

High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement

Volume 5: Technical appendices

CA1: Fradley to Colton
Community impact assessment
(CM-001-001)

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CA1: Fradley to Colton

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(CM-001-001)



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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

A report prepared for High Speed Two (HS2) Limited:

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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 Fradley to Colton community area (CA1).
- 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)¹ 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 2018².
- 1.1.3 This report should be read in conjunction with Volume 5, Appendix CM-001-001 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.

¹ 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>

² 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 Residential properties south of Kings Bromley

Table 1: Residential properties south of Kings Bromley community impact assessment record sheet

Resource name	Eight residential properties around Rileyhill, south of Kings Bromley, east and west of the A515 Lichfield Road.
Community area	Fradley to Colton (CA1).
Resource type	Residential properties.
Resource description/profile	Kings Bromley is a village of approximately 420 properties. The village includes a primary school, place of worship, public house and care home. There are a number of small pockets of additional residential properties south and east of Kings Bromley spread along the A515 Lichfield Road and the A513 Rugeley Road. These properties gain most of the everyday services from Kings Bromley.
Assessment year	Construction phase (2020+).
Impact 1: temporary significant visual and HGV effects	<p>Impact: approximately eight residential properties around Rileyhill, east and west of the A515 Lichfield Road, will be located in proximity to works to construct the Pyford North embankment, A515 Lichfield Road realignment and the works to raise the National Grid Electricity Transmission 400kV overhead power line. The A515 Lichfield Road and Common Lane will be used as a construction traffic route to access the Pyford North embankment satellite compound. The properties will also be affected by SES2 changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Visual: significant adverse effects will be experienced due to close up views of works to realign the A515 Lichfield Road and raise the National Grid Electricity Transmission 400kV overhead power line. Longer range views of higher elements of construction (e.g. tower cranes) associated with the Pyford North embankment and Kings Bromley viaduct will also be visible.</p> <p>Heavy goods vehicle (HGV): there will be a significant number of HGVs passing the properties on the A515 Lichfield Road and Common Lane for up to four years and four months.</p> <p>Duration of impact: up to four years and four months.</p>
Assessment of magnitude	Medium: two significant residual environmental effects.
Relevant receptors	Residents of the properties.
Assessment of sensitivity of receptor(s) to impact	High: residential properties and their occupants are identified as being highly sensitive.
Significance rating of effect	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant visual and HGV effects.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	Major adverse significant in-combination effect due to change to amenity, character and residents' enjoyment of the properties as a result of significant visual and HGV effects.

Residential properties south-west of Kings Bromley

Table 2: Residential properties south-west of Kings Bromley community impact assessment record sheet

Resource name	Five properties along Shaw Lane and A513 Rugeley Road, south-west of Kings Bromley.
Community area	Fradley to Colton (CA1).
Resource type	Residential properties.
Resource description/profile	Kings Bromley is a village of approximately 420 properties. The village includes a primary school, place of worship, public house and care home. There are a number of small pockets of additional residential properties south and east of Kings Bromley spread along the A515 Lichfield Road and the A513 Rugeley Road. These properties gain most of the everyday services from Kings Bromley.
Assessment year	Construction phase (2020+).
Impact 1: temporary significant noise, visual and HGV effects	<p>Impact: approximately five properties along Shaw Lane and A513 Rugeley Road, south-west of Kings Bromley, will be in proximity to the construction of the SES2 revised scheme. The works will include the Bourne embankment, Kings Bromley viaduct, the A515 Lichfield Road realignment and a borrow pit. The A513 Rugeley Road will be used as a construction traffic route and a site haul route is located to the south of the Bourne embankment. The properties will also be affected by SES2 changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Noise: five properties will experience significant noise effects for between two months and three years due to site establishment (including demolitions at Shaw Lane Farm), earthworks, road construction and movement of vehicles on the site haul roads.</p> <p>Visual: all five properties experience significant visual effects due to tall construction equipment associated with the HS2 route and the movement of construction vehicles.</p> <p>HGV: there will be a significant number of HGVs passing the properties on the A513 Rugeley Road for up to four years and four months. There will also be a significant number of HGVs passing the haul route near Shaw Lane Farm for up to nine months.</p> <p>Duration: up to four years and four months.</p>
Assessment of magnitude	High: three significant residual environmental effects.
Relevant receptors	Residents of the properties.
Assessment of sensitivity of receptor(s) to impact	High: residential properties and their occupants are identified as being highly sensitive.
Significance rating of effect	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.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	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.

Four Seasons Nature Study Centre

Table 3: Four Seasons Nature Study Centre community impact assessment record sheet

Resource name	Four Seasons Nature Study Centre.
Community area	Fradley to Colton (CA1).
Resource type	Community facility.
Resource description/profile	<p>The Four Seasons Nature Study Centre is run by the Conservation, Horticulture, Agriculture for the Disabled Society (CHADS), to provide access to nature year round, particularly for the less able.</p> <p>Facilities include a two acre native broadleaved wood, a wild flower area with pond, recreational open space, gardens including raised flower beds, function room and refreshment facilities, and car parking. To the east and south is an allotment area with greenhouses and a polytunnel. Much of the site has been adapted so that all areas are wheelchair friendly.</p> <p>A number of events take place throughout the year including an annual garden party, harvest festival and Tidy Up Day. The centre can also be hired for private functions, meeting, parties and classes, and is available for hire as a caravan site. Every Wednesday the Four Seasons Nature Study Centre opens for surveying, planting, crafting, gardening and farming. Sessions typically run between 10am and 4pm, with approximately 5–15 people attending each week. Regular visitors also include a weekly yoga class and a monthly meditation group.</p> <p>Many of the visitors of both Trentside Meadows (also owned by CHADS) and the Four Seasons Nature Study Centre enjoy the rural nature and tranquillity of both sites which are often used for therapeutic activities.</p>
Assessment year	Construction phase (2020+).
Impact 1: temporary significant noise, visual and HGV effects	<p>Impact: The Four Seasons Nature Study Centre will be located in proximity to the works to construct the River Trent viaduct, and the location of the River Trent viaduct satellite compound. The A513 Rugeley Road will be used as a construction traffic route to access the River Trent viaduct and Bourne embankment satellite compounds. The facility will also be affected by SES2 changes to construction traffic flows and will be in proximity to the SES2 change to lower Kings Bromley viaduct, Bourne embankment and River Trent viaduct (SES2-001-003). These works will result in the following environmental effects:</p> <p>Noise: a significant daytime noise effect has been identified on the outside uses of the Four Seasons Nature Study Centre for up to four years and seven months due to earthworks.</p> <p>Visual: significant adverse effects will be experienced at some areas of Four Seasons Nature Study Centre (mostly the allotment area, greenhouses and polytunnel where there are views out across the car park) due to a view of more elevated parts of the River Trent viaduct.</p> <p>HGV: there will be a significant number of HGVs passing the centre on the A513 Rugeley for up to four years and four months.</p> <p>Duration of impact: up to four years and seven months.</p>
Assessment of magnitude	High: three significant residual environmental effects.
Relevant receptors	<p>The site is used by school groups and wildlife groups for educational and sampling purposes. Vulnerable groups using the site include people with conditions such as arthritis, multiple sclerosis, mental health issues, learning difficulties, Autism Spectrum Disorder (ASD) and older people. Many of the visitors are referred by local health centres but the general public can also attend on an appointment basis. Other groups that utilise the site include:</p> <ul style="list-style-type: none"> • local arthritis, multiple sclerosis, stroke and mental health groups; • local senior residential homes; • local wildlife trusts; • local schools including The Croft Preparatory School, Hayes Meadows Primary School, and Queen's Cross High School (for children with learning difficulties); and

SES2 and AP2 ES Appendix CM-001-001

	<ul style="list-style-type: none"> The Royal Society for the Protection of Birds (RSPB), who often use the site for events, surveys and species counts.
Assessment of sensitivity of receptor(s) to impact	Medium: The Four Seasons Nature Study Centre is used regularly and is a highly valued resource (given its rural and tranquil nature) for vulnerable groups, which represent a high proportion of users. As only parts of the site are affected there is a greater ability to absorb the change. Although there are alternative community centres and open spaces in the area, they do not provide an equivalent service.
Significance rating of effect	Major adverse significant in-combination effect due to change to amenity, character and users' enjoyment of the facility as a result of significant noise, visual and HGV effects.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	Major adverse significant in-combination effect due to change to amenity, character and users' enjoyment of the facility as a result of significant noise, visual and HGV effects.

Trentside Meadows

Table 4: Trentside Meadows community impact assessment record sheet

Resource name	Trentside Meadows.
Community area	Fradley to Colton (CA1).
Resource type	Open space.
Resource description/profile	<p>Trentside Meadows is a local wildlife site owned and managed by CHADS. The site covers an area of approximately 27.7ha, located between the River Trent and the A513 Rugeley Road, west of Kings Bromley. One of the principal reasons for visiting Trentside Meadows is for its ecological value.</p> <p>Visits to Trentside Meadows are by appointment only, and generally take place on average about once a month. The engagement with CHADS has confirmed that in addition to the educational visits, there are approximately 1000 public visits to Trentside Meadows a year.</p> <p>Access to the site is limited to the more able-bodied visitors, as the site has not been as comprehensively adapted for disabled use in comparison to the Four Seasons Nature Study site (also owned by CHADS). In addition to this recreational use, Trentside Meadows is also used by CHADS for grazing of Gloucestershire cattle, on a low intensity rotation basis, who are reared for nature conservation interest. There are a number of fields within Trentside Meadows, as well as at Croxall and Yoxall. The income from the cattle management and subsidies is used to fund the remaining activities undertaken by the charity. CHADS has stated that without the income from the cattle management the charity may not be viable.</p>
Assessment year	Construction phase (2020+).
Impact 1: temporary significant visual and HGV effects	<p>Impact: 18.8ha of Trentside Meadows will be located in proximity to works to construct the River Trent viaduct. A site haul route will be located to the south of the River Trent viaduct, providing access to the River Trent viaduct satellite compound. The facility will also be affected by SES2 changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Visual: significant adverse effects as the construction of the River Trent viaduct will be highly prominent within mid distance views across the River Trent valley.</p> <p>HGV: there will be a significant number of HGVs passing within Trentside Meadows along the site haul route for up to two years and six months.</p> <p>Duration of impact: up to two years and six months.</p>
Assessment of magnitude	Medium: two significant residual environmental effects.
Relevant receptors	Users of the open space.
Assessment of sensitivity of receptor(s) to impact	High: the whole site will be impacted and therefore will not be able to absorb the change through relocating activities on site. Access to Trentside Meadows is available by appointment only, however as the users of Trentside Meadows have mobility issues they are less likely to be able to access nearby alternatives.
Significance rating of effect	Major adverse significant in-combination effect due to change to amenity, character and visitors' enjoyment of the open space as a result of significant visual and HGV effects.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	Major adverse significant in-combination effect due to change to amenity, character and visitors' enjoyment of the open space as a result of significant visual and HGV effects.

Residential properties north and south of Blithbury Road

Table 5: Residential properties north and south of Blithbury Road community impact assessment record sheet

Resource name	Eight residential properties north and south of Blithbury Road.
Community area	Fradley to Colton (CA1).
Resource type	Residential properties.
Resource description/profile	North and south of Blithbury Road, close to the junctions with Hadley Gate and Stonyford Lane, there is a cluster of eight residential properties. These are rural detached and semi-detached properties, many of which are linked to the running of farms. In addition, there is a committed development for a new barn conversion (16/00754/pnd) at Hadley Gate Farm.
Assessment year	Construction phase (2020+).
Impact 1: temporary significant noise, visual and HGV effects	<p>Impact: eight residential properties (including a new barn conversion 16/00754/pnd) located north and south of Blithbury Road will be located in proximity to works to construct the Blithbury Central cutting, Hadley Gate Lane diversion and Blithbury Road realignment. The 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: significant daytime noise effects at eight residential properties for between four months and two years and eight months due to site establishment (including demolitions), utility diversions, earthworks, movement of vehicles along the site haul roads and vehicles on Blithbury Road/Hollow Lane.</p> <p>Visual: significant adverse effects will be experienced due to foreground views of the diversion of Hadley Gate Lane and mid-ground views of the construction of Blithbury Central cutting, Blithbury Road realignment, associated overbridge and stockpiles of materials.</p> <p>HGV: there will be a significant number of HGVs passing the properties on Blithbury Road for up to two years and eight months due to a haul route near Blithbury Road.</p> <p>Duration of impact: up to two years and eight months.</p>
Assessment of magnitude	High: three significant residual environmental effects.
Relevant receptors	Residents of the properties.
Assessment of sensitivity of receptor(s) to impact	High: residential properties and their occupants are identified as being highly sensitive.
Significance rating of effect	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.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	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.

Residential properties in Stockwell Heath

Table 6: Residential properties in Stockwell Heath community impact assessment record sheet

Resource name	12 residential properties in Stockwell Heath.
Community area	Fradley to Colton (CA1).
Resource type	Residential properties.
Resource description/profile	Stockwell Heath is a small rural village located north of Colton with 10 existing residential properties and two proposed dwellings (16/00462/COU and 17/01412/COU). Stockwell Heath is closely linked with Colton, with the majority of local services for the residents located in Colton. Moor Lane and Newlands Lane link the two villages. The residential properties in Stockwell Heath are predominantly detached in various styles. There is a duck pond located at the centre of the village between Newlands Lane and Moor Lane.
Assessment year	Construction phase (2020+).
Impact 1: temporary significant noise, visual and HGV effects	<p>Impact: the residential properties in Stockwell Heath (including the proposed dwellings) will be located in proximity to works to construct the Stockwell Heath embankment, Newlands Lane realignment and Moor Lane diversion. A site haul route will be located to the north of the HS2 route. The properties will also be affected by SES2 changes to construction. These works will result in the following environmental effects:</p> <p>Noise: significant daytime noise effects at all properties for between one year and eight months and three years and three months due to site establishment, earthworks, overbridge construction, and movement of vehicles along the site haul roads.</p> <p>Visual: significant adverse effects will be experienced due to views from all the properties of the construction of the above elements, stockpiles of materials and the movement of construction vehicles along the site haul route.</p> <p>HGV: there will be a significant number of HGVs passing all the properties along the site haul route for up to two years and five months.</p> <p>Duration of impact: up to three years and three months.</p>
Assessment of magnitude	High: three significant residual environmental effects.
Relevant receptors	Residents of the properties.
Assessment of sensitivity of receptor(s) to impact	High: residential properties and their occupants are identified as being highly sensitive.
Significance rating of effect	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.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	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.

The duck pond in Stockwell Heath

Table 7: The duck pond in Stockwell Heath community impact assessment record sheet

Resource name	The duck pond in Stockwell Heath.
Community area	Fradley to Colton (CA1).
Resource type	Open space.
Resource description/profile	Stockwell Heath is a small rural village located north of Colton with 10 existing residential properties and two proposed dwellings (16/00462/COU and 17/01412/COU). Stockwell Heath is closely linked with Colton, with the majority of local services for the residents located in Colton. Moor Lane and Newlands Lane link the two villages. The residential properties in Stockwell Heath are predominantly detached in various styles. There is a duck pond located at the centre of the village between Newlands Lane and Moor Lane.
Assessment year	Construction phase (2020+).
Impact 1: temporary significant visual and HGV effects	<p>Impact: The duck pond in Stockwell Heath will be located in proximity to works to construct the Stockwell Heath embankment, Newlands Lane realignment and Moor Lane diversion. A site haul route will be located to the north of the HS2 route. The facility will also be affected by SES2 changes to construction traffic flows. These works will result in the following environmental effects:</p> <p>Visual: significant adverse effects will be experienced due to views of the construction of the above elements, stockpiles of materials and the movement of construction vehicles along the site haul route.</p> <p>HGV: there will be a significant number of HGVs passing the facility along the site haul route for up to two years and five months.</p> <p>Duration of impact: up to two years and five months.</p>
Assessment of magnitude	Medium: two significant residual environmental effects.
Relevant receptors	Users of the open space.
Assessment of sensitivity of receptor(s) to impact	High: there are no alternative open spaces in Stockwell Heath or Colton. Access has not been available to undertake surveys, however it is assumed that the open space is of good quality and well used.
Significance rating of effect	Major adverse significant in-combination effect due to change to amenity, character and users' enjoyment of the open space as a result of significant visual and HGV effects.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	Major adverse significant in-combination effect due to change to amenity, character and users' enjoyment of the open space as a result of significant visual and HGV effects.

3 Part 2: Additional Provision 2 Environmental Statement

3.1 Community impact assessment record sheets – construction Residential properties subject to non-significant land take

Table 8: Residential properties subject to non-significant land take community impact assessment record sheet

Resource name	Area-wide residential properties.
Community area	Fradley to Colton (CA1).
Resource type	Residential properties.
Resource description/profile	Residential properties located close to the land required for the AP2 revised scheme.
Assessment year	Construction phase (2020+).
Impact 1: temporary loss of land	<p>Minor utility works 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"> Echills Farm, off A513 Kings Bromley Lane, due to additional land for the permanent underground diversion of a Western Power Distribution 11kV underground cable north-west of Echills Farm (AP2-001-101); Pipe Lane Farm, on Pipe Lane, due to additional land for the permanent underground diversion of Western Power Distribution 11kV overhead cable near Pipe Lane Farm (AP2-001-106); and Stoneyford House, on Blithbury Road, due to additional land for the permanent underground diversion of Western Power Distribution 11kV overhead cable from Hadley Gate Farm to near Stoneyford House (AP2-001-107). <p>Duration of impact: up to three months.</p>
Assessment of magnitude	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.
Relevant receptors	Residents of the properties.
Assessment of sensitivity of receptor(s) to impact	High: residential properties and their occupants are identified as being highly sensitive.
Significance rating of effect	Minor adverse effect, which is not significant.
Proposed mitigation options for significant effects	No mitigation proposed.
Residual effect significance rating	Minor adverse effect, which is not significant.

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>.

High Speed Two (HS2) Limited
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

08081 434 434
HS2Enquiries@hs2.org.uk
www.hs2.org.uk