

High Speed Rail (Crewe – Manchester)

Background information and data accompanying SES1 and AP1 ES

Land quality

BID LQ-002-00000 SES1 and AP1 ES

Land quality baseline data

MA01: Hough to Walley's Green

MA02: Wimboldsley to Lostock Gralam

MA03: Pickmere to Agden and Hulseheath

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Department for Transport

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1 Introduction

- 1.1.1 This report presents land quality baseline data highlighting areas of contamination originating from historical and current land use, and mineral and geoconservation resources used in the Supplementary Environmental Statement 1 (SES1) and Additional Provision 1 Environmental Statement (AP1 ES)¹. This report covers the following community areas (CA):
- Hough to Walley's Green (MA01);
 - Wimboldsley to Lostock Gralam (MA02); and
 - Pickmere to Agden and Hulseheath (MA03).
- 1.1.2 This document details land quality baseline data not reported in the Background Information and Data (BID) documents² (the main BID land quality reports) that accompanied the High Speed Two (HS2) High Speed Rail (Crewe – Manchester) Environmental Statement (ES)³ published in 2022 (the main ES).
- 1.1.3 This report is structured into two parts: Part 1 – data used in the SES1, and Part 2 – data used in the AP1 ES, and should be read in conjunction with the SES1 and AP1 ES Land quality report (see SES1 and AP1 ES¹, Volume 5, Appendix: LQ-001-00000).
- 1.1.4 Maps referred to throughout this report are contained in the SES1 and AP1 ES Volume 5 Map Book: Map Series LQ-01. Sites carried through to assessment are given a reference number. In this report they are referred to as MA02-46 and on the maps they are referred to as 02-46.
- 1.1.5 The Environmental Impact Assessment Scope and Methodology Report (SMR)⁴ (see main ES, Volume 5: Appendix CT-001-00001) should be referred to for details of the land quality assessment methodology.

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement*. Available online at:

<https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-1-and-additional-provision-1-environmental-statement>.

² High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

³ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

⁴ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Environmental Impact Assessment Scope and Methodology Report*, Volume 5, Appendix CT-001-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

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1.1.6 In order to differentiate between the original scheme and the subsequent changes, the following terms are used:

- ‘the original scheme’ – the Bill scheme submitted to Parliament in January 2022, which was assessed in the main ES;
- ‘the SES1 scheme’ – the original scheme with any changes described in the SES1 that are within the existing powers of the Bill; and
- ‘the AP1 revised scheme’ – the original scheme as amended by the SES1 changes and AP1 amendments.

Part 1: Supplementary Environmental Statement 1

2 Receptor information

- 2.1.1 This section details any additional receptors that have been identified through a review of additional baseline data since the main ES and the main BID reports. It also details any additional receptors that have been identified as a result of changes to committed developments. Section 7 details identified receptors that are relevant to AP1 amendments.
- 2.1.2 The receptor data reported in the main ES and the main BID reports remain the same with the exceptions detailed in the following paragraphs.
- 2.1.3 Additional committed developments relevant to the land quality topic are considered as part of the future baseline. The proposed development of a large residential development (reference MA01/454S in Planning data, see the SES1 and AP1 ES Volume 5, Appendix: CT-004-00000¹) adjacent to the land required for the construction of the original scheme in Crewe introduces an additional residential receptor into Table 8 in the main BID Land quality baseline report (BID LQ-002-0MA01), which accompanied the main ES.
- 2.1.4 Due to new baseline data relating to Local Wildlife Sites (LWS), additional LWS are now also present within the land quality study area. The new LWS introduces the following additional receptors:
- Heath Farm Marshy Grassland LWS which is located in the study area to the south of Crewe set out in Table 8 in the main BID Land quality baseline report (BID LQ-002-0MA01) and Tables 10, 19, 26 and 34 in Volume 5, Appendix: LQ-001-0MA01 of the main ES; and
 - Bank Hall Farm Flush LWS which is located in land required for the AP1 revised scheme to south-east of Bostock Hall set out in Table 5 in the main BID Land quality baseline report (BID LQ-002-0MA02) of the main ES and Tables 7, 23, 39 and 55 in Volume 5, Appendix: LQ-001-0MA02 of the main ES.

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3 Minerals data

- 3.1.1 No additional minerals data from that reported in the main ES or the main ES BID reports (see BID LQ-002-0MA01 to BID LQ-002-0MA03) and Volume 2, Community Area reports: MA01 to MA03 are present in any of the study areas.

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4 Geological Sites of Special Scientific Interest and Local Geological Sites

- 4.1.1 No additional geological Sites of Special Scientific Interest (SSSI) or Local Geological Sites (LGS) from those reported in the main ES or the main ES BID reports (see BID LQ-002-0MA01 to BID LQ-002-0MA03) and Volume 2, Community Area reports: MA01 to MA03 are present in any of the study areas.

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5 Other sources of data and information

5.1.1 Other sources of baseline data and information reviewed include regulatory data relating to environmental permits, pollution incidents and other indicators of possible land contamination sources.

5.2 Other regulatory data

5.2.1 Since the main ES and the main BID reports, environmental regulatory data has been updated and reviewed. Regulatory data reviewed includes information on pollution incidents (major, significant and minor categories), radioactive and hazardous substances consents, environmental permits (previously integrated pollution control and integrated pollution prevention and control licences), and ecological receptors.

5.2.2 Details of updated baseline data are provided in Table 1, Table 2 and Table 3 below.

Table 1: Summary of other regulatory data in the Hough to Walley's Green study area (MA01)

Data	Description
Pollution incidents to controlled waters	One additional incident on the substantiated pollution incident register. This is recorded as an incident to the Gresty Brook in Crewe within land required for the SES1 scheme and resulting in a significant impact on water.
Discharge consents	Environment Agency data indicate that there is one additional active discharge consent to surface water within the original scheme study area. This is associated with storm tanks or combined stormwater overflow to the Leighton Brook.
Environmental permits	There are two additional petrol station licensed sites as well as two additional integrated pollution prevention and control permits (Environmental Permits) associated with food manufacture in the land required for the SES1 scheme.
Local Wildlife Sites (LWS)	One additional LWS in overall study area.

Table 2: Summary of other regulatory data in the Wimboldsley to Lostock Gramam study area (MA02)

Data	Description
Control of Major Accident Hazards (COMAH) sites	This COMAH address for Holford H165 Gas Storage Cavity has been updated. The updated address point shows it to be within the study area approximately 1.1km to the east of the SES1 scheme, but it is now 300m further north-east than in data assessed for the original scheme. It is considered that the location of the gas storage facility itself remains unchanged.
Pollution incidents to controlled waters	There were an additional 12 minor and two significant pollution incidents to controlled waters reported within the study area between 1991 and 2016. All of these relate to the new study area associated with the M6 around Holmes Chapel.
	Significant

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Data	Description
	<p>1993 – Westway Brook, Holmes Chapel. It involved the release of industrial (general) pollutants.</p> <p>1994 – tributary to the River Croco west of Wimboldsley Grange. It involved the release of sewage.</p> <p>There were also two additional incidents on the substantiated pollution incident register. One major incident in the study area at Billinge Flashes and one significant incident in the study area to the Trent and Mersey Canal to the west of Lostock Lime Beds. The incidents took place between 2017 and 2020; the type of pollutant was not recorded.</p>
Discharge consents	Environment Agency data indicate that there is a single additional discharge consent to surface water within the study area. This relates to sewage discharge to the River Wheelock.
Environmental permits	There is one additional petrol station, as well three local authority pollution prevention and control permits in the study area. These are all located in the Holmes Chapel area and relate to a single fuel filling station and gas governing station on the A54 Middlewich Road.
Local Wildlife Sites (LWS)	One additional LWS in overall study area and one in land required for the SES1 scheme.

Table 3: Summary of other regulatory data in the Pickmere to Agden and Hulseheath study area (MA03)

Data	Description
Discharge consents	Environment Agency data indicate that there are an additional three discharge consents to surface water within the study area. These relate to the sewage discharge to an unknown tributary of Rostherne Brook east of Mere and two discharges to groundwater from remediation schemes in the study area west of Mere.

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6 Site visit records

6.1.1 No site visits were carried out for the SES1 scheme.

Part 2: Additional Provision 1 Environmental Statement

7 Receptor information

- 7.1.1 This section provides further receptor information for sites that have been evaluated in stages C and D of the land quality assessment and assessed for the study area (see Volume 5, Appendix: LQ-001-0MA01 to LQ-001-0MA03 of the main ES).
- 7.1.2 Only one site has been identified; an off-site garage workshop. Further information on receptors relevant to this site can be found in Table 4.
- 7.1.3 For clarity, 'on-site' in this report means 'within the land required for the construction of the AP1 revised scheme and 'off-site' refers to land beyond this boundary, but within the study area.

Table 4: Receptors – garage workshop (off-site)

Site title (Site ID)	Sensitive land use (human receptor)	Aquifer designation	Surface watercourse	Geological and ecological designations	Property e.g. buildings and structures	Geoconservation sites
Garage workshop (MA01-195)	Site workers and visitors (existing site users) Residents, walkers and farm workers (adjacent site users*)	Secondary Undifferentiated aquifer – glacial till Secondary B aquifer – Sidmouth Mudstone Formation	None	None	Garage buildings (existing) Residential properties (adjacent)	None

* adjacent site receptors located within the land required for the construction of the AP1 revised scheme (on-site) and are therefore removed from the construction stage assessment. This applies to human and property receptors only.

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8 Minerals data

- 8.1.1 No additional minerals data from that reported in the main BID reports (see BID LQ-002-0MA01 to BID LQ-002-0MA03) and Volume 2, Community Area reports: MA01 to MA03 of the main ES are present in any of the study areas.

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9 Geological Sites of Special Scientific Interest and Local Geological Sites

- 9.1.1 No additional geological Sites of Special Scientific Interest (SSSI) or Local Geological Sites (LGS) from those reported in the main BID report (see BID LQ-002-0MA01 to BID LQ-002-0MA03) and Volume 2, Community Area reports: MA01 to MA03 of the main ES are present in any of the study areas.

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10 Other sources of data and information

10.1 Other regulatory data

- 10.1.1 Regulatory data presented in Part 1 includes information on pollution incidents, consents, environmental permits and ecological receptors and will also be relevant to the AP1 revised scheme.

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11 Site visit records

11.1.1 No site visits were carried out for the AP1 revised scheme.

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12 References

High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

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