

## High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and  
Additional Provision 2 Environmental Statement

Volume 5: Technical appendices

CA4: Whitmore Heath to Madeley  
Community impact assessment  
(CM-001-004)

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## Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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# 1 Introduction

- 1.1.1 This document is an appendix to the community assessment which forms part of Volume 5 of the Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES) for the Whitmore Heath to Madeley community area (CA4).
- 1.1.2 This appendix provides details of changes to the community impact assessment since the production of the High Speed Two (HS2) Phase 2a (West Midlands - Crewe) Environmental Statement (ES)<sup>1</sup> published in July 2017 (the main ES), as well as the Supplementary Environmental Statement (SES1) and Additional Provision Environmental Statement (AP1 ES) published in March 2018<sup>2</sup>.
- 1.1.3 This report should be read in conjunction with Volume 5, Appendix CM-001-004 of the main ES and Volume 5, Appendix CM-001-000 of the SES1 and AP1 ES.
- 1.1.4 Maps referred to in this appendix are contained in the SES2 and AP2 ES Volume 5, Community Map Book, Map Series CM-01.
- 1.1.5 This document is structured as follows:
- Part 1: Supplementary Environmental Statement 2: community impact assessment record sheets – construction; and
  - Part 2: Additional Provision 2 Environmental Statement: community impact assessment record sheets – construction.
- 1.1.6 In this document the scheme is referred to as the AP2 revised scheme, which is the SES2 scheme (i.e. the SES1 scheme, submitted to Parliament in March 2018, with the changes described in the SES2) as amended by the AP2 amendments.

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<sup>1</sup> HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Statement*, <https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement>

<sup>2</sup> HS2 Ltd (2018), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Supplementary Environmental Statement and Additional Provision Environmental Statement*, <https://www.gov.uk/government/collections/hs2-phase-2a-additional-provision-and-supplementary-environmental-statement-and-march-2018>

## 2 Part 1: Supplementary Environmental Statement 2

### 2.1 Community impact assessment record sheets – construction Madeley Cemetery<sup>3</sup>

Table 1: Madeley Cemetery community impact assessment record sheet

<b>Resource name</b>	Madeley Cemetery.
<b>Community area</b>	Whitmore Heath to Madeley (CA4).
<b>Resource type</b>	Open space.
<b>Resource description/profile</b>	Madeley Cemetery is located on Manor Road to the south of Madeley. The cemetery opens from 8am each day and closes 30 minutes before sunset (8pm during summer). The site provides approximately 12 parking spaces, a refillable water supply, an information board, a bin and seating in the grounds. The site is clean and well maintained, and the overall quality of facilities on site is high.
<b>Assessment year</b>	Construction phase (2020+).
<b>Impact 1: temporary significant noise and visual effects</b>	<p>Impact: the cemetery will be in proximity to works to construct the HS2 route over Manor Road and the realignment of Manor Road to the west. The cemetery will also be affected by SES2 changes to construction traffic flows resulting in different noise effects. These works will result in the following environmental effects:</p> <p>Noise: construction works will result in significant daytime noise effects on the visitors of the cemetery for approximately one year.</p> <p>Visual: significant adverse effects will be experienced by visitors of the cemetery due to views of construction works associated with Lea North embankment, Manor Road overbridge and the borrow pit west of Netherset Hey Farm.</p> <p>Duration of impact: up to one year.</p>
<b>Assessment of magnitude</b>	Medium: two significant residual effects.
<b>Relevant receptors</b>	Visitors to the cemetery.
<b>Assessment of sensitivity of receptor(s) to impact</b>	High: Due to the nature of the site, visitors to the cemetery would not be able to use an alternative resource. Visitors are also likely to require a tranquil environment.
<b>Significance rating of effect</b>	Major adverse significant in-combination effect due to change to amenity and character of the open space as a result of significant noise and visual effects.
<b>Proposed mitigation options for significant effects</b>	No mitigation required.
<b>Residual effect significance rating</b>	Major adverse significant in-combination effect due to change to amenity and character of the open space as a result of significant noise and visual effects.

<sup>3</sup> The new traffic model has resulted in a different noise effect on this resource. As this does not change the overall in-combination effect, the resource is reported in Volume 5 only and not Volume 2 of the SES2 and AP2 ES

## Residential properties on the A525 Bar Hill Road

Table 2: Residential properties on A525 Bar Hill Road community impact assessment record sheet

<b>Resource name</b>	Residential properties on the A525 Bar Hill Road.
<b>Community area</b>	Whitmore Heath to Madeley (CA4).
<b>Resource type</b>	Residential properties.
<b>Resource description/profile</b>	Thirty-seven residential properties located on the A525 Bar Hill Road to the west of Madeley. These are 2– 18 evens, 22– 68 evens, 86-88, and Sandfield House.
<b>Assessment year</b>	Construction phase (2020+).
<b>Impact 1: temporary significant noise, visual and HGV effects</b>	<p>Impact: the properties will be in proximity to works to construct the SES2 scheme. The HS2 route will pass beneath the A525 Bar Hill Road in Madeley cutting before passing into Madeley tunnel through a tunnel portal to the west of Moor Hall Farm. These properties will also be affected by SES2 changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Noise: significant noise effects at 37 residential properties, these are:</p> <ul style="list-style-type: none"> <li>• eight properties (60– 68 evens; 86– 88 Bar Hill Road) will experience significant daytime noise effects for between two years and two months and two years and six months due to earthworks, and significant night-time noise effects for up to six months due to tunnelling activity; and</li> <li>• twenty-nine properties (2– 18 evens; 22– 58 evens Bar Hill Road and Sandfield House) will experience significant daytime noise effects for between three to nine months due to construction works.</li> </ul> <p>Visual: significant adverse visual effects will be experienced at all of the properties due to views of construction works associated with the Madeley Bridleway 1 accommodation green overbridge, A525 Bar Hill Road realignment and overbridge, Madeley cutting, Madeley tunnel and southern porous portal of Madeley tunnel, Bar Hill aqueduct, the presence of the Madeley tunnel (south) satellite compound, transfer nodes and tunnelling facility and logistics area, earthworks, material stockpiles, construction equipment and movement of construction vehicles.</p> <p>HGV (Heavy Goods Vehicle): there will be a significant number of HGVs passing all properties for 10 months due to the use of the A525 Bar Hill Road as a construction traffic route.</p> <p>Duration of impact: up to two years and six months.</p>
<b>Assessment of magnitude</b>	High: three significant residual environmental effects.
<b>Relevant receptors</b>	Residents of the properties.
<b>Assessment of sensitivity of receptor(s) to impact</b>	High: residential properties and their occupants are identified as being highly sensitive.
<b>Significance rating of effect</b>	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant noise, visual and HGV effects.
<b>Proposed mitigation options for significant effects</b>	No mitigation proposed.
<b>Residual effect significance rating</b>	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant noise, visual and HGV effects.



# 3 Part 2: Additional Provision 2 Environmental Statement

## 3.1 Community impact assessment record sheets – construction Residential properties no longer subject to land take

Table 3: Residential properties no longer subject to land take community impact assessment record sheet

<b>Resource name</b>	Area-wide residential properties.
<b>Community area</b>	Whitmore Heath to Madeley (CA4).
<b>Resource type</b>	Residential properties.
<b>Resource description/profile</b>	Residential properties located close to the land required for the AP2 revised scheme.
<b>Assessment year</b>	Construction phase (2020+).
<b>Impact 1: temporary loss of land</b>	<p>The original scheme would have required small areas of land from the following residential properties in Whitmore:</p> <ul style="list-style-type: none"> <li>• two properties on Three Mile Lane, due to minor utility works; and</li> <li>• one property on the A53 Newcastle Road (The Hill), due to road modifications.</li> </ul> <p>The AP2 amendment at Whitmore Tunnel South Extension (AP2-004-002) will remove the land take effect on these three properties.</p>
<b>Assessment of magnitude</b>	None: no loss of land required.
<b>Relevant receptors</b>	Residents of the properties.
<b>Assessment of sensitivity of receptor(s) to impact</b>	High: residential properties and their occupiers are identified as being highly sensitive.
<b>Significance rating of effect</b>	Removal of minor non-significant effect reported in the main ES.
<b>Proposed mitigation options for significant effects</b>	No mitigation required.
<b>Residual effect significance rating</b>	Removal of minor non-significant effect reported in the main ES.

## Residential properties subject to non-significant land take

Table 4: Residential properties subject to non-significant land take community impact assessment record sheet

<b>Resource name</b>	Area-wide residential properties.
<b>Community area</b>	Whitmore Heath to Madeley (CA4).
<b>Resource type</b>	Residential properties.
<b>Resource description/profile</b>	Residential properties located close to the land required for the AP2 revised scheme.
<b>Assessment year</b>	Construction phase (2020+).
<b>Impact 1: temporary loss of land</b>	<p>Minor utility works (additional land for the removal of an overhead Openreach telecommunications line near Moor Hall (AP2-004-107) and additional land for the underground diversion of Western Power Distribution 11kV and low voltage overhead lines near Bower End Farm (AP2-004-108)) will require small areas of land from the following residential properties during the construction of the AP2 revised scheme:</p> <ul style="list-style-type: none"> <li>• Moor Hall Farm, off the A525 Bar Hill Road; and</li> <li>• Bower End Farm, off the A525 Bar Hill Road.</li> </ul> <p>Duration of impact: up to three months.</p>
<b>Assessment of magnitude</b>	Negligible: the temporary loss of these small areas of land will not impact on the ability of the residents to use their dwellings and access will be maintained to the properties throughout the construction works.
<b>Relevant receptors</b>	Residents of the properties.
<b>Assessment of sensitivity of receptor(s) to impact</b>	High: residential properties and their occupants are identified as being highly sensitive.
<b>Significance rating of effect</b>	Minor adverse effect, which is not significant.
<b>Proposed mitigation options for significant effects</b>	No mitigation proposed.
<b>Residual effect significance rating</b>	Minor adverse effect, which is not significant.

## Residential properties in Whitmore Heath

Table 5: Residential properties in Whitmore Heath community impact assessment record sheet

<b>Resource name</b>	Residential properties in Whitmore Heath.
<b>Community area</b>	Whitmore Heath to Madeley (CA4).
<b>Resource type</b>	Residential properties.
<b>Resource description/profile</b>	<p>Eleven residential properties located in Whitmore Heath, these are:</p> <ul style="list-style-type: none"> <li>• six properties on Birch Tree Lane (Mandarin House, Fernridge, Keppelstone, West Ridge, Tanglewood, Woodlands); and</li> <li>• five properties on Snape Hall Road (Granary Cottage, Snape Hall Farm, Woodbury, Foxdene, Snape Hall Cottage).</li> </ul>
<b>Assessment year</b>	Construction phase (2020+).
<b>Impact 1: temporary significant noise, visual and HGV effects</b>	<p>Impact: residential properties will be in proximity to works to construct the AP2 revised scheme including the AP2 amendment for changes to the vertical and horizontal alignment in the Whitmore Heath to Madeley area (AP2-004-002). These properties will also be affected by SES2 changes to construction programme and changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Noise: all eleven properties will experience significant daytime noise effects for between eleven months and four years and eight months due to construction works including the construction of the northern porous portal of the Whitmore Heath tunnel.</p> <p>Visual: significant adverse effects will be experienced at all of the residential properties due to views of the construction works associated with the HS2 main line, Whitmore Heath tunnel, northern porous portal of the Whitmore Heath tunnel and other elements of the AP2 revised scheme, together with material stockpiles and the presence of construction equipment and movement of construction vehicles.</p> <p>HGV: there will be a significant number of HGVs passing Snape Hall Cottage for three years and one month due to the presence of site haul routes. However, as this affects fewer than five properties this will not contribute to the significant in-combination effect on the community as a whole.</p> <p>Duration of impact: up to four years and eight months.</p>
<b>Assessment of magnitude</b>	Medium: two significant residual environmental effects.
<b>Relevant receptors</b>	Residents of the properties.
<b>Assessment of sensitivity of receptor(s) to impact</b>	High: residential properties and their occupiers are identified as being highly sensitive.
<b>Significance rating of effect</b>	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant noise and visual effects.
<b>Proposed mitigation options for significant effects</b>	No mitigation required.
<b>Residual effect significance rating</b>	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant noise and visual effects.

## 4 References

HS2 Ltd (2018), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Supplementary Environmental Statement and Additional Provision Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2a-additional-provision-and-supplementary-environmental-statement-and-march-2018>.

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement>.



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