In Parliament – Session 2022 - 2023

# High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

**Volume 5: Map Book** Land quality (LQ-01)



**S78** 

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**Volume 5: Map Book** Land quality (LQ-01)

# HS2



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

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#### Contents

Mapping explanatory notes

Data dictionary and definitions

Map series name	LQ-01 – Land Quality
Map series description	This Land Quality mapping shows potential sources of existing operational landfill sites, current and potential future minin
Community Area name	
MA01 Hough to Walley's Green	$\checkmark$
MA02 Wimboldsley to Lostock Gralam	$\checkmark$
MA03 Pickmere to Agden and Hulseheath	$\checkmark$
MA06 Hulseheath to Manchester Airport	$\checkmark$
MA07 Davenport Green to Ardwick	$\checkmark$
MA08 Manchester Piccadilly Station	$\checkmark$
ORW1 Preston Station (PSTN)	
ORW2 Carlisle Station (CSTN)	
ORW3 Annandale Depot (ADEP)	$\checkmark$

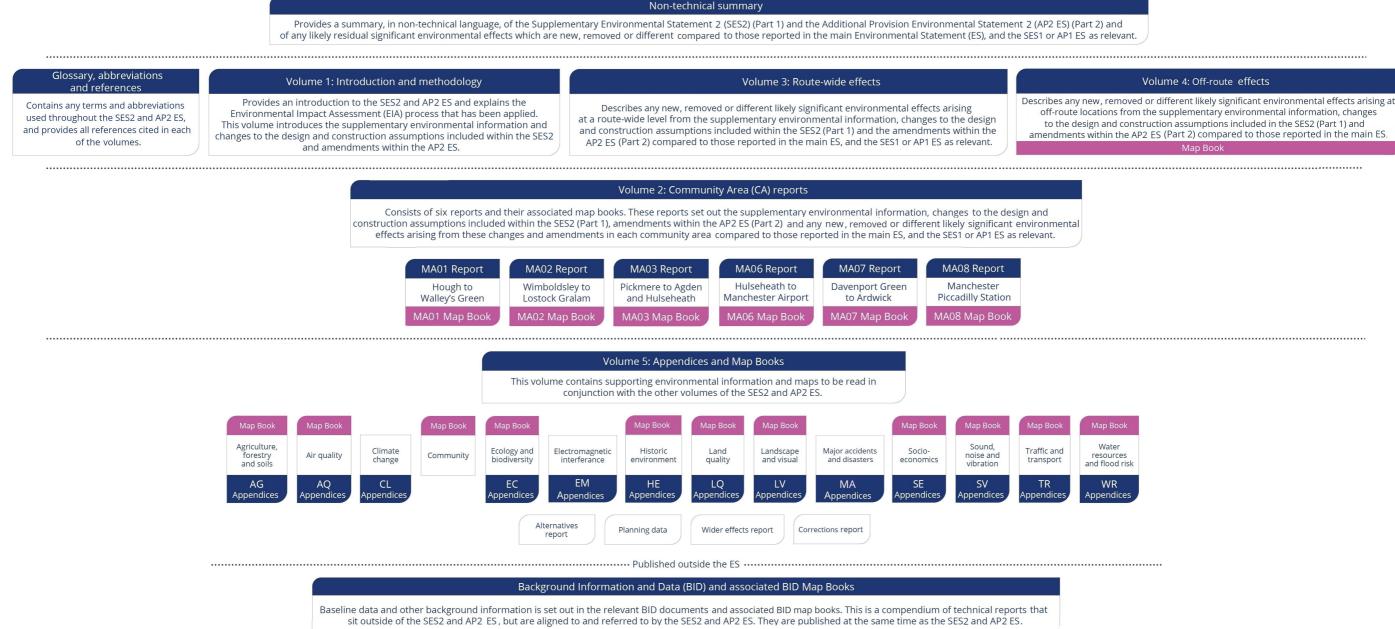
ng contamination close to the route as well as historical and ning or mineral exploitation and geo-conservation sites.

#### Mapping explanatory notes

#### Structure of the Supplementary Environmental Statement 2 and the Additional Provision 2 Environmental **Statement**

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 2 (SES2) and the Additional Provision 2 Environmental Statement (AP2 ES) for the High Speed Rail (Crewe – Manchester) scheme. The SES2 and the AP2 ES are separate documents; however, they are bound together and presented in a number of volumes shown in the figure below.





#### **Copyright statements**

Copyright statements are presented in the data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

#### **Ordnance Survey data**

All maps produced as part of the SES2 and AP2 ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

#### Chainage

Most of the maps presented as part of the SES2 and AP2 ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+YYY, e.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres, e.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependent on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales, and therefore, showing differing amounts of alignment on the map.

#### Map sheet layout

Each map in Volume 2 is presented twice, with the main ES map (In Parliament - Session 2021 - 2022) on the left-hand page and the SES2 and the AP2 ES map on the right. For the CT-05 and CT-06 map series, the SES2 and the AP2 ES is shown with different coloured hatching, annotated with labels, which highlights the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES2 and the AP2 ES reference number. In some instances where the effect covers a large area, a box without hatching but with a label, is shown. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by hatching.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES2 and the AP2 ES reference number. For more detailed information about the SES2 and the AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map book. Changes to receptors or significant effects relating to SES1 or AP1 ES are also provided for reference. Where this is the case they are shown in a faded box.

Where a significant effect has been changed due to a correction to mapping produced in the main ES or previous SES/AP, the significant effect reference is suffixed with a double asterisk (\*\*). The map now shows the correct effect.

#### **Map orientation**

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Manchester to the right.

The exception to this, are map series LV-00, LV-02, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Manchester to the top.

Further details on the approach to mapping is set out in Section 6 of Volume 1 of the SES2 and AP2 ES.

#### Map books

In total, there are 19 map books included in the SES2 and AP2 ES Volume 2, Volume 4 and Volume 5. A list of the map book titles and map series is provided below for reference.

Map book title (map series)	Map book title (map series)
Volume 2: Map Book – MA01: Hough to Walley's Green (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Planning Data / Committed Developments (CT-13)
Volume 2: Map Book – MA02: Wimboldsley to Lostock Gralam (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Ecology and biodiversity (EC-01)
Volume 2: Map Book – MA03: Pickmere to Agden and Hulseheath (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Historic environment (HE-01, HE-02)
Volume 2: Map Book – MA06: Hulseheath to Manchester Airport (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map Book – Land quality (LQ-01)
Volume 2: Map Book – MA07: Davenport Green to Ardwick (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04)	Volume 5: Map Book – Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map Book – MA08: Manchester Piccadilly Station (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Socio-economics (SE-01)
Volume 4: Off-route effects map book	Volume 5: Map Book – Sound, noise and vibration (SV-02, SV-03, SV-08, SV-09)
Volume 5: Map Book – Agriculture, forestry and soils (AG-01, AG-04)	Volume 5: Map Book – Traffic and transport (TR-01, TR-03, TR-04, TR-08)
Volume 5: Map Book – Air quality (AQ-01)	Volume 5: Map Book – Water resources and flood risk (WR-01, WR-03, WR-05, WR-06)
Volume 5: Map Book – Community (CM-01)	

### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Data dictionary and definitions



#### Data dictionary and definitions

Legend features	Definition	Source
Active Salt Mine/Brine Extraction Site/Brinefield	Areas of land that are currently being worked (or have previously been worked) for salt resources.	Cheshire East Council and Cheshi West and Chester Council
Areas assessed as not posing a contaminative risk in relation to the Proposed Scheme	Areas of land assessed from existing baseline information such as historical mapping, as not posing a potential contaminative risk to the Proposed Scheme.	High Speed Two (HS2) Ltd
Areas assessed as potentially posing a contaminative risk in relation to the Proposed Scheme	Areas of land assessed from existing baseline information such as historical mapping, as potentially posing a potential contaminative risk to the Proposed Scheme. These sites do not automatically equate to identified 'potentially contaminated land' as defined by EPA 1990.	High Speed Two (HS2) Ltd
Community area boundary	The Environmental Statement has been split into sections called Community Areas.	High Speed Two (HS2) Ltd
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey
Geoconservation sites	Identified and managed site of geological or geomorphological or mineral interest, which can include natural processes such as coastal erosion, and where consideration of their importance becomes integral to the planning process.	Cheshire East council
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	

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	Council.
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	permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
	© Cheshire East council (2016).

Legend features	Definition	Source	Copyright
Landfill site (historical or active)	An active landfill is one that is currently receiving waste and / or where an environmental permit is in force.	Environment Agency	© Environment Agency copyright and/or database right 2022. All rights reserved.
Mineral Safeguarding Areas	An area designated by minerals planning authorities which covers known deposits of minerals which are desired to be kept safeguarded from unnecessary sterilisation by non-mineral development.	British Geological Survey (BGS)	Reproduced with the permission of the British Geological Survey ©NERC. All rights reserved.
Petroleum Exploration and Development Licence (PEDL)	An area covered by a PEDL grants the licensee exclusivity over that area for onshore hydrocarbon exploration, appraisal and extraction.	Department for Business, Energy & Industrial Strategy	Contains information provided by the OGA.
Preferred Extension/Area to Controlled Brinefield or Salt Mine	Areas of land that have been identified by the local Minerals Authority to warrant protection for future exploitation of known salt resources.	Cheshire East Council and Cheshire West and Chester Council	© Cheshire East Council. © Cheshire West and Chester Council.
Registered park/garden	Parks and Gardens of special historic interest. Supplied by Historic England. Of the 1,590 Registered Parks and Gardens, over 91% were captured against the 1:10,000 Ordnance Survey Raster product. 135 records are potentially subject to movement under Positional Accuracy Improvement (PAI) improvements.	Historic England	© Historic England 2022. Contains Ordnance Survey data © Crown copyright and database right 2022 The Historic England GIS Data contained in this material was obtained on 4 July 2022. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk.
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Shale Prospective Area (SPA)	An area identified by the British Geological Survey as having the greatest potential for shale gas to be present.	Department for Business, Energy & Industrial Strategy	Contains information provided by the OGA.
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2022.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2022.

Legend features	Definition	Source
Woodland	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey

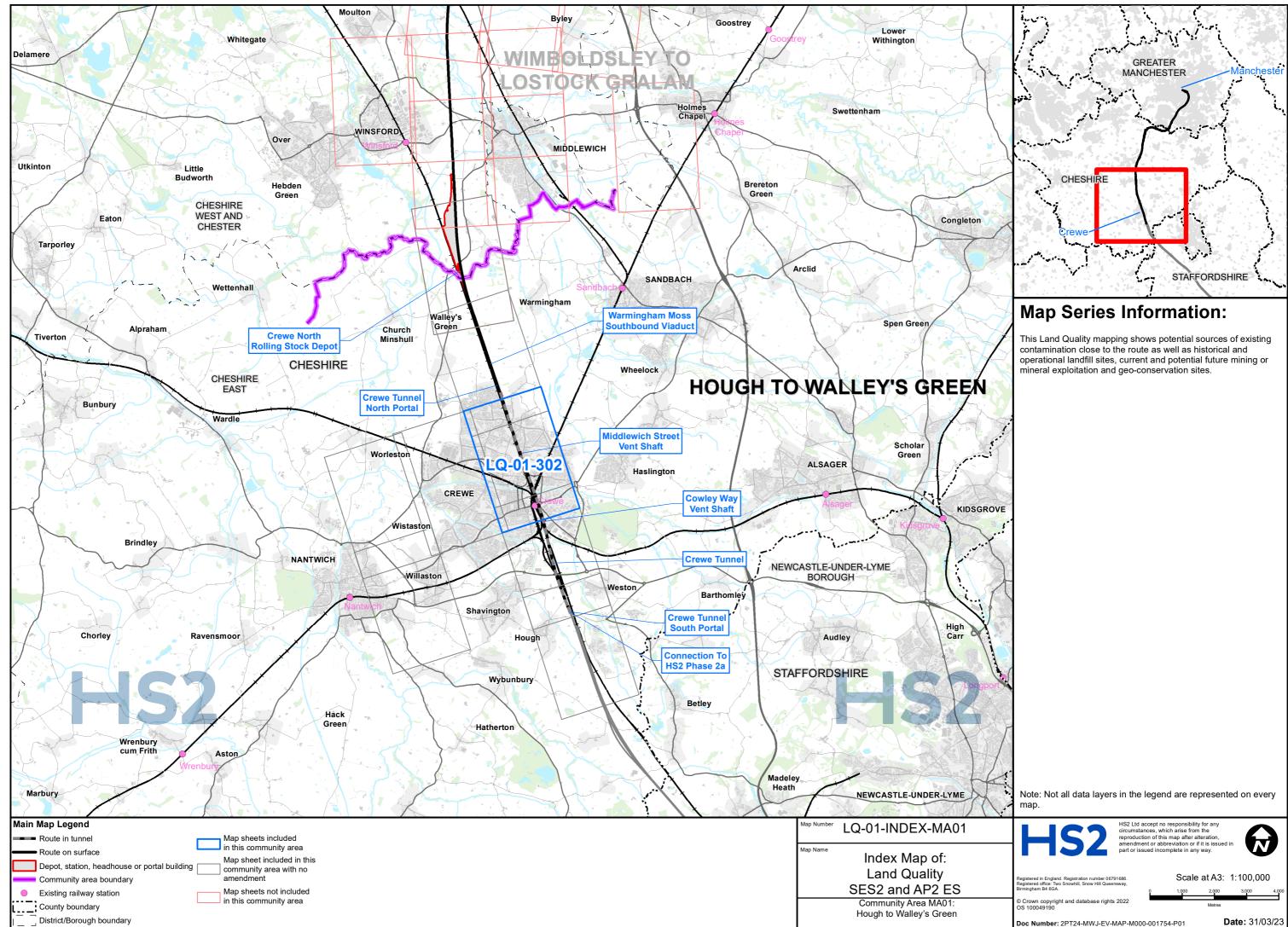
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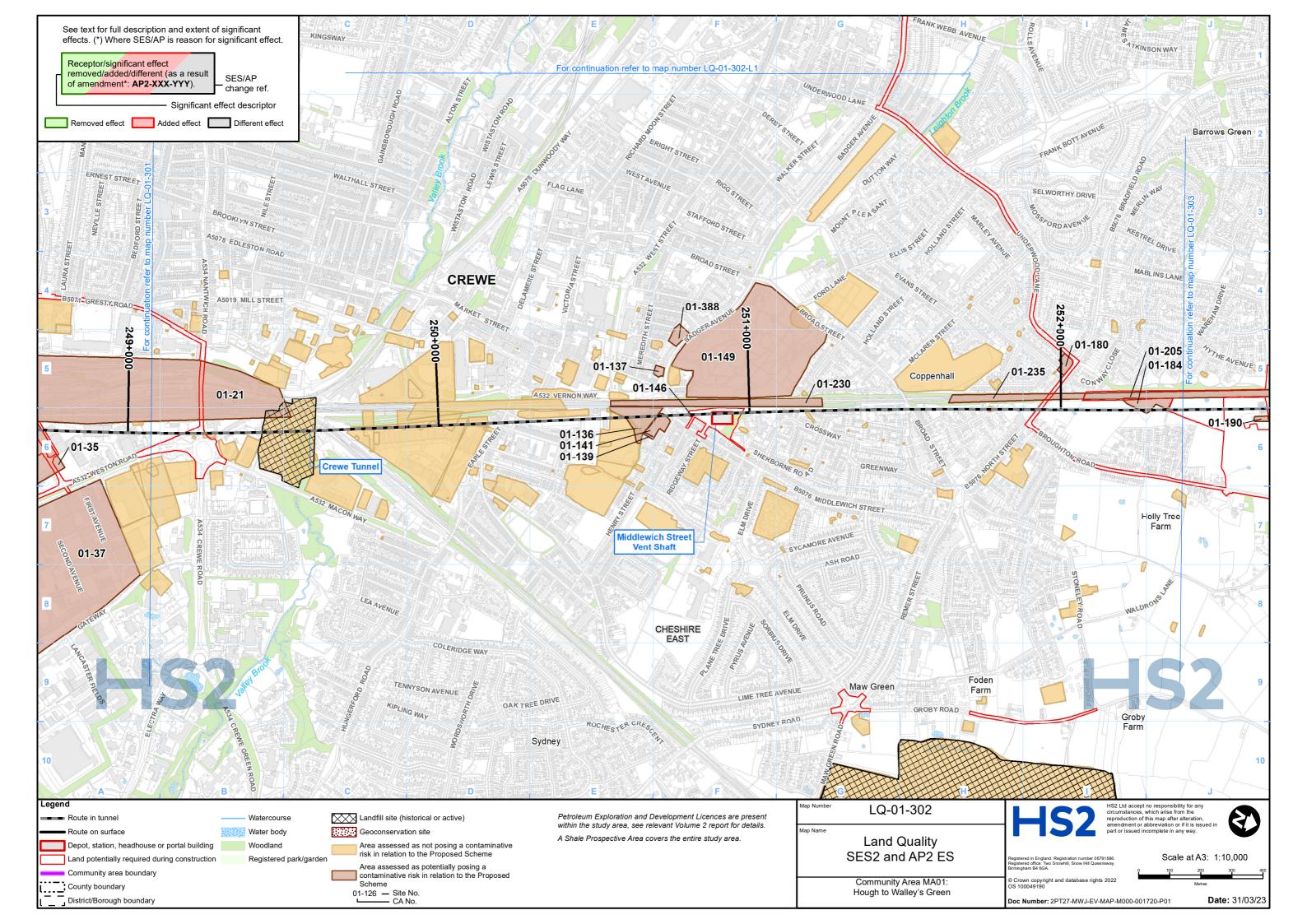
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### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA01: Hough to Walley's Green LQ-01 – Land Quality





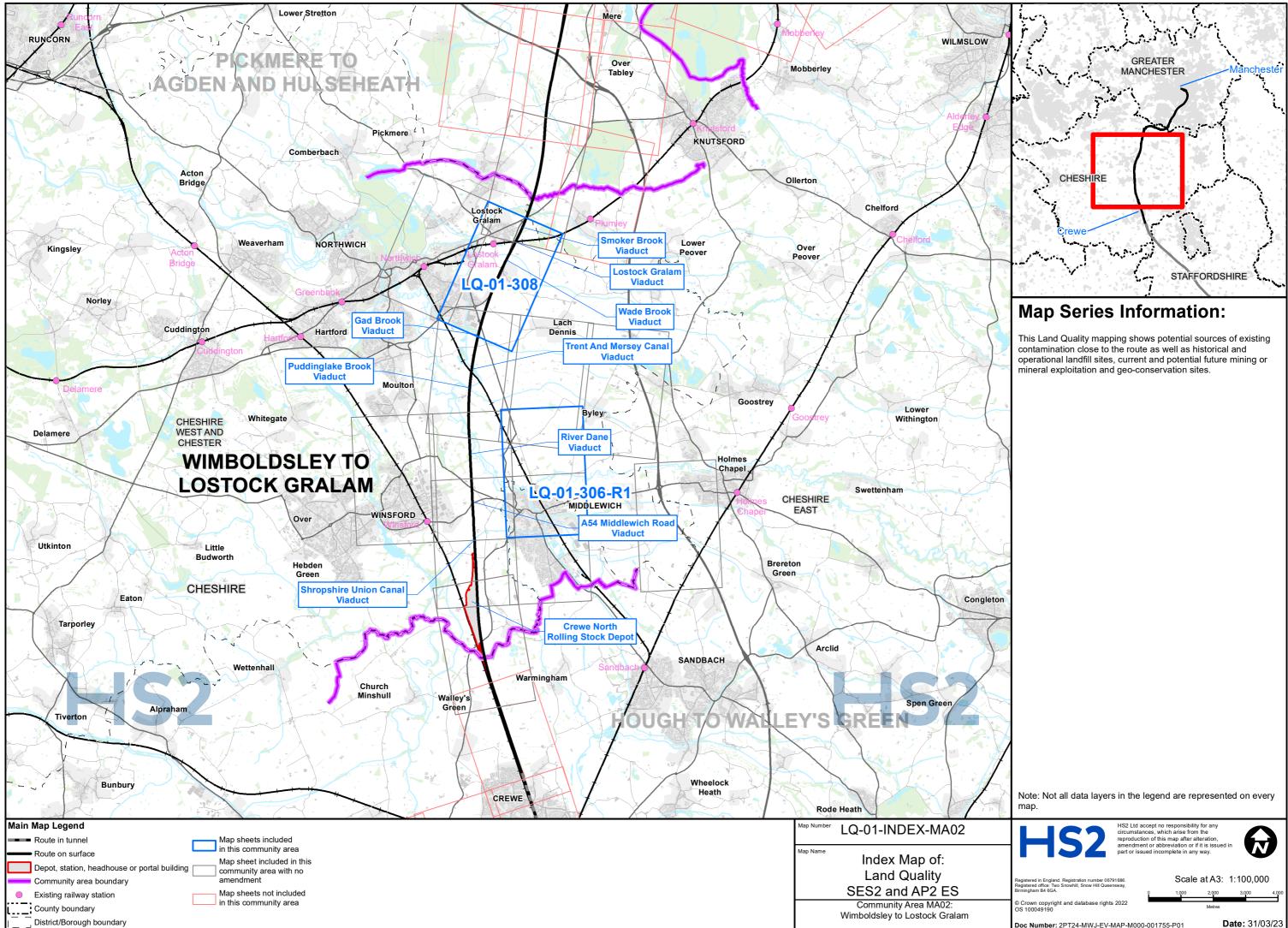


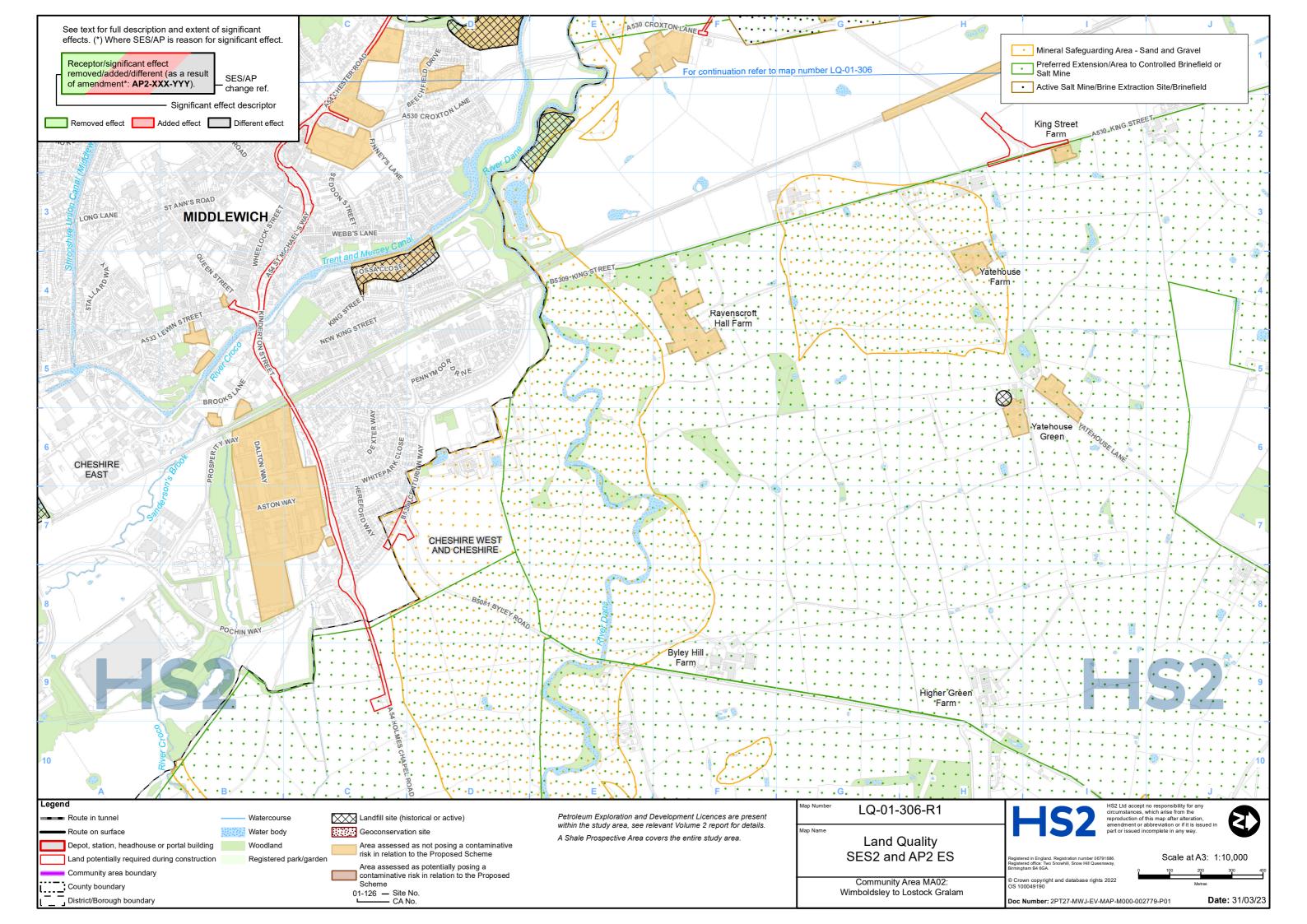
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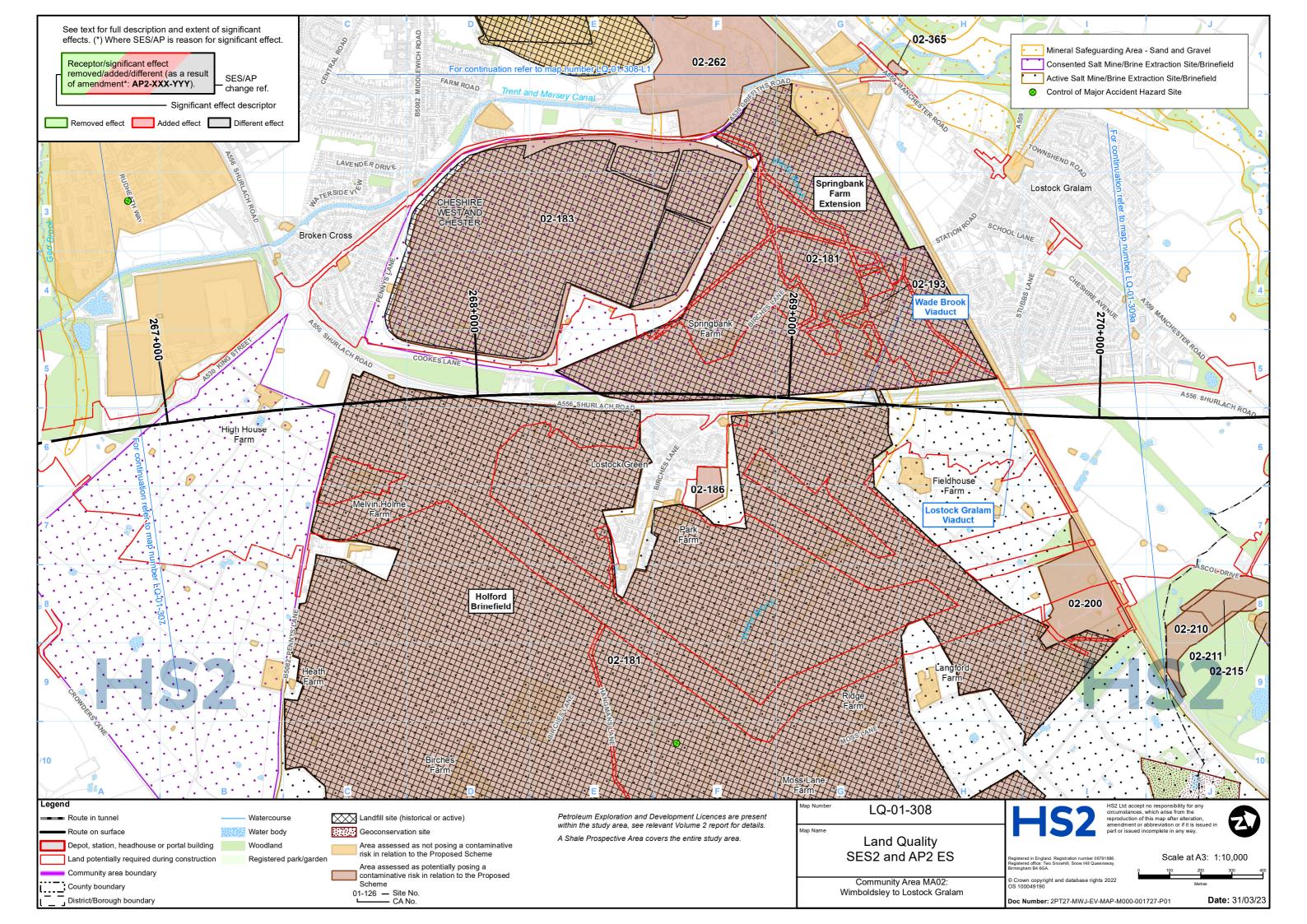
### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA02: Wimboldsley to Lostock Gralam LQ-01 – Land Quality





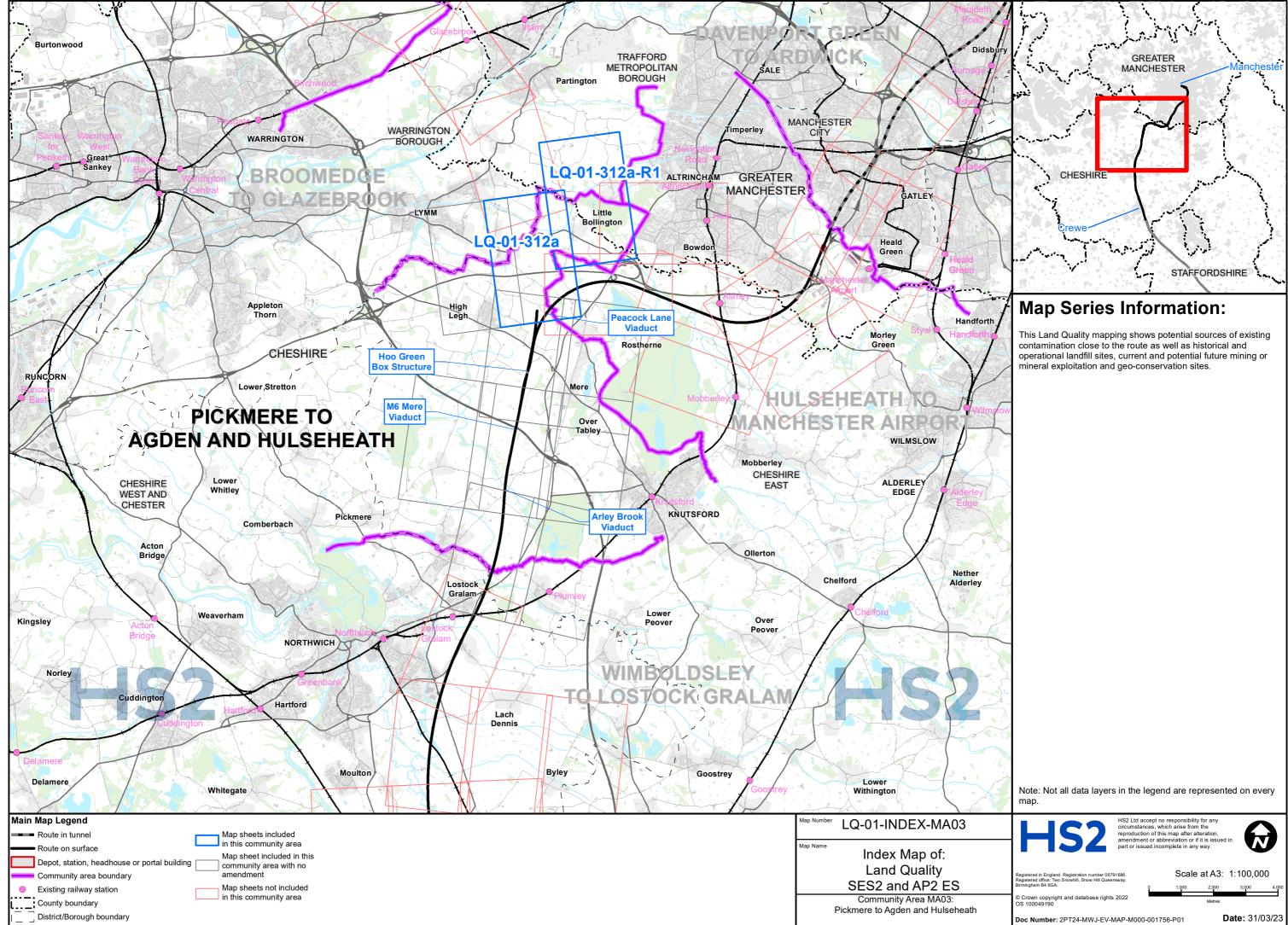


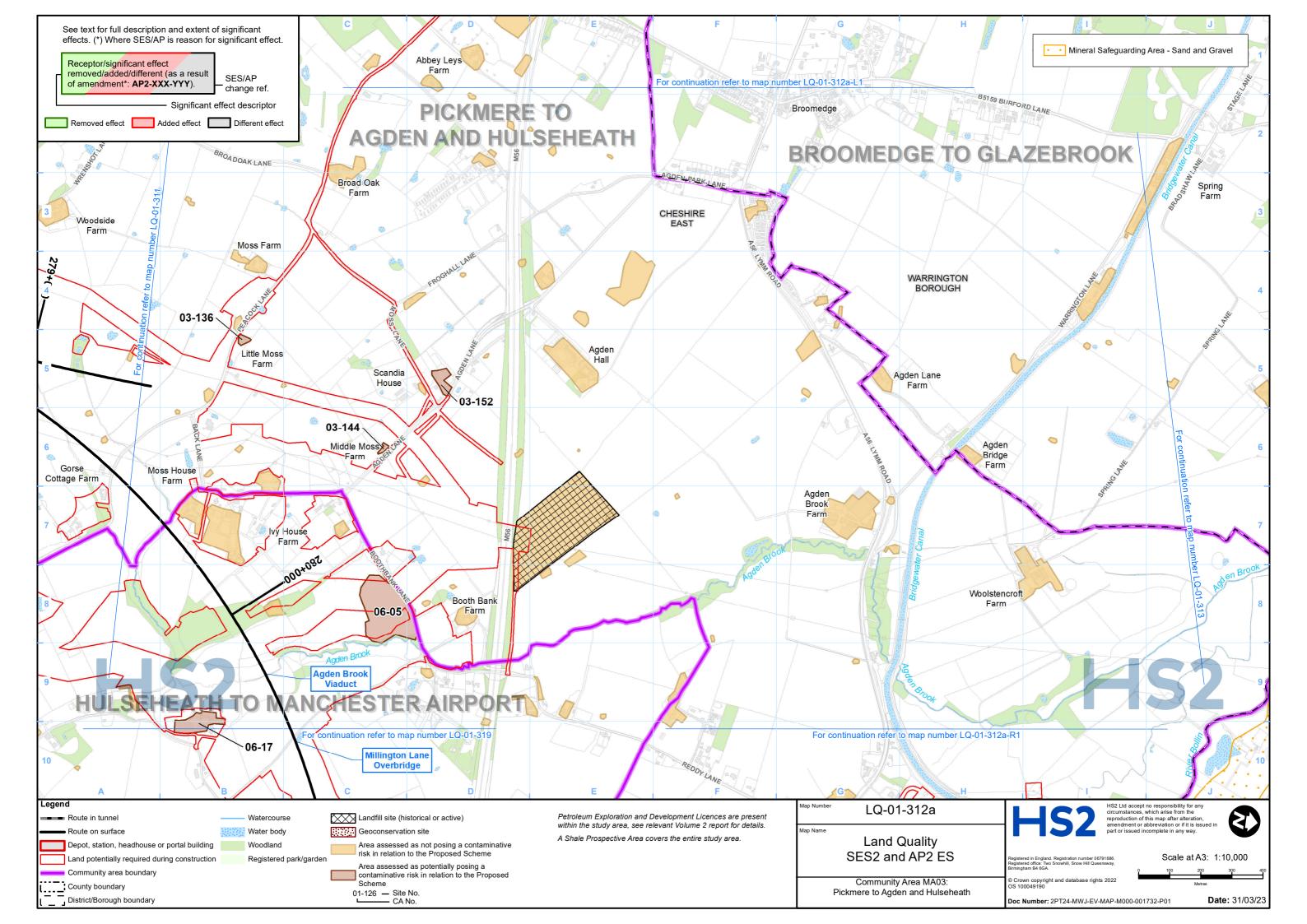


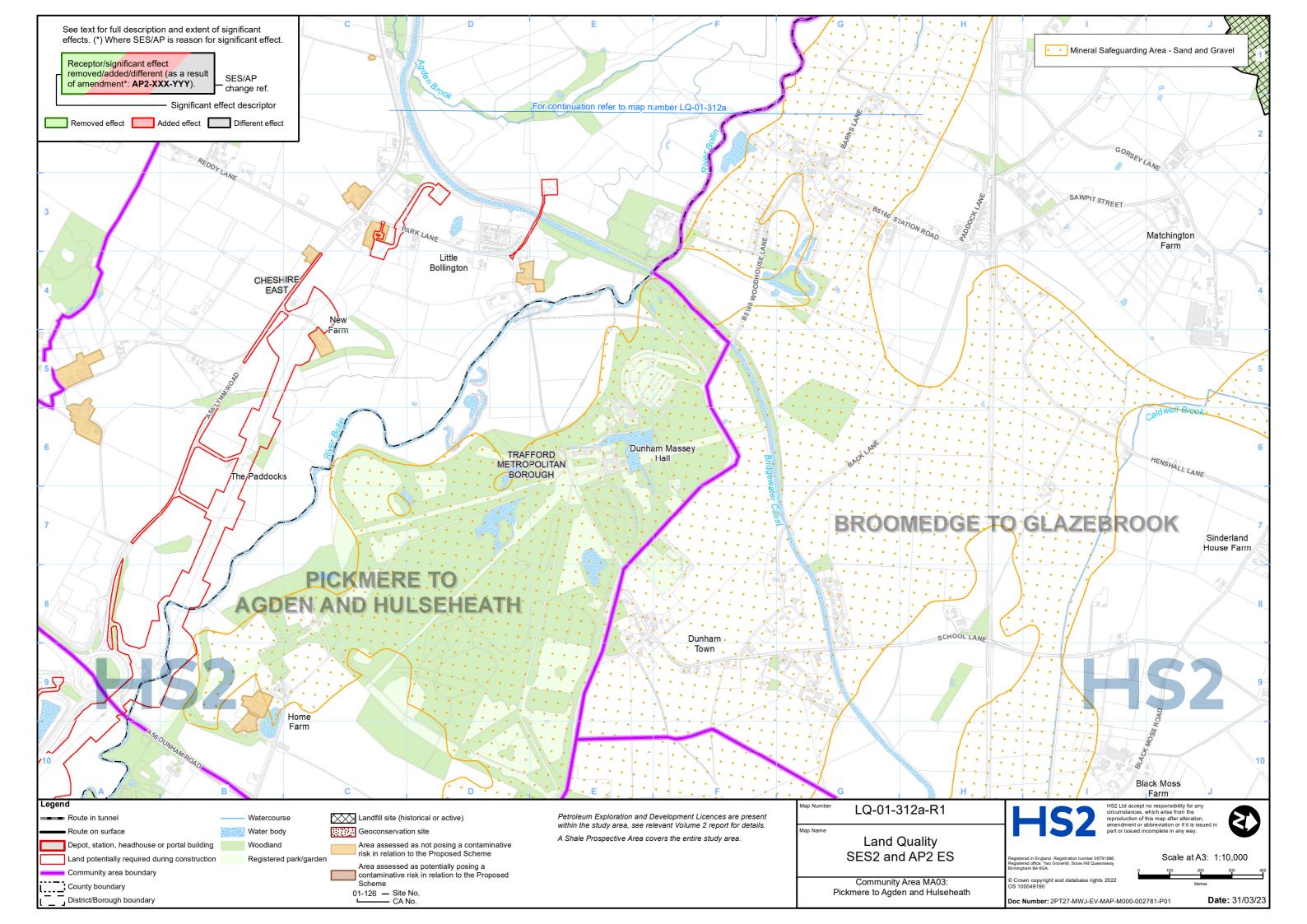
### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA03: Pickmere to Agden and Hulseheath LQ-01 – Land Quality





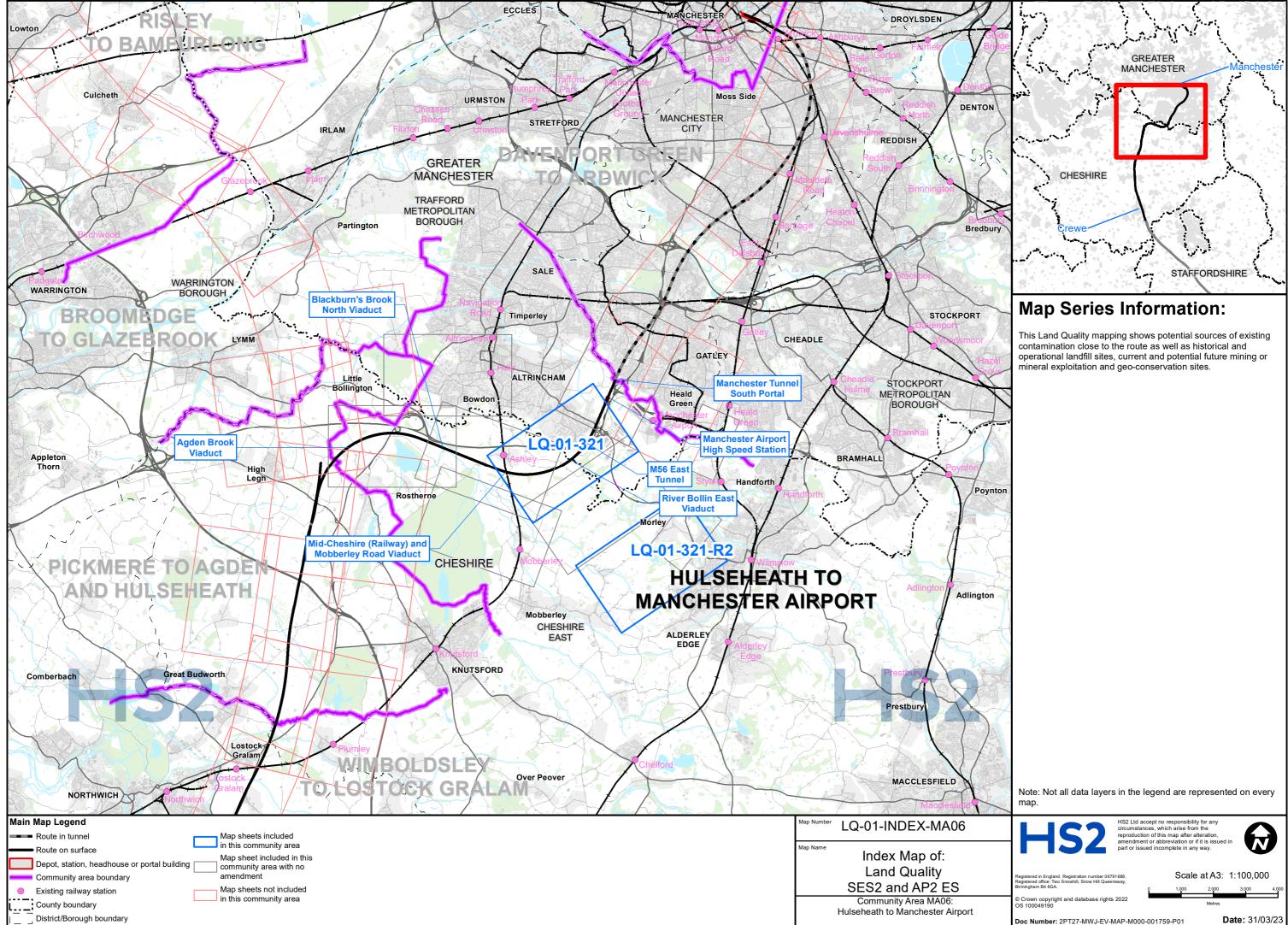


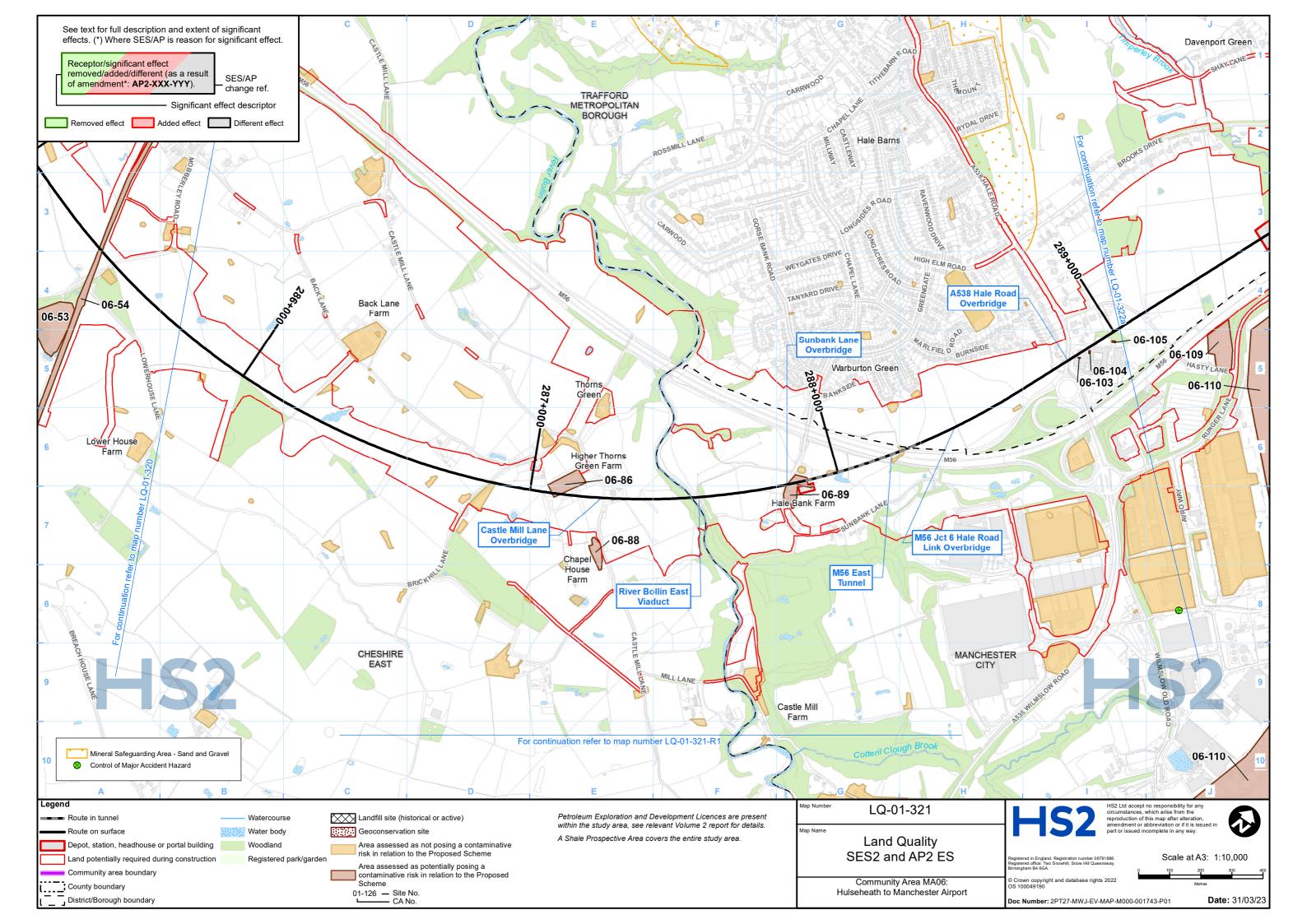


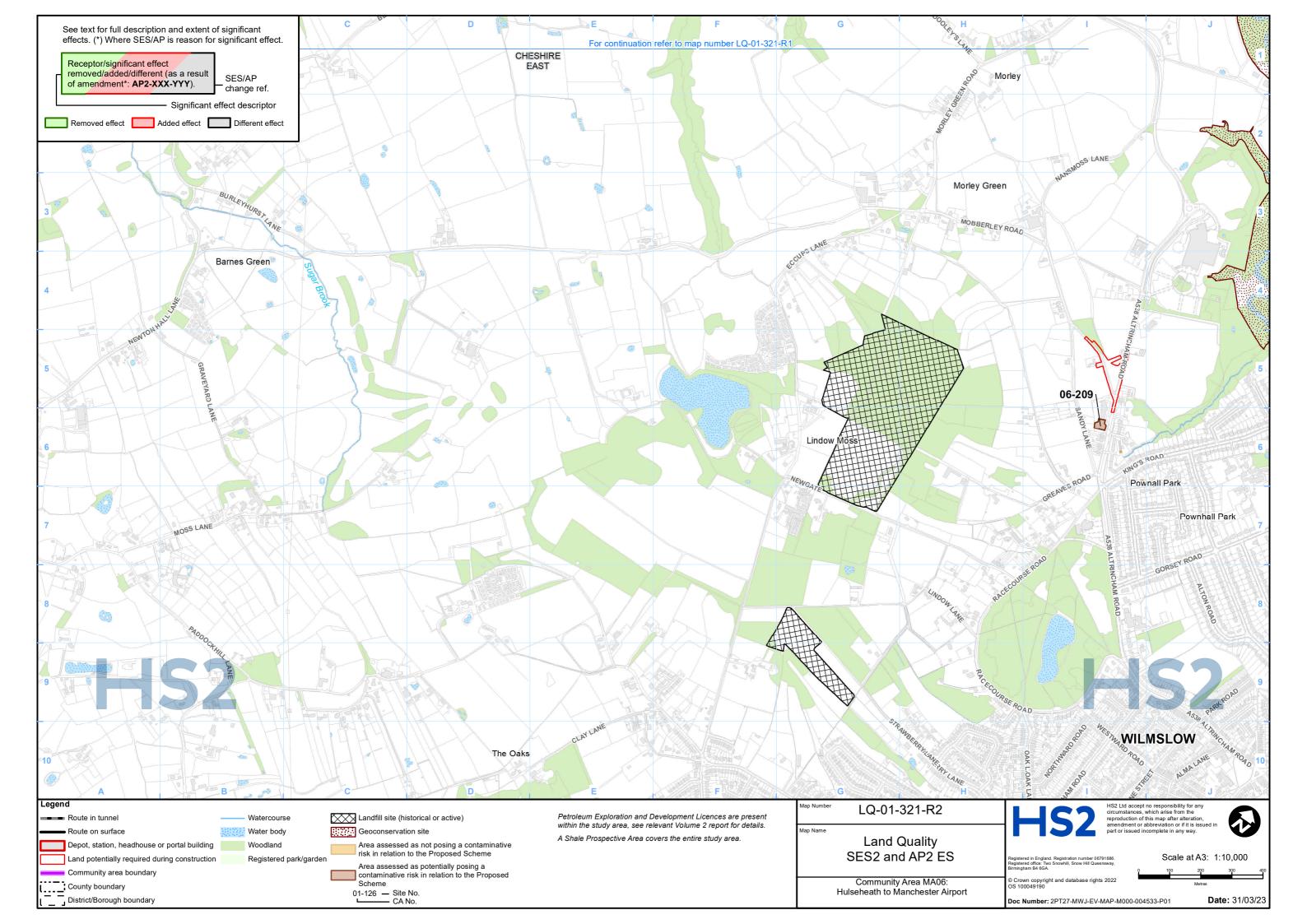
### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA06: Hulseheath to Manchester Airport LQ-01 – Land Quality





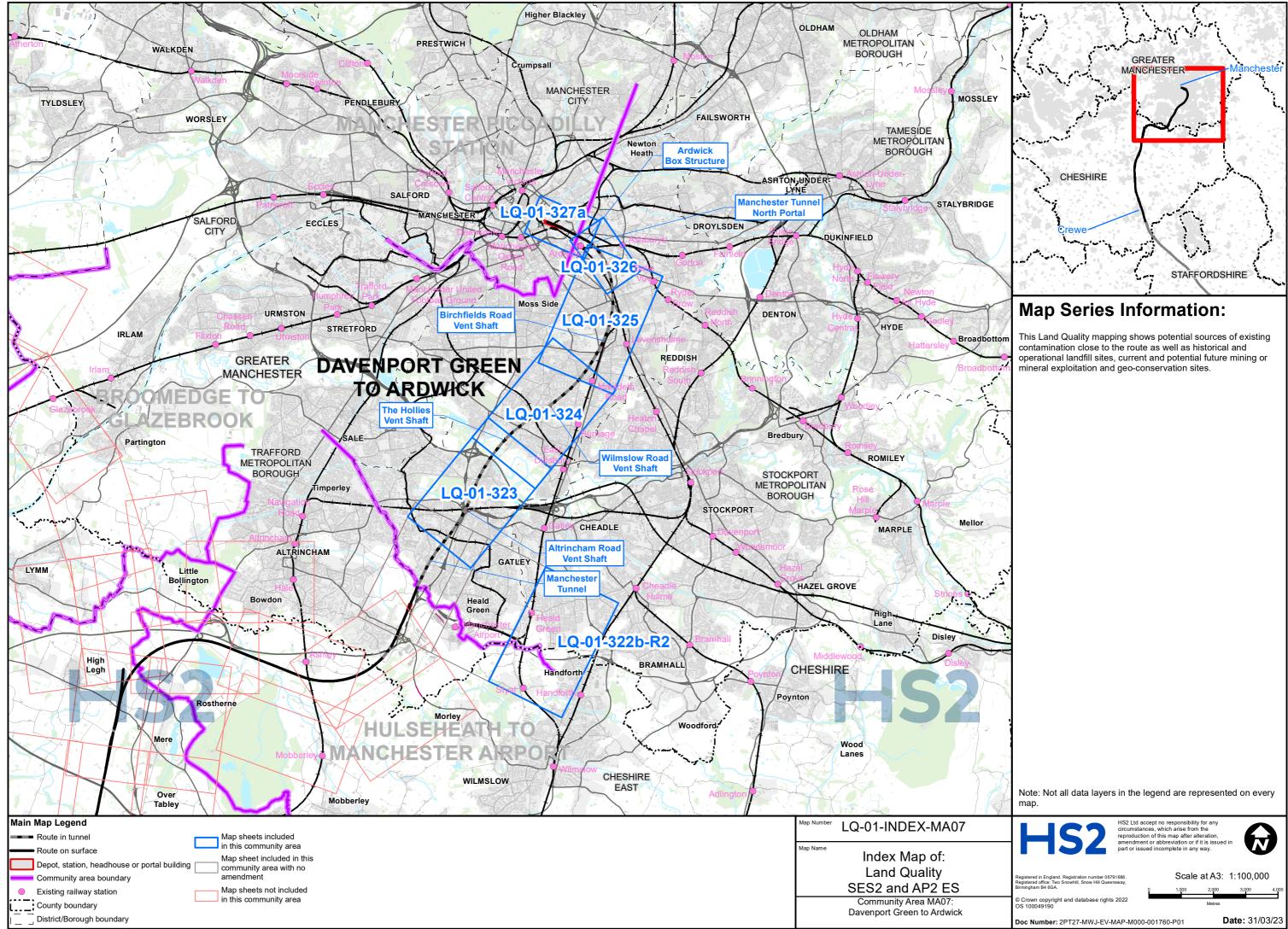


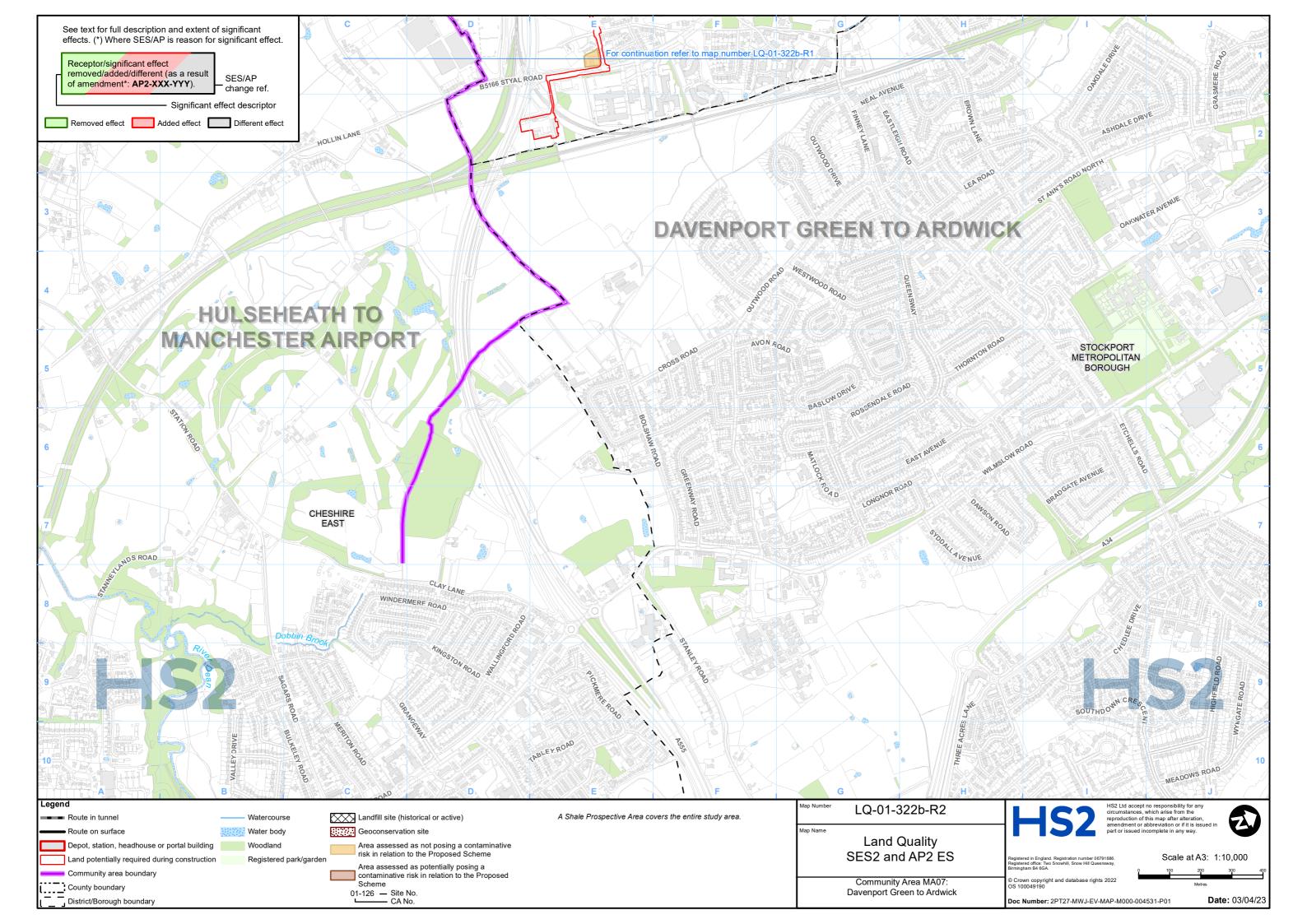


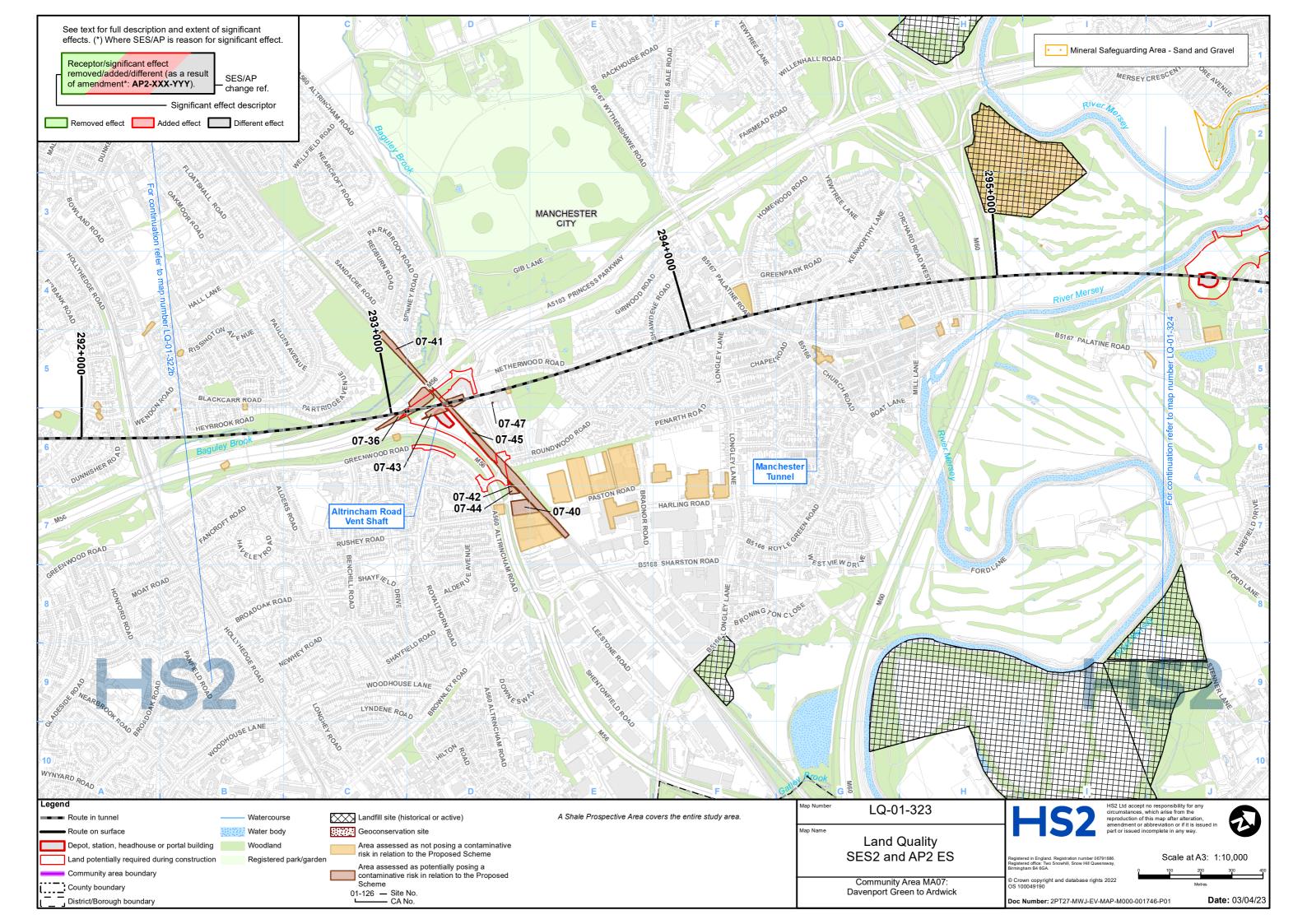
### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

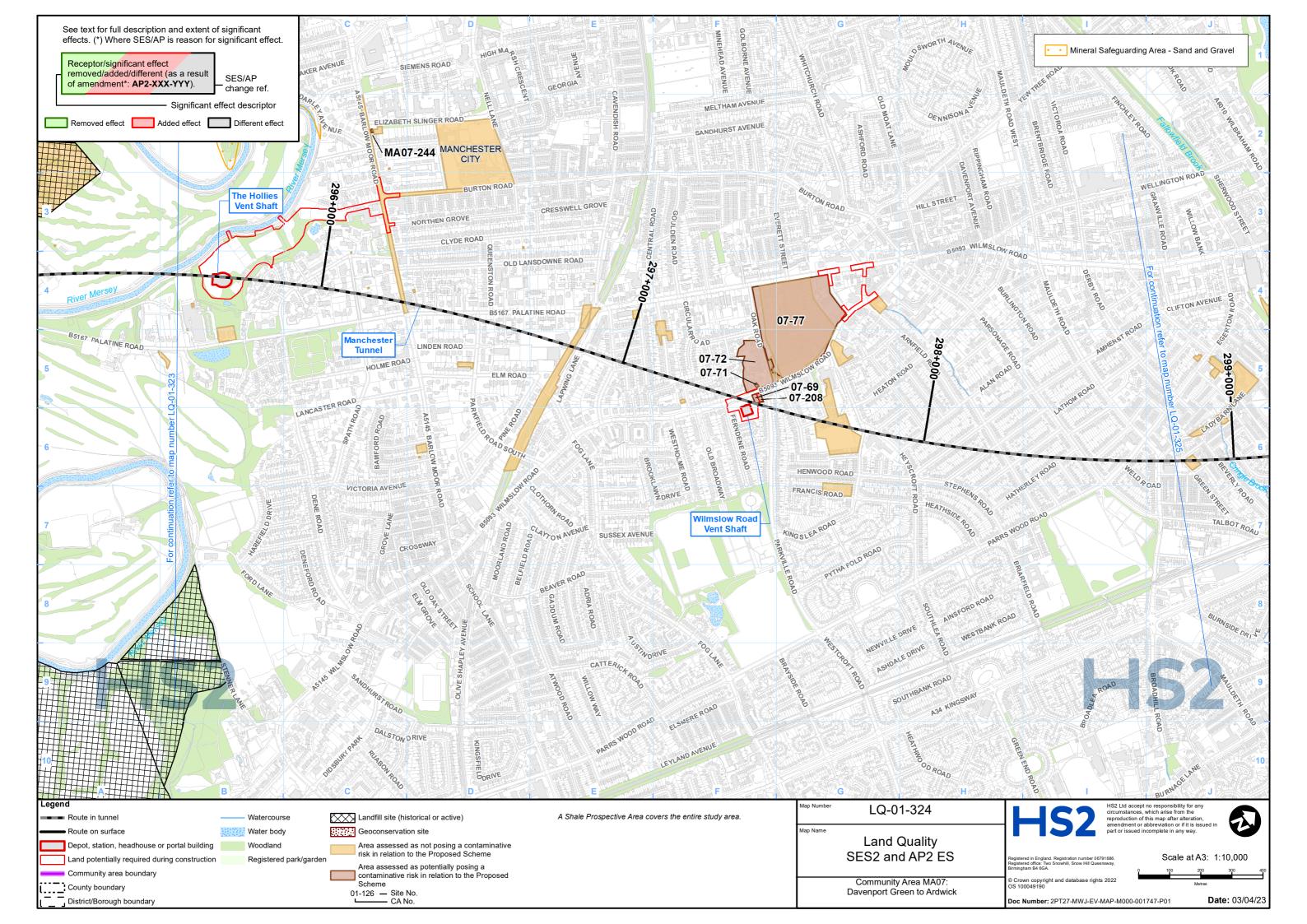
MA07: Davenport Green to Ardwick LQ-01 – Land Quality

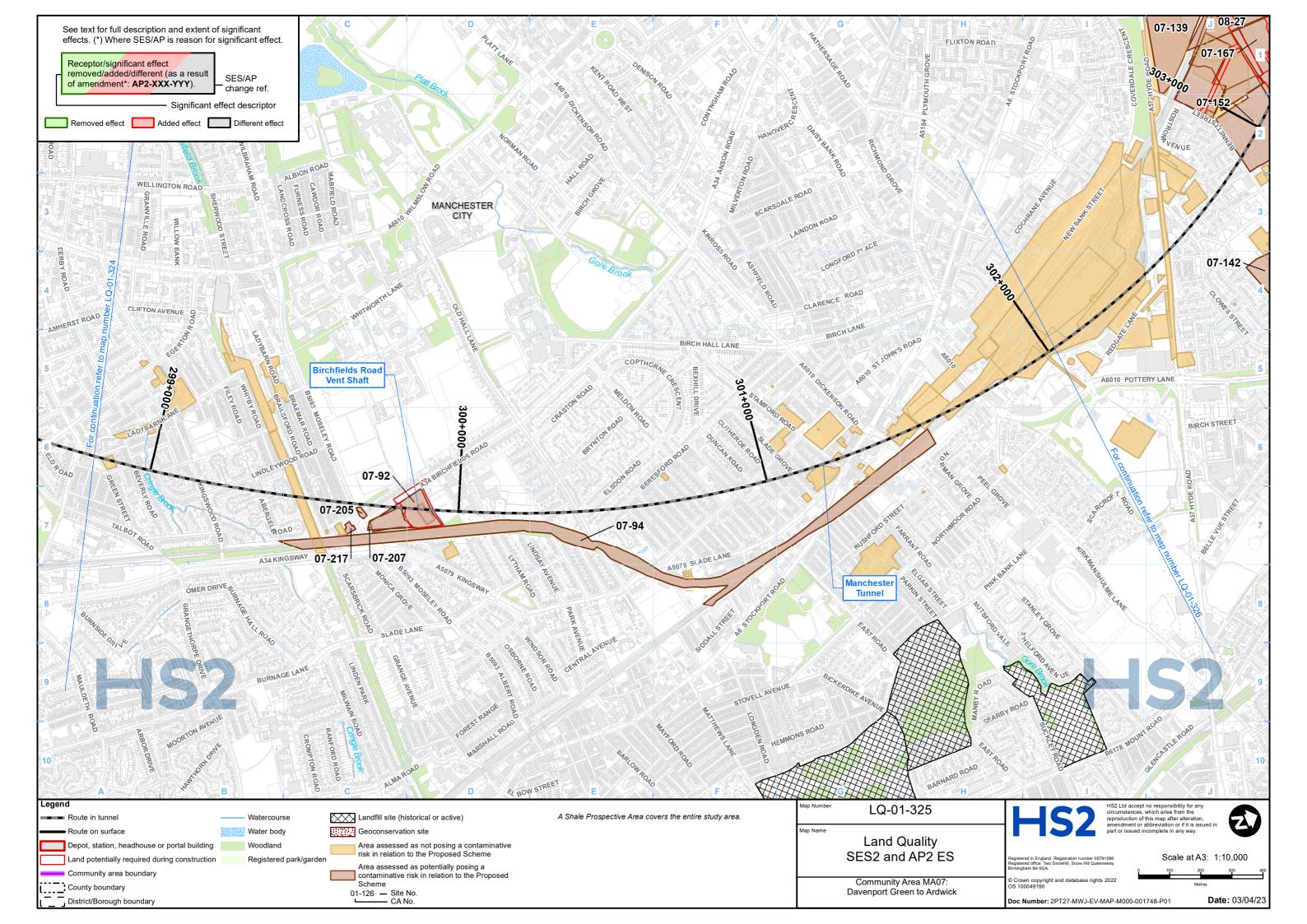


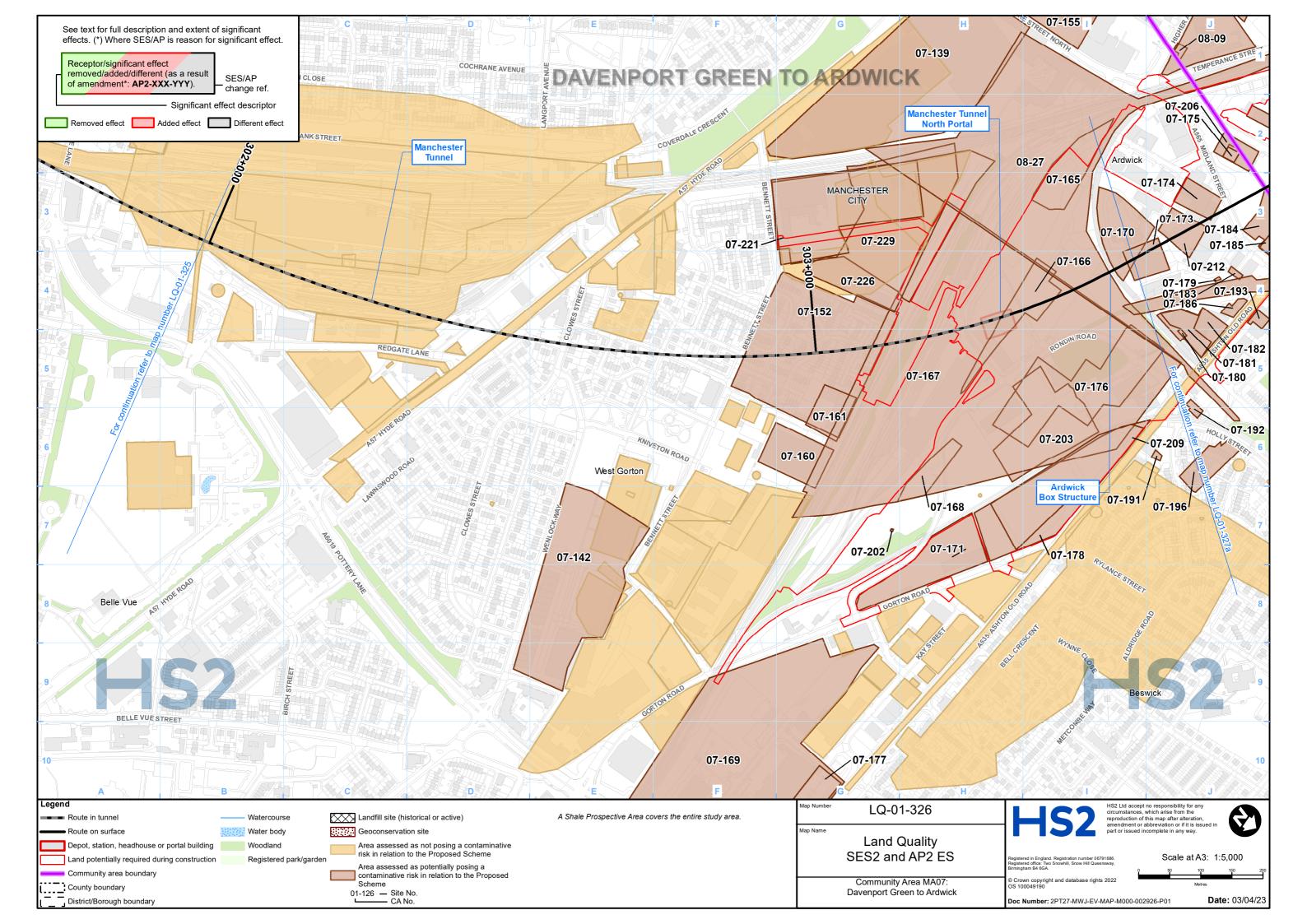


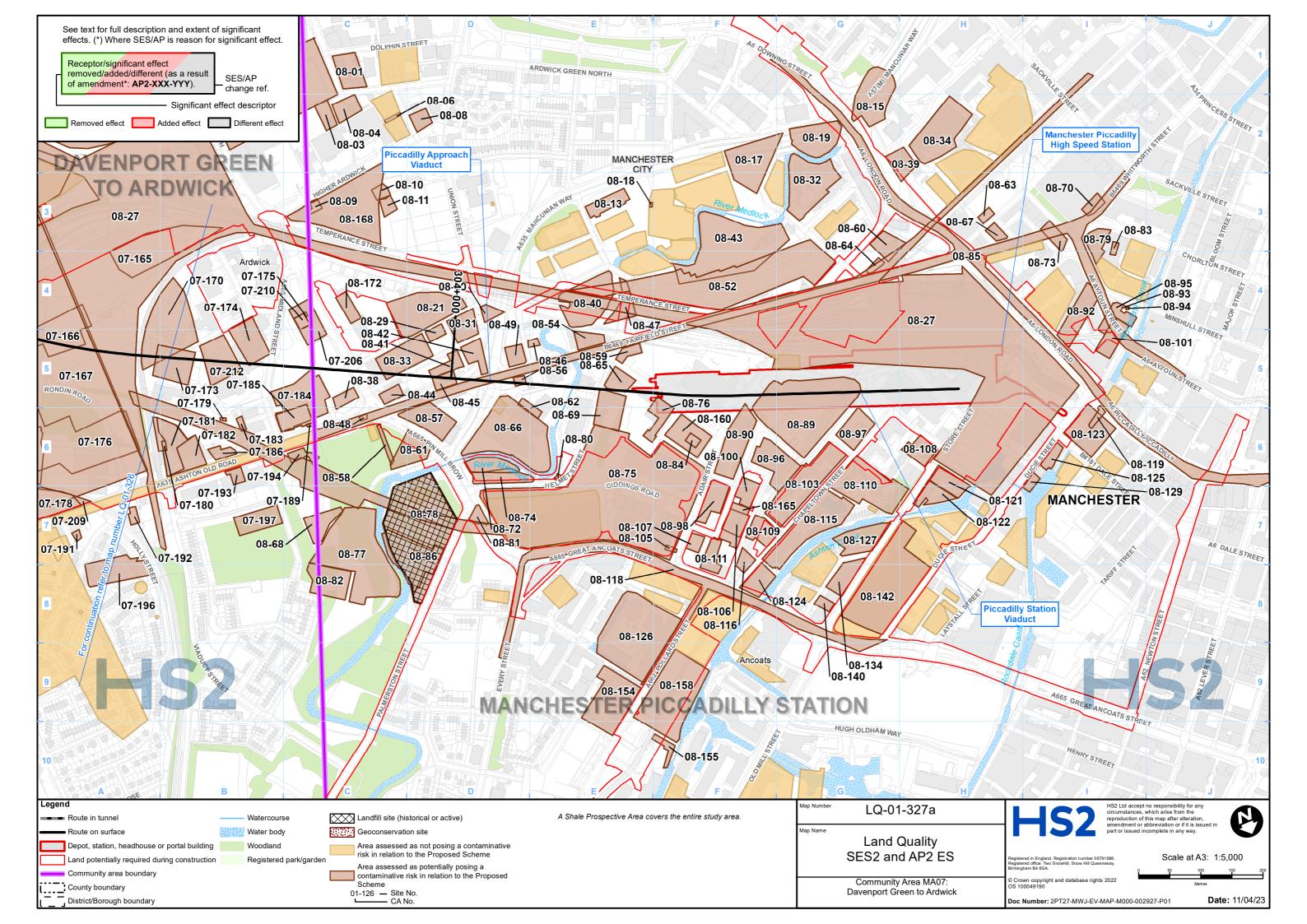








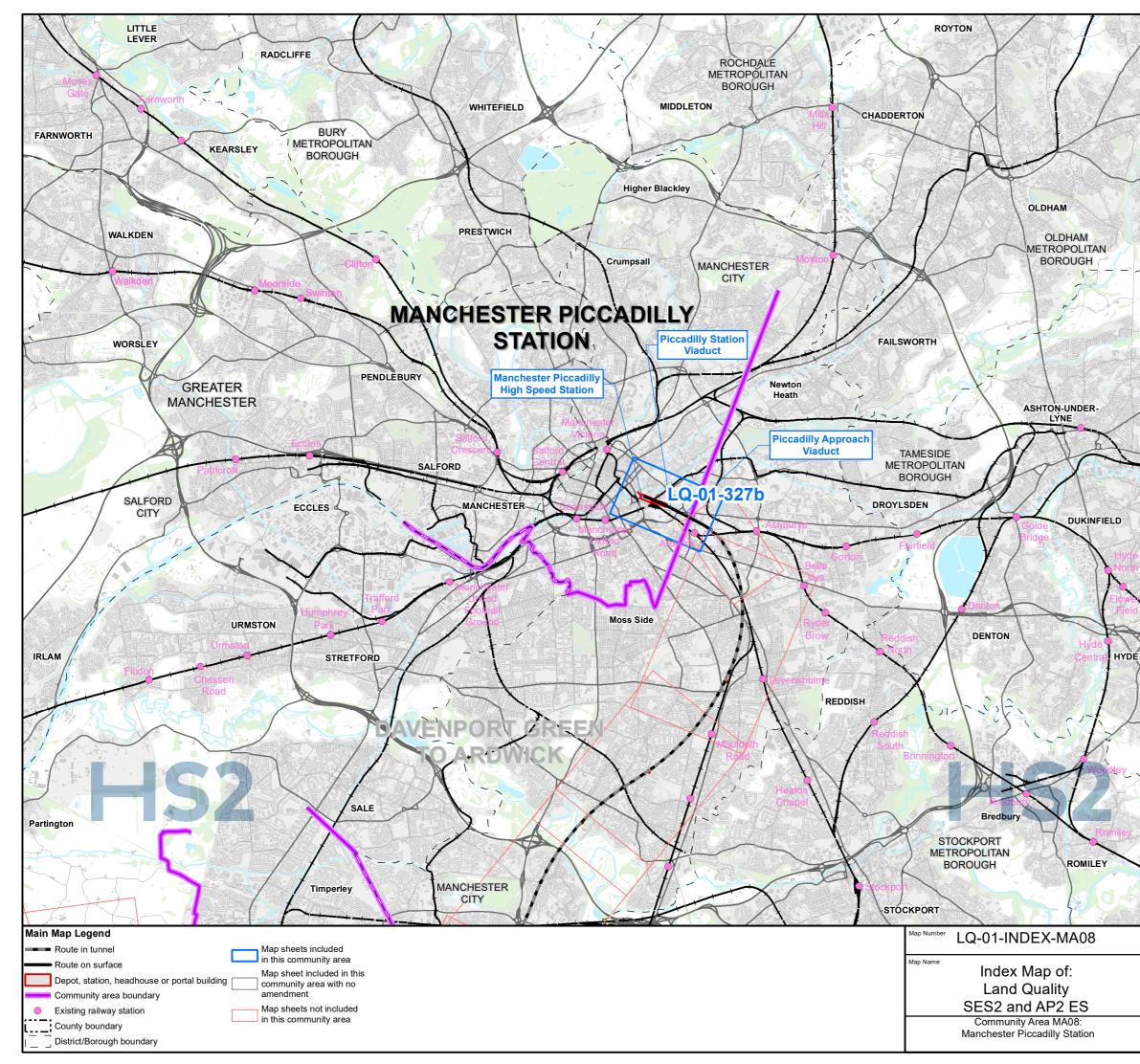


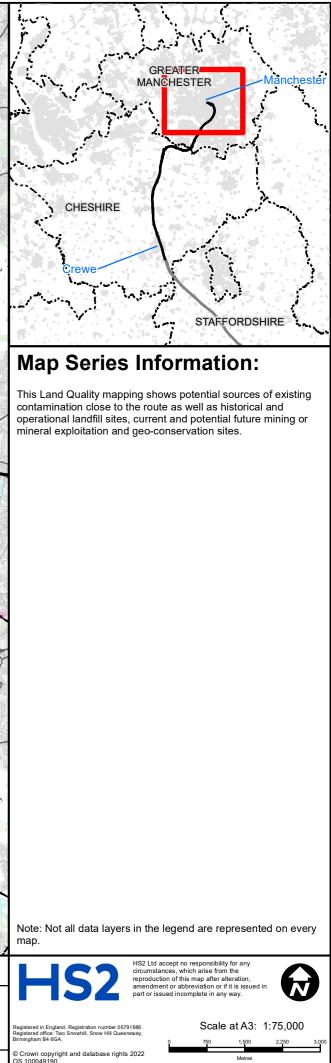


### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA08: Manchester Piccadilly Station LQ-01 – Land Quality

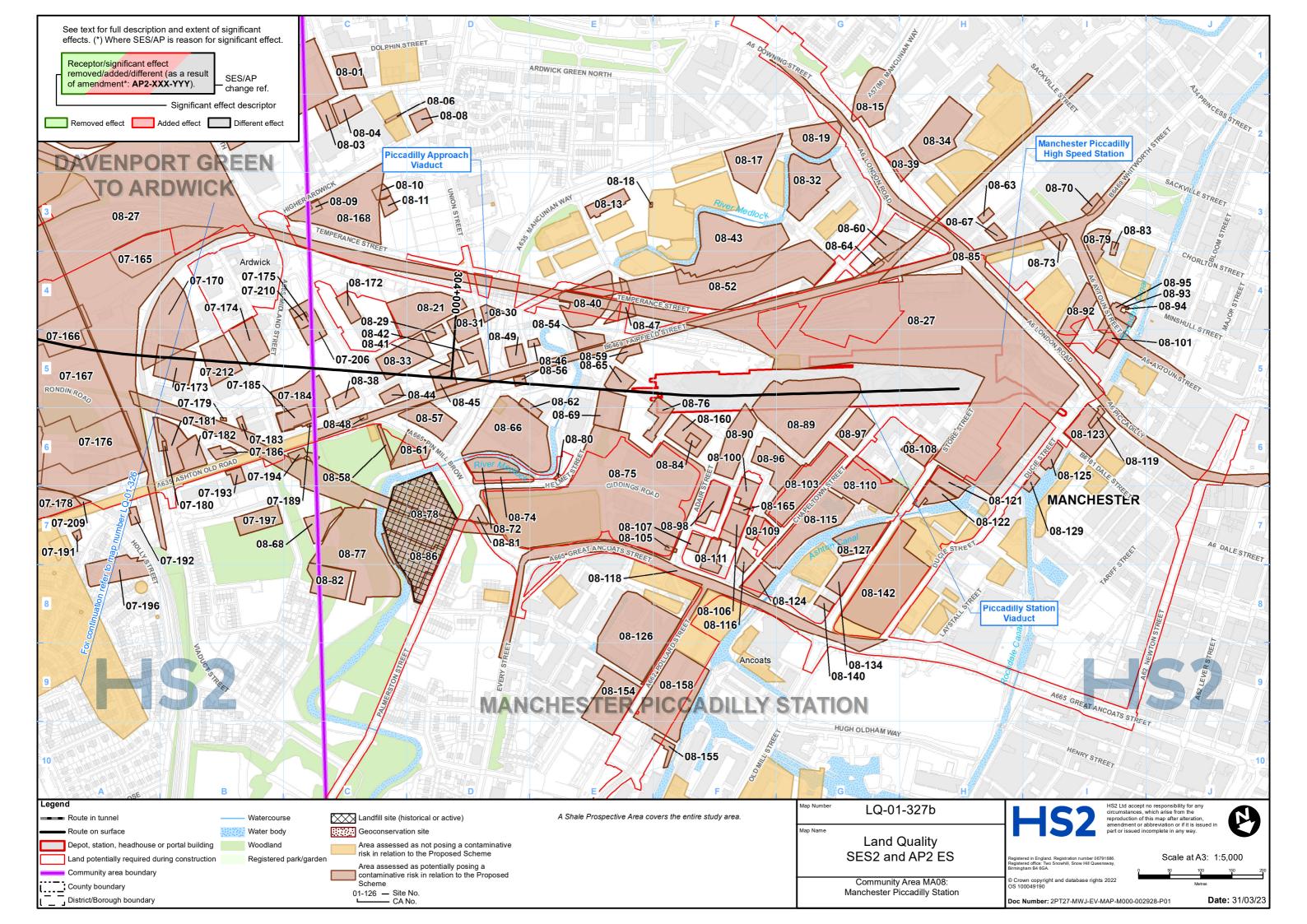






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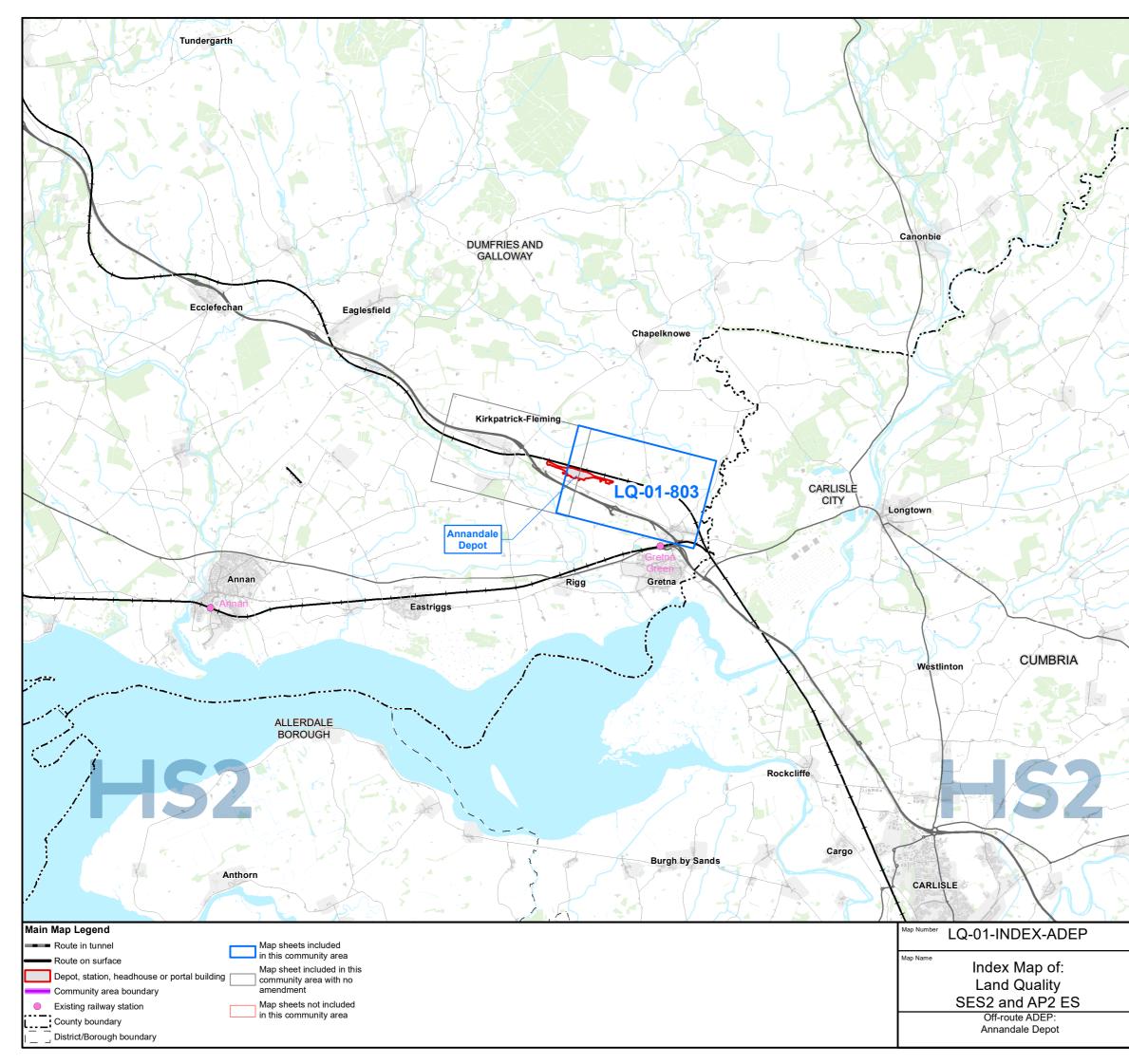


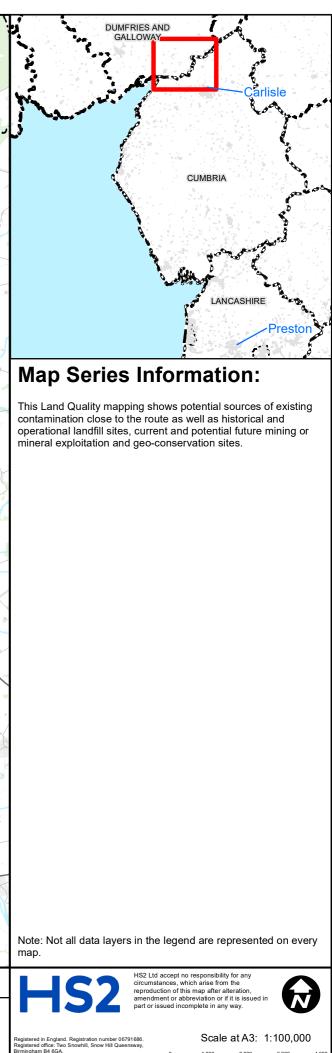
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### Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Annandale Depot LQ-01 - Land Quality



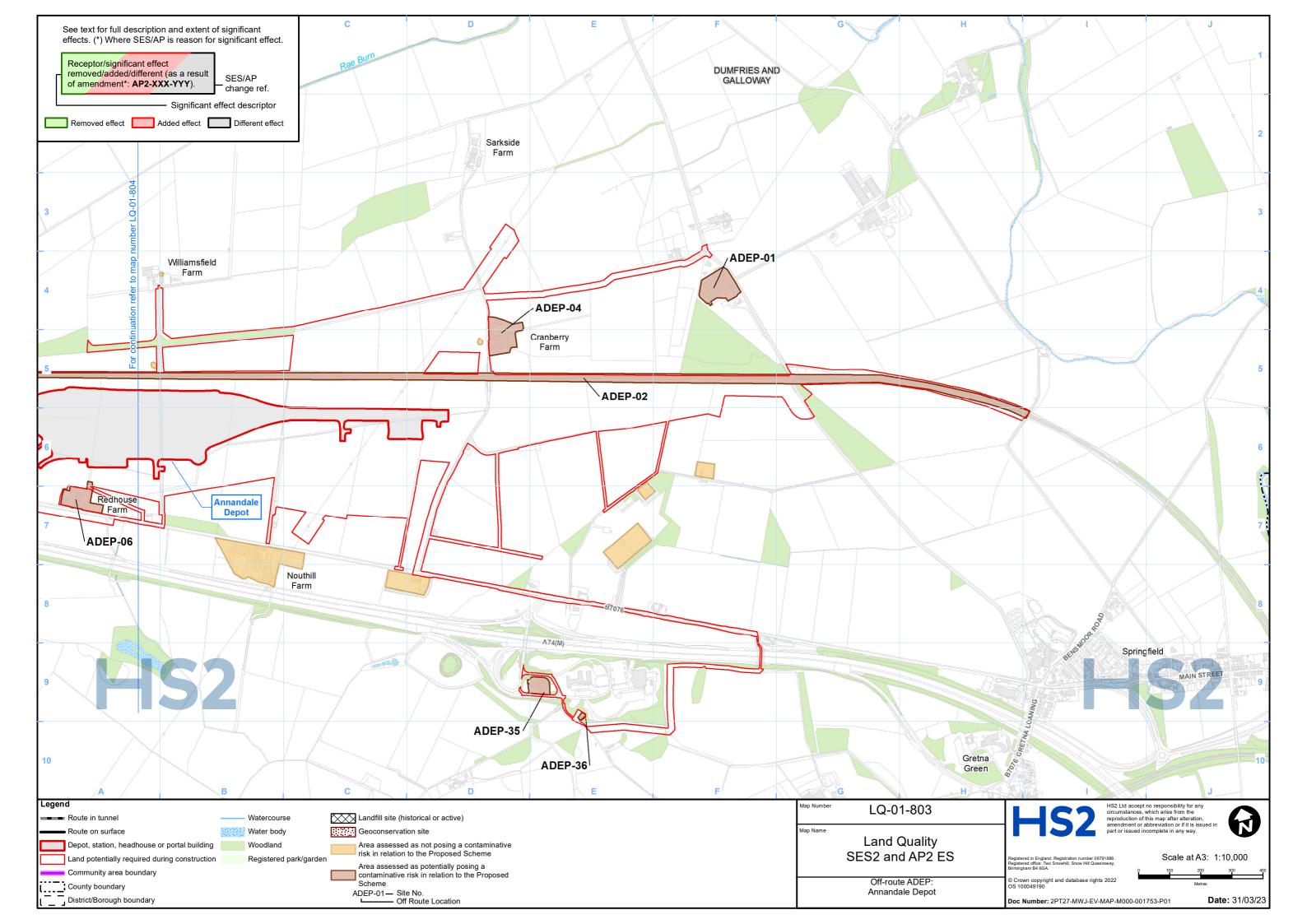




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