

Rampion 2 Wind Farm

Category 6: Environmental Statement

Volume 3, Chapter 26: Water environment – Figures (Part 1 of 2)

Date: August 2023

Revision A

Document Reference: 6.3.26

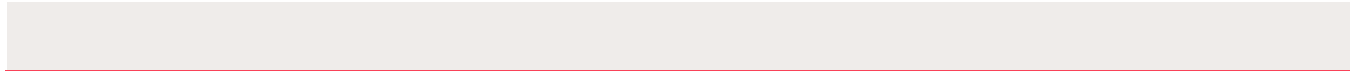
Pursuant to: APFP Regulations 5 (2) (a), 5 (2) (l)

Ecodoc number: 004884772-01



Document revisions

Revision	Date	Status/reason for issue	Author	Checked by	Approved by
A	04/08/2023	Final for DCO Application	WSP	RED	RED

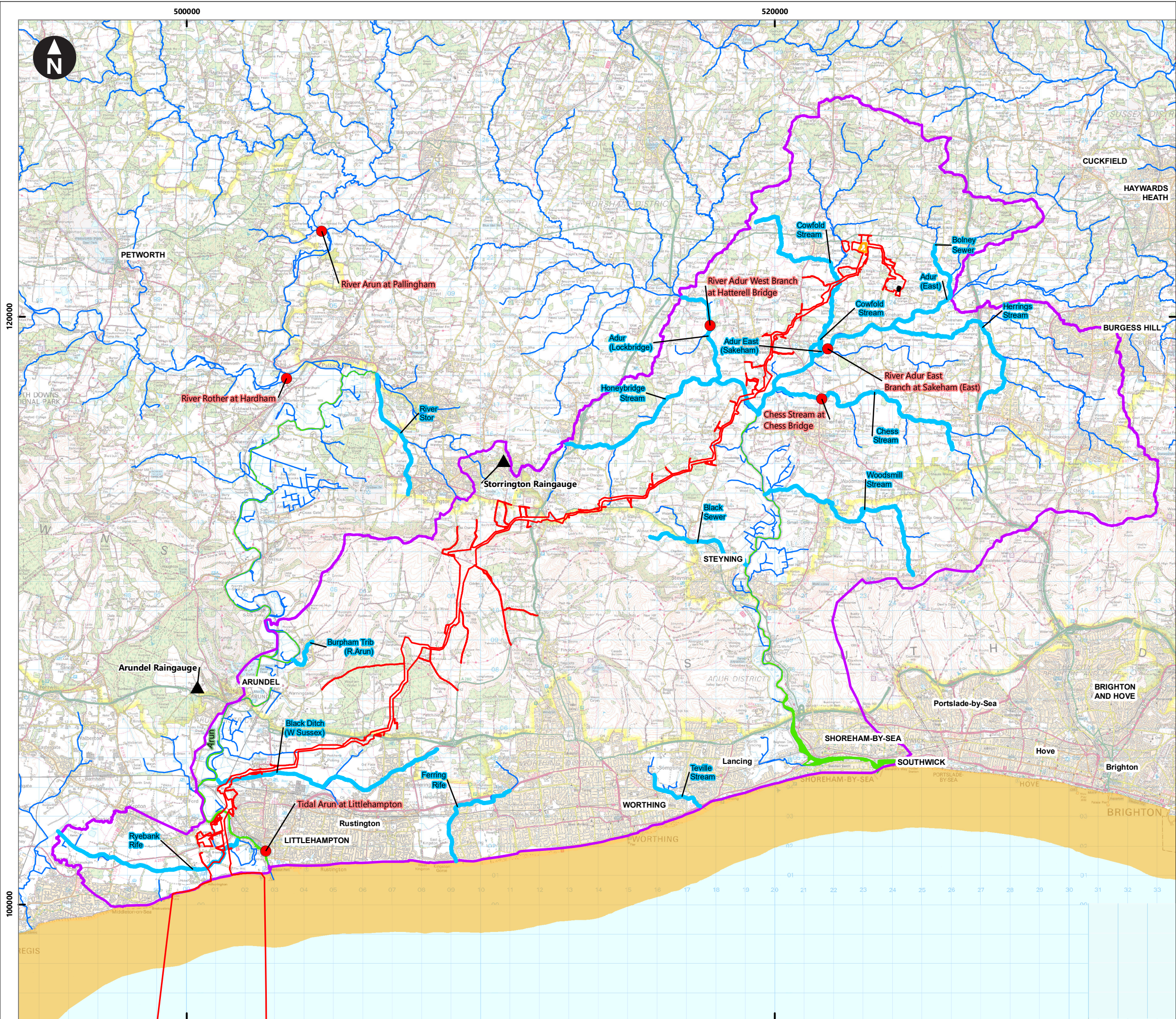


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Key

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- Oakendene substation site
- Bolney Substation extension (AIS) and (GIS)
- Water environment Study Area

Water Framework Directive (WFD) water bodies considered within Water environment chapter

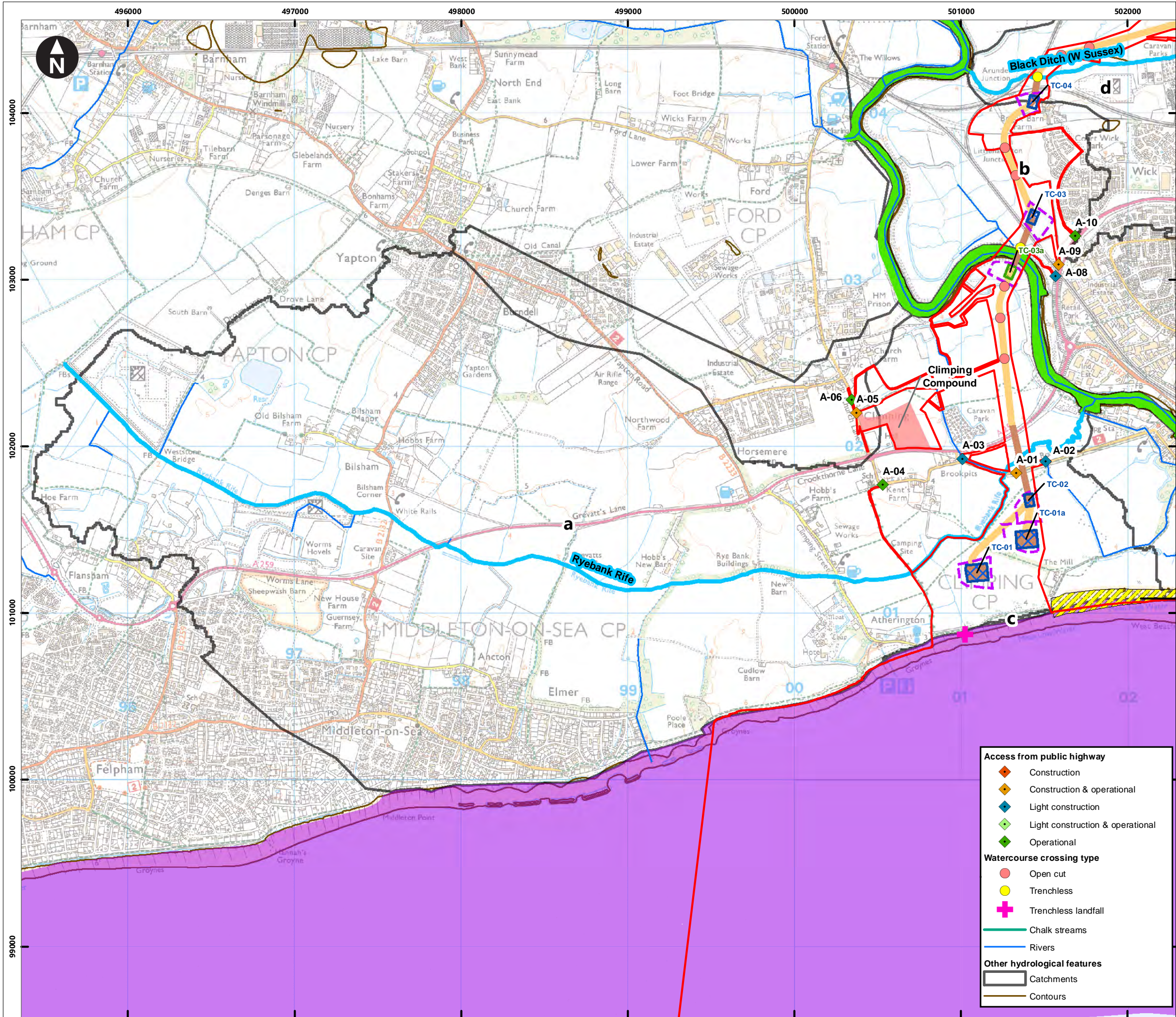
- WFD river water bodies
- WFD transitional water bodies
- WFD coastal water bodies
- Rivers
- River gauging locations
- Rain gauge

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Figure 26.1 Water environment Study Area and overview of surface water WFD water bodies and monitoring locations

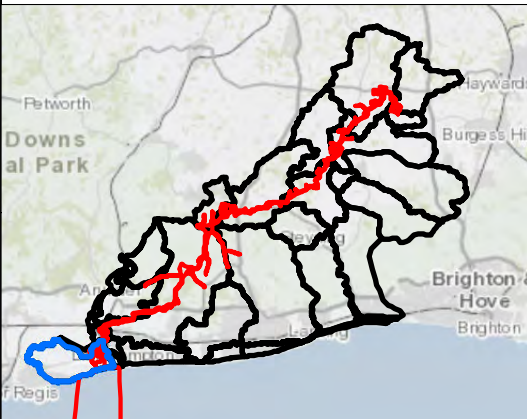
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 - WFD river water bodies



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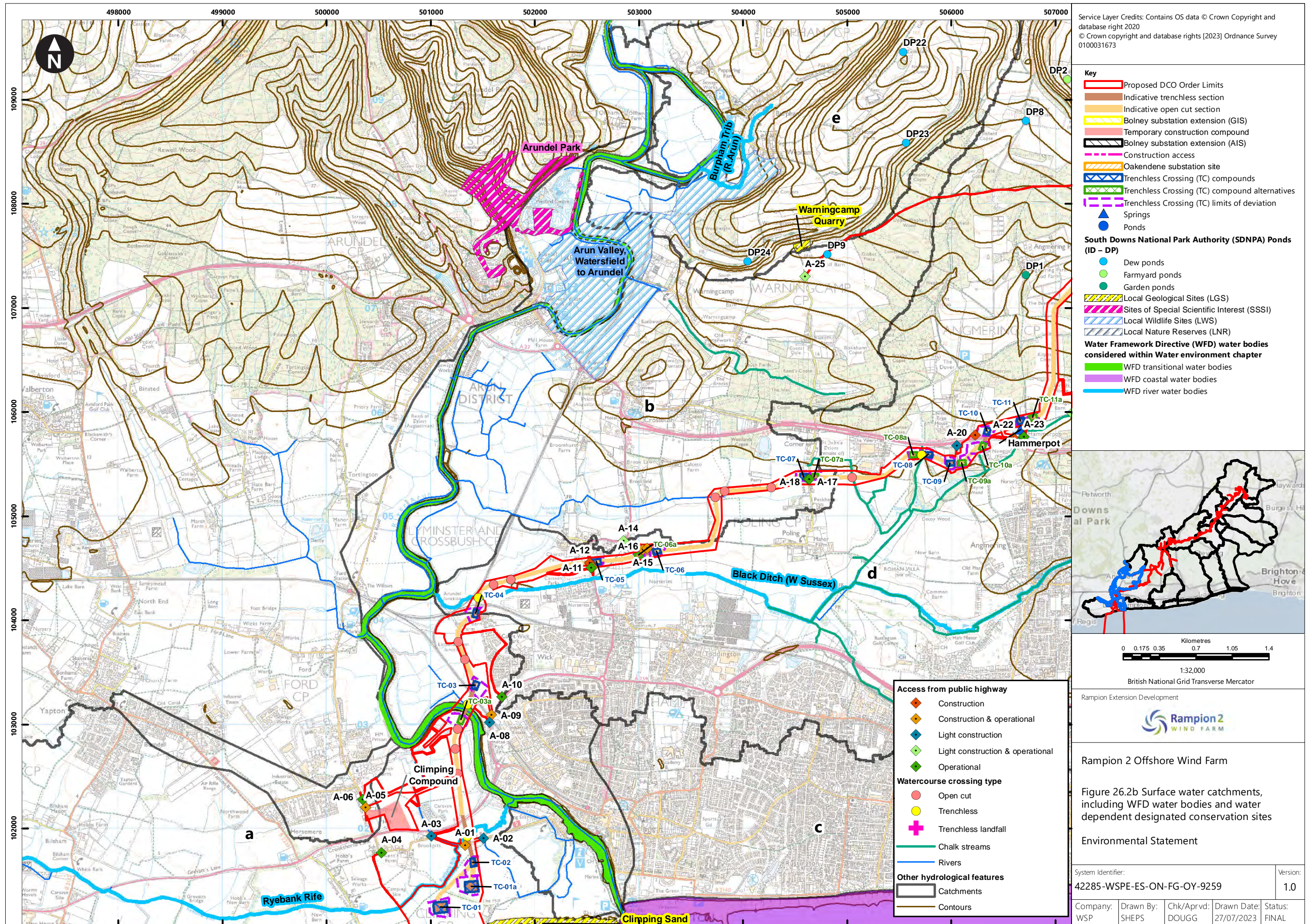


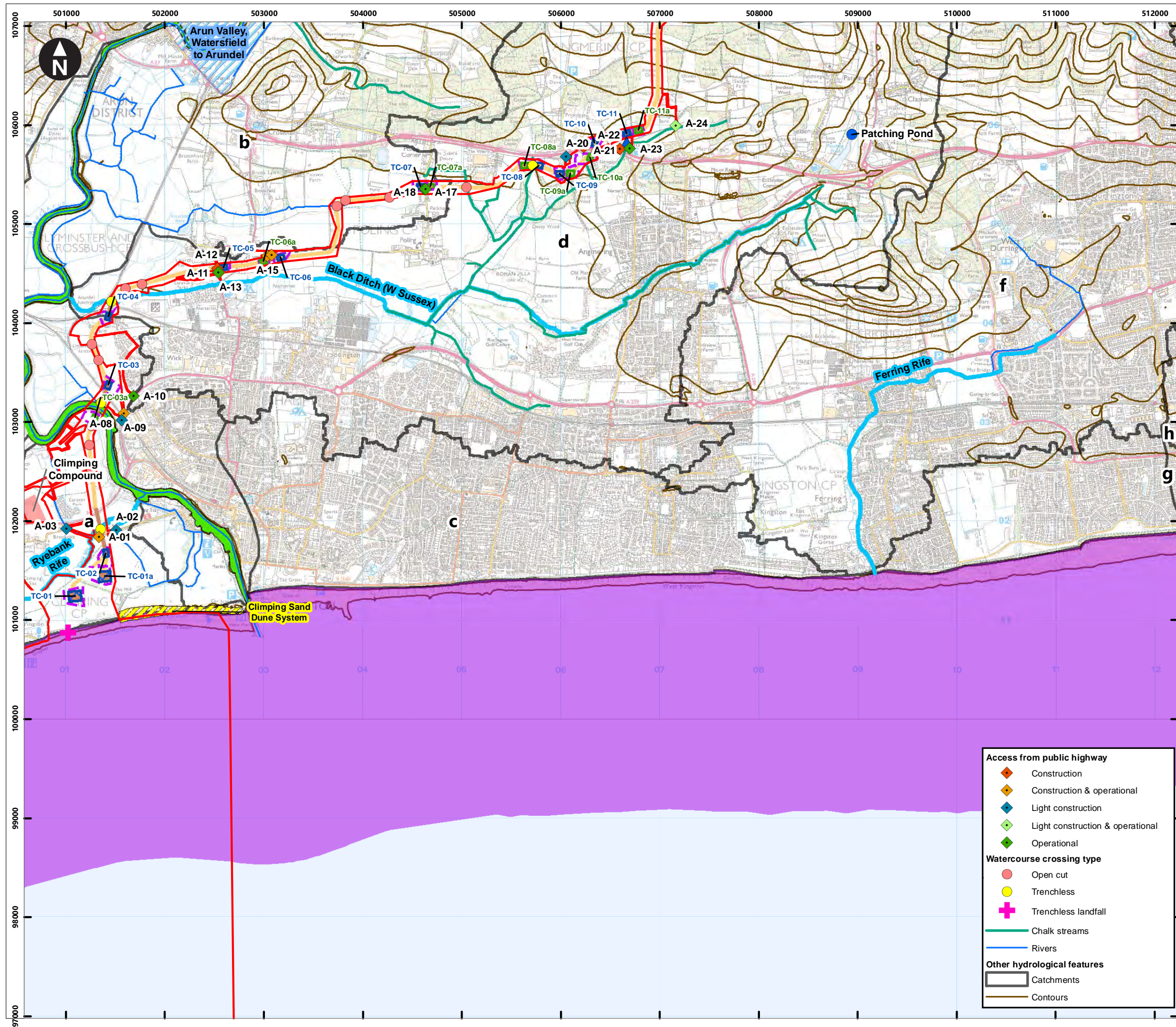
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Figure 26.2a Surface water catchments, including WFD water bodies and water dependent designated conservation sites

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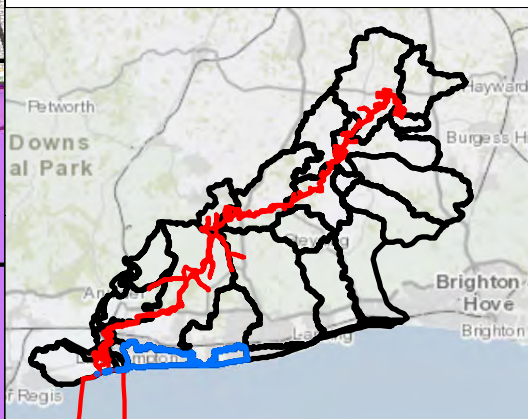
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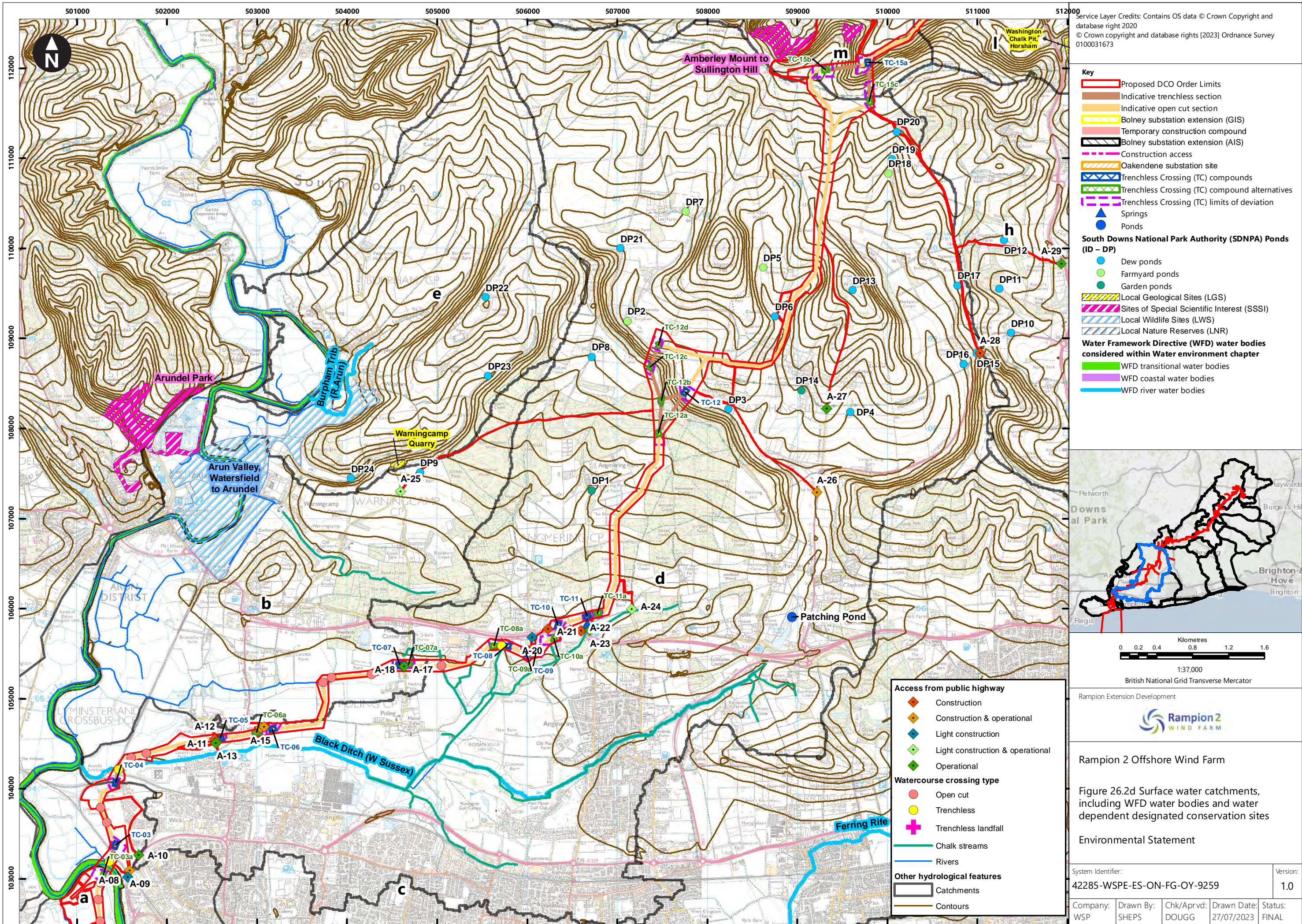
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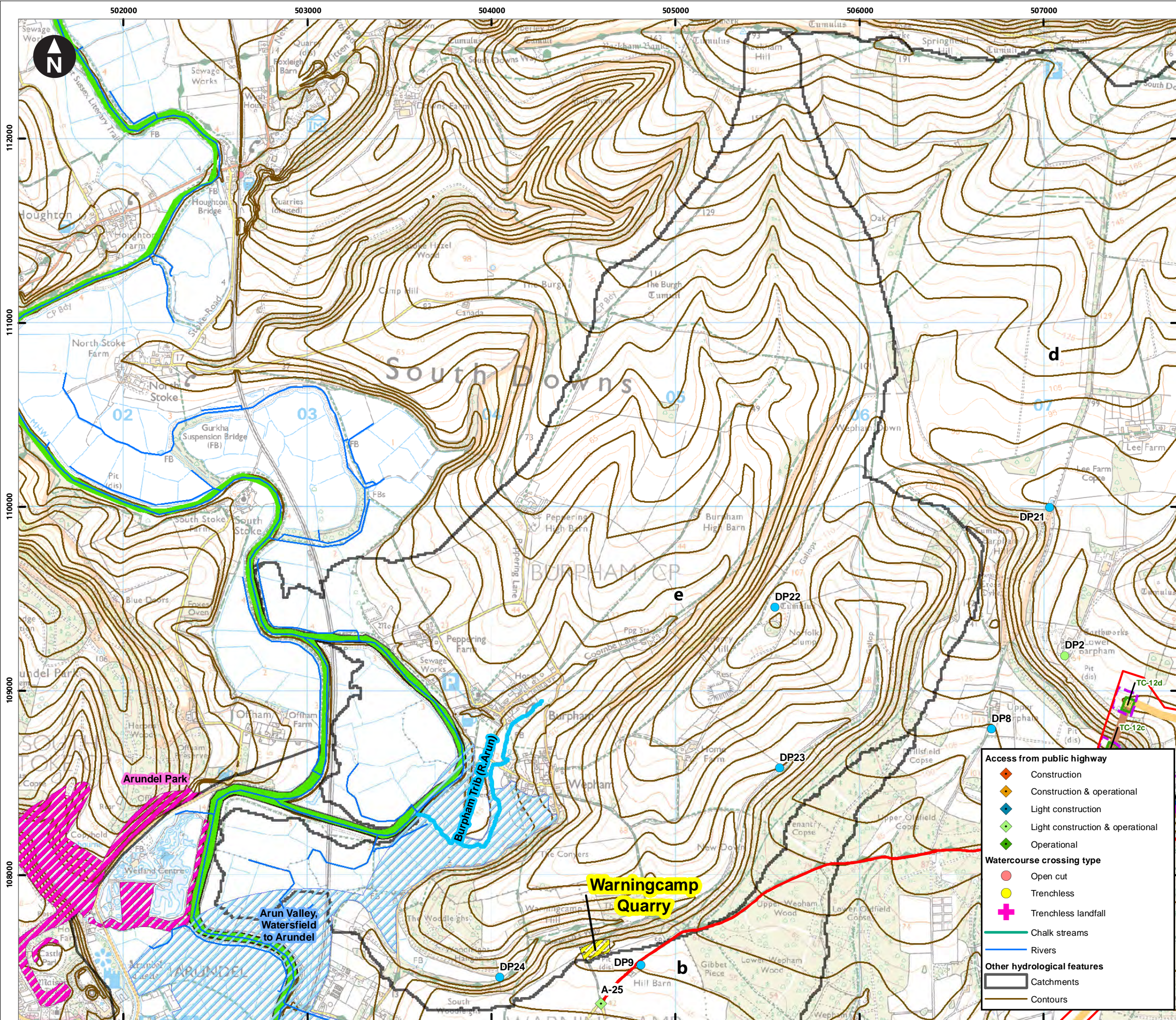
Figure 26.2c Surface water catchments, including WFD water bodies and water dependent designated conservation sites

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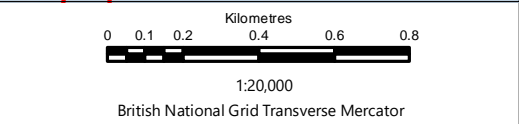
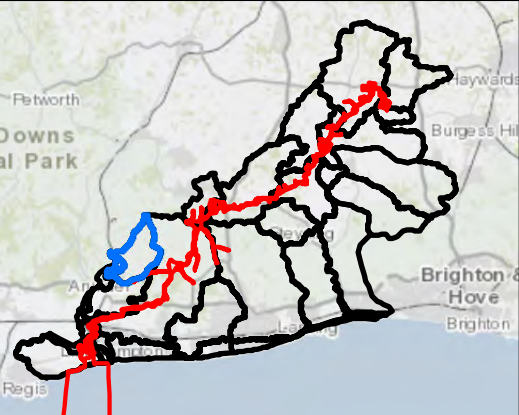
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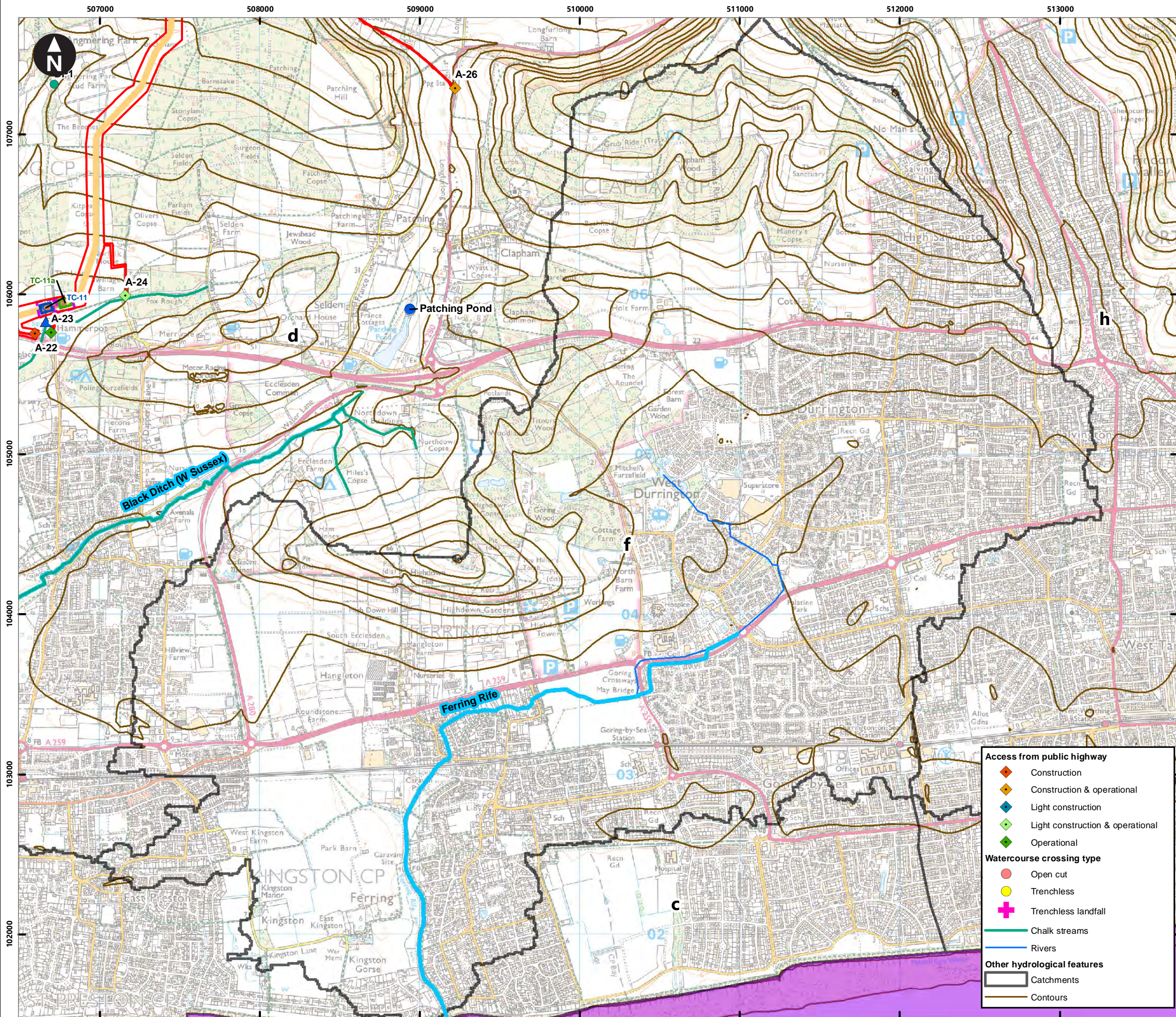
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Figure 26.2e Surface water catchments, including WFD water bodies and water dependent designated conservation sites

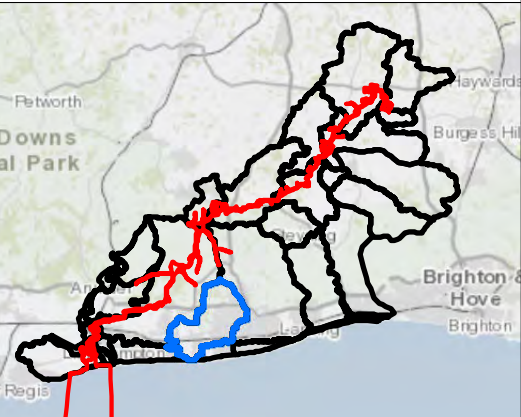
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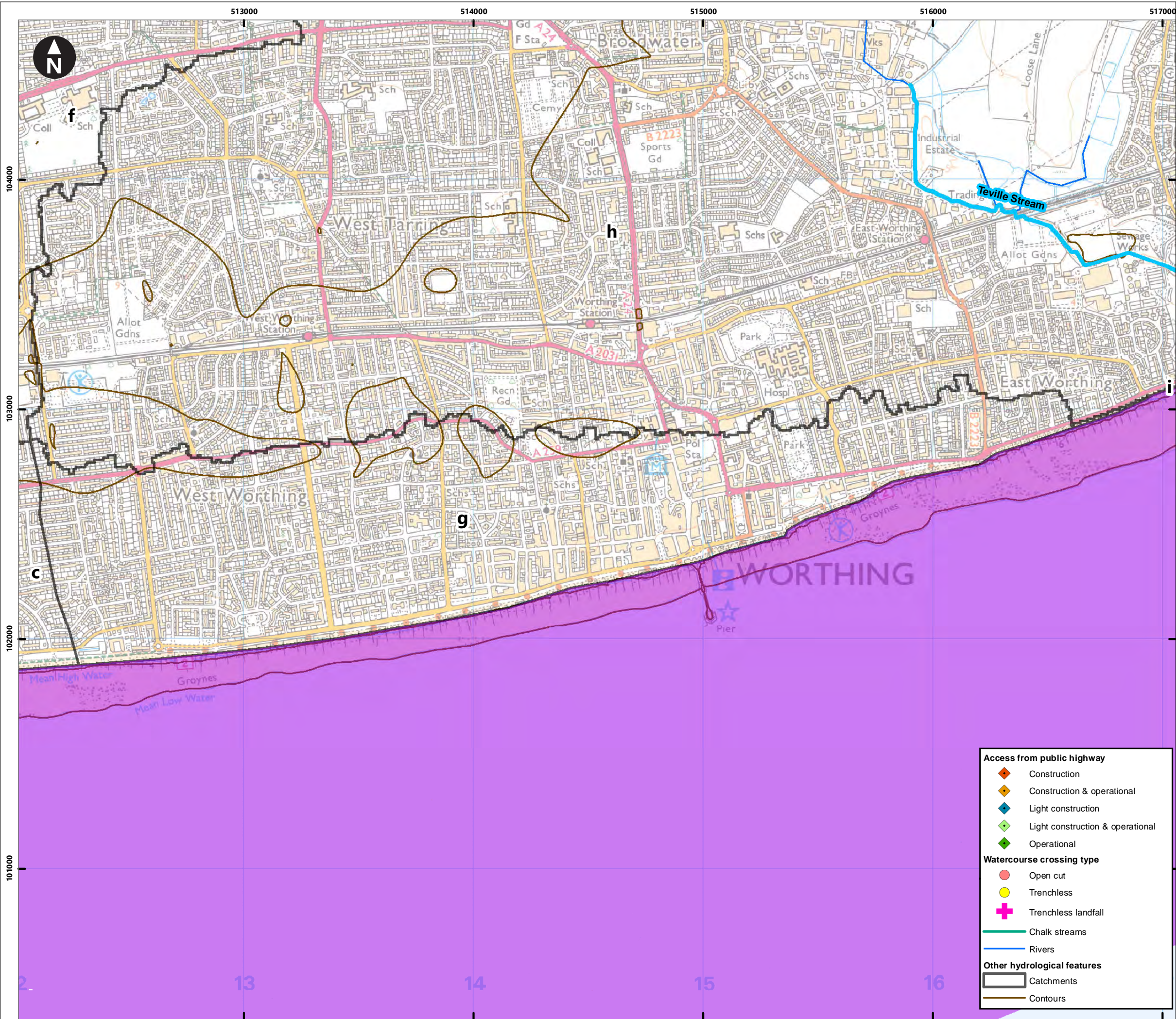


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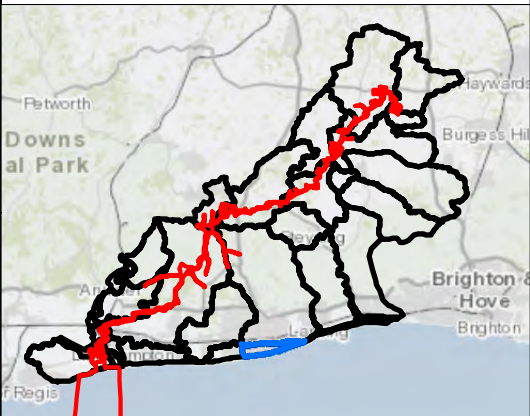
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Figure 26.2f Surface water catchments, including WFD water bodies and water dependent designated conservation sites
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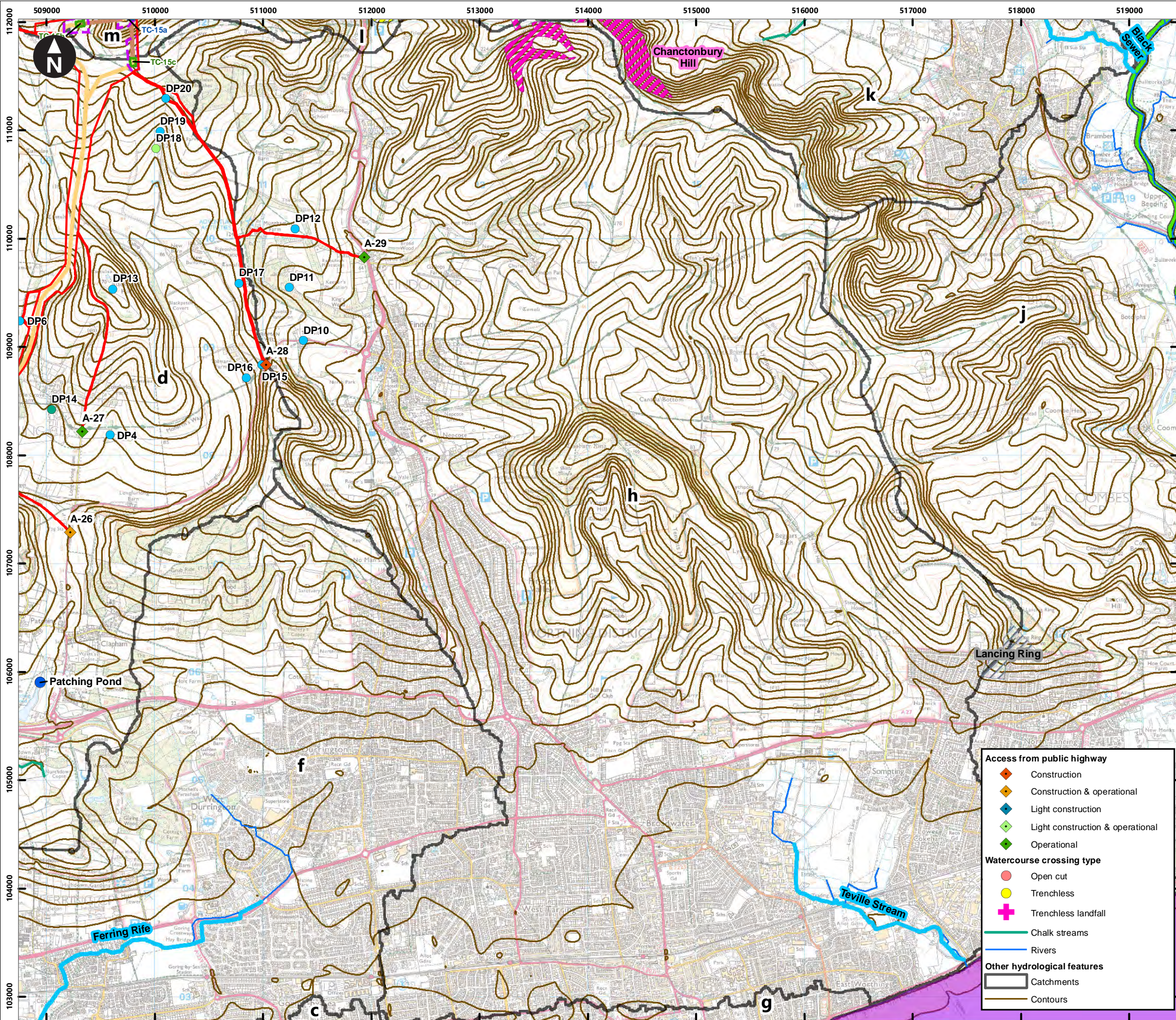


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Figure 26.2g Surface water catchments, including WFD water bodies and water dependent designated conservation sites

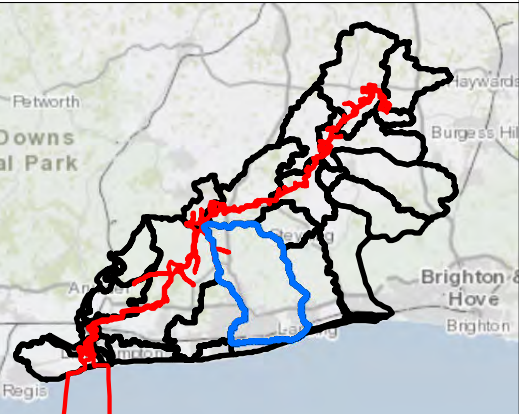
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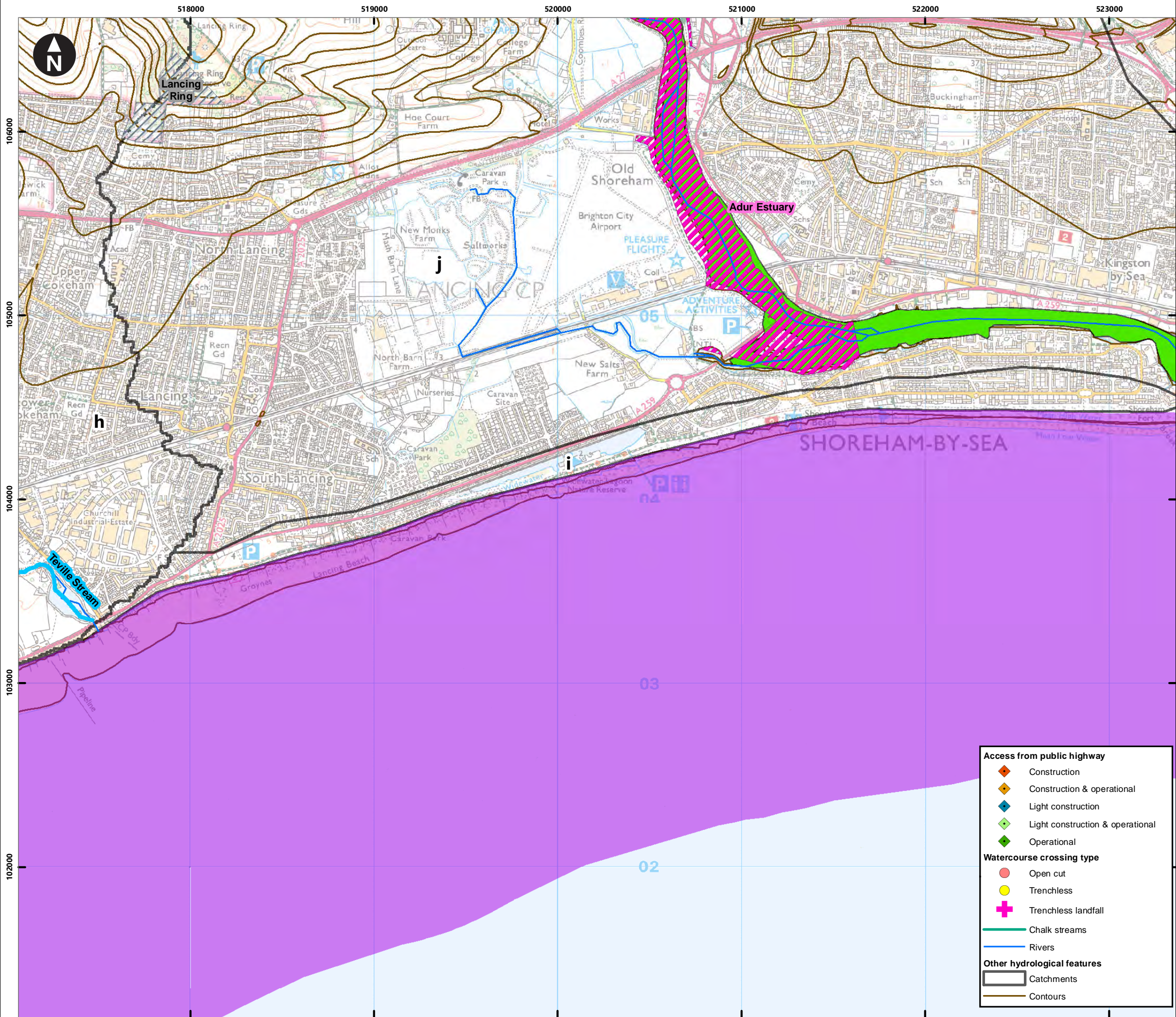


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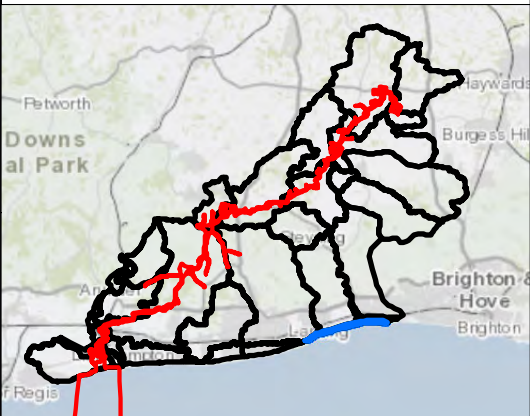
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Figure 26.2h Surface water catchments, including WFD water bodies and water dependent designated conservation sites
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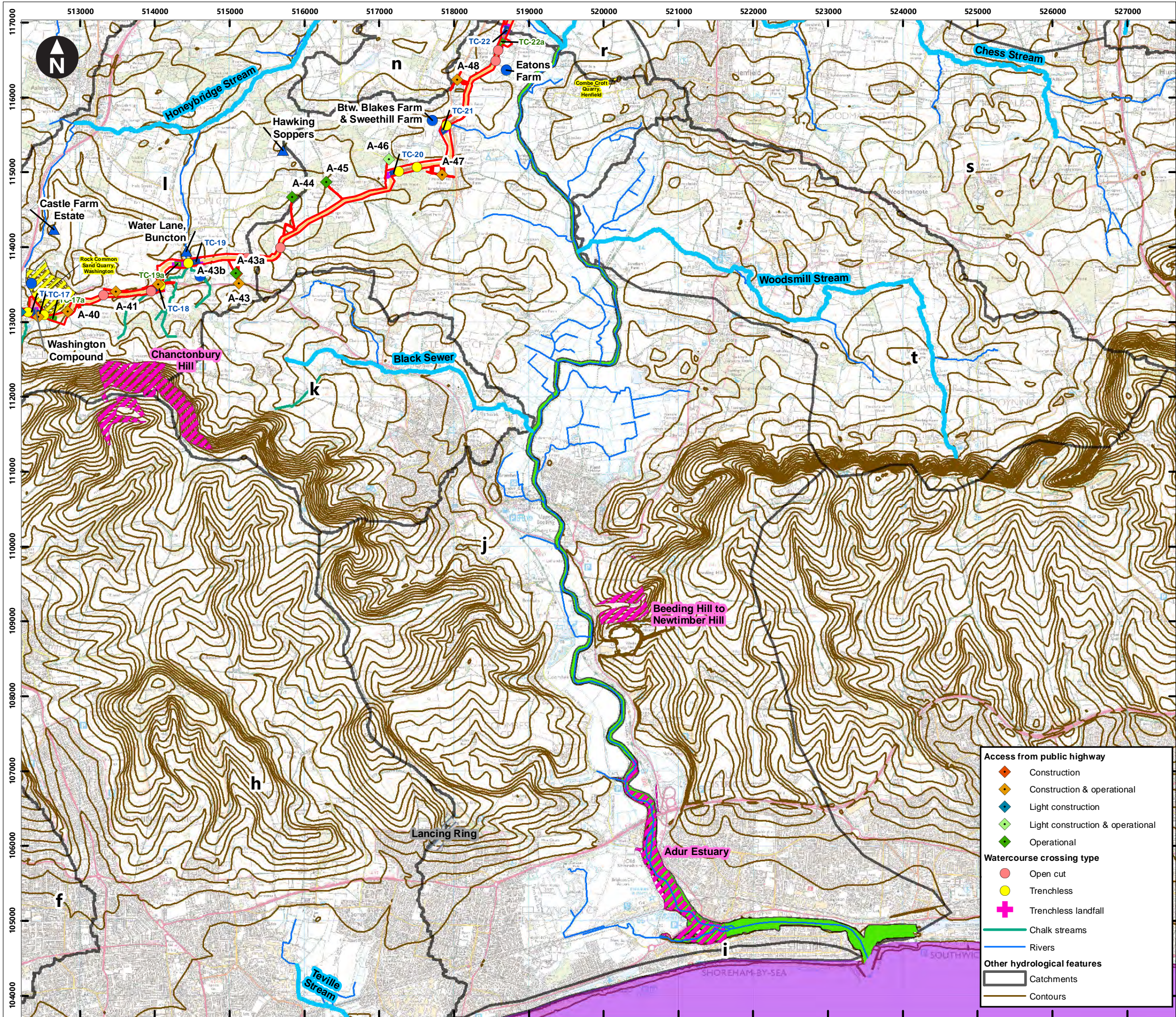
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Figure 26.2i Surface water catchments, including WFD water bodies and water dependent designated conservation sites

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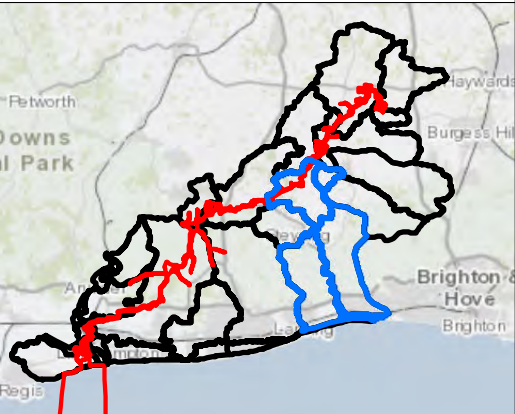
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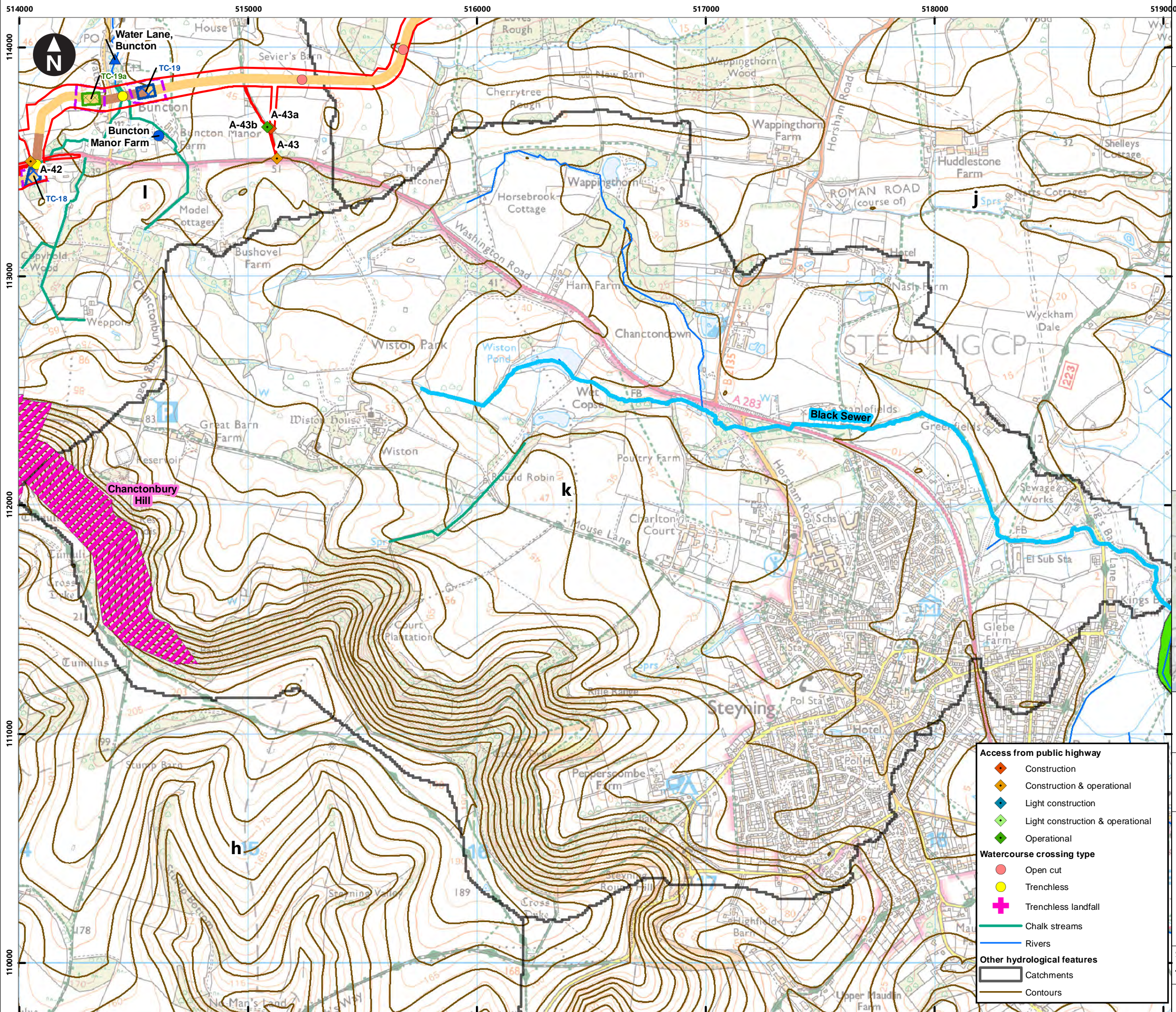
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Figure 26.2j Surface water catchments, including WFD water bodies and water dependent designated conservation sites

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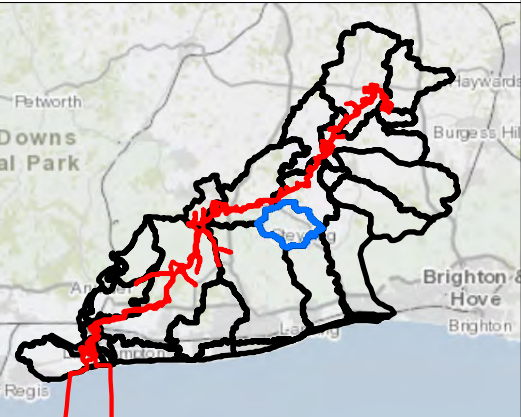
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- Access from public highway**
- Construction
 - Construction & operational
 - Light construction
 - Light construction & operational
 - Operational
- Watercourse crossing type**
- Open cut
 - Trenchless
 - Trenchless landfall
- Other hydrological features**
- Chalk streams
 - Rivers
 - Catchments
 - Contours

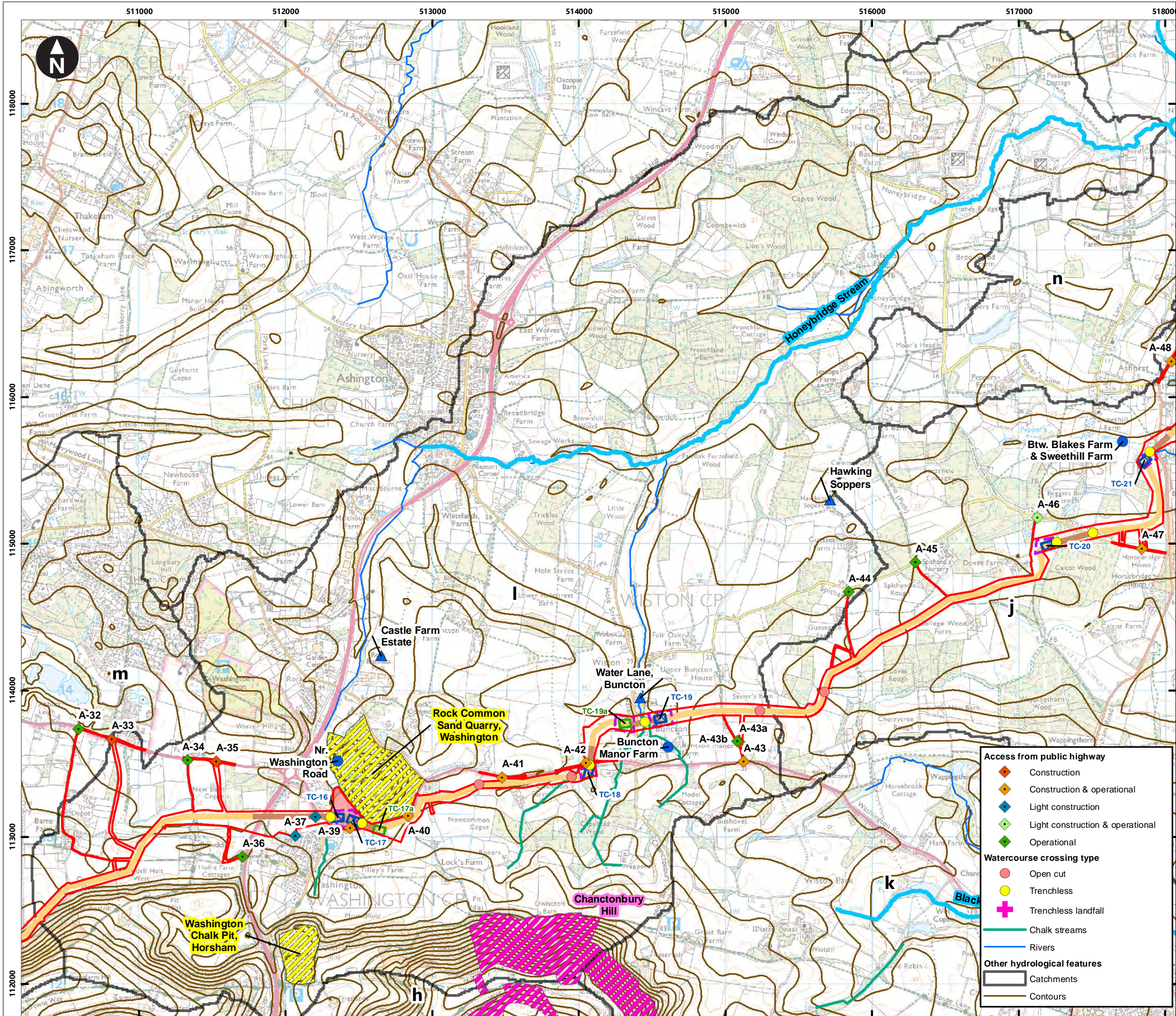
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Figure 26.2k Surface water catchments, including WFD water bodies and water dependent designated conservation sites

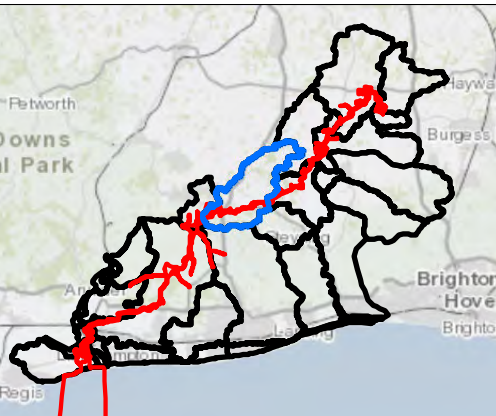
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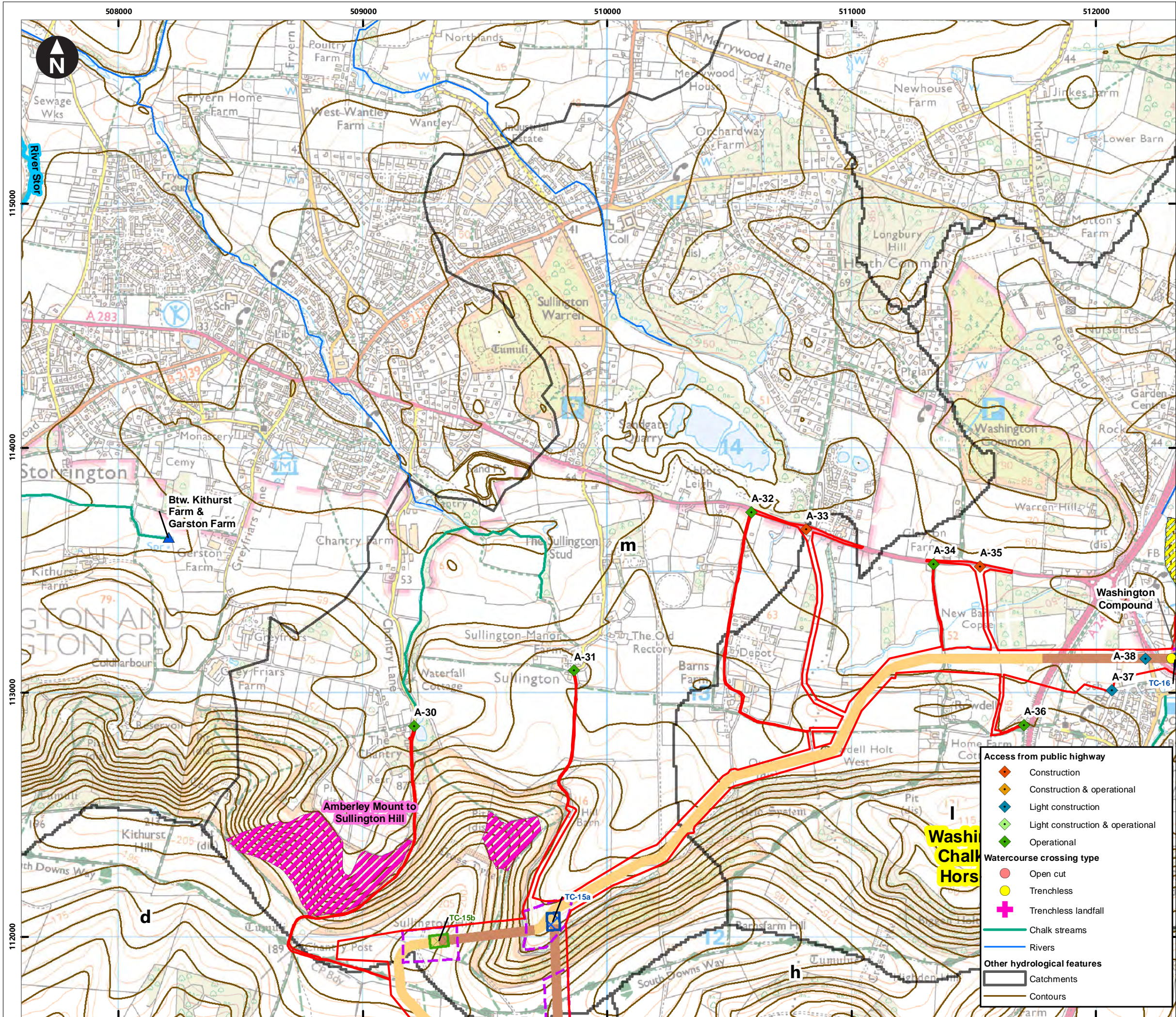
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Figure 26.21 Surface water catchments, including WFD water bodies and water dependent designated conservation sites

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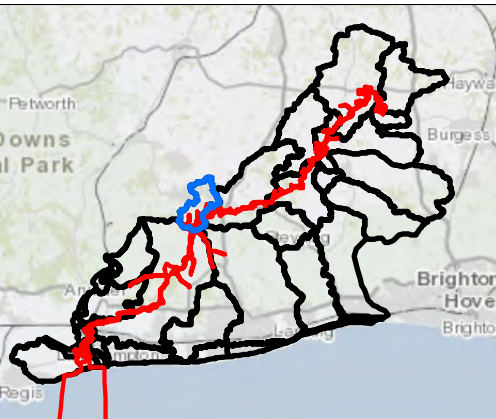
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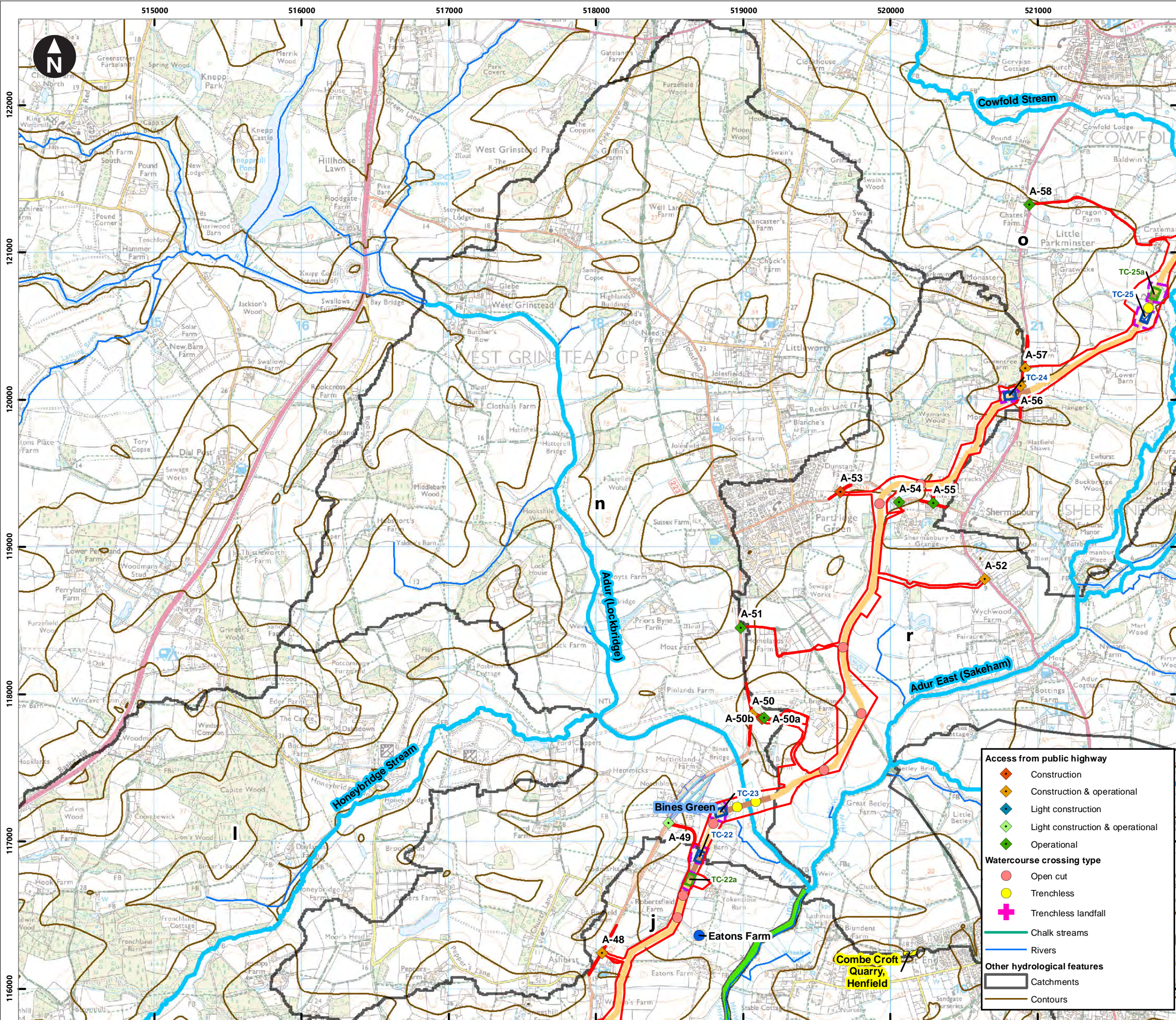
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Figure 26.2m Surface water catchments, including WFD water bodies and water dependent designated conservation sites

Environmental Statement

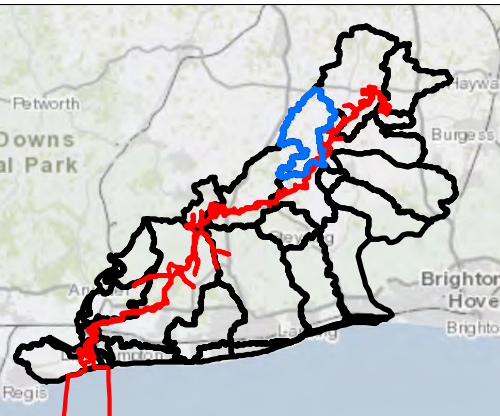
System Identifier: 42285-WSPE-ES-ON-FG-OY-9259 Version: 1.0

Company: WSP	Drawn By: SHEPS	Chk/Aprvd: DOUGG	Drawn Date: 27/07/2023	Status: FINAL
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- Key**
- Proposed DCO Order Limits
 - Indicative trenchless section
 - Indicative open cut section
 - Bolney substation extension (GIS)
 - Temporary construction compound
 - Bolney substation extension (AIS)
 - Construction access
 - Oakendene substation site
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 - Trenchless Crossing (TC) compound alternatives
 - Trenchless Crossing (TC) limits of deviation
 - Springs
 - Ponds
- South Downs National Park Authority (SDNPA) Ponds (ID - DP)**
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 - Farmyard ponds
 - Garden ponds
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 - Local Nature Reserves (LNR)
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- WFD transitional water bodies
 - WFD coastal water bodies
 - WFD river water bodies



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Kilometres
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British National Grid Transverse Mercator

Rampion Extension Development

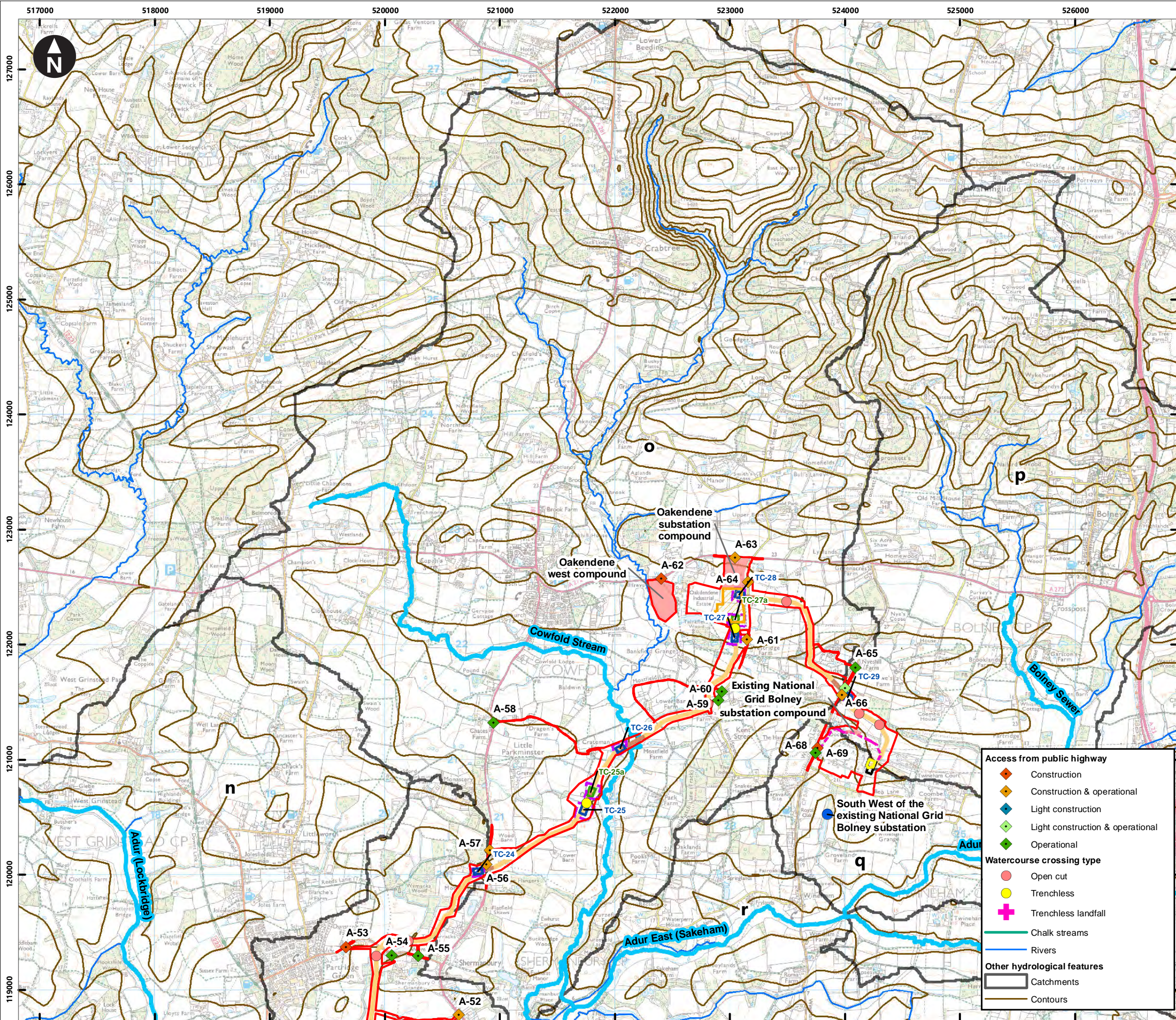


Rampion 2 Offshore Wind Farm

Figure 26.2n Surface water catchments, including WFD water bodies and water dependent designated conservation sites

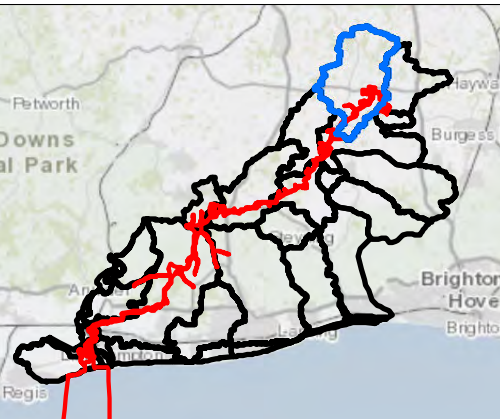
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42285-WSPE-ES-ON-FG-OY-9259		1.0	
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British National Grid Transverse Mercator

Rampion Extension Development

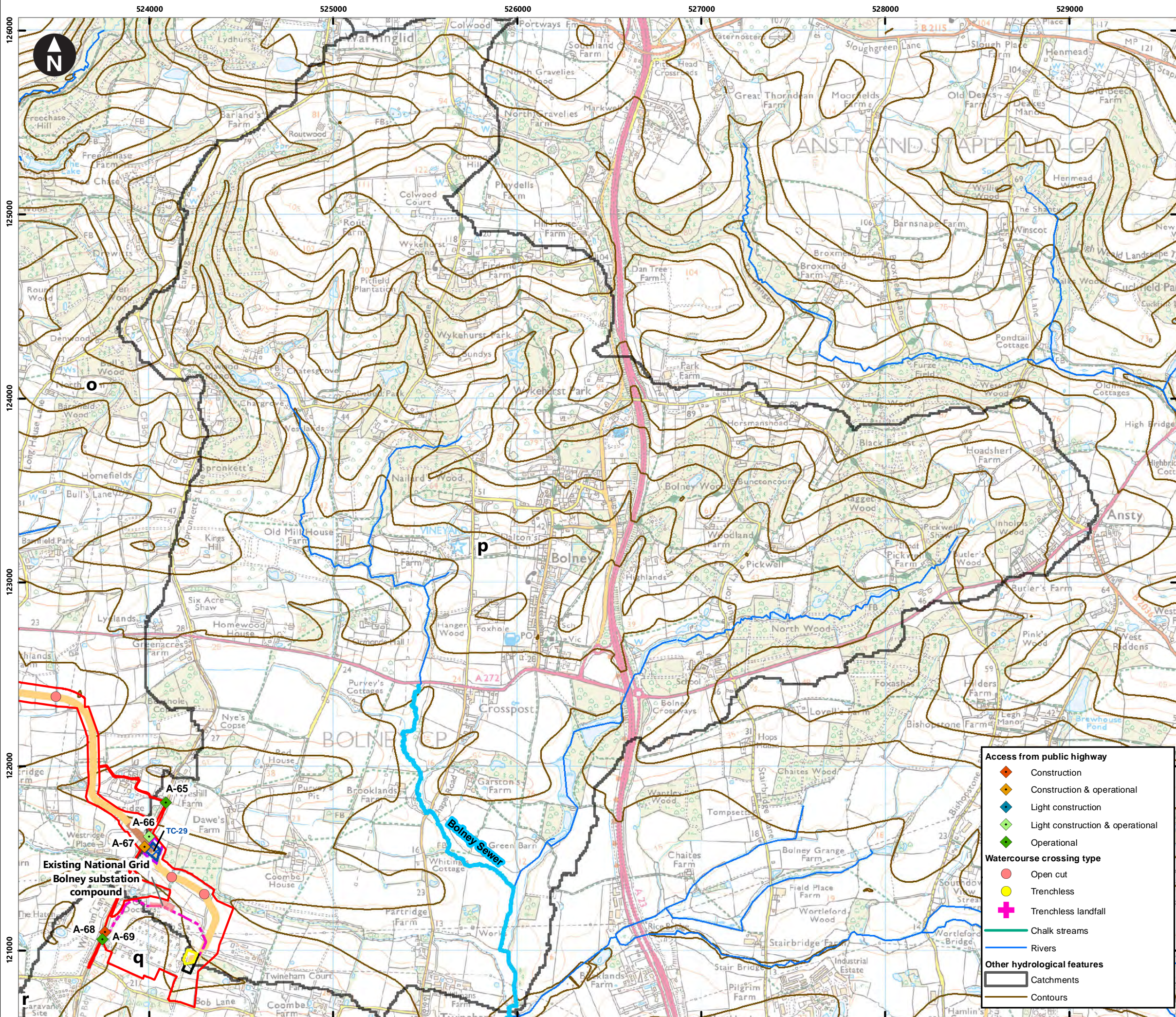


Rampion 2 Offshore Wind Farm

Figure 26.2o Surface water catchments, including WFD water bodies and water dependent designated conservation sites

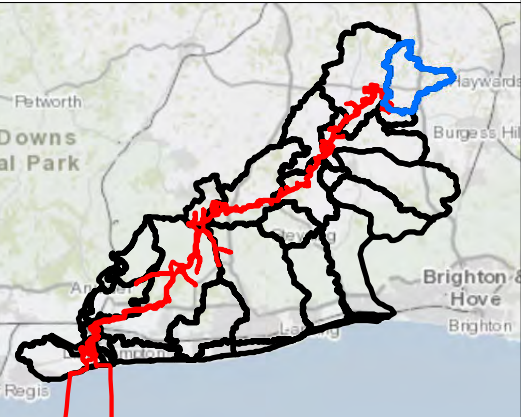
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 - WFD river water bodies



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British National Grid Transverse Mercator

Rampion Extension Development



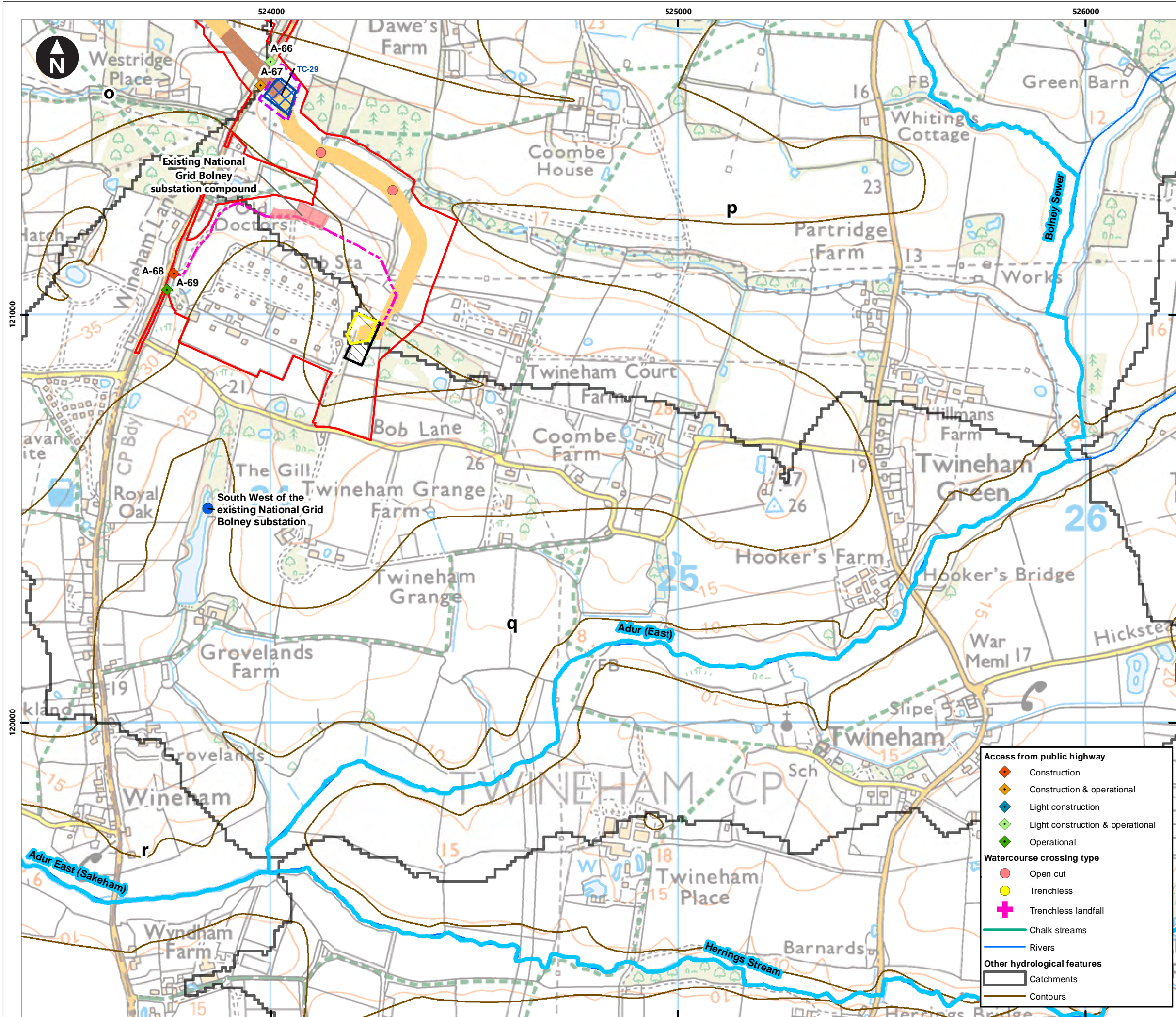
Rampion 2 Offshore Wind Farm

Figure 26.2p Surface water catchments, including WFD water bodies and water dependent designated conservation sites

Environmental Statement

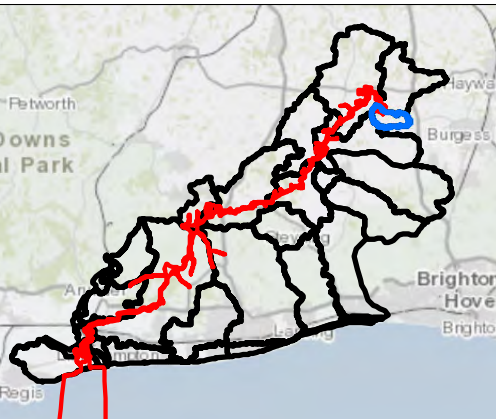
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Company: WSP	Drawn By: SHEPS	Chk/Prvrd: DOUGG	Drawn Date: 27/07/2023	Status: FINAL
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British National Grid Transverse Mercator

Rampion Extension Development



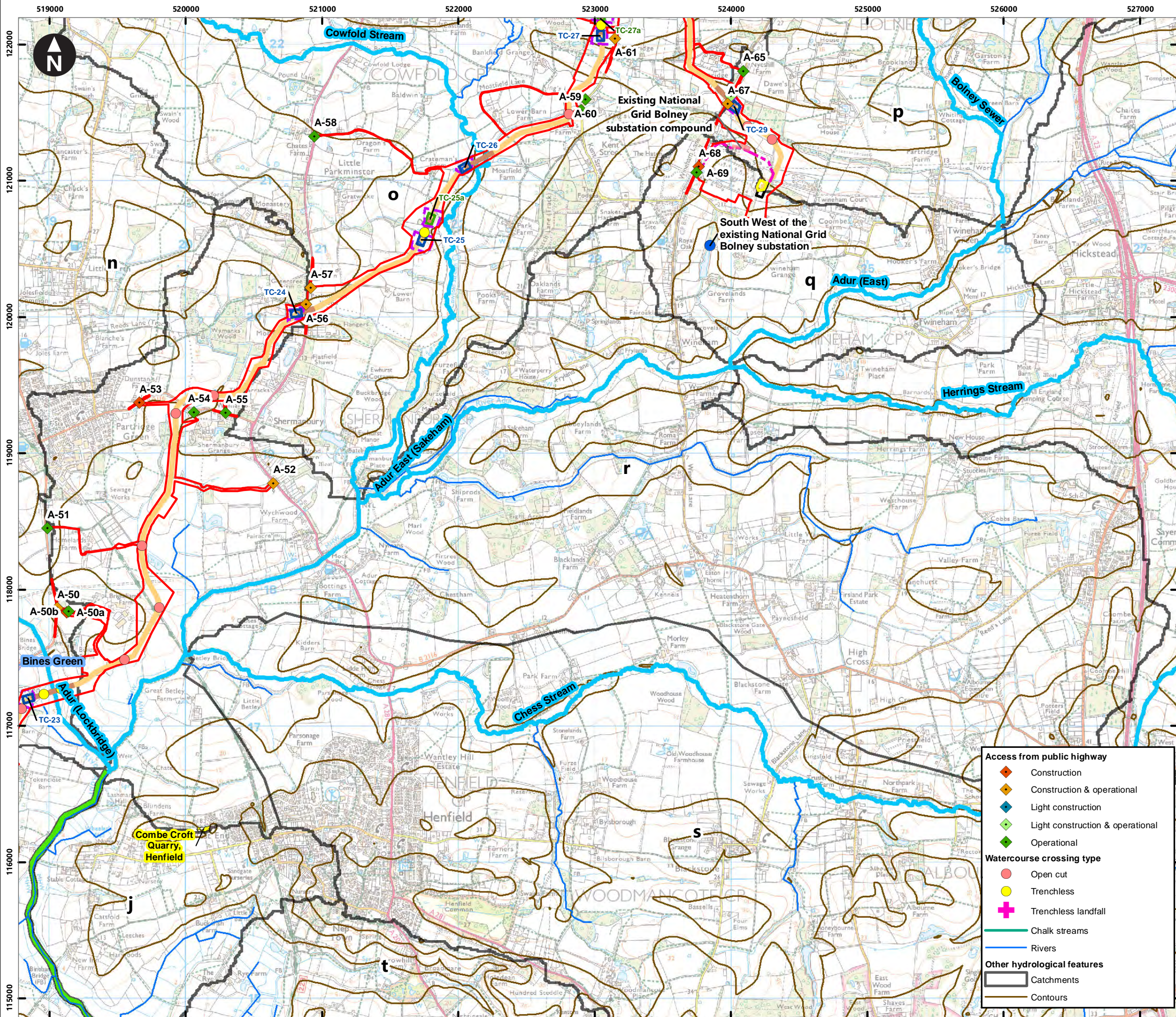
Rampion 2 Offshore Wind Farm

Figure 26.2q Surface water catchments, including WFD water bodies and water dependent designated conservation sites

Environmental Statement

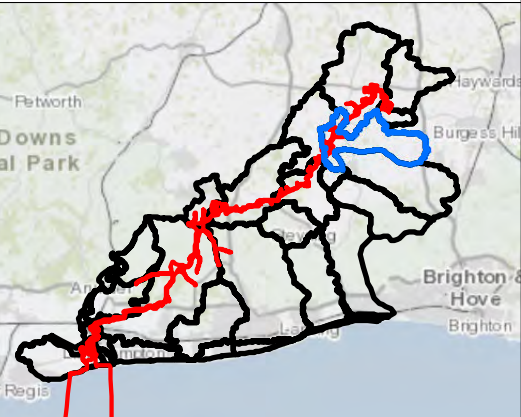
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Company: WSP	Drawn By: SHEPS	Chk/Aprvd: DOUGG	Drawn Date: 27/07/2023	Status: FINAL
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British National Grid Transverse Mercator

Rampion Extension Development

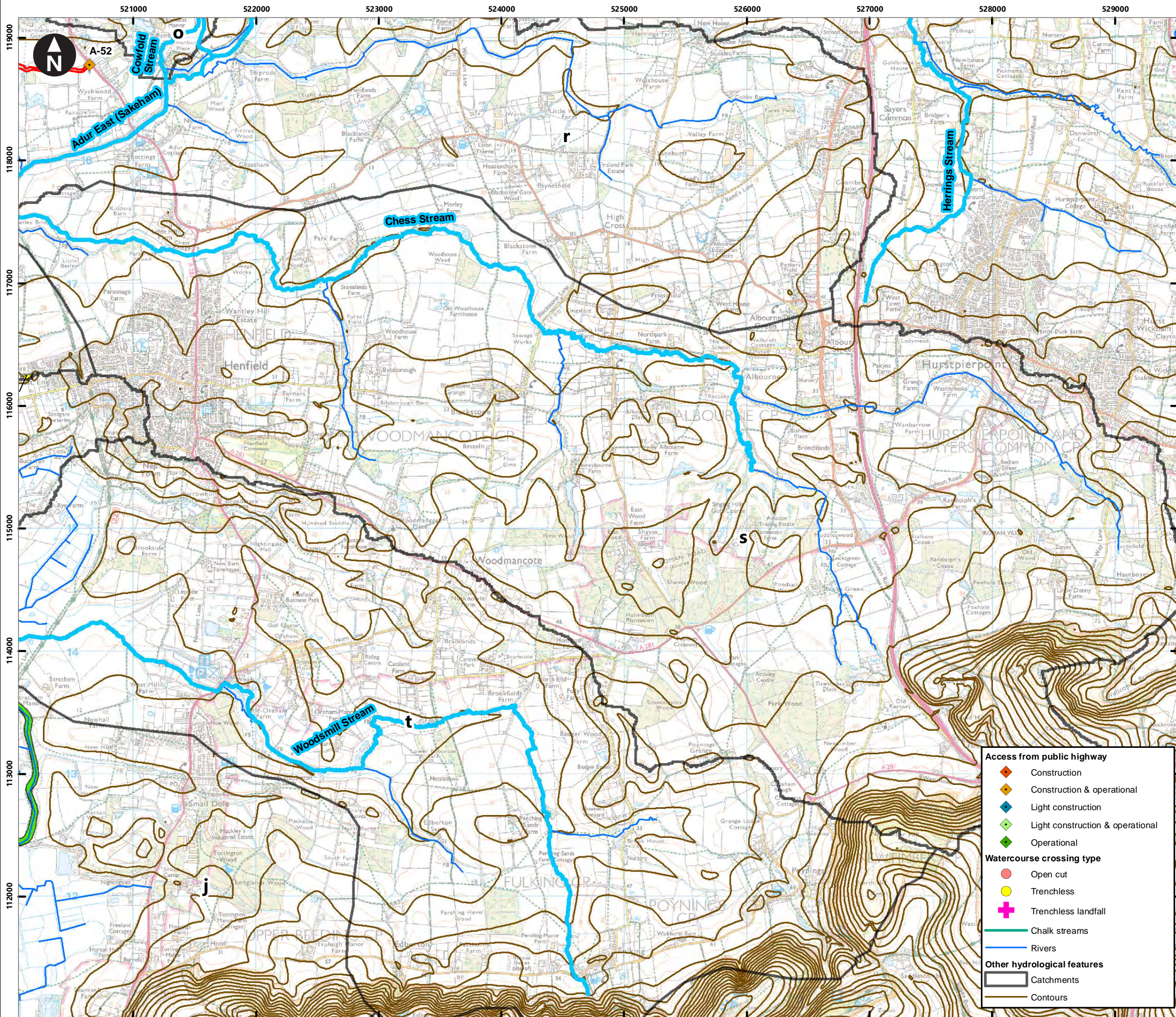


Rampion 2 Offshore Wind Farm

Figure 26.2r Surface water catchments, including WFD water bodies and water dependent designated conservation sites

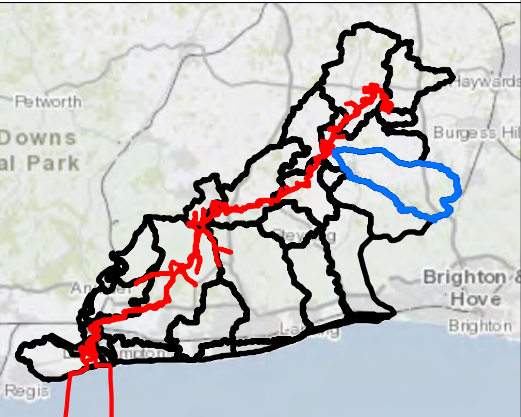
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 - WFD coastal water bodies
 - WFD river water bodies



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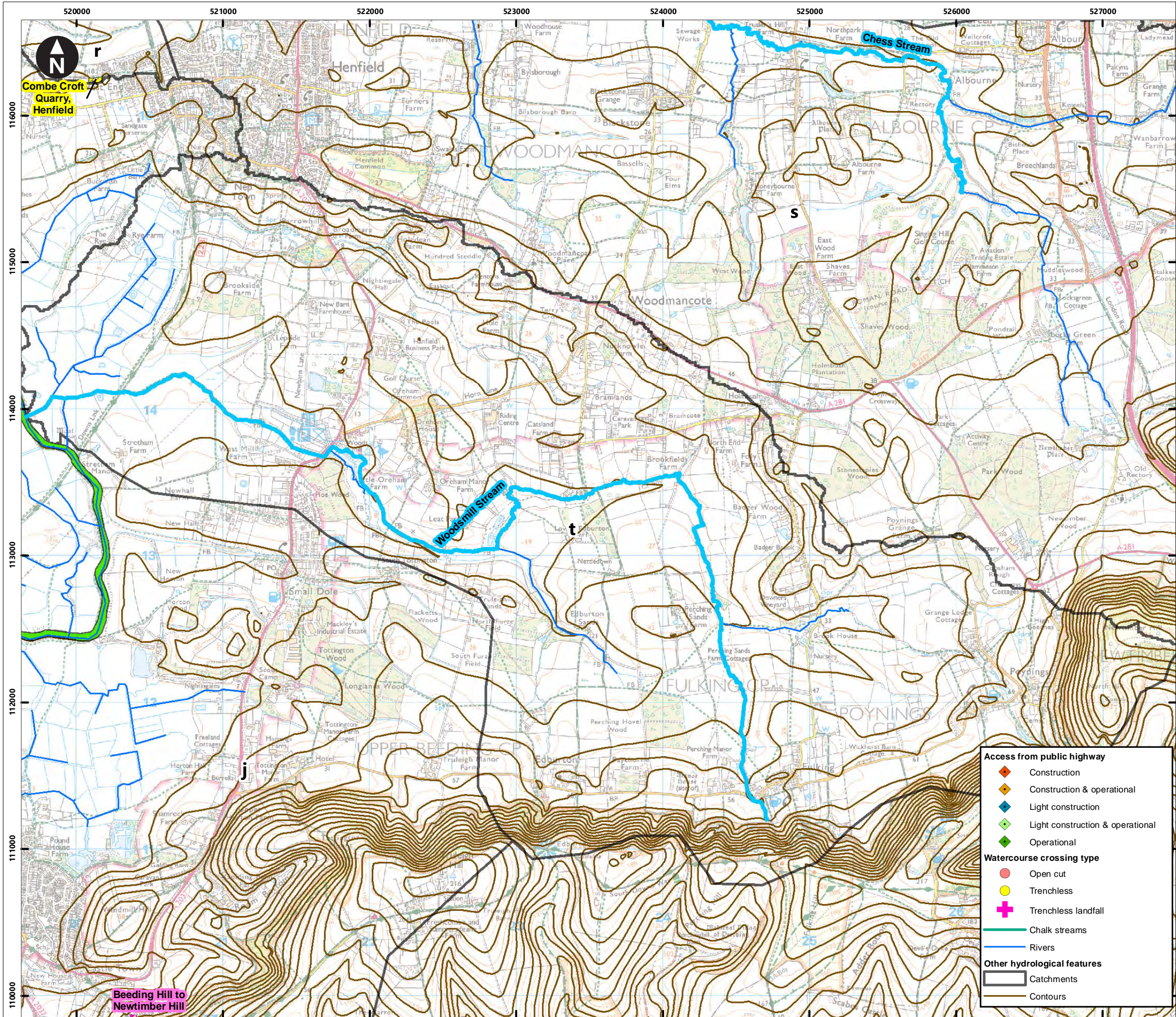
Rampion Extension Development
Rampion 2
WIND FARM

Rampion 2 Offshore Wind Farm

Figure 26.2s Surface water catchments, including WFD water bodies and water dependent designated conservation sites

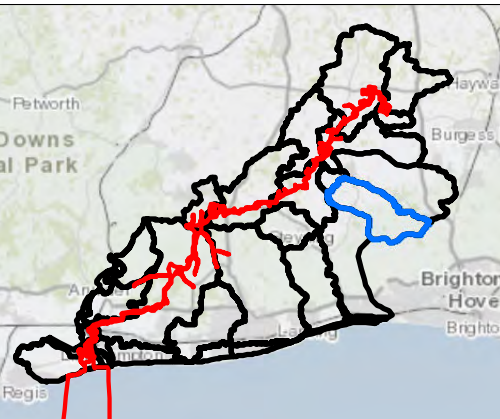
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42285-WSPE-ES-ON-FG-OY-9259		1.0	
Company:	Drawn By:	Chk/Prvrd:	Drawn Date:
WSP	SHEPS	DOUGG	27/07/2023
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 - WFD river water bodies



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Kilometres
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British National Grid Transverse Mercator

Rampion Extension Development

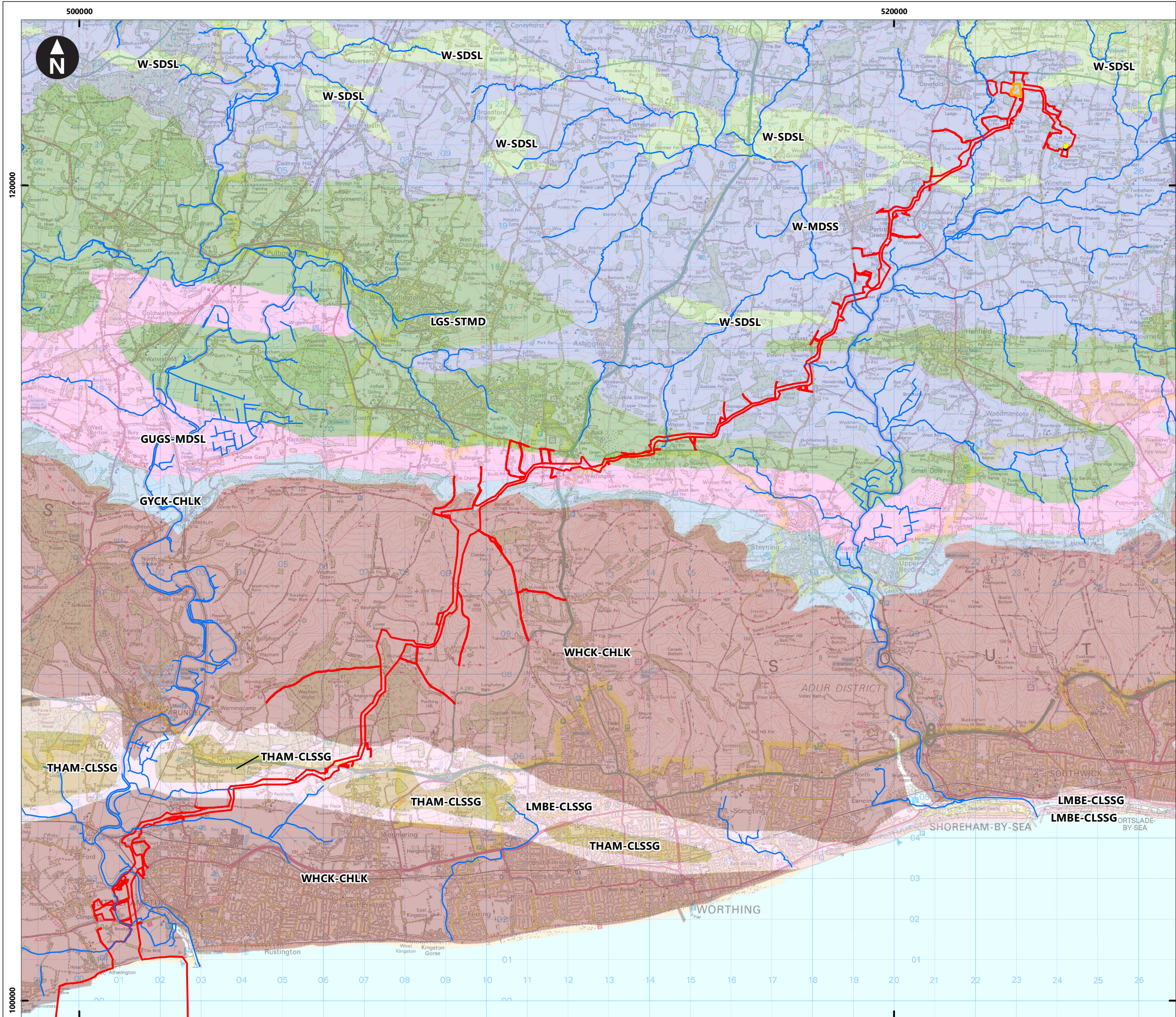


Rampion 2 Offshore Wind Farm

Figure 26.2t Surface water catchments, including WFD water bodies and water dependent designated conservation sites

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OY-9259		Version: 1.0
Company: WSP	Drawn By: SHEPS	Chk/Aprvd: DOUGG
Drawn Date: 27/07/2023	Status: FINAL	



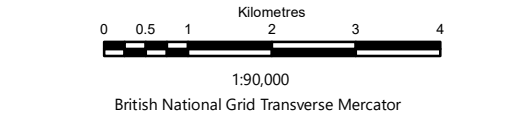
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Key

- Proposed DCO Order limits
- Bolney Substation extension (GIS)
- Bolney Substation extension (AIS)
- Oakendene substation site
- Rivers

Bedrock geology

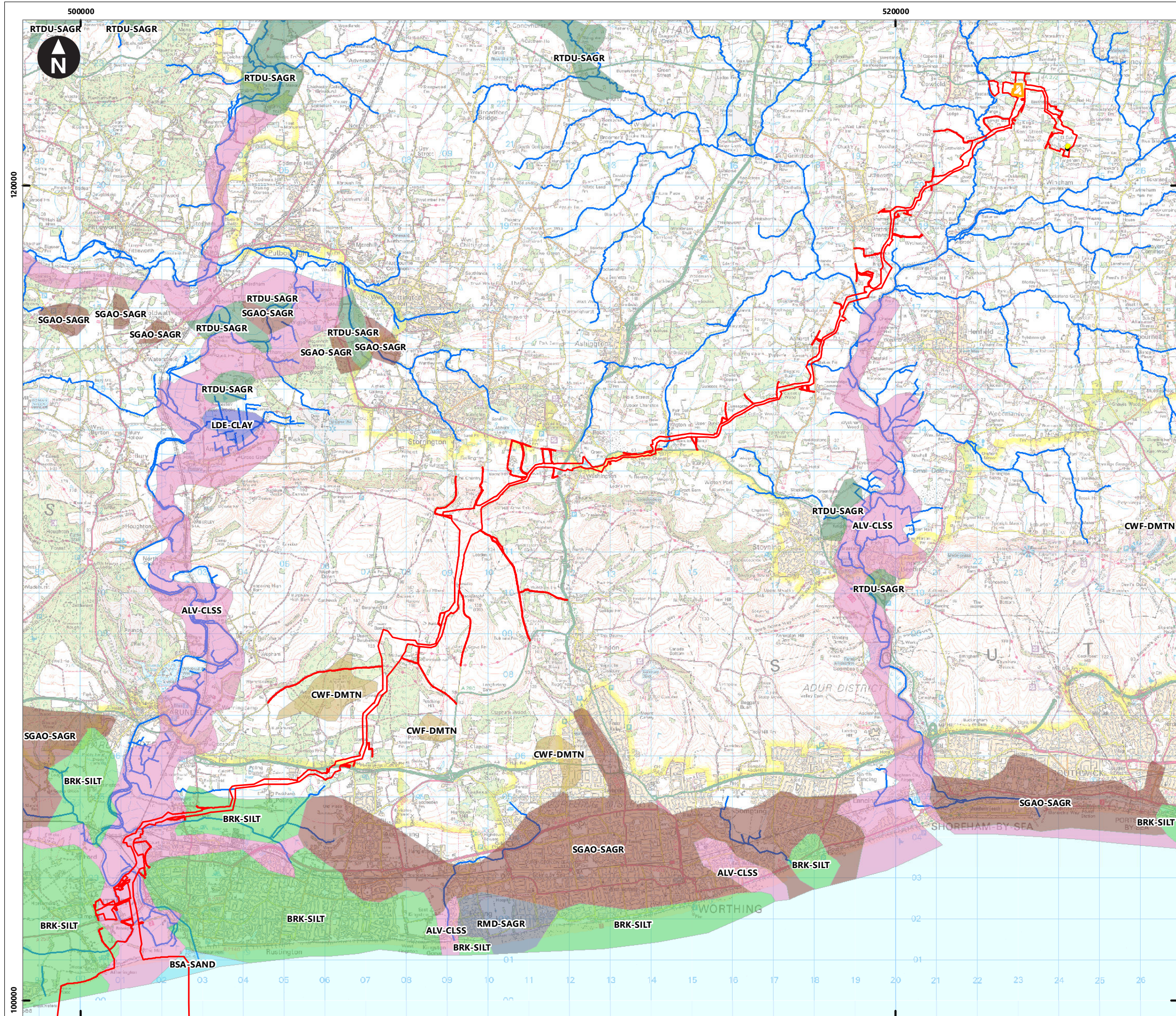
- GUGS-MDSL Gault formation and Upper Greensand Formation (undifferentiated) - Mudstone, sandstone and limestone
- GYCK-CHLK Grey Chalk Subgroup - Chalk
- LGS-STMD Lower Greensand Group - Sandstone and mudstone
- LMBE-CLSSG Lambeth Group - Clay, silt, sand and gravel
- THAM-CLSSG Thames Group - Clay, silt, sand and gravel
- W-MDSS Wealden Group - Mudstone, siltstone and sandstone
- W-SDSL Wealden Group - Sandstone and siltstone, interbedded
- WHCK-CHLK White Chalk Subgroup - Chalk



Rampion Extension Development

Rampion 2 Offshore Wind Farm
Figure 26.3 Solid geology (1:625,000)
Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OY-1662				Version: 1.0
Company: WSP	Drawn By: SHEPS	Chk/Prvrd: DOUGG	Drawn Date: 05/07/2023	Status: FINAL



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Key

- Proposed DCO Order limits
- Bolney Substation extension (GIS)
- Bolney Substation extension (AIS)
- Oakendene substation site
- Rivers

Superficial geology

- ALV-CLSS Alluvium; clay, silt and sand
- BRK-SILT Brickearth; silt
- BSA-SAND Blown sand; sand
- CWF-DMTN Clay with flints; diamicton
- LDE-CLAY Lacustrine deposits (undifferentiated); clay
- RMD-SAGR Raised marine deposits (undifferentiated); sand and gravel
- RTDU-SAGR River terrace deposits (undifferentiated); sand and gravel
- SGAO-SAGR Sand and gravel of uncertain age and origin; sand and gravel

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Kilometres
1:90,000
British National Grid Transverse Mercator

Rampion Extension Development

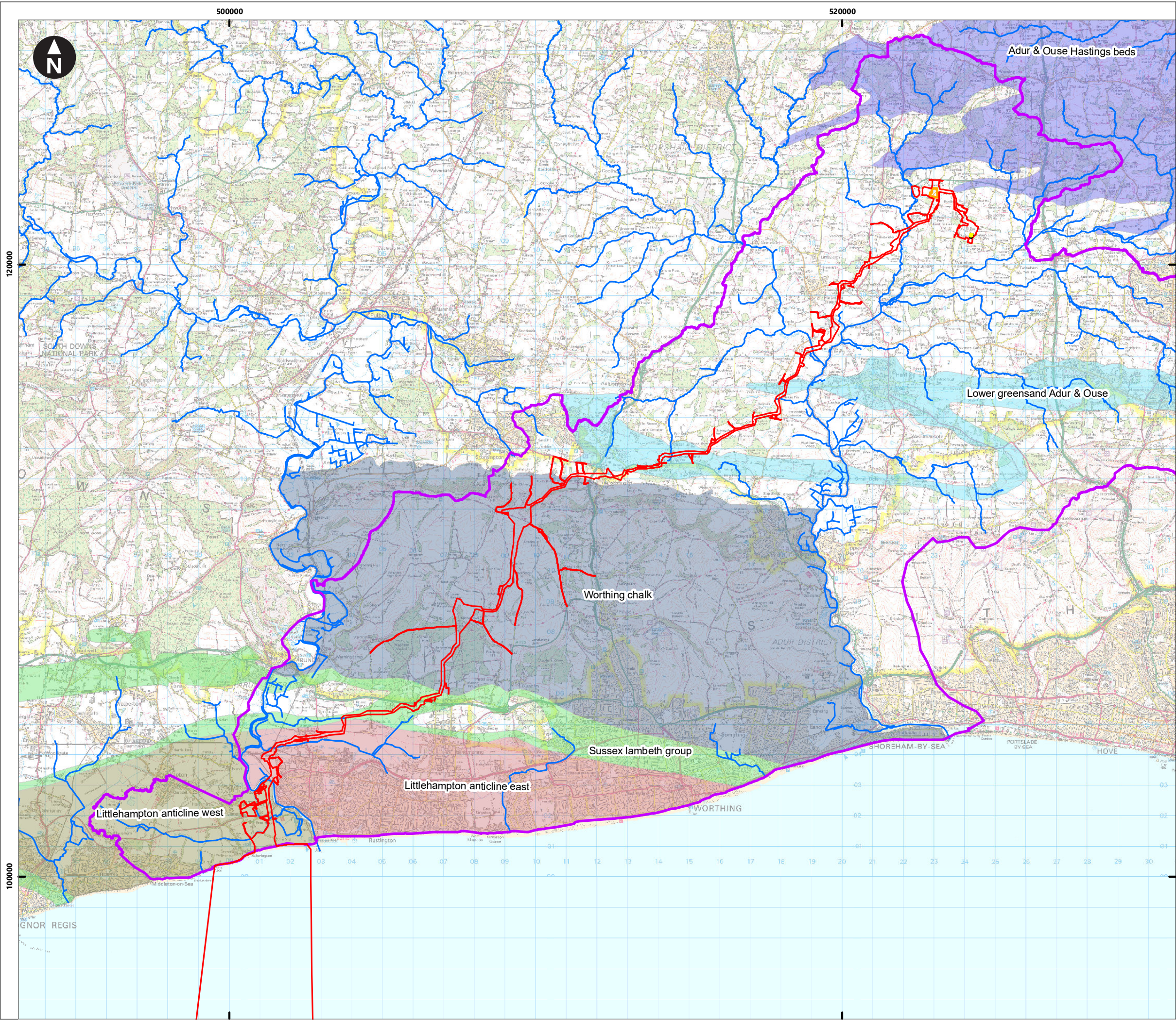
Rampion 2
WIND FARM

Rampion 2 Offshore Wind Farm

Figure 26.4 Superficial geology (1:625,000)

Environmental Statement

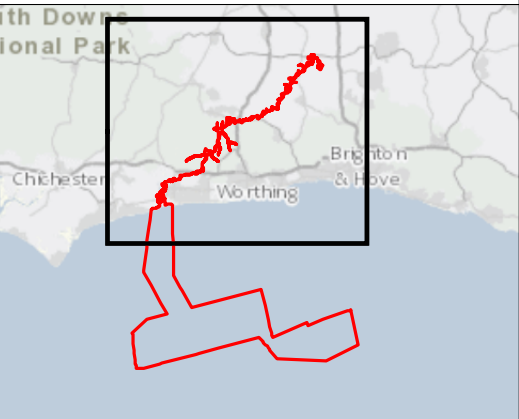
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- Key**
- Proposed DCO Order limits
 - Bolney Substation extension (GIS)
 - Bolney Substation extension (AIS)
 - Oakendene substation site
 - Water environment Study Area
 - Rivers

- Groundwater bodies (Cycle 2)**
- Adur and Ouse Hastings beds
 - Littlehampton anticline east
 - Littlehampton anticline west
 - Lower greensand Adur & Ouse
 - Sussex lambeth group
 - Worthing chalk



0 0.5 1 2 3 4
Kilometres
1:120,000
British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 26.5 Water environment Study Area and groundwater WFD bodies

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OY-4606 Version: 1.0

Company: WSP	Drawn By: SHEPS	Chk/Aprvd: DOUGG	Drawn Date: 27/07/2023	Status: FINAL
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