



BRITISH GEOLOGICAL SURVEY

WEST SUSSEX

A Summary of Mineral Resource Information for Development Plans Mineral Resources

Scale 1:100 000

Compiled by P.M. Hopson, D.J. Harrison, S. Holloway and D.E. Highley

Production of this map was commissioned and funded by the Department of the Environment, Transport and the Regions

Topography based on the Ordnance Survey 1:100 000 scale County maps

Positions of Scheduled Monuments at 31st March 1994 as supplied by English Heritage

Digital AONB boundaries © Countryside Commission 1986

Published for the Department of the Environment, Transport and the Regions

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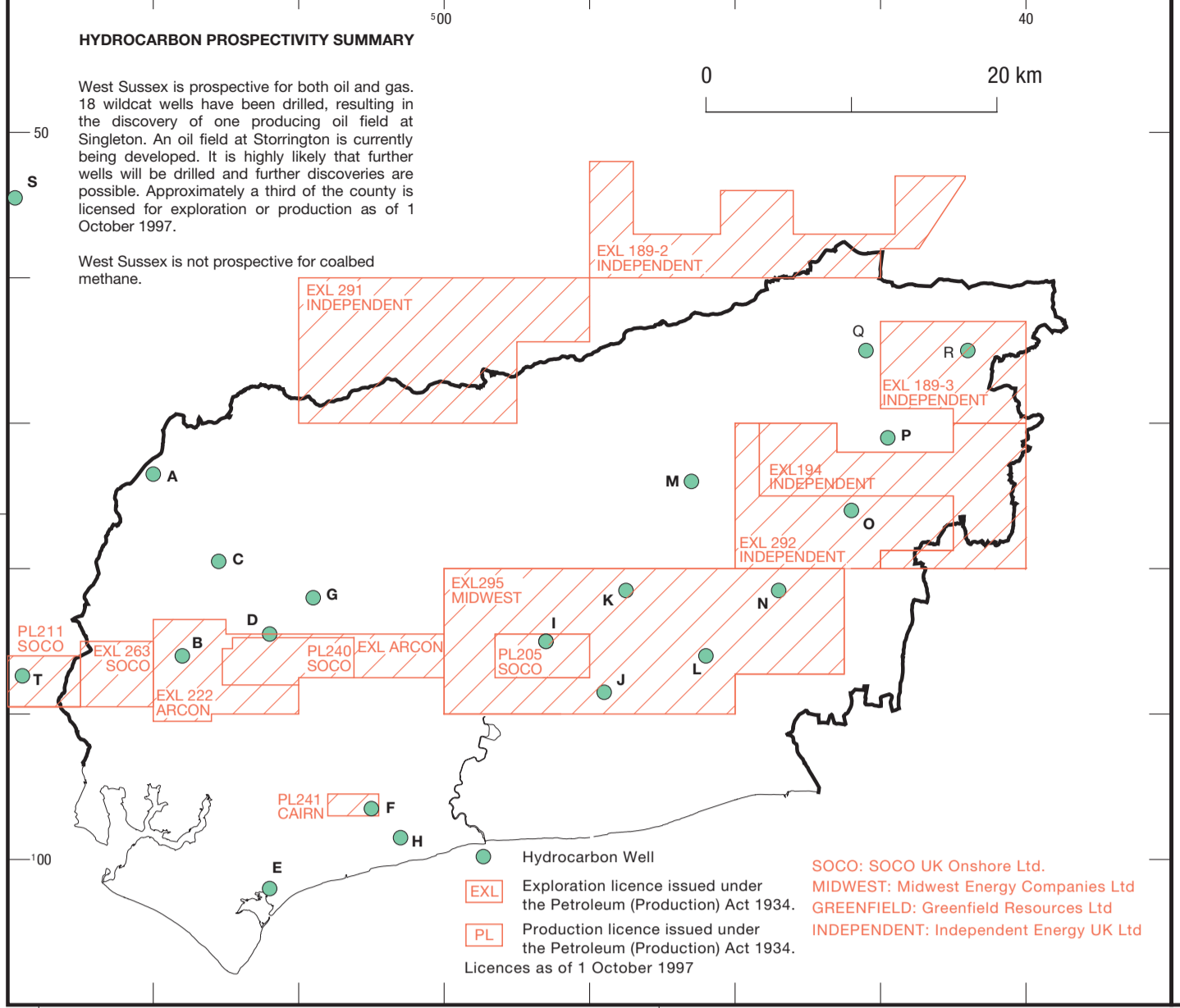
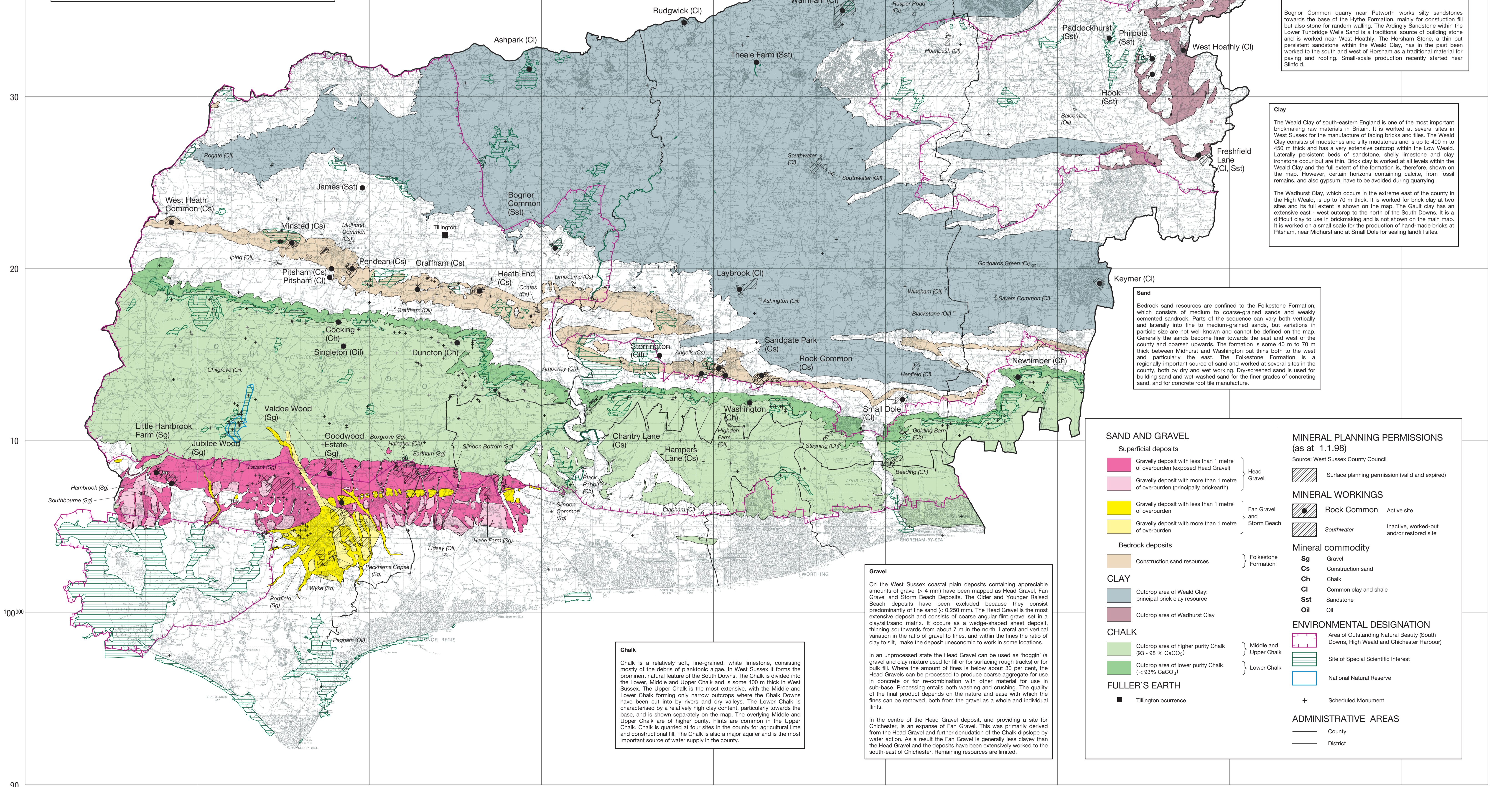
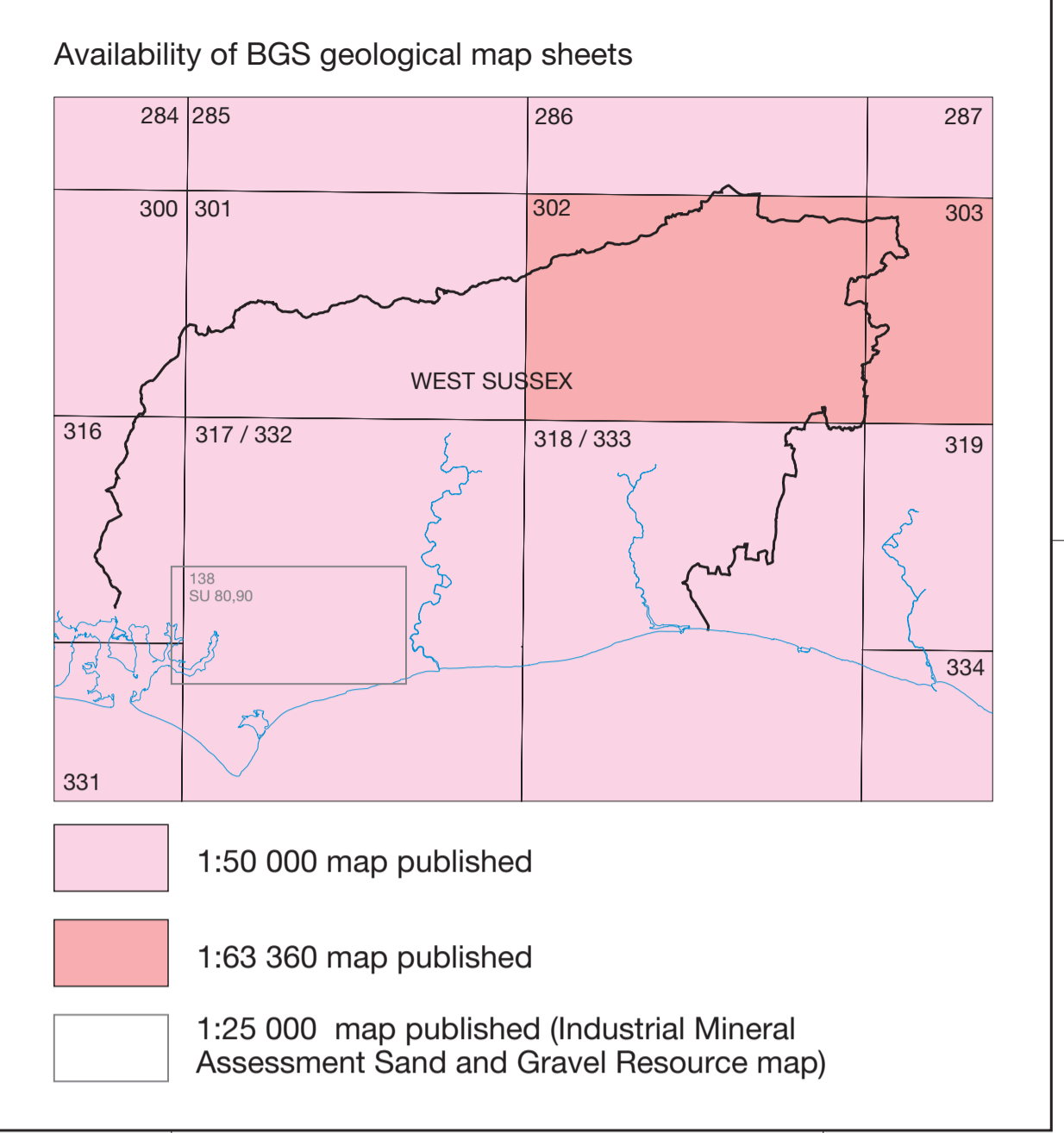


Table listing hydrocarbon wells with columns for name, operator, status, and depth.

AIMS AND LIMITATIONS: The purpose of the maps and associated reports in this series is to show the broad distribution of those mineral resources which may be of current or potential economic interest...



Building stone: Building stone has been produced from a number of horizons within the Lower Cretaceous rocks in the northern half of the county.

Clay: The Weald Clay of south-eastern England is one of the most important brickmaking raw materials in Britain.

Sand: Bedrock sand resources are confined to the Folkestone Formation, which consists of medium to coarse-grained sands and weakly cemented sandrock.

Gravel: On the West Sussex coastal plain deposits containing appreciable amounts of gravel (> 4 mm) have been mapped as Head Gravel, Fan Gravel and Storm Beach Deposits.

Chalk: Chalk is a relatively soft, fine-grained, white limestone, consisting mostly of the debris of planktonic algae.

Legend for SAND AND GRAVEL, CLAY, CHALK, FULLER'S EARTH, MINERAL PLANNING PERMISSIONS, MINERAL WORKINGS, Mineral commodity, ENVIRONMENTAL DESIGNATION, and ADMINISTRATIVE AREAS.

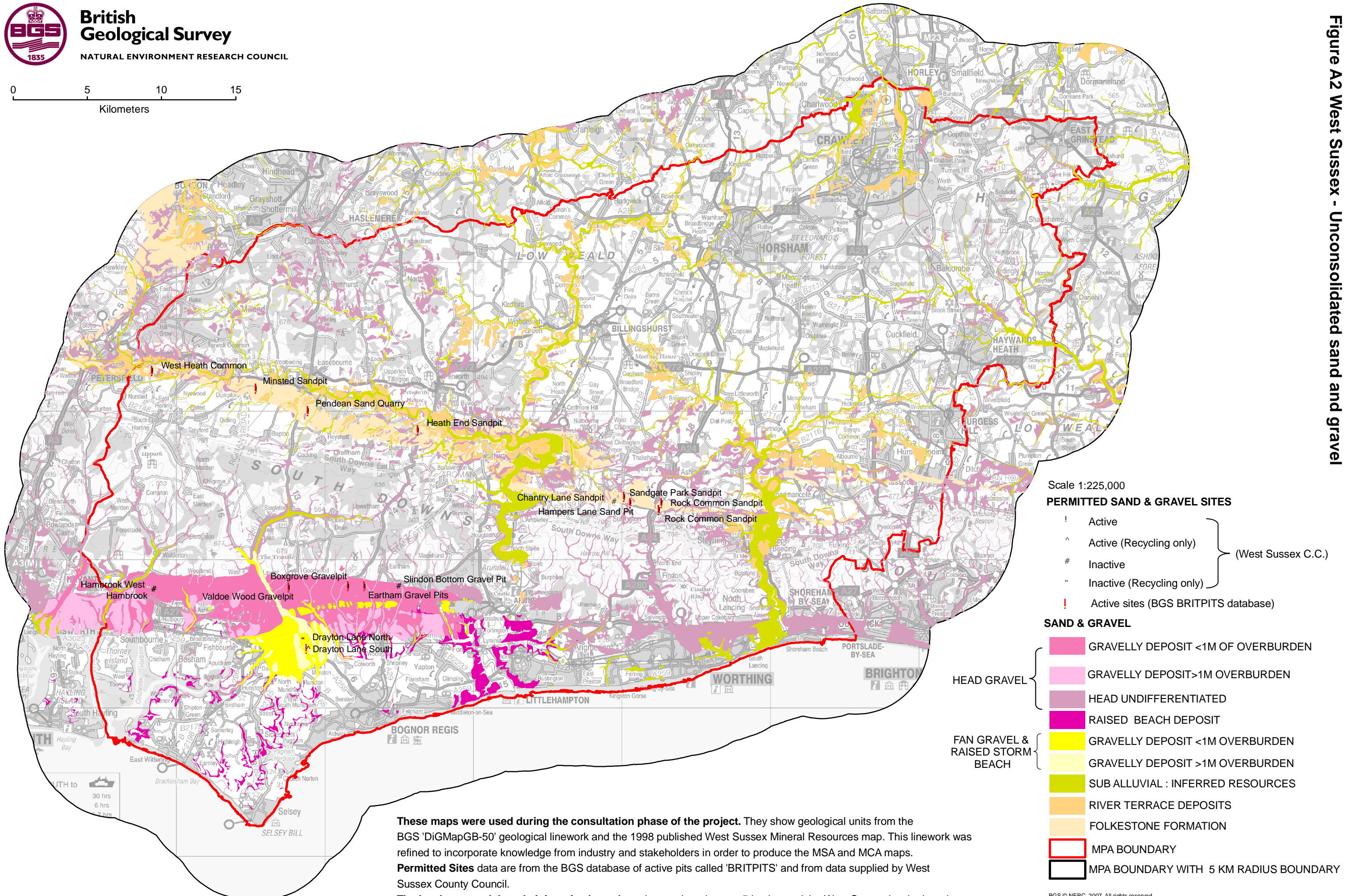
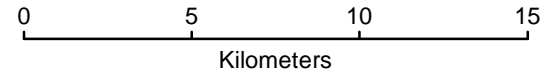
Figure A1 West Sussex Resources map (published 1998)





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Scale 1:225,000

**PERMITTED SAND & GRAVEL SITES**

- ! Active
  - ^ Active (Recycling only)
  - # Inactive
  - " Inactive (Recycling only)
  - ! Active sites (BGS BRITPITS database)
- (West Sussex C.C.)

**SAND & GRAVEL**

- GRAVELLY DEPOSIT <1M OF OVERBURDEN
- GRAVELLY DEPOSIT >1M OVERBURDEN
- HEAD UNDIFFERENTIATED
- RAISED BEACH DEPOSIT
- GRAVELLY DEPOSIT <1M OVERBURDEN
- GRAVELLY DEPOSIT >1M OVERBURDEN
- SUB ALLUVIAL : INFERRED RESOURCES
- RIVER TERRACE DEPOSITS
- FOLKESTONE FORMATION

HEAD GRAVEL

FAN GRAVEL & RAISED STORM BEACH

MPA BOUNDARY

MPA BOUNDARY WITH 5 KM RADIUS BOUNDARY

These maps were used during the consultation phase of the project. They show geological units from the BGS 'DiGMapGB-50' geological linework and the 1998 published West Sussex Mineral Resources map. This linework was refined to incorporate knowledge from industry and stakeholders in order to produce the MSA and MCA maps.

Permitted Sites data are from the BGS database of active pits called 'BRITPITS' and from data supplied by West Sussex County Council.

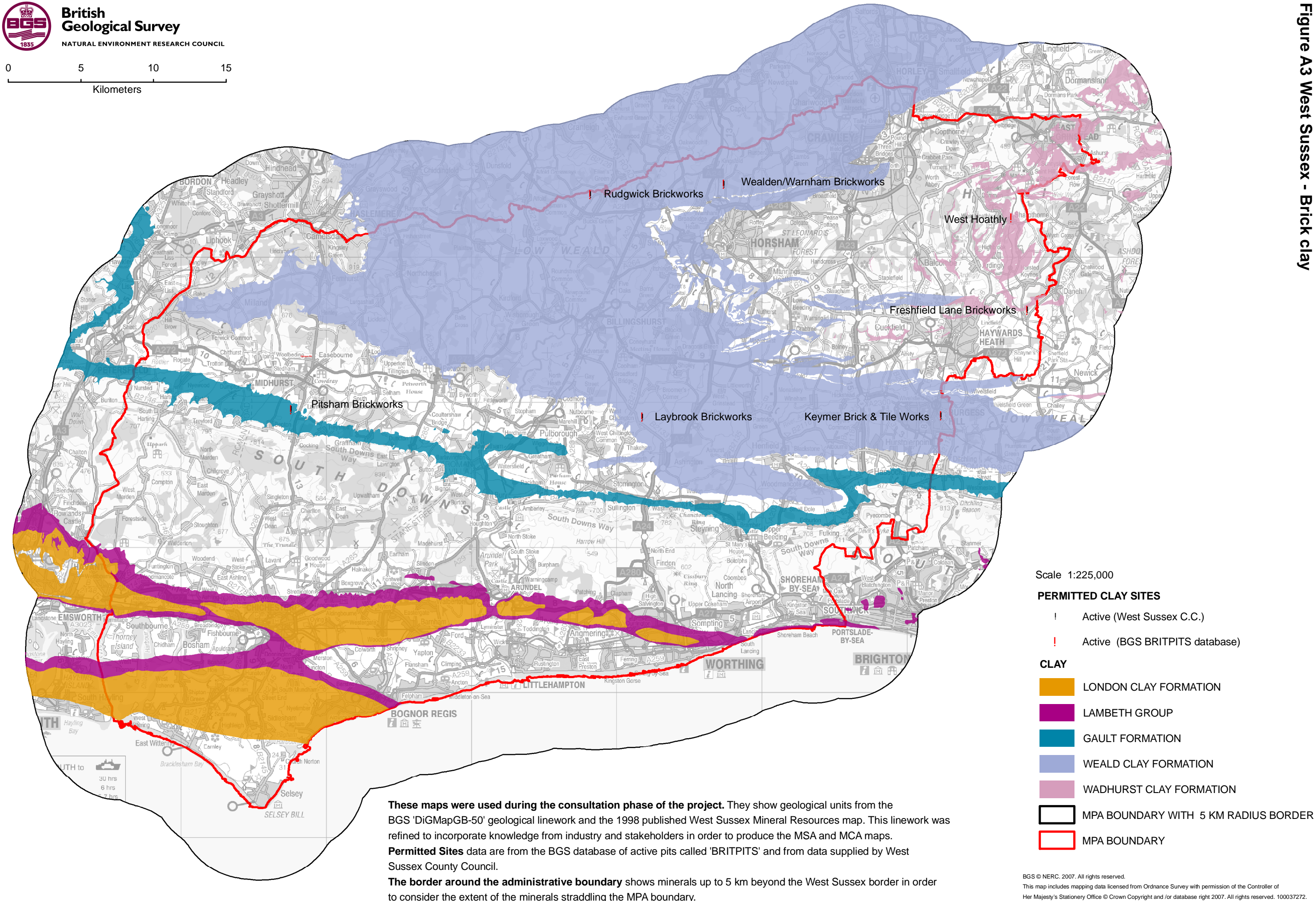
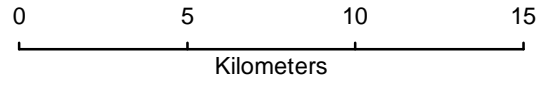
The border around the administrative boundary shows minerals up to 5 km beyond the West Sussex border in order to consider the extent of the minerals straddling the MPA boundary.

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Figure A2 West Sussex - Unconsolidated sand and gravel





- Scale 1:225,000
- PERMITTED CLAY SITES**
- ! Active (West Sussex C.C.)
  - ! Active (BGS BRITPITS database)
- CLAY**
- LONDON CLAY FORMATION
  - LAMBETH GROUP
  - GAULT FORMATION
  - WEALD CLAY FORMATION
  - WADHURST CLAY FORMATION
  - MPA BOUNDARY WITH 5 KM RADIUS BORDER
  - MPA BOUNDARY

**These maps were used during the consultation phase of the project.** They show geological units from the BGS 'DiGMapGB-50' geological linework and the 1998 published West Sussex Mineral Resources map. This linework was refined to incorporate knowledge from industry and stakeholders in order to produce the MSA and MCA maps.

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Figure A3 West Sussex - Brick clay





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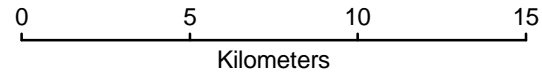
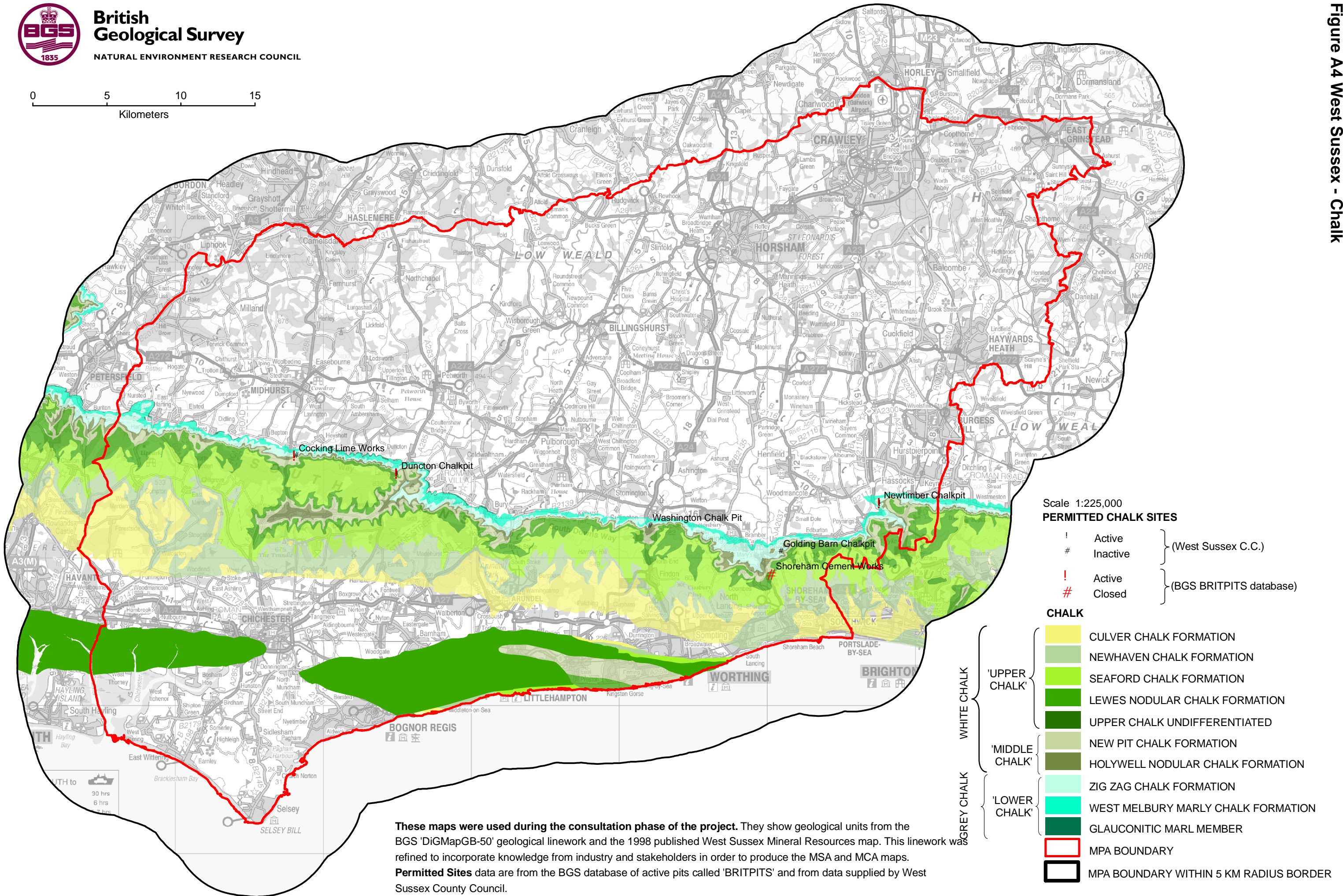


Figure A4 West Sussex - Chalk



Scale 1:225,000

**PERMITTED CHALK SITES**

!	Active	} (West Sussex C.C.)
#	Inactive	
!	Active	} (BGS BRITPITS database)
#	Closed	

**CHALK**

} UPPER CHALK'		CULVER CHALK FORMATION
		NEWHAVEN CHALK FORMATION
		SEAFORD CHALK FORMATION
		LEWES NODULAR CHALK FORMATION
} 'MIDDLE CHALK'		UPPER CHALK UNDIFFERENTIATED
		NEW PIT CHALK FORMATION
		HOLYWELL NODULAR CHALK FORMATION
} 'LOWER CHALK'		ZIG ZAG CHALK FORMATION
		WEST MELBURY MARLY CHALK FORMATION
		GLAUCONITIC MARL MEMBER
		MPA BOUNDARY
	MPA BOUNDARY WITHIN 5 KM RADIUS BORDER	

**These maps were used during the consultation phase of the project.** They show geological units from the BGS 'DiGMapGB-50' geological linework and the 1998 published West Sussex Mineral Resources map. This linework was refined to incorporate knowledge from industry and stakeholders in order to produce the MSA and MCA maps. **Permitted Sites** data are from the BGS database of active pits called 'BRITPITS' and from data supplied by West Sussex County Council.

**The border around the administrative boundary** shows minerals up to 5 km beyond the West Sussex border in order to consider the extent of the minerals straddling the MPA boundary.

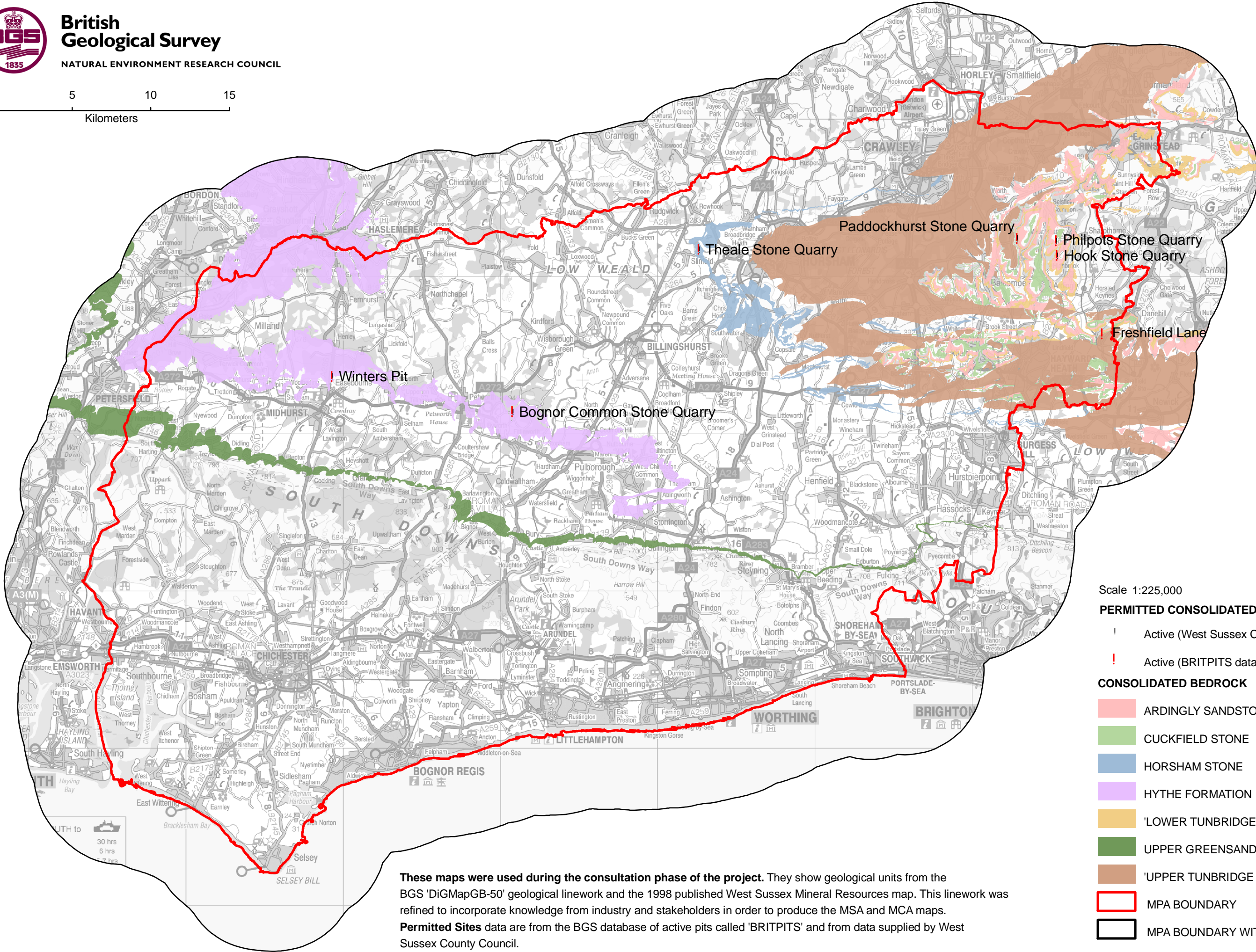
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Scale 1:225,000

**PERMITTED CONSOLIDATED BEDROCK SITES**

- ! Active (West Sussex C.C.)
- ! Active (BRITPITS database)

**CONSOLIDATED BEDROCK**

- ARDINGLY SANDSTONE
- CUCKFIELD STONE
- HORSHAM STONE
- HYTHE FORMATION
- 'LOWER TUNBRIDGE WELLS SAND'
- UPPER GREENSAND FORMATION
- 'UPPER TUNBRIDGE WELLS SAND'
- MPA BOUNDARY
- MPA BOUNDARY WITH 5 KM RADIUS BORDER

**These maps were used during the consultation phase of the project.** They show geological units from the BGS 'DiGMapGB-50' geological linework and the 1998 published West Sussex Mineral Resources map. This linework was refined to incorporate knowledge from industry and stakeholders in order to produce the MSA and MCA maps.

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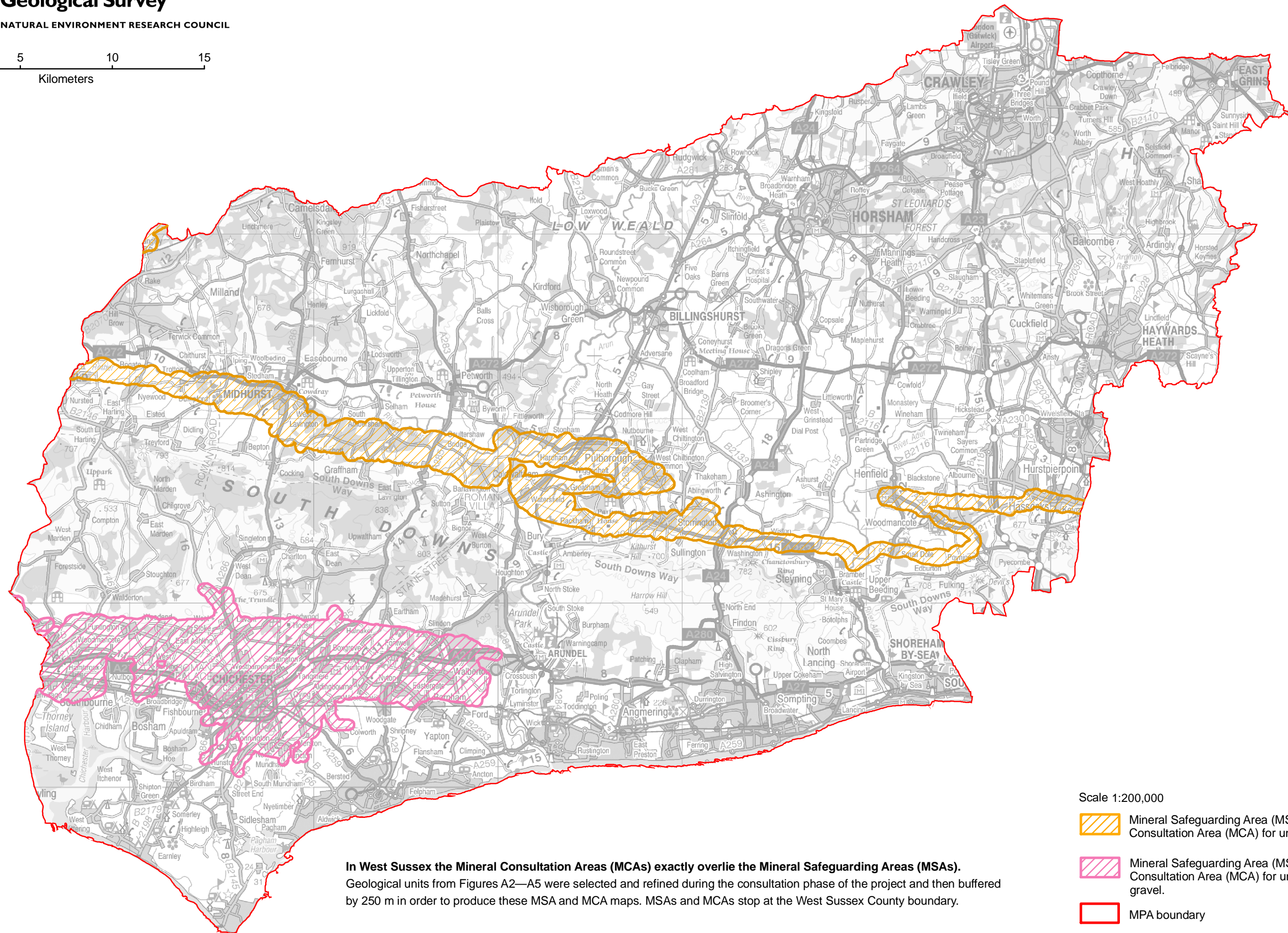
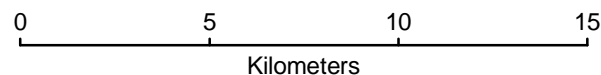
**Figure A5 West Sussex - Consolidated bedrock**





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In West Sussex the Mineral Consultation Areas (MCAs) exactly overlie the Mineral Safeguarding Areas (MSAs). Geological units from Figures A2—A5 were selected and refined during the consultation phase of the project and then buffered by 250 m in order to produce these MSA and MCA maps. MSAs and MCAs stop at the West Sussex County boundary.

Scale 1:200,000




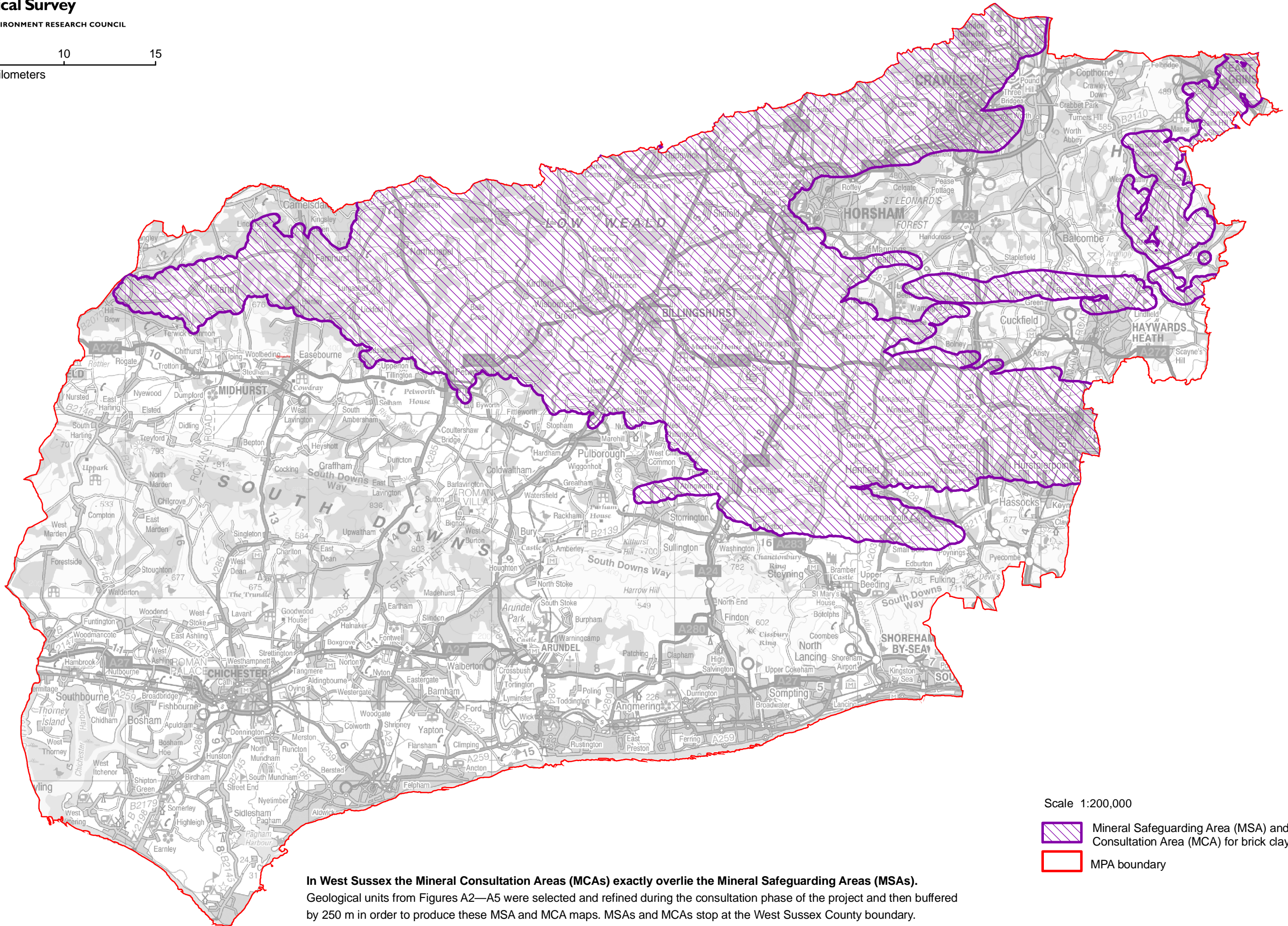
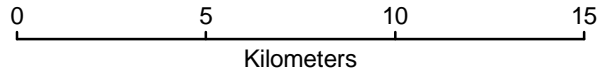


-  Mineral Safeguarding Area (MSA) and Mineral Consultation Area (MCA) for unconsolidated sand.
-  Mineral Safeguarding Area (MSA) and Mineral Consultation Area (MCA) for unconsolidated gravel.
-  MPA boundary

Figure A6 MSA and MCA - Unconsolidated sand and gravel





Scale 1:200,000

-  Mineral Safeguarding Area (MSA) and Mineral Consultation Area (MCA) for brick clay.
-  MPA boundary

**In West Sussex the Mineral Consultation Areas (MCAs) exactly overlie the Mineral Safeguarding Areas (MSAs).** Geological units from Figures A2—A5 were selected and refined during the consultation phase of the project and then buffered by 250 m in order to produce these MSA and MCA maps. MSAs and MCAs stop at the West Sussex County boundary.

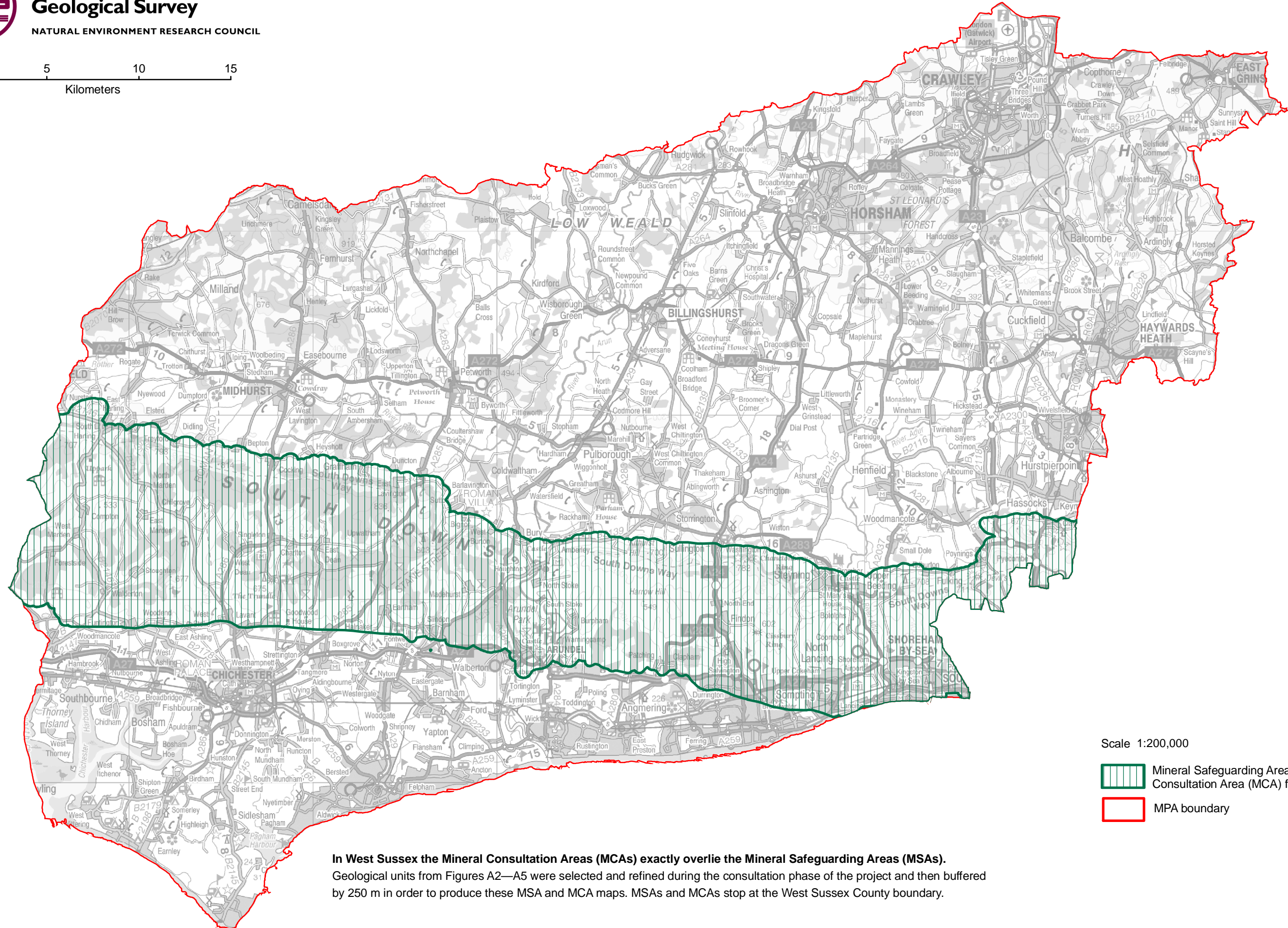
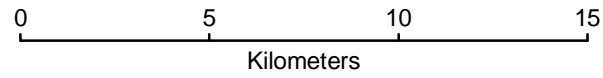
**Figure A7 MSA and MCA - Brick clay**







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Scale 1:200,000

-  Mineral Safeguarding Area (MSA) and Mineral Consultation Area (MCA) for chalk
-  MPA boundary

In West Sussex the Mineral Consultation Areas (MCAs) exactly overlie the Mineral Safeguarding Areas (MSAs). Geological units from Figures A2—A5 were selected and refined during the consultation phase of the project and then buffered by 250 m in order to produce these MSA and MCA maps. MSAs and MCAs stop at the West Sussex County boundary.

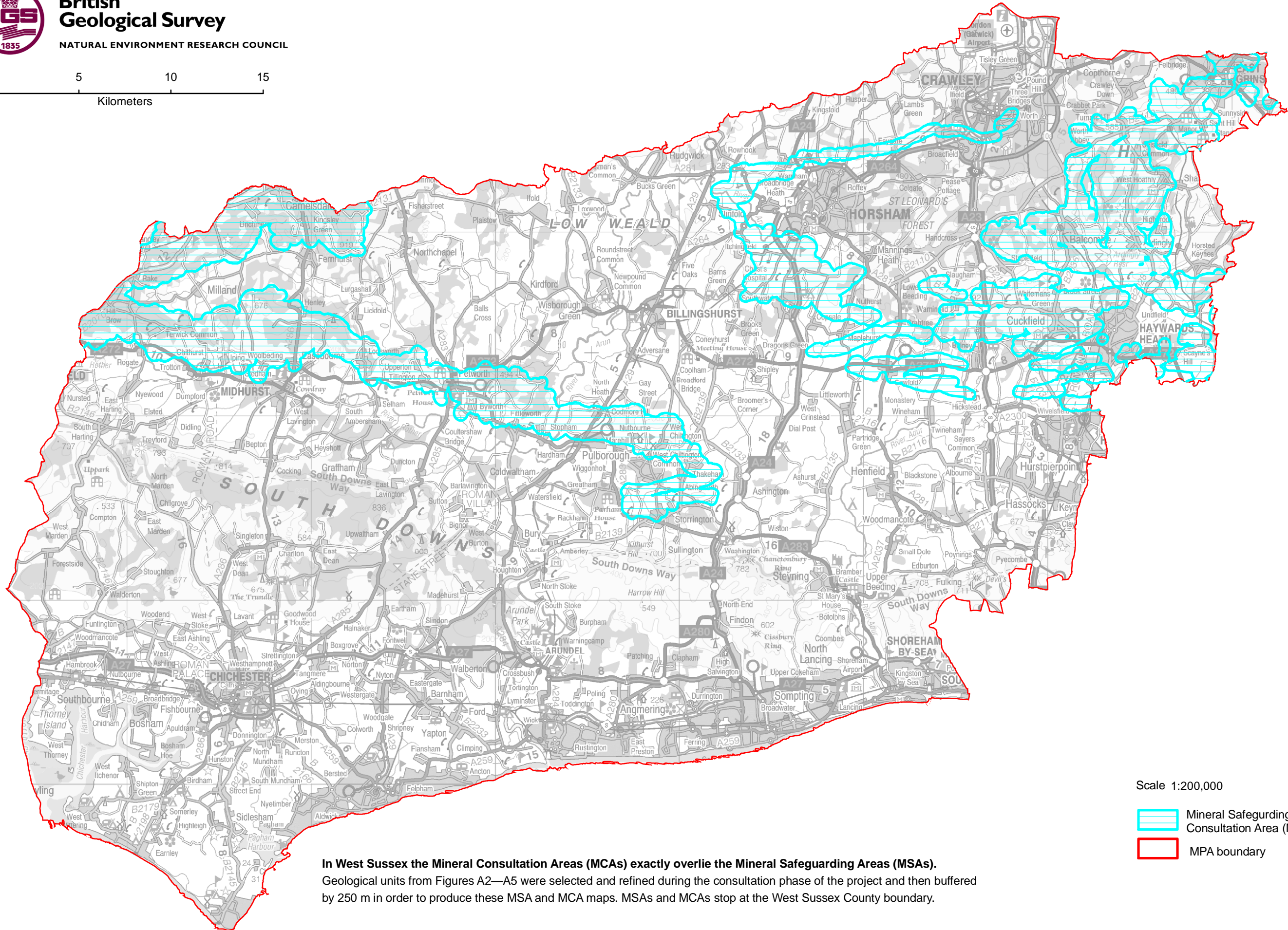
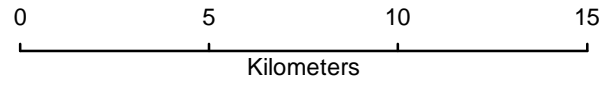
Figure A8 MSA and MCA – Chalk







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Scale 1:200,000

-  Mineral Safeguarding Area (MSA) and Mineral Consultation Area (MCA) for consolidated bedrock
-  MPA boundary

**In West Sussex the Mineral Consultation Areas (MCAs) exactly overlie the Mineral Safeguarding Areas (MSAs).** Geological units from Figures A2—A5 were selected and refined during the consultation phase of the project and then buffered by 250 m in order to produce these MSA and MCA maps. MSAs and MCAs stop at the West Sussex County boundary.

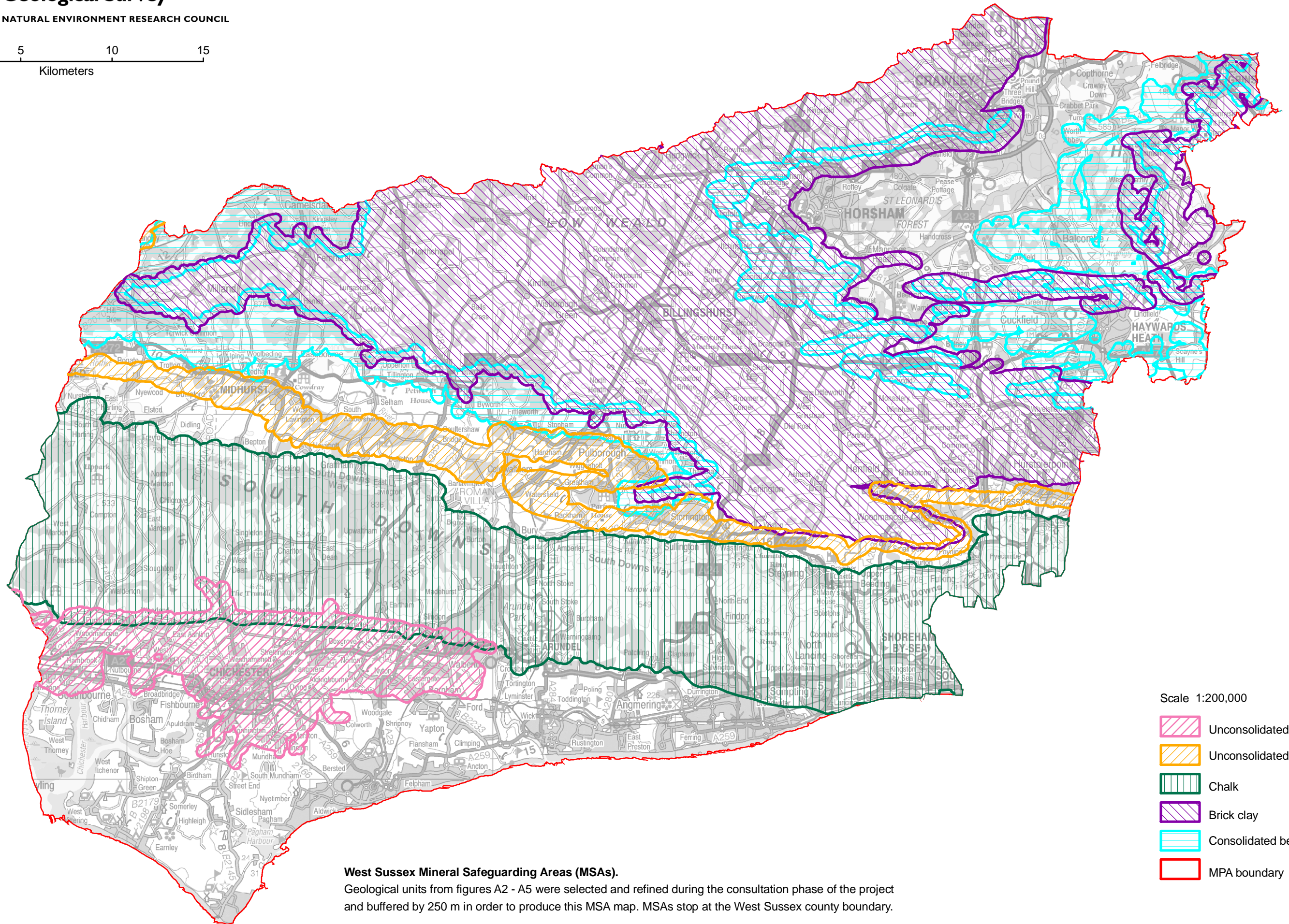
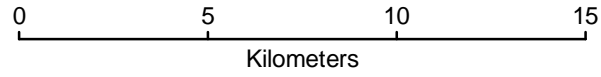
**Figure A9 MSA and MCA – Consolidated bedrock**





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**West Sussex Mineral Safeguarding Areas (MSAs).**

Geological units from figures A2 - A5 were selected and refined during the consultation phase of the project and buffered by 250 m in order to produce this MSA map. MSAs stop at the West Sussex county boundary.

Scale 1:200,000







-  Unconsolidated gravel
-  Unconsolidated sand
-  Chalk
-  Brick clay
-  Consolidated bedrock
-  MPA boundary

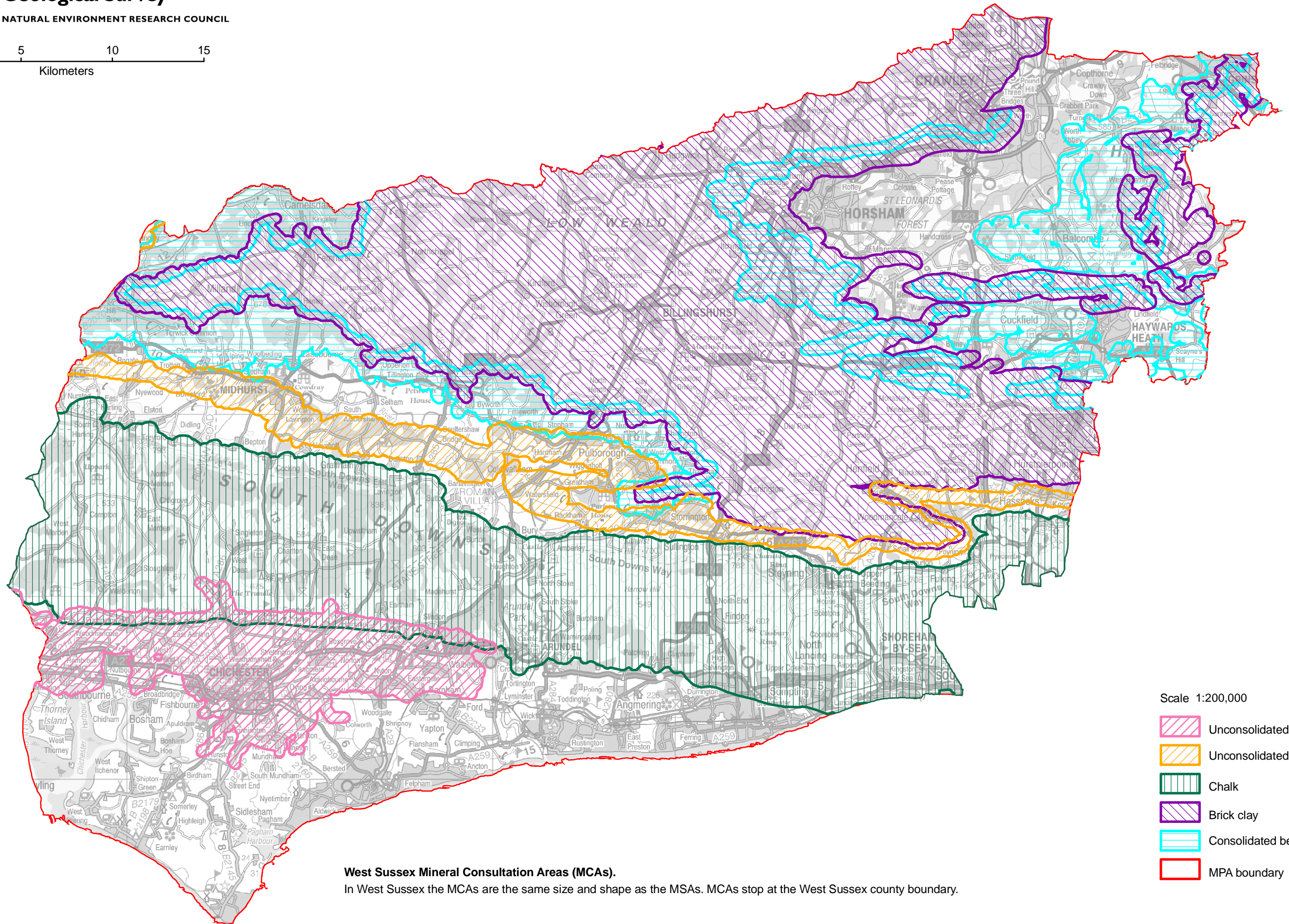
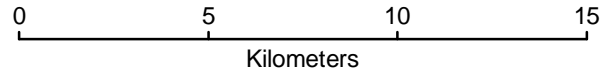
Figure A10 West Sussex Mineral Safeguarding Areas





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West Sussex Mineral Consultation Areas (MCAs).

In West Sussex the MCAs are the same size and shape as the MSAs. MCAs stop at the West Sussex county boundary.

Scale 1:200,000

- Unconsolidated gravel
- Unconsolidated sand
- Chalk
- Brick clay
- Consolidated bedrock
- MPA boundary

Figure A11 West Sussex Mineral Consultation Areas