Mineral Site SG-19: Bridge Farm, Appleford

District: Vale of White Horse DC
Permit: Sutton Courtenay CP
Total Area: 34.74 Ha

Ha %
Area in Flood Zone 1 0.00 0
Area in Flood Zone 2 1.01 2.9
Area in Flood Zone 3a 2.02 5.1
Area in Flood Zone 3a with Climate Change 4.20 12.1
Area in Flood Zone 3b 26.71 76.9

MAIN RIVER:
The site is located within the floodplain of the Upper Thames catchment. The large majority of the site is within Flood Zone 3b, which has an annual probability of flooding of 5% (1 in 20 year flood event).

FLOOD RECORDS:
There are historic records of flooding along this part of the river course and particularly around the Oxfordshire floodplain just upstream of the site. There are no flood defences present along the part of the river course adjacent to the site. Standing of the 1-in-100 year flood event identifies parts of Sutton Courtenay to be at risk of surface water flooding.

Flooding has been recorded in a large number of properties in Abingdon further upstream, where the Uff and Stanford brook meet and feed into the Upper Thames. Flooding has also been recorded in isolated properties in Cullham and Harefield.

ENVIRONMENT AGENCY COMMENTS:
The site is located in the functional floodplain and adjacent to River Thames navigation. The EA have a duty to maintain navigation and early consultation is advised with the EA navigation team. Significant assets are located upstream of Cullham lock. The EA Asset Management and Flood Risk Management teams should be contacted for further details.
Mineral Site SG-20: Land between Eynsham & Cassington

District: West Oxfordshire DC
Parish: Eynsham CP & Cassington CP

Total Area: 42.39 Ha

<table>
<thead>
<tr>
<th>Zone</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Zone 1</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Flood Zone 2</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Flood Zone 3a</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Flood Zone 3b</td>
<td>42.39</td>
<td>100</td>
</tr>
<tr>
<td>Flood Zone 3a + 3b</td>
<td>42.39</td>
<td>100</td>
</tr>
</tbody>
</table>

**Main River:**
- The Evenlode flows north to south through the site. There are no formal flood defences along this section of the watercourse. The Eynsham Mead Ditch flows along the western boundary of the site.

**Flood Records & Data:**
- The site lies within an area recorded to have experienced fluvial flooding from the Evenlode. 10 individual properties are recorded to have experienced flooding from this watercourse.
- There are no records of groundwater flooding in this area.
- The surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and WADC as part of their combined SFRA.

**Environment Agency Comments:**
- The site is located in the functional floodplain and the proposed extraction is upstream of Eynsham where the EA have recently completed Partnership works to reduce flood risk. The EA have stringent requirements to minimise loss of flood storage and flow in this area.

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Legend:
- County/District Boundary
- Parish Boundary
- Minerals Site
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + 3b
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers
Oxfordshire County Council, Minerals & Waste SFRA

Mineral Site SG-41a: North of Lower Radley

District: Vale of White Horse DC
Parish: Radley CP
Total Area: 94.31 Ha

<table>
<thead>
<tr>
<th>Area</th>
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<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>57.78</td>
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<td>Area in Flood Zone 2</td>
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<td>Area in Flood Zone 3a with Climate Change</td>
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<tr>
<td>Area in Flood Zone 3b</td>
<td>5.66</td>
<td>6.0</td>
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<tr>
<td>Area in Flood Zone 3c</td>
<td>20.75</td>
<td>22</td>
</tr>
</tbody>
</table>

MAP NOTE:
The Upper Thames watercourse flows north to south along the eastern edge of the site. The Petney Ditch also runs north to south through the site. There is a gravel pit south of Lower Radley which is used as a Flood Storage Area south of the site, and is not indicated on the map.

FLOOD RECORDS:
There are historic records of flood water along the part of the river channel. Three properties in the south of the site are recorded to have experienced flooding from the main river.

 modelling of the 1 in 100 year storm event, as part of the GDSCC/WHSCC SFRA, identifies that parts of the site as well as the settlement of Radley and Lower Radley to the west of the site are susceptible to surface water flooding.

Thames Water has records of properties affected by sewer flooding in Kennington and South Hinksey during the last 10 years.

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

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