0.2</td>
</tr>
<tr>
<td>In Flood Zone 3b</td>
<td>3,243</td>
<td>36.2</td>
</tr>
</tbody>
</table>

MAIN RIVER:
The Upper Thames flows north to south across the south of the Resource Area. Several tributaries flow north to south to join the Upper Thames along its length including the Langford Brook, Broadwell Brook, Kemerton Brook, Bedfort Cut, Cliveden Brook, Shill Brook, Black Bourton Brook, Hightower Brook, Thamey Brook, Moseley Brook, Great Brook, Aston Chalk and the Bull Lane Ellot.
The Wadder Stream flows west to east, on the south side of the Upper Thames.

FLOOD RECORDS:
Approximately a third of this Resource Area has been affected by flooding from the Upper Thames in the past.

There are records of properties affected by flooding in Banbury.

Thames Water had records of flooding in Banbury, in the centre of this Resource Area.

There are no reported incidents of groundwater flooding in this area.

N.B.: the surface water modelling for the 1 in 100 year storm has only been undertaken for SOCC and VAWDC as part of their combined SFRA. There are no areas identified at risk of surface water flooding in this part of this Resource Area within SOCC.

This map is reproduced from Oxfordshire County Council's website with the permission of Oxfordshire County Council. Copyright © Oxfordshire County Council 2009. All rights reserved 2009.

Scott Wilson

Page B-5
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 5

LIMITS: West Oxfordshire LDZ

Total Area: 5.199 Ha

<table>
<thead>
<tr>
<th>Zone</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Zone 1</td>
<td>2.215</td>
<td>43.4</td>
</tr>
<tr>
<td>Flood Zone 2</td>
<td>1.66</td>
<td>31.7</td>
</tr>
<tr>
<td>Flood Zone 3a (with Climate Change)</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Flood Zone 3b</td>
<td>1.208</td>
<td>23.3</td>
</tr>
</tbody>
</table>

MAIN RIVER
The River Windrush and Tetsworth Brook flow north to south through this Resource Area to join the Upper Thames which flows north to south around the southern edge of the Resource Area. Several smaller watercourses feed into the Windrush and Upper Thames including the Hancourt Brook, Wheatson Brook, Little Britton Brook, Newbridge Cut and Brightwell Cut.

FLOOD RECORDS
There are records of flooding associated with the Upper Thames, as shown by the hatched outline. In addition, there are records of properties in Standlake that have been affected by fluvial flooding associated with the Newbridge Cut.

Thames Water has records of sever flooding within this Resource Area.

NB: the surface water modelling for the 1 in 100 year event has only been undertaken for SODC and VWHDC as part of their combined SFRA.

This map is produced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. North Oxfordshire District Council claim no interest in the underlying Ordnance Survey information. Ordnance Survey Licence No: 100028231 2009. © Crown copyright and database right 2009. This notice must be reproduced on all copies. The information provided by this map may not be used for any purpose other than the use for which it is produced. No representation is given by this map with respect to its accuracy or completeness.

July 2007 Flood Records

Severn Flooding Incidents
Surface Water Flooding

EA Main Rivers

Groundwater Flooding

Easements

County/District Boundary
Parish Boundary
Minerals Resource Area
Canal
Flood Zone 0
Flood Zone 3a
Flood Zone 3a + CC
Flood Zone 3b
EA Historic Flood Outline
Flood Defences
Flood Storage Areas

Designated Areas

D126605 / Sand Gravel 5

Data Source: Environment Agency
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 6

Limit: West Oxfordshire UU & Chiswell UU;

Total Area: 5,474 Ha

<table>
<thead>
<tr>
<th>Area Description</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>3,046</td>
<td>55.8</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>1,663</td>
<td>30.0</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>40</td>
<td>0.7</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>34</td>
<td>0.6</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>1,289</td>
<td>23.5</td>
</tr>
</tbody>
</table>

Main River:
The Upper Thames River flows along the south edge of the Resource Area. Several tributaries flow south to join the Upper Thames including the Cassington Stream, Child Brook, Quainton Marsh, Great Farm Ditch, North Yarnton Ditch, Kingsbridge Brook and the Great Mead Ditch.

Flood Records:
Approximately 25% of this Resource Area has been affected by flooding from the Upper Thames and its tributaries in the past.

There are records of 5-10 properties affected by fluvial flooding in Cassington.

Thames Water has records of severe flooding in the Yarnton area in the east of this resource area.

There are no reported incidents of groundwater flooding in this area.

N.B: the surface water modelling for the 1 in 100 year event has only been undertaken for SDDC and VWD/C as part of their combined SFRA.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 7

District: Cherwell LCU & South Oxfordshire LCU

Total Area: 12,370 Ha

<table>
<thead>
<tr>
<th>Area</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>2276</td>
<td>0.9</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>20</td>
<td>0.2</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>487</td>
<td>3.9</td>
</tr>
<tr>
<td>Area in Flood Zone 3a</td>
<td>429</td>
<td>3.5</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>3150</td>
<td>25.5</td>
</tr>
</tbody>
</table>

MAIN RIVER

The River Cherwell flows north to south in the west of the Resource Area. The Oxford Canal flows adjacent to the River Cherwell. The Ray (Oxon) flows east to meet across the Resource Area and is joined by a number of smaller tributaries from the north and south.

FLOOD RECORDS

A large proportion of the Cherwell floodplain has been affected by flooding before. Properties in Grafton and Islip have reported flooding from fluvial sources during the July 2007 floods. Thames Water has records of flooding from sewers in this area during the last 10 years.

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & VHDC, SFRA, highlights land close to Marston in the south of the Resource Area to be at risk of surface water flooding.

N.B. the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VHDC as part of their combined SFRA and does not cover the north of this Resource Area.

\[Design Note\]

D126605 / Sand Gravel 7

This is to be interpreted as a contour map with the permission of Ordnance Surveys under the terms of the Ordnance Survey Licence No. 100025399, 2009. All Ordnance Survey data rights reserved 2009. For information contact Ordnance Survey (0844) 571 6060, www.orsconline.com
MAIN RIVER
A tributary of the River Ock is located to the east of the Resource Area.

FLOOD RECORDS
Modelled by the 1 in 100 year storm event, undertaken as part of the SODC & VWHDC SFRA, identifies parts of the Resource Area and Pangton to the north, to be susceptible to surface water flooding.

There are no other reported incidents of flooding in this Resource Area.
MAIN RIVER
The Upper Thames flows north to south through this Resource Area. There are several smaller
watercourses that feed into the Upper Thames including the Hinksey Drain, Littlemore Brook,
Radley Park Ditch and the Radley Brook.

FLOOD RECORDS
There are records of flooding along the Upper Thames floodplain, along the eastern side of
the Resource Area. Properties in South Hinksey and east Radley have been affected by funnel
flooding.

Thames Water has records of properties affected by sewer flooding in the northern half of
the Resource Area in Carterton.

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & WADCO SFRA,
identifies parts of the Resource Area to be at risk of surface water flooding.