Sand and Gravel: Resource Area 10

Total Area: 6,802 Ha

<table>
<thead>
<tr>
<th>Area in Flood Zone</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>5,566</td>
<td>87.6</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>111</td>
<td>1.6</td>
</tr>
<tr>
<td>Area in Flood Zone 3a</td>
<td>0</td>
<td>0.1</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>734</td>
<td>10.8</td>
</tr>
</tbody>
</table>

MAIN RIVER
The River Thames flows east to west along the top of the Resource Area and then flows south. Several smaller watercourses form tributaries to the Thames, including the Hoxton Brook, Minsterbrook, Lambourn Stream, Grange Ditch and Cotte Brook.

FLOOD RECORDS:
There are records of flooding from the Thames affecting this Resource Area.
A Thames Water has records of properties affected by severe flooding in the east of the Resource Area around the settlement of Thame.
Modelling of the 1 in 100 year storm, undertaken as part of the SOCC & VARIOC SFRA project, identifies parts of this Resource Area, notably Thame, to be susceptible to surface water flooding.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 11

Main River

The River Ock flows east out of the Resource Area towards Abingdon. A number of tributaries of the River Ock south to north through the Resource Area including Cheltenham Brook, Lottesbrook Brook, Porteshaw Ditch, the Cow Common Brook and the Merry Ditch. The Grave Brook also flows east along the edge of the Resource Area to meet the Upper Thames.

Flood Records

There are no reported incidents of properties affected by flooding in Stretenet, East Hanney and Grove.

The historic flood outline associated with this upper part of the River Ock covers a large proportion of the Resource Area.

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & WWHDC SFRA, identifies parts of Grove, East Hanney and Stretenet to be susceptible to surface water flooding.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 12

District: South Oxfordshire LDU & Vale of White Horse LDU

Total Area: 2,440 Ha

<table>
<thead>
<tr>
<th>Area</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>1,040</td>
<td>67.3</td>
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<tr>
<td>Area in Flood Zone 2</td>
<td>312</td>
<td>12.7</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>16</td>
<td>0.7</td>
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<tr>
<td>Area in Flood Zone 3b</td>
<td>71</td>
<td>2.9</td>
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<tr>
<td>Area in Flood Zone 3b</td>
<td>404</td>
<td>16.4</td>
</tr>
</tbody>
</table>

**MAIN RIVER**

The Upper Thames flows north to east across the top of the Resource Area. The Ginge Brook and More Ditch flows north through the Resource Area to join the Upper Thames.

**Public Incomes**

There are historic records of flooding along the Upper Thames floodplain.

**Modelling**

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC and WHWDC SFRA, identifies parts of Sutton Courtenay, Milton and Long Wittenham to be susceptible to surface water flooding.

**Thames Water**

Thames Water has records of properties affected by sewer flooding in the Didcot area to the south of the Resource Area.

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Sand and Gravel: Resource Area 13

<table>
<thead>
<tr>
<th>Resource Area 13</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Area</td>
<td>6510</td>
<td>100</td>
</tr>
<tr>
<td>Area in Flood Zone 1</td>
<td>3064</td>
<td>47</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>516</td>
<td>8</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>146</td>
<td>2.2</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>2</td>
<td>0.03</td>
</tr>
<tr>
<td>Area in Flood Zone 3c</td>
<td>350</td>
<td>5.4</td>
</tr>
</tbody>
</table>

MAIN RIVER

The River Thames flows southwards through the Resource Area to join the Upper Thames. Two other tributaries of the Upper Thames are the Lady Brook and Ewell River which are located in the south of the Resource Area.

The Chalgrave Brook passes from west to east to join the River Thames at Oxford.

FLOOD RECORDS

There are records of fluvial flooding along the floodplain of the River Thames and Gainsborough Brook, the Lady Brook, and the Upper Thames.

Properties at Shillingford and Dordchester have reportedly been affected by fluvial flooding associated with the Upper Thames.

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

There are records of groundwater flooding along the source of the Ewell River near Bisham and Ilsleyworth.

Legend

- County/District Boundary
- Parish Boundary
- Mineral Resource Area
- Canal
- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defence
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

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MAIN RIVER
The Benny's Brook flows west and south along the length of both the sites that make up this Resource Area. The southern part of the East Site is in a designated Flood Storage Area.

FLOOD RECORDS
There are historic records of flooding along the Benny's Brook.

Modelling of the 1 in 100 year storm event, undertaken as part of the SOCC & WWDC SFRA, identifies parts of Telford in the West Site and Lower Shiplake in the East Site to be at risk of surface water flooding.
MAIN RIVER
The Upper Thames flows north to east along the south of the Resource Area.

FLOOD RECORDS
There are records of flooding along the Upper Thames floodplain in the south west of the Resource Area.

Modelling of the 1 in 100 year storm event, undertaken as part of the ODCC & WMDC SFRA, identifies Hipsford and Chaddlehouse Ovens in the east of the Resource Area to be at risk of surface water flooding.
Oxfordshire County Council, Minerals & Waste SFRA

Sand and Gravel: Resource Area 18

Limit: South Oxfordshire DCT

Total Area: 1,206.4 Ha

<table>
<thead>
<tr>
<th>Area</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>620</td>
<td>50.9</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>140</td>
<td>11.6</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>34</td>
<td>2.7</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>262</td>
<td>19.9</td>
</tr>
</tbody>
</table>

MAIN RIVER: The Upper Thames meanders around this Resource Area.

FLOOD RECORDS: There are records of flood flooding along the Upper Thames valley. Properties in Abingdon Island and Culham have reportedly been affected by flooding from this main river.

Modelling of the 1 in 100 year storm event, undertaken as part of the SDOC & VWHDC SFRA, identifies land in the east of the Resource Area, around Clifton Hampden, to be susceptible to surface water flooding.
**Soft Sand: Resource Area 1**

**Total Area:** 9.992 Ha

- **Area in Flood Zone 1:** 9.614 Ha (97.2%)
- **Area in Flood Zone 2:** 72 Ha (0.7%)
- **Area in Flood Zone 3:** 198 Ha (2.1%)

**MAIN RIVER**

The Marcham Brook flows south through the eastern part of the Resource Area to join the River Ock, which flows west. A number of other tributaries of the River Ock are present within the Resource Area, including the Cheltenham Brook and the Fosse Brook. The Tinsley Brook is a tributary of the Wadley Stream, and flows north through the western part of the Resource Area.

**FLOOD RECORDS**

25-50 properties are recorded to have experienced flooding in Abingdon, one of the sites, as a result of flood events associated with the Marcham Brook as well as surcharging of surface water sewers.

Thames Water has records of properties experiencing flooding from sewers near Cuttsville and Highworth, in the west of the Resource Area, during the last 50 years.

Modelling of the 1 in 100-year storm event, undertaken as part of the SODC & VWSCP FRPA, identifies parts land surrounding Faringdon to be susceptible to surface water flooding.

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D126605 / Soft Sand 1

**County District Boundary**
**Parish Boundary**
**Mineral Resource Area**
**Canal**
**Flood Zone 2**
**Flood Zone 3a**
**Flood Zone 3a + CC**
**Flood Zone 3b**
**EA Historic Flood Outline**
**Flood Defences**
**Flood Storage Areas**
**EA Main Rivers**
**July 2007 Flood Records**

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**Severe Flooding incidents**

- 0 or 1
- 2 or 3
- 4 or 5
- 6 or 7
- 8 or 9
- 10 or more

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**Surface Water Flooding**

- 0-10 cm
- 0-20 cm
- 0-30 cm
- 0-40 cm
- 0-50 cm

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**Groundwater Flooding**

- EA Main Rivers

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**Legend**

- **County District Boundary**
- **Parish Boundary**
- **Mineral Resource Area**
- **Canal**
- **Flood Zone 2**
- **Flood Zone 3a**
- **Flood Zone 3a + CC**
- **Flood Zone 3b**
- **EA Historic Flood Outline**
- **Flood Defences**
- **Flood Storage Areas**
- **July 2007 Flood Records**

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**Draining Section**

D126605 / Soft Sand 1

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