

# Mersey Tidal Power

EIA Scoping Report: Volume 2c Figures  
Chapters 16 - 27

September 2024

ITS TIME  FOR TIDAL



# Mersey Tidal Power

EIA Scoping Report: Volume 2c Figures

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## Document History

Version	Author	Reviewer	Approver	Date	Comments
A0	WSP	Mersey Tidal Power	Mersey Tidal Power	13/09/24	Final

## Contents

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### Figures

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Figure 1.1 Scoping Area

Figure 2.1 Development Areas

Figure 2.2 Marine Environment

Figure 2.3 Designated Sites

Figure 2.4 Other Features

Figure 2.5 Grid Connection Points

Figure 3.1 Marine Licence Boundary

Figure 5.1 Coastal Processes Study Areas

Figure 5.2 Locations of baseline data sources

Figure 5.3 Locations of WFD Waterbodies

Figure 5.4 Coastal Processes Designated Sites

Figure 6.1 Benthic Ecology and Plankton Study Area

Figure 6.2 Intertidal habitats within the Benthic Ecology and Plankton Study Area

Figure 6.3 Intertidal habitats within the Benthic Ecology and Plankton Study Area (RSK, 2024)

Figure 6.4 EUSeaMap (2023) seabed habitats and Cefas (2024) OneBenthic faunal clusters within the Benthic Ecology and Plankton Study Area

Figure 6.5 Designated sites within the Study Area

Figure 7.1 INNS Study Area

Figure 7.2 Marine INNS identified within the INNS Study Area

Figure 7.3 Terrestrial INNS identified within the INNS Study Area

Figure 7.4 Freshwater INNS identified within the INNS Study Area

Figure 8.1 Marine Mammal Regional Study Areas - Bottlenose dolphin and Harbour porpoise

Figure 8.2 Marine Mammal Regional Study Areas - Minke whale, Risso's dolphin, Common dolphin, Harbour seal and Grey seal

Figure 8.3 Marine Mammal Study Area

Figure 9.1 Marine and Intertidal Ornithology Study Area

Figure 9.2 Marine and Intertidal Ornithology Survey Areas

Figure 9.3 Marine and Intertidal Ornithology SPA and Ramsar Sites

Figure 9.4 Marine and Intertidal Ornithology SSSIs and NNR Sites

Figure 10.1 Fish and Shellfish Study Area

Figure 10.2 Fish and Shellfish Spawning and Nursery Grounds - Cod, Mackerel, Plaice, Sandeel

Figure 10.3 Fish and Shellfish Spawning and Nursery Grounds - Sole, Whiting, Sprat, Ling

Figure 10.4 Fish and Shellfish Spawning and Nursery Grounds - Herring, Anglerfish, Spotted Ray, Thornback ray

Figure 10.5 Fish and Shellfish Spawning and Nursery Grounds - Tope shark, Spurdog

Figure 10.6 Designated Fish and Shellfish Features

Figure 10.7 Fish and Shellfish Survey Locations

Figure 11.1 Commercial Fisheries Study Area

Figure 13.1 Statutory Designated Biodiversity Sites of International Importance - Special Areas of Conservation

Figure 13.2 Statutory Designated Biodiversity Sites of International Importance – Special Protection Areas and Ramsar

Figure 13.3 Statutory Designated Biodiversity Sites of National Importance

Figure 13.4 Statutory Designated Biodiversity Sites of Local Importance

Figure 13.5 Ancient Woodland and Habitats of Principal Importance

Figure 16.1 Shipping and Navigation Study Area

Figure 16.2 Passenger and Ferry Vessel Tracks

Figure 16.3 Tanker and Cargo Vessel Tracks

Figure 16.4 Tug & Service and Recreational Vessel Tracks

Figure 16.5 Vessel Tracks by Size

Figure 17.1 Marine Cultural Heritage & Archaeology Study Area

Figure 18.1 Terrestrial Cultural Heritage & Archaeology Study Area

Figure 18.2 Terrestrial Cultural Heritage & Archaeology Study Area

Figure 21.1 Baseline Air Quality and Constraints

Figure 22.1 Noise Important Areas

Figure 22.2 Daytime Road Traffic Noise Levels, dB LAeq16hr

Figure 22.3 Night-time Road Traffic Noise Levels, dB Lnight

Figure 23.1 Geology and Ground Conditions - Study Areas

Figure 23.2 Artificial Ground

Figure 23.3 Superficial Deposits

Figure 23.4 Bedrock Geology

Figure 23.5 Agricultural Land Classification (Provisional)

Figure 23.6 Agricultural Land Classification (Post 1988)

Figure 23.7 Authorised and Historic Landfill Sites

Figure 25.1 Mersey Barrage Zone of Theoretical Visibility

Figure 26.1 Offshore Infrastructure

Figure 26.2 Onshore Renewable Energy Projects

Figure 26.3 Utilities - Electricity

Figure 26.4 Water utilities

Figure 26.5 Marine Disposal Sites

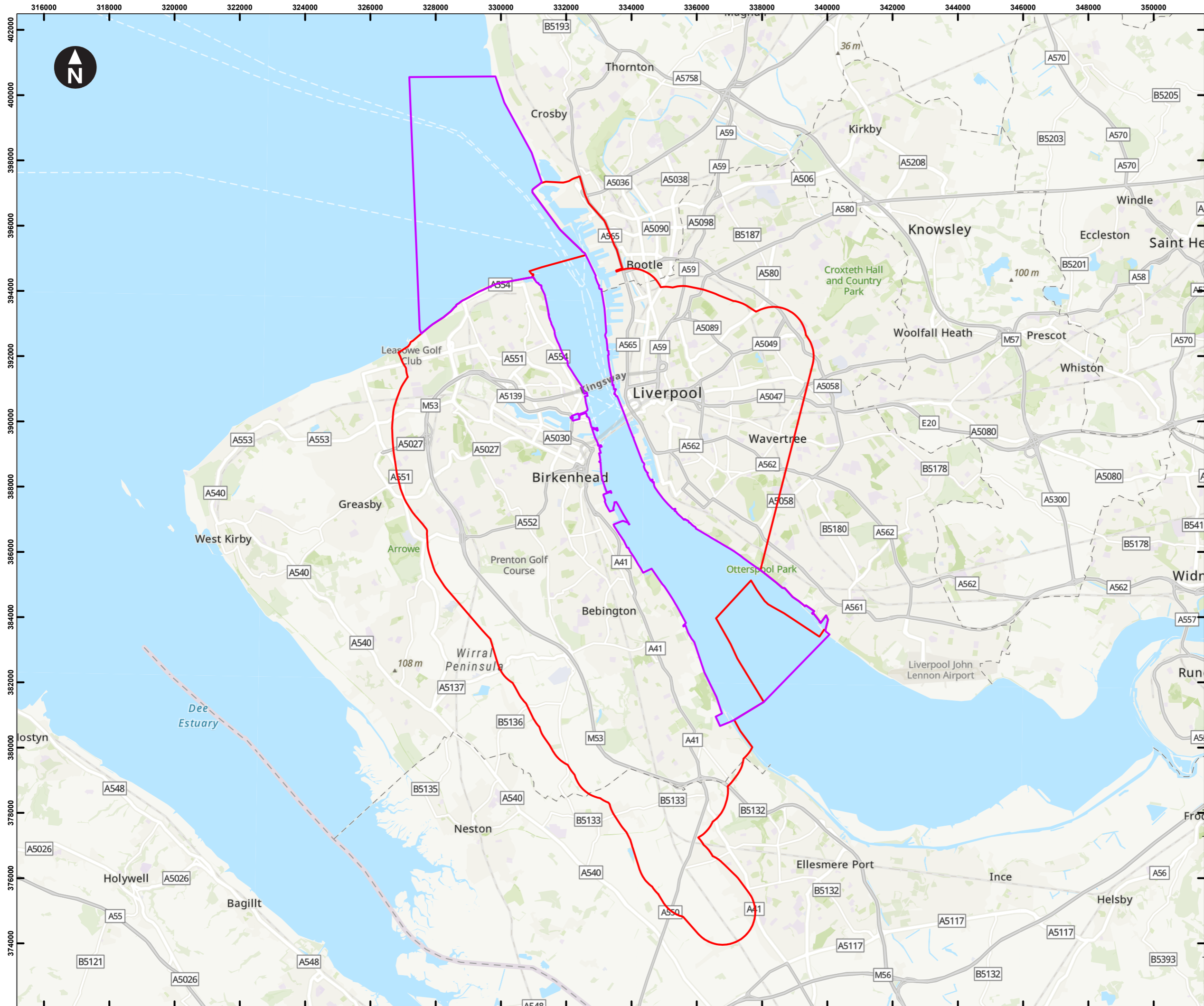
Figure 26.6 Recreational activities within the Tidal Barrage Development Area

Figure 26.7 Recreational Activities - Green Spaces

Figure 27.1 Controlled Airspaces

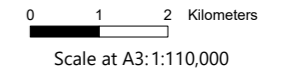
Figure 27.2 Radar locations

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**Key**

- Scoping Boundary
- Study Area



World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

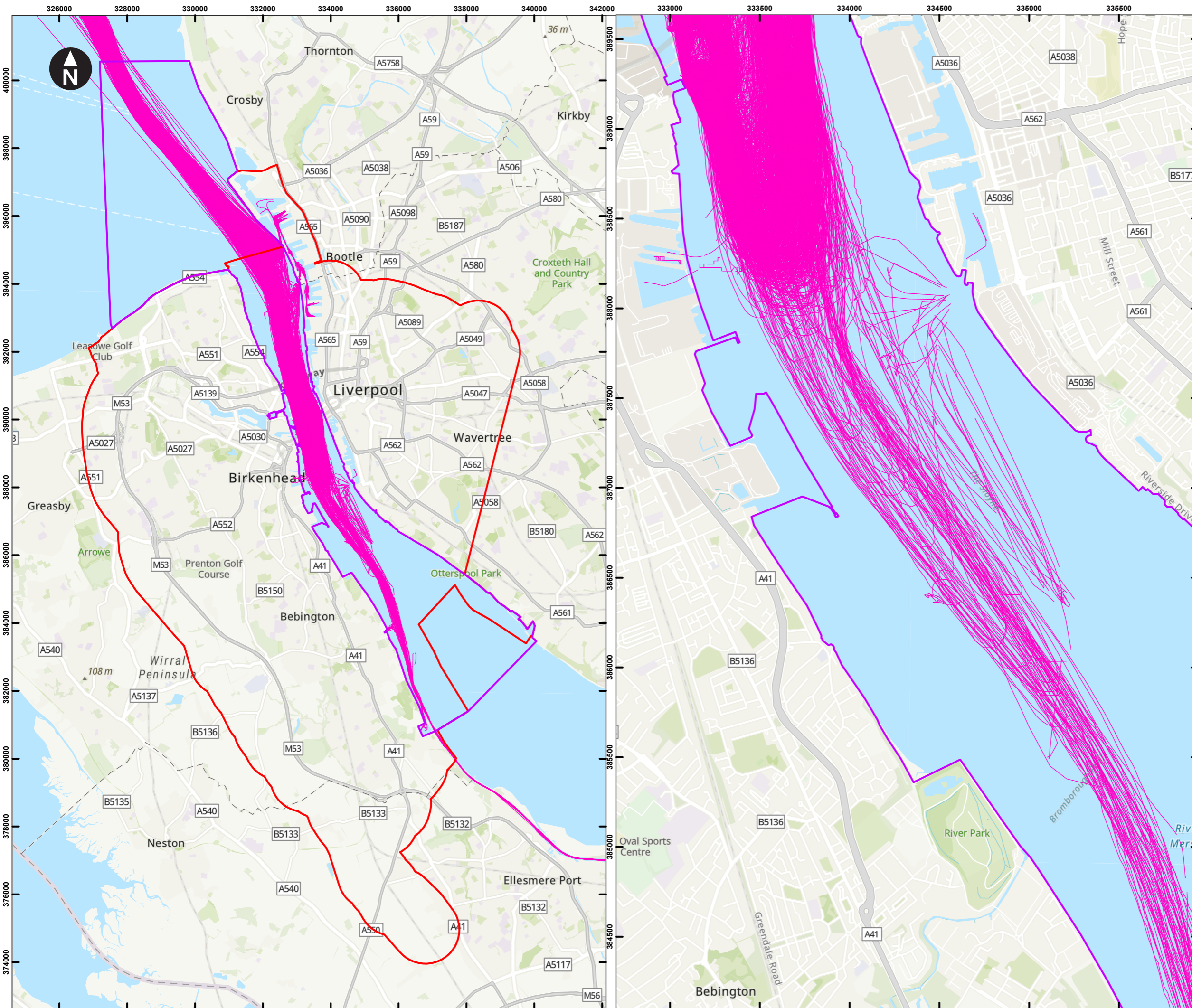


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Mersey Tidal Power Scoping Report Chapter 16: Shipping and Navigation

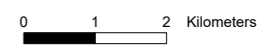
**Figure 16.1 Shipping and Navigation Study Area**

<b>Document Number</b> MTP-WSP-00-ZZ-MP-EN-0046-S8-P02-EIA Scoping-Ch16-Figure 16.1 Shipping & Navigation Study Area	10/09/2024
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**Key**

- Scoping Boundary
- Study Area
- Passenger and Ferry Vessel Tracks



Scale at A3: 1:105,875  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, MET/NASA, USGS

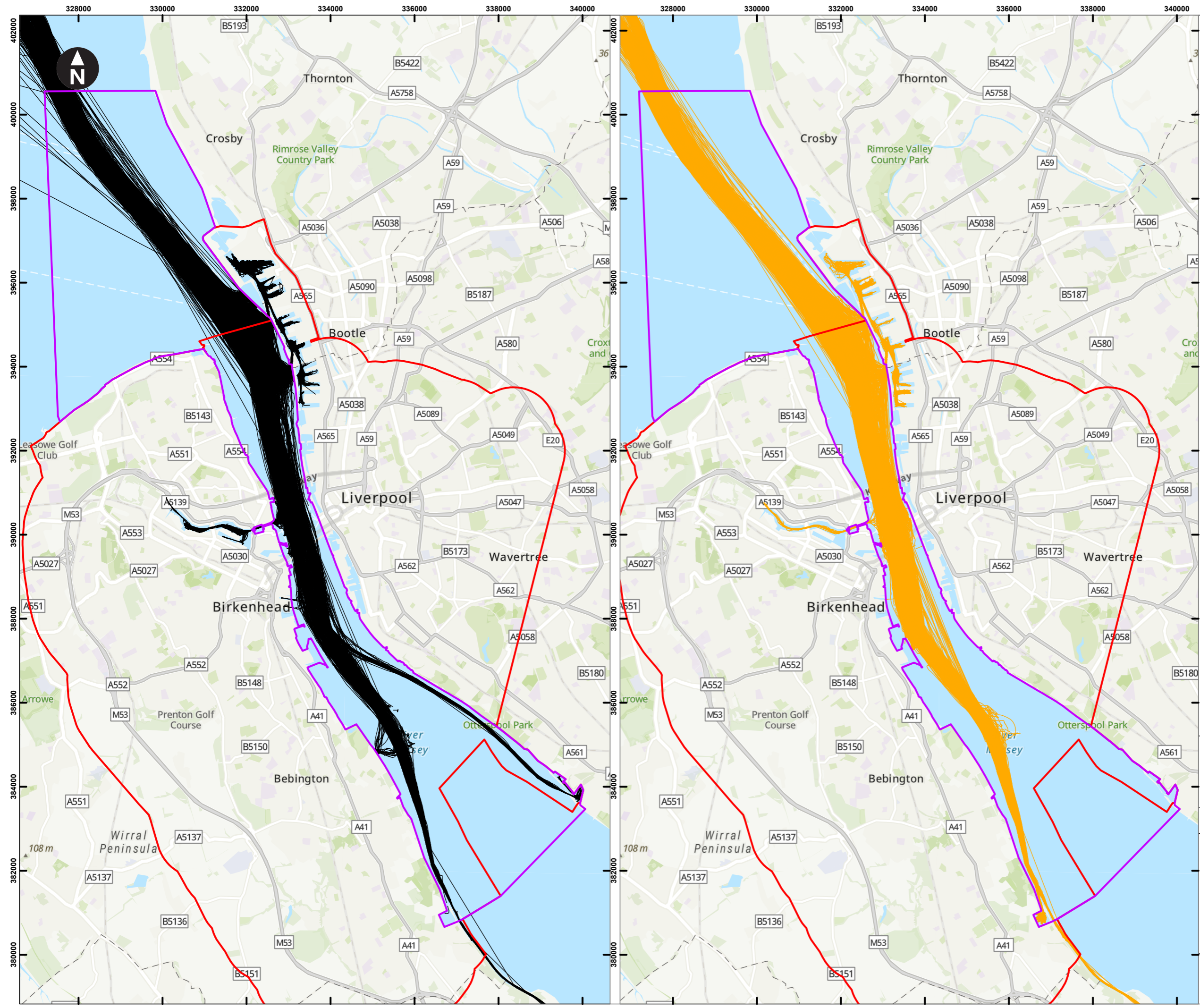


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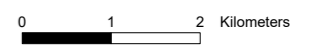
Mersey Tidal Power Scoping Report Chapter 16: Shipping and Navigation

**Figure 16.2 Passenger and Ferry Vessel Tracks**





- Key
- Scoping Boundary
  - Study Area
  - Tanker Vessel Tracks
  - Cargo Vessel Tracks



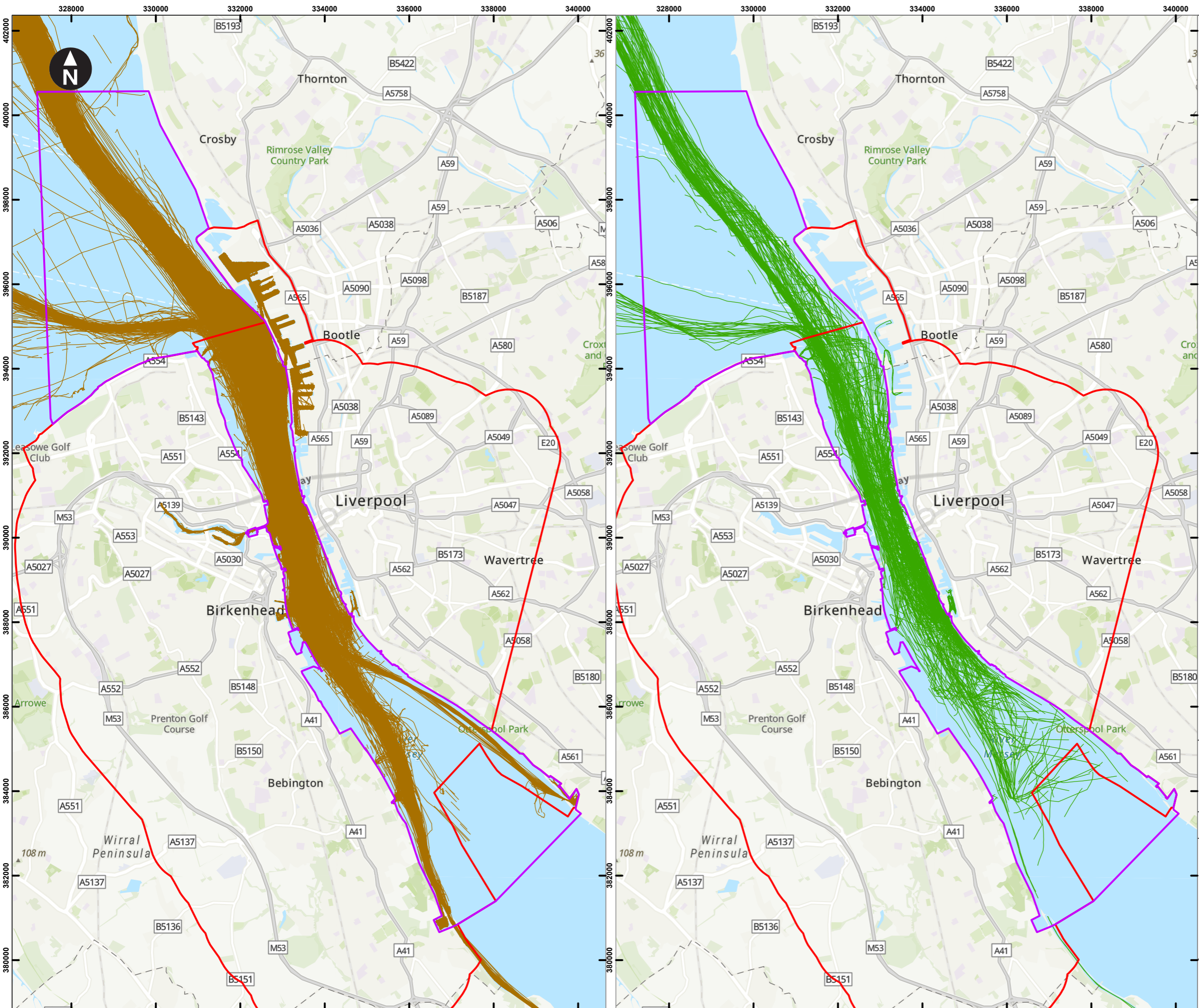
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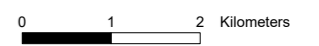
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Mersey Tidal Power Scoping Report Chapter 16: Shipping and Navigation

**Figure 16.3 Tanker and Cargo Vessel Tracks**



- Key
- Scoping Boundary
  - Study Area
  - Recreational Vessel Tracks
  - Tug & Service Vessel Tracks



Scale at A3: 1:85,000  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, MET/NASA, USGS



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Mersey Tidal Power Scoping Report Chapter 16: Shipping and Navigation

**Figure 16.4 Tug & Service and Recreational Vessel Tracks**



- Key
- Scoping Boundary
  - Tidal Barrage Development Area
  - Study Area (5km)
  - ▲ Grade II\* Listed Building
  - ▲ Grade II Listed Building
  - Conservation Area
  - UKHO wreck and obstruction

0 1 2 Kilometers

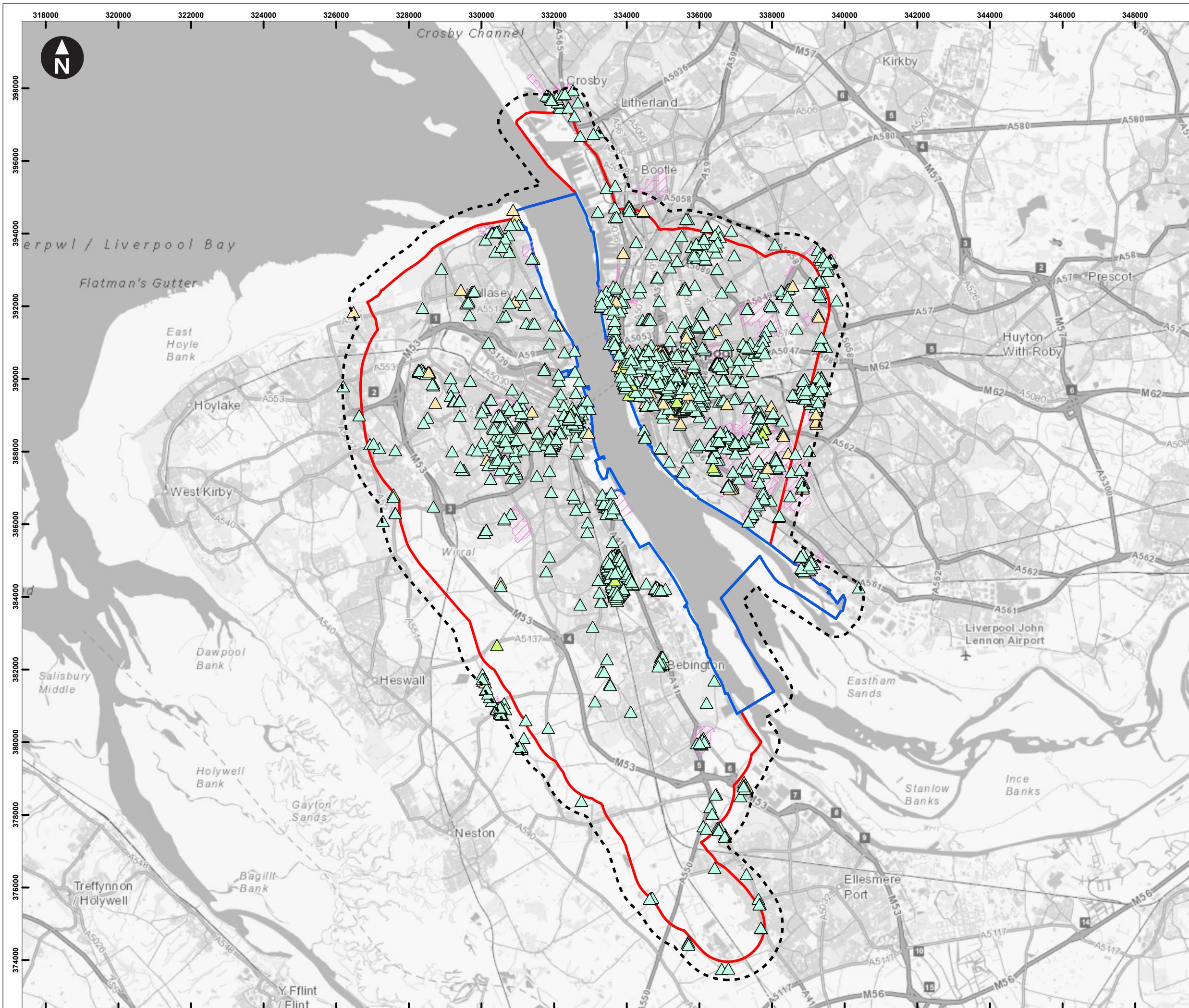
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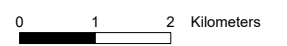
Mersey Tidal Power Scoping Report  
 Chapter 17: Marine Cultural Heritage & Archaeology  
**Figure 17.1 Marine Cultural Heritage & Archaeology Study Area**

Document Number MTP-WSP-00-ZZ-MP-EN-0077-S8-P02- EIA Scoping-Ch17-Figure 17.1 Marine Cultural Heritage & Archaeology Scoping Study Area	23/08/2024
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**Key**

- Scoping Boundary
- Tidal Barrage Development Area
- Study area (500m)
- ▲ Grade I Listed Building
- ▲ Grade II\* Listed Building
- ▲ Grade II Listed Building
- Conservation Area



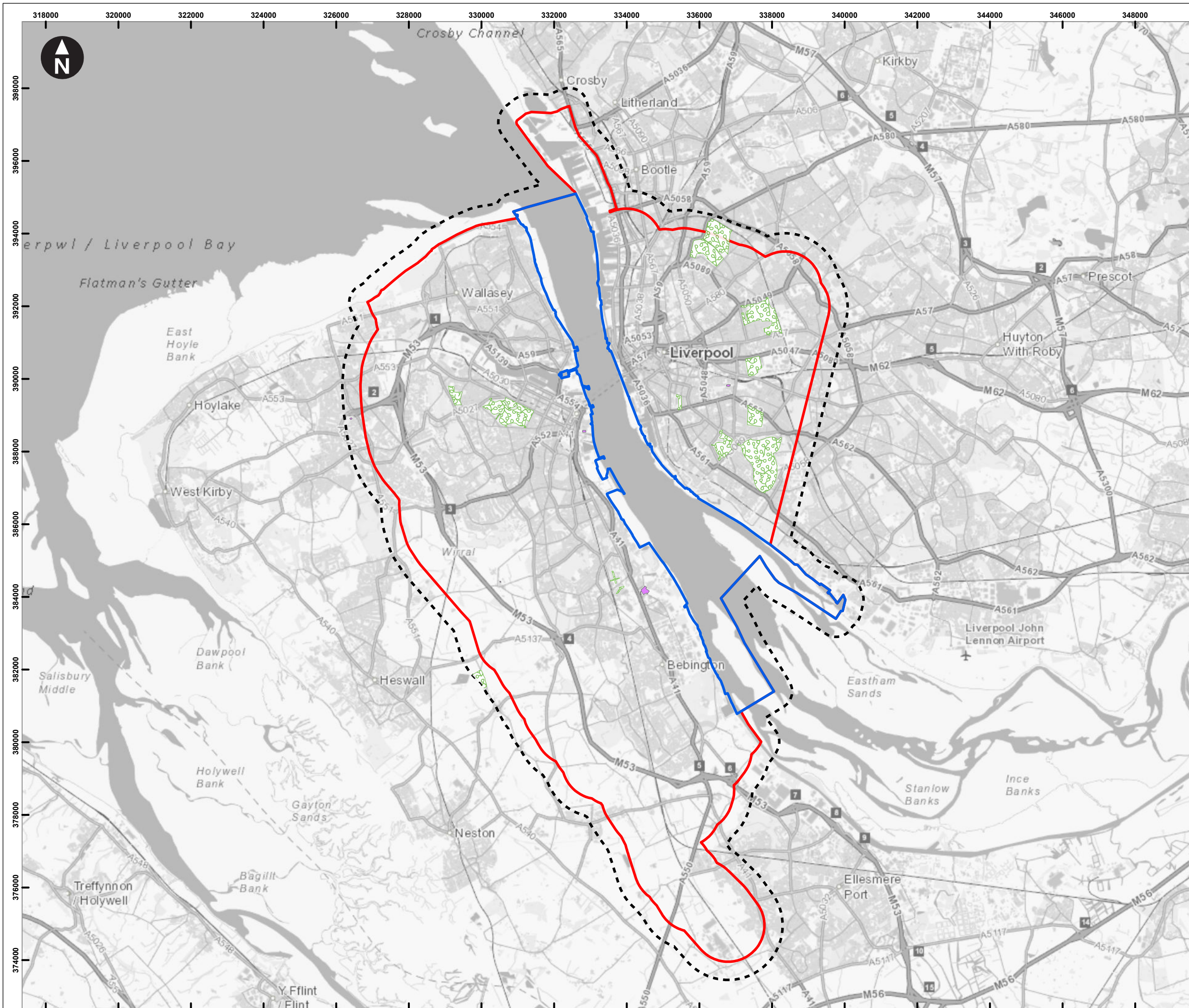
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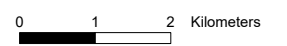
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Mersey Tidal Power Scoping Report  
 Chapter 18: Terrestrial Cultural Heritage & Archaeology  
**Figure 18.1 Terrestrial Cultural Heritage & Archaeology Study Area & Designations**

Document Number	23/08/2024
MTP-WSP-00-ZZ-MP-EN-0078-S8-P02- EIA Scoping-Ch18-Figure 18.1 Terrestrial Cultural Heritage & Archaeology Study Area	



- Key**
- Scoping Boundary
  - Tidal Barrage Development Area
  - Study area (500m)
  - Registered Park or Garden
  - Scheduled Monument



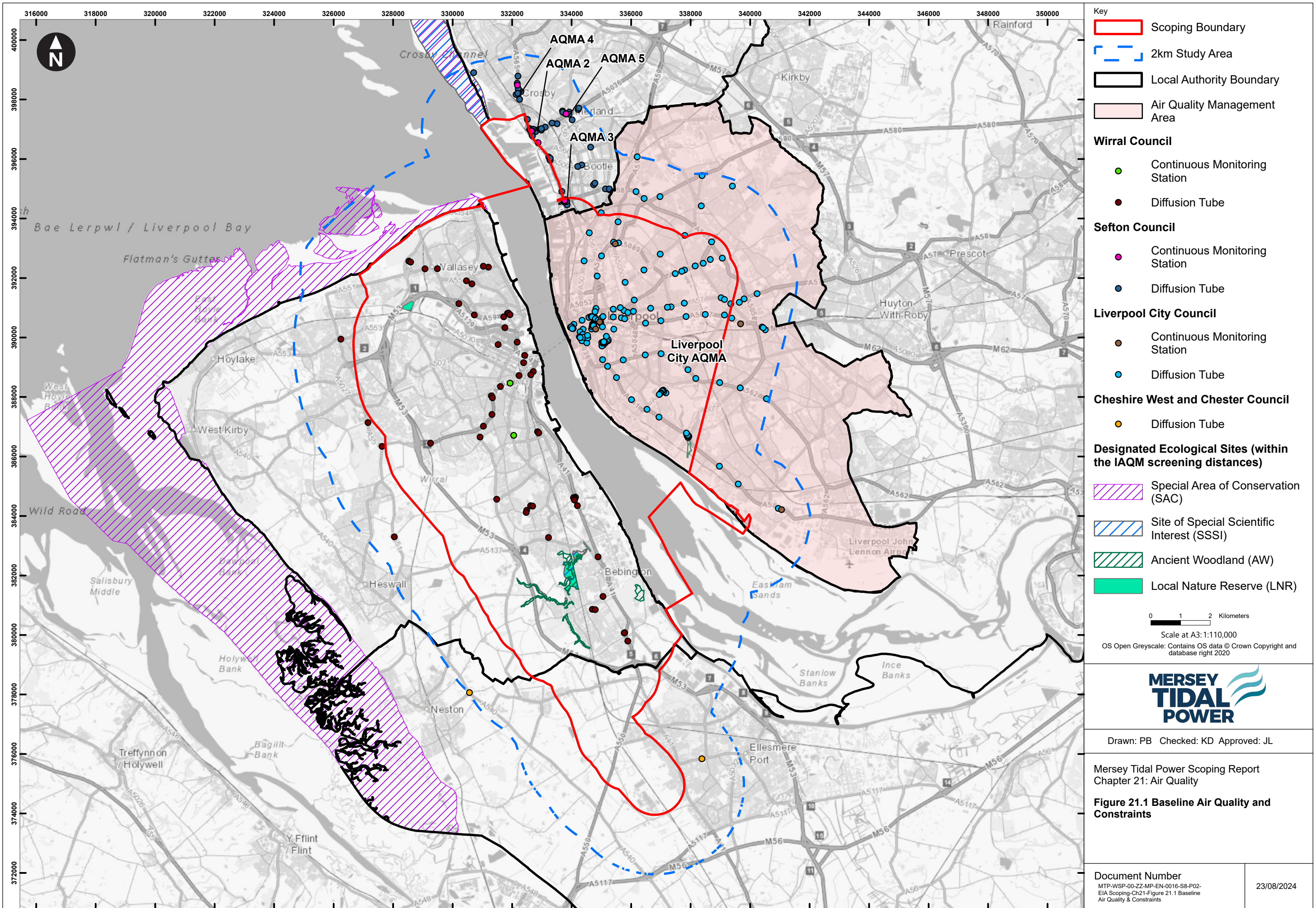
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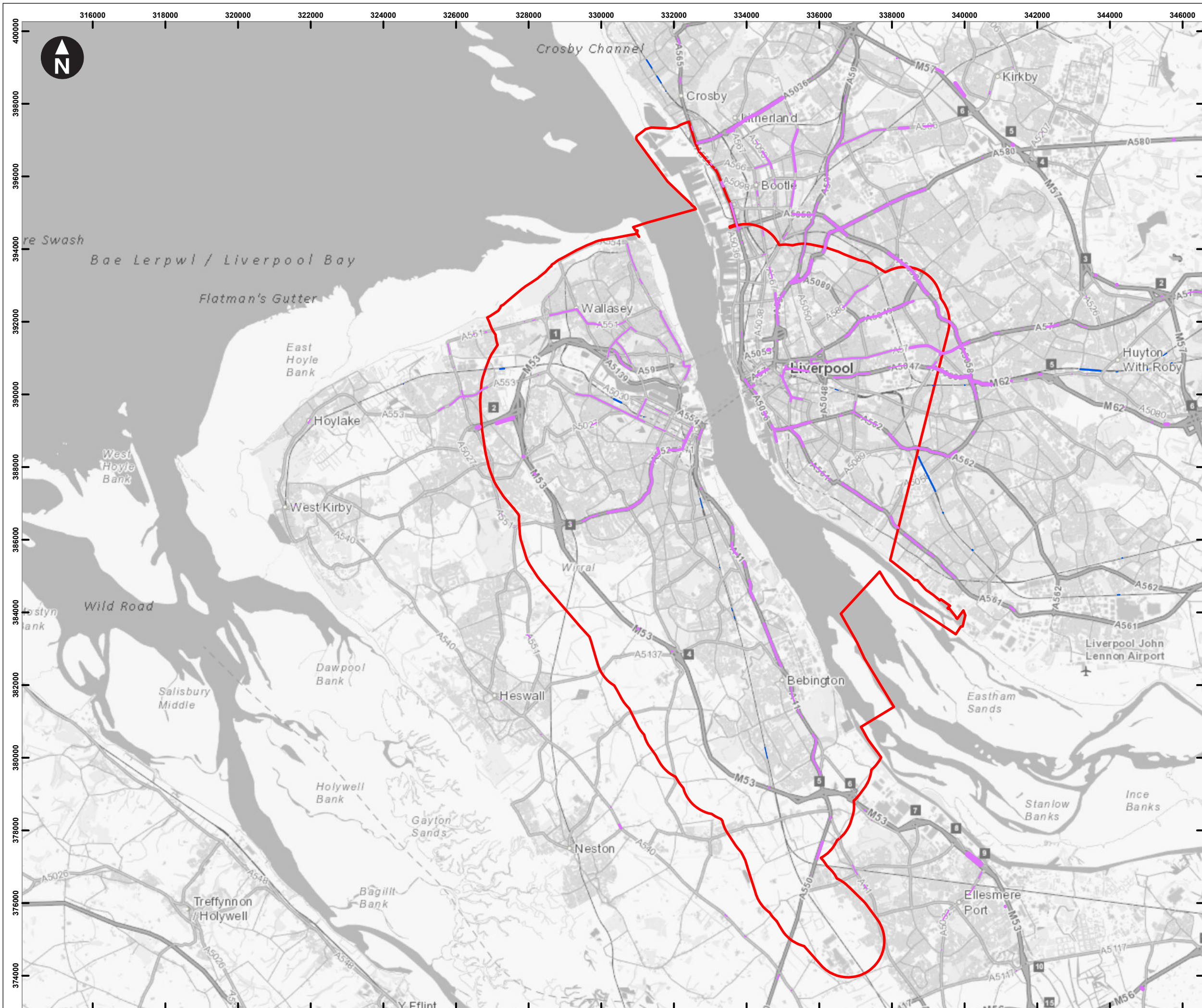


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Mersey Tidal Power Scoping Report  
 Chapter 18: Terrestrial Cultural Heritage & Archaeology  
**Figure 18.2 Terrestrial Cultural Heritage & Archaeology Study Area & Designations**

<b>Document Number</b> MTP-WSP-00-ZZ-MP-EN-0079-S8-P02- EIA Scoping-Ch18-Figure 18.2 Terrestrial Cultural Heritage & Archaeology Study Area	28/08/2024
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**Key**

- Scoping Boundary

**Noise Important Areas**

- Road
- Rail

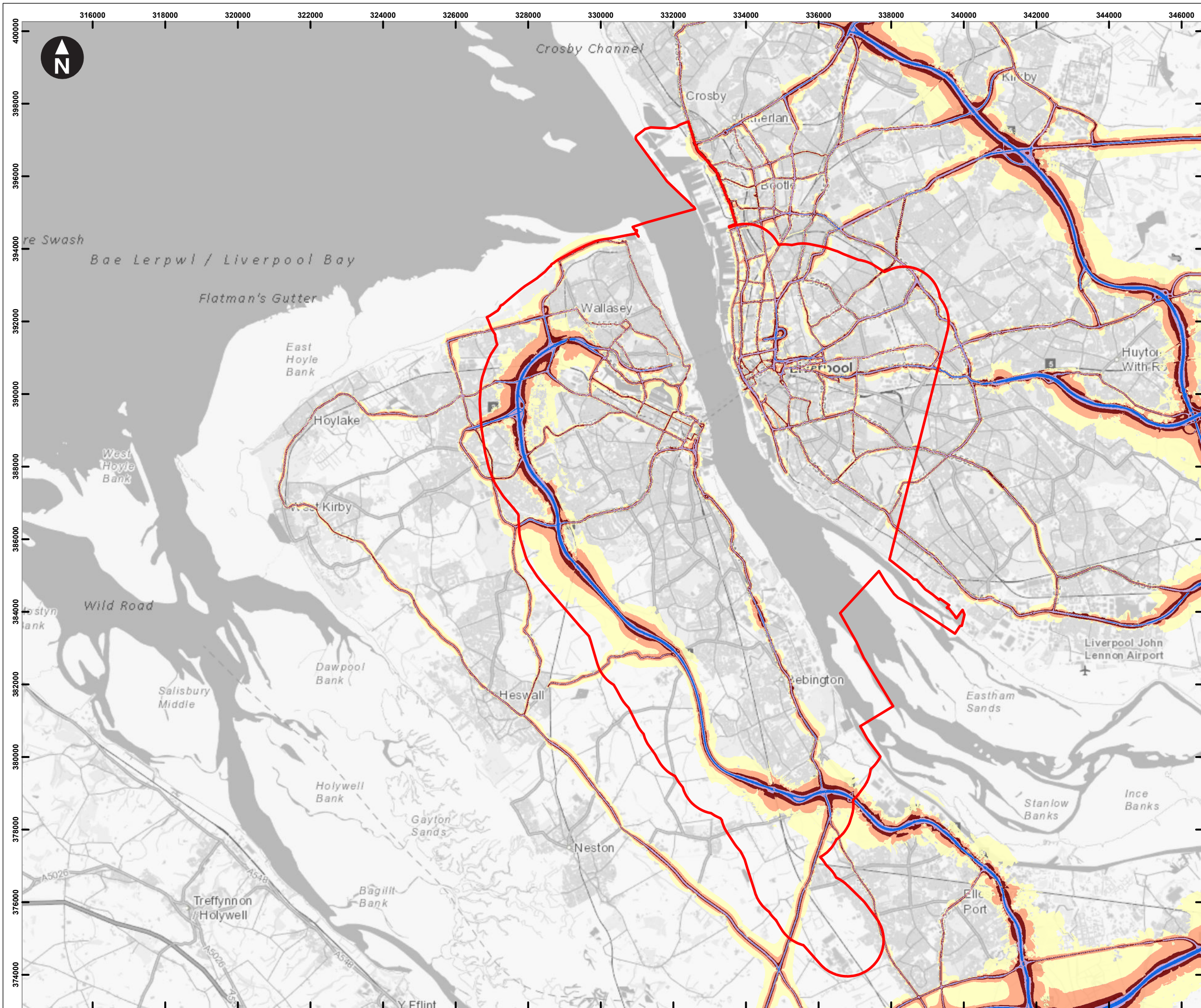
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Mersey Tidal Power Scoping Report  
 Chapter 22: Onshore Noise and Vibration  
**Figure 22.1 Noise Important Areas**

Document Number	23/08/2024
MTP-WSP-00-ZZ-MP-EN-0017-S8-P02- EIA Scoping-Ch22-Figure 22.1 Noise Important Areas	



**Key**

Scoping Boundary

**Average noise level (dB)**

- >=75.0
- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

0 1 2 Kilometers  
 Scale at A3: 1:100,000  
 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

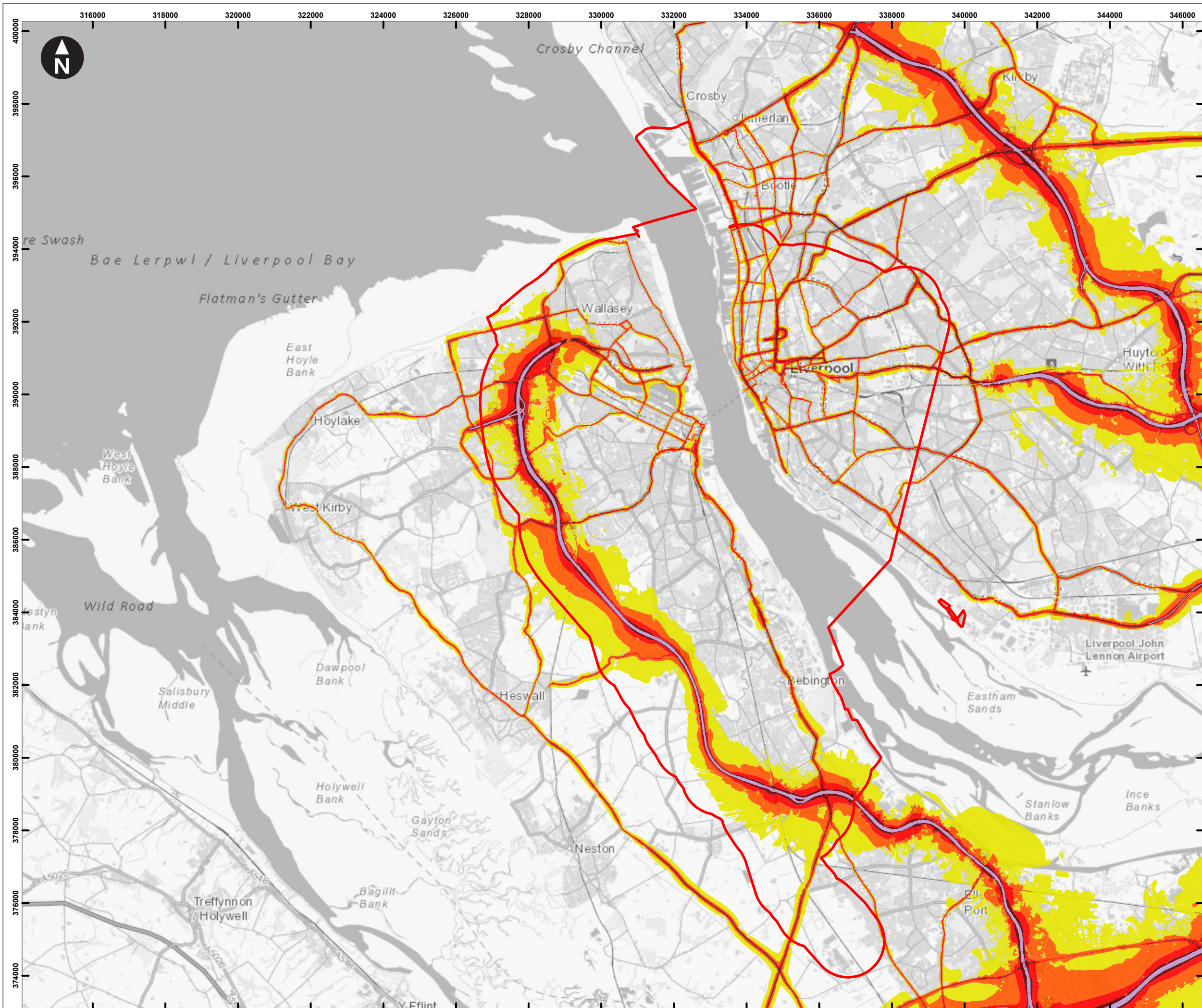


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Mersey Tidal Power Scoping Report  
 Chapter 22: Onshore Noise and Vibration  
**Figure 22.2 Daytime Road Traffic Noise Levels, dB LAeq16hr**

<b>Document Number</b> MTP-WSP-00-ZZ-MP-EN-0018-S8-P02- EIA Scoping-Ch22-Figure 22.2 Daytime Road Traffic Noise Levels, dB LAeq16hr	23/08/2024
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**Key**

Scoping Boundary

**Average noise level (dB)**

- $\geq 70.0$
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9
- 50.0-54.9

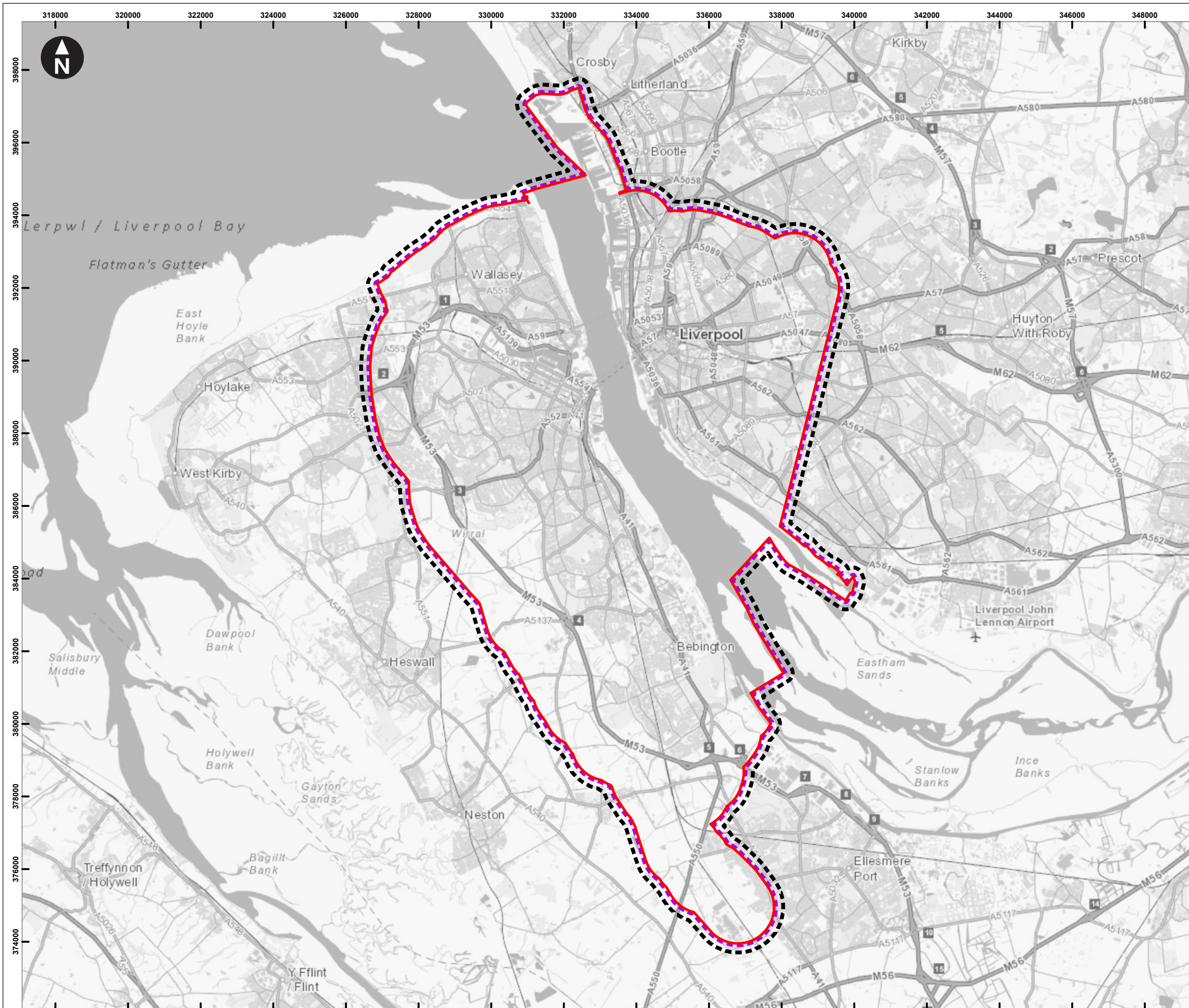
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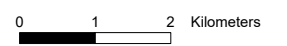
Mersey Tidal Power Scoping Report  
 Chapter 22: Onshore Noise and Vibration

**Figure 22.3 Night-time Road Traffic Noise Levels, dB L night**



**Key**

- Scoping Boundary
- Scoping Boundary 50m buffer
- Scoping Boundary 250m buffer



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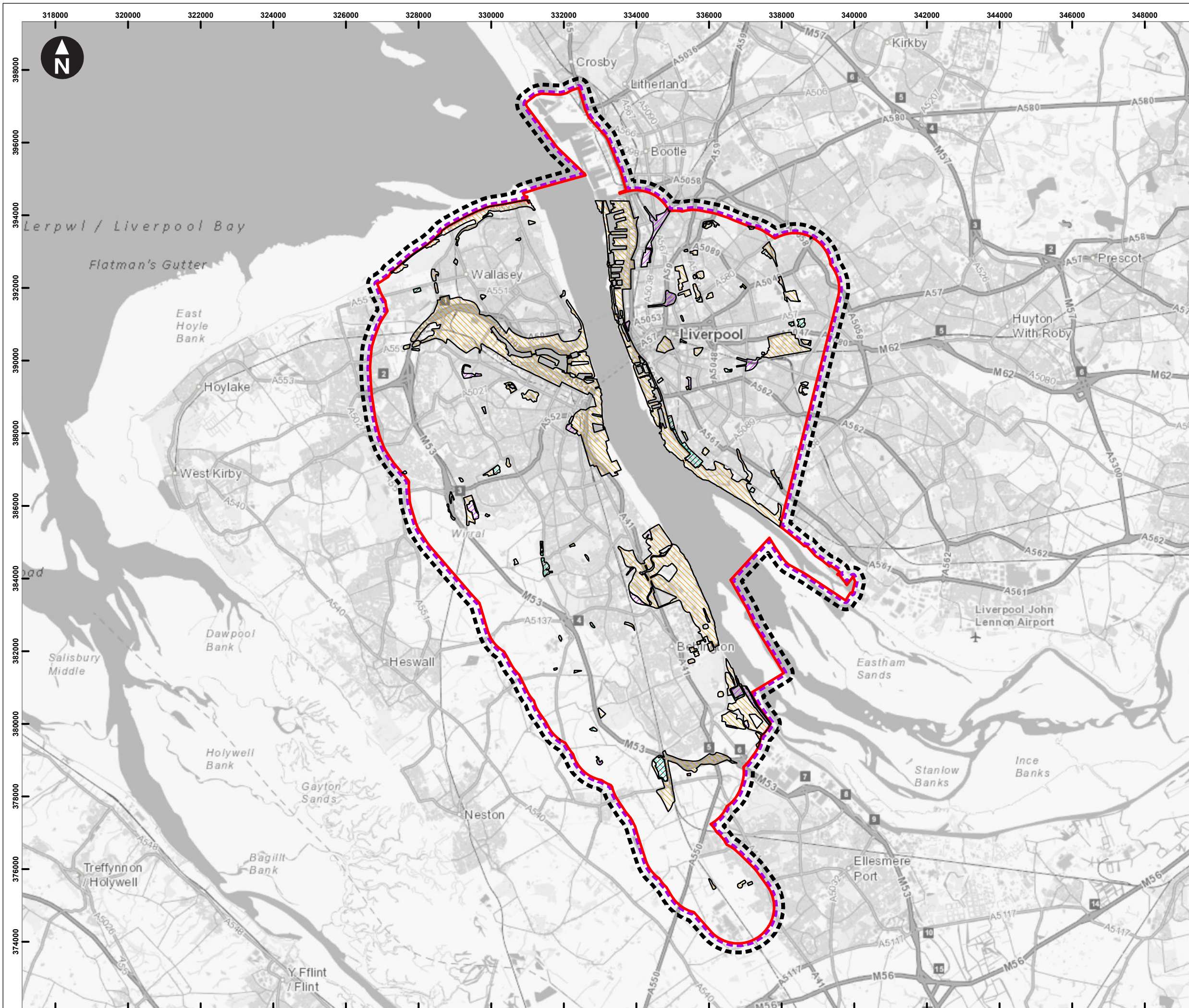


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Mersey Tidal Power Scoping Report  
 Chapter 23: Geology and Ground Conditions

**Figure 23.1 Geology and Ground Conditions - Study Areas**

Document Number <small>MTP-WSP-00-ZZ-MP-EN-0020-S8-P03-          EIA Scoping-Ch23-Figure 23.1 Geology          &amp; Ground Conditions - Study Areas</small>	10/09/2024
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**Key**

- Scoping Boundary
- Scoping Boundary 50m buffer
- Scoping Boundary 250m buffer

**BGS 50K Artificial Ground**

- Made Ground (Undivided) - Artificial deposit
- Worked Ground (Undivided) - Void
- Infilled Ground - Artificial deposit

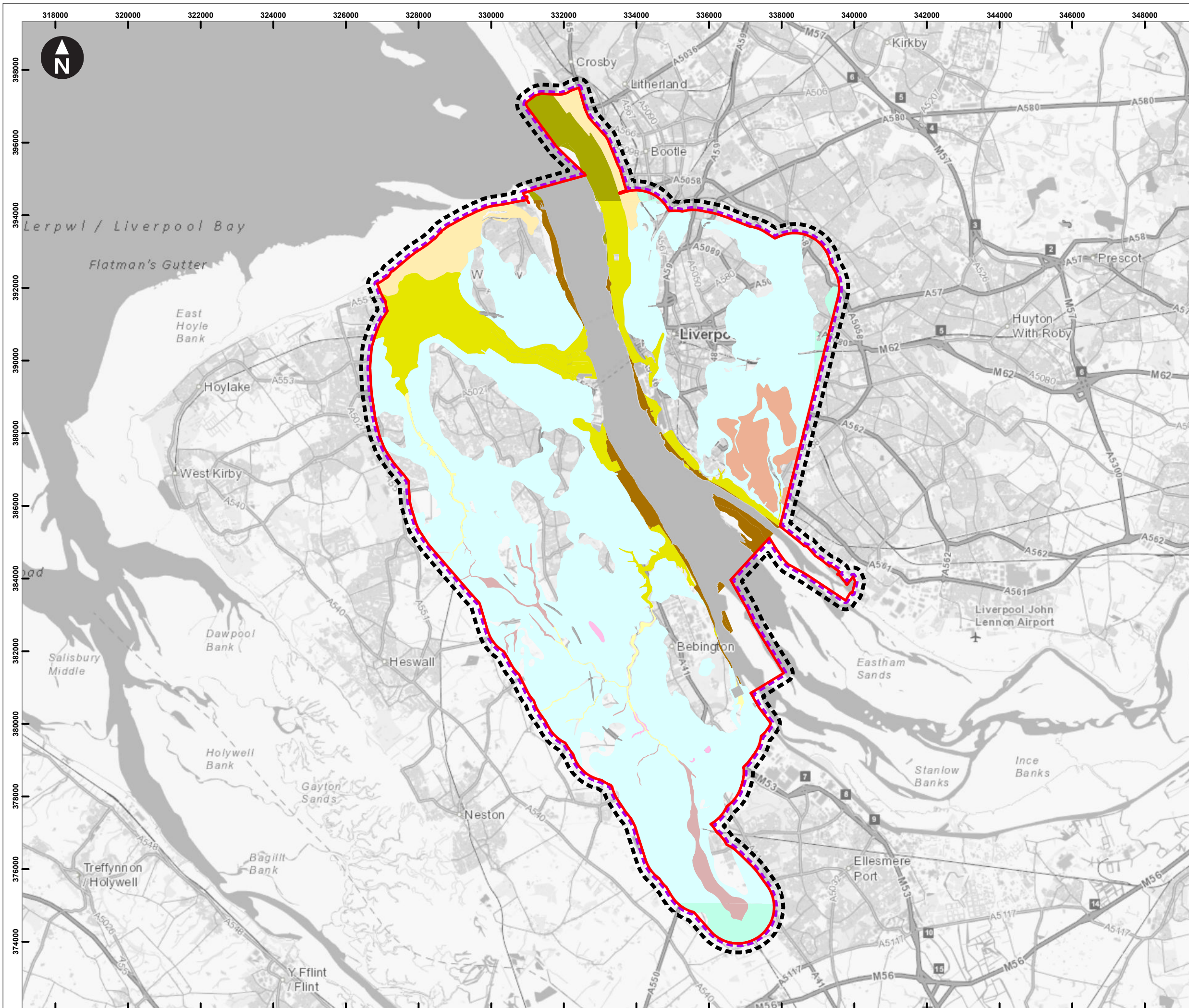
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Mersey Tidal Power Scoping Report  
 Chapter 23: Geology and Ground Conditions  
**Figure 23.2 Artificial Ground**

Document Number	10/09/2024
MTP-WSP-00-ZZ-MP-EN-0021-S8-P04-EIA Scoping-Ch23-Figure 23.2 Artificial Ground	



**Key**

- Scoping Boundary
- Scoping Boundary 50m buffer
- Scoping Boundary 250m buffer

**BGS 50k Superficial Deposits**

- Alluvium - Clay, Silt and Sand
- Blown Sand - Sand
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Glaciofluvial Deposits - Sand and Gravel
- Head - Clay, Silt, Sand and Gravel
- Saltmarsh Deposits - Clay, Silt and Sand
- Shirdley Hill Sand Formation - Sand
- Tidal Flat Deposits - Clay and Silt
- Tidal flat deposits - Clay, Silt and Sand
- Tidal Flat Deposits- Sand
- Till, Devensian - Clay, Sandy, Gravelly, Cobbly
- Till, Devensian - Diamictin

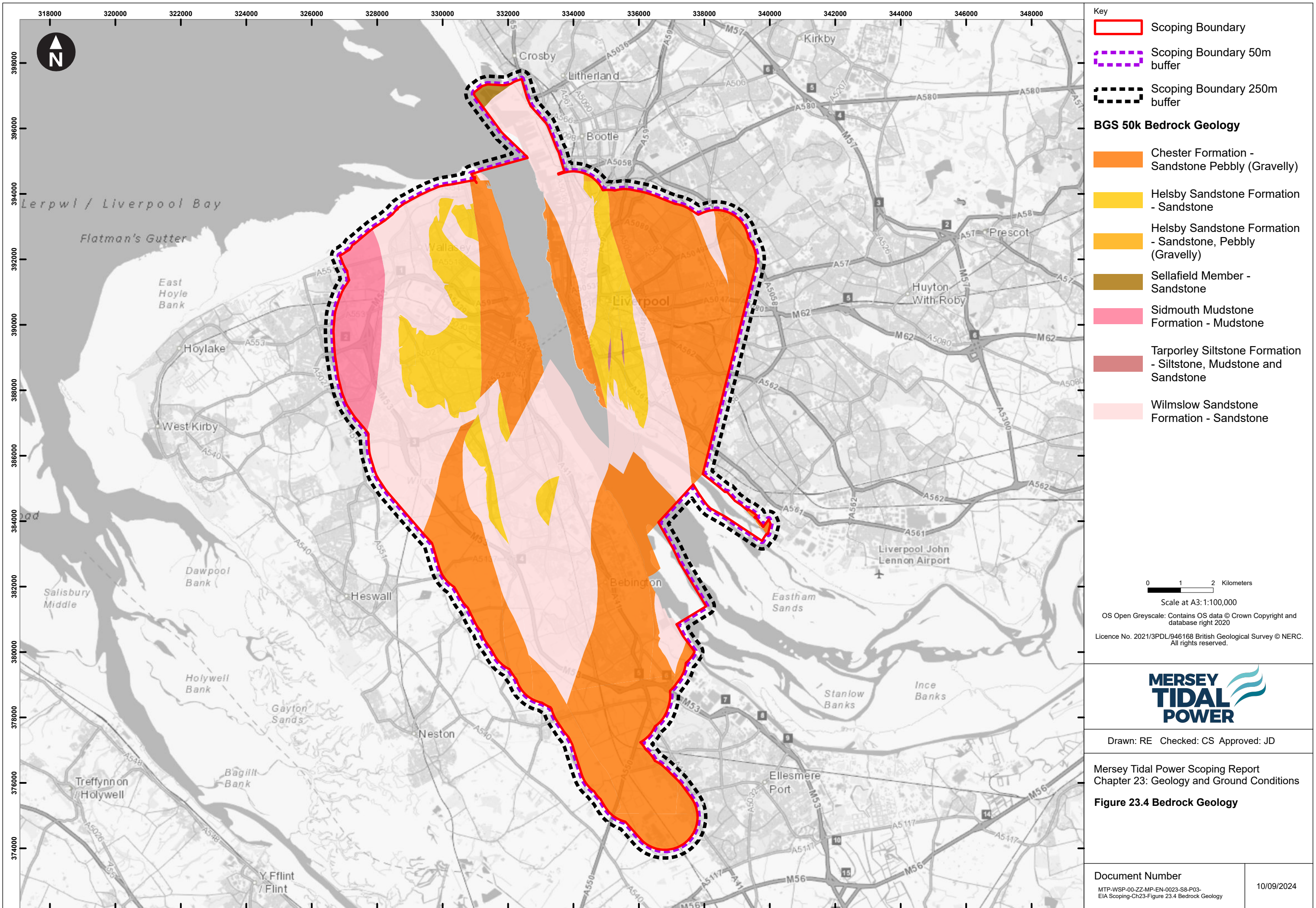
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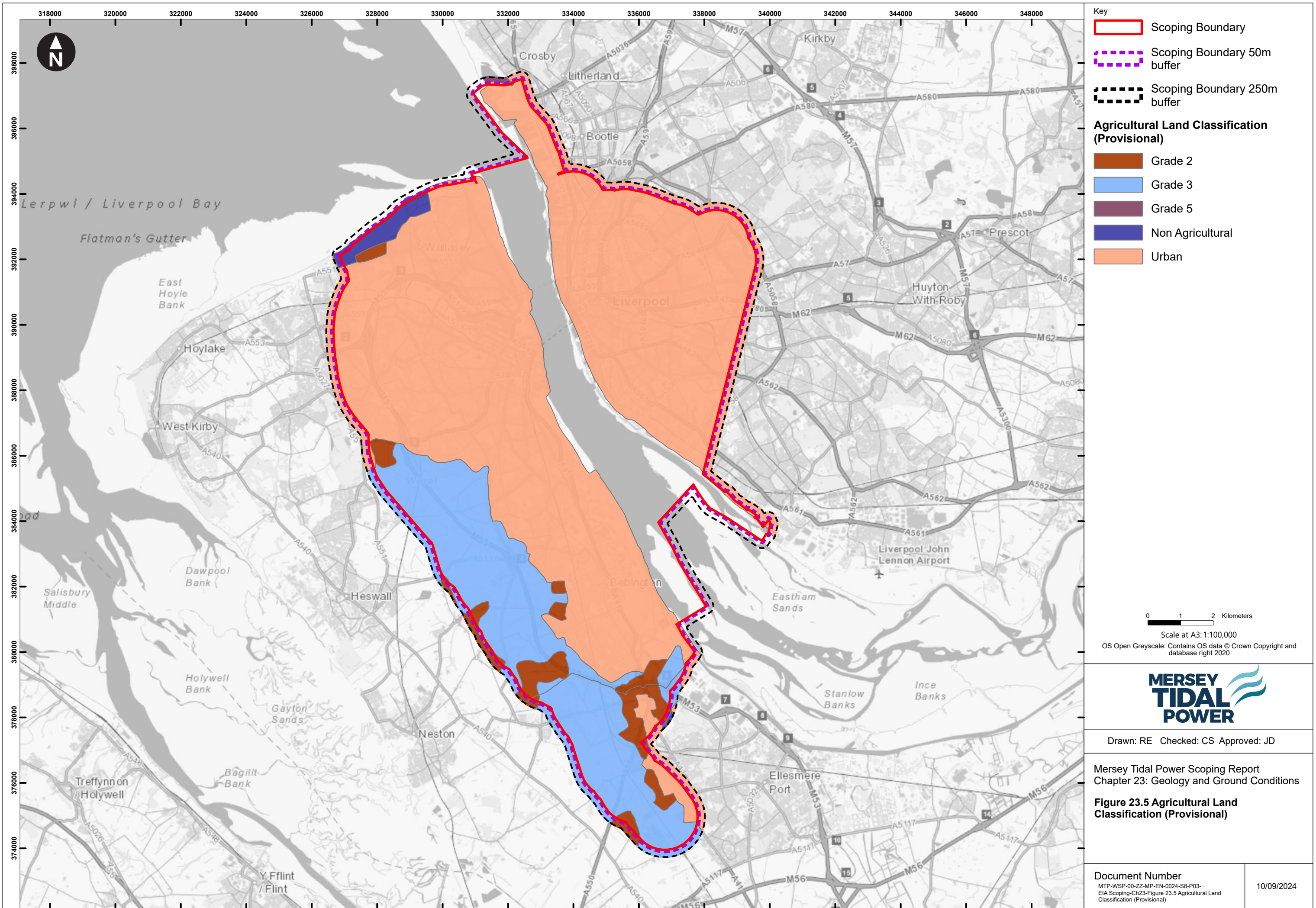


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Mersey Tidal Power Scoping Report  
Chapter 23: Geology and Ground Conditions  
**Figure 23.3 Superficial Deposits**

Document Number MTP-WSP-00-ZZ-MP-EN-0022-S8-P04- EIA Scoping-Ch23-Figure 23.3 Superficial Deposits	10/09/2024
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- Key**
- Scoping Boundary
  - Scoping Boundary 50m buffer
  - Scoping Boundary 250m buffer

- Agricultural Land Classification (Provisional)**
- Grade 2
  - Grade 3
  - Grade 5
  - Non Agricultural
  - Urban

0 1 2 Kilometers

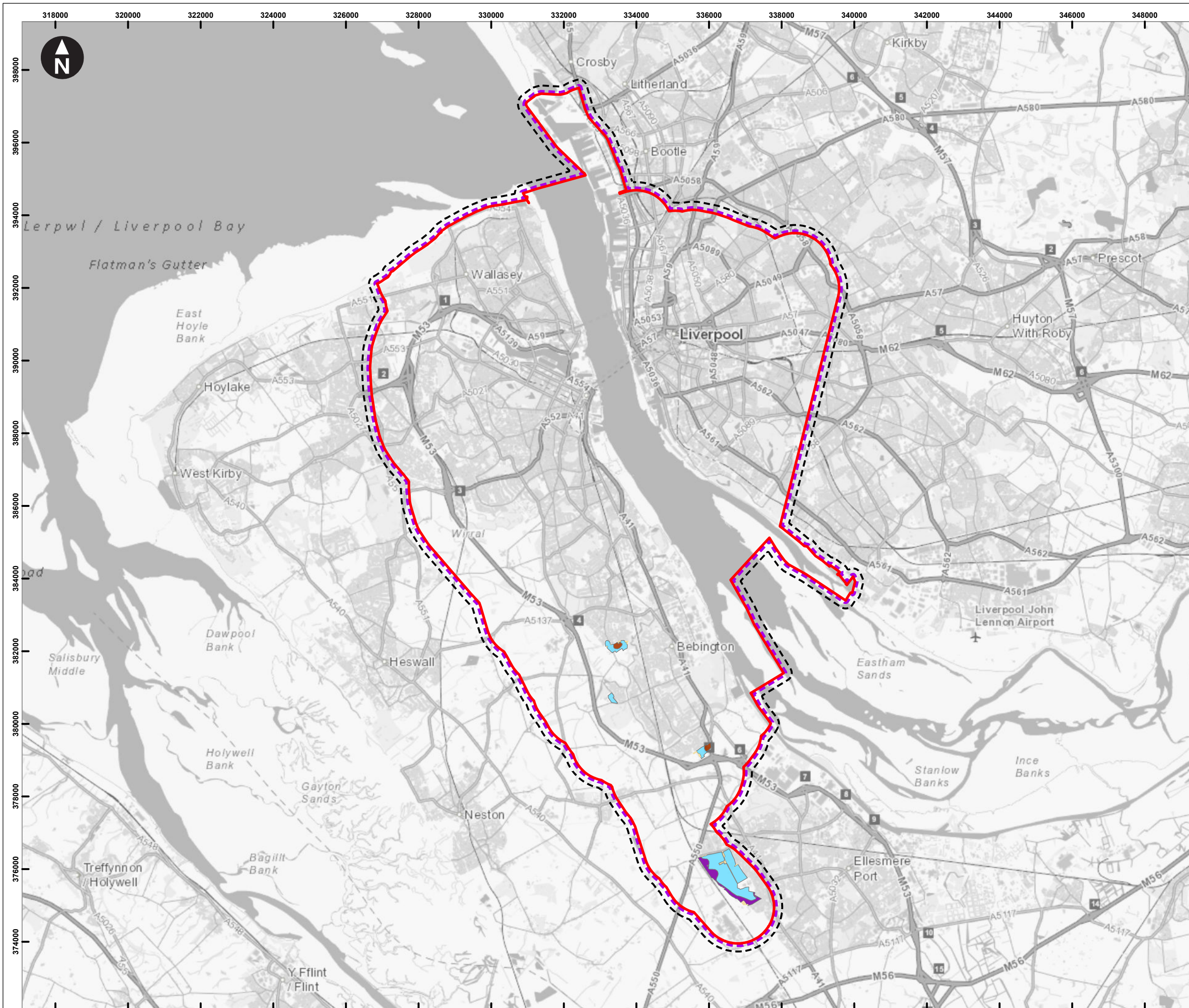
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Mersey Tidal Power Scoping Report  
Chapter 23: Geology and Ground Conditions

**Figure 23.5 Agricultural Land Classification (Provisional)**



**Key**

- Scoping Boundary
- Scoping Boundary 50m buffer
- Scoping Boundary 250m buffer

**Agricultural Land Classification (Post 1988)**

- Grade 2
- Grade 3a
- Grade 3b
- Other

0 1 2 Kilometers

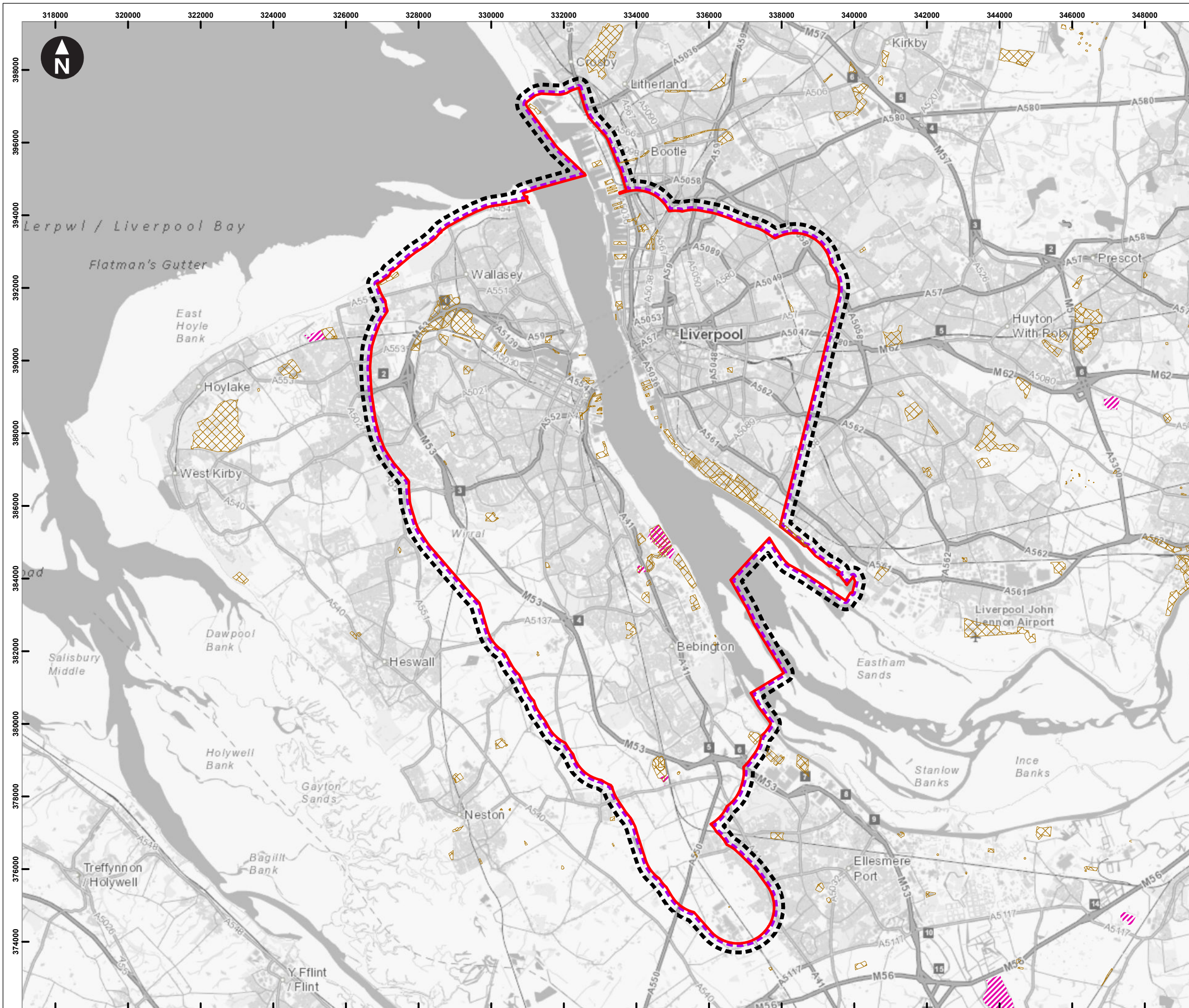
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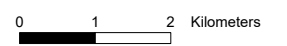
Mersey Tidal Power Scoping Report  
Chapter 23: Geology and Ground Conditions

**Figure 23.6 Agricultural Land Classification (Post 1988)**



**Key**

- Scoping Boundary
- Scoping Boundary 50m buffer
- Scoping Boundary 250m buffer
- Authorised Landfill Sites
- Historic Landfill Sites



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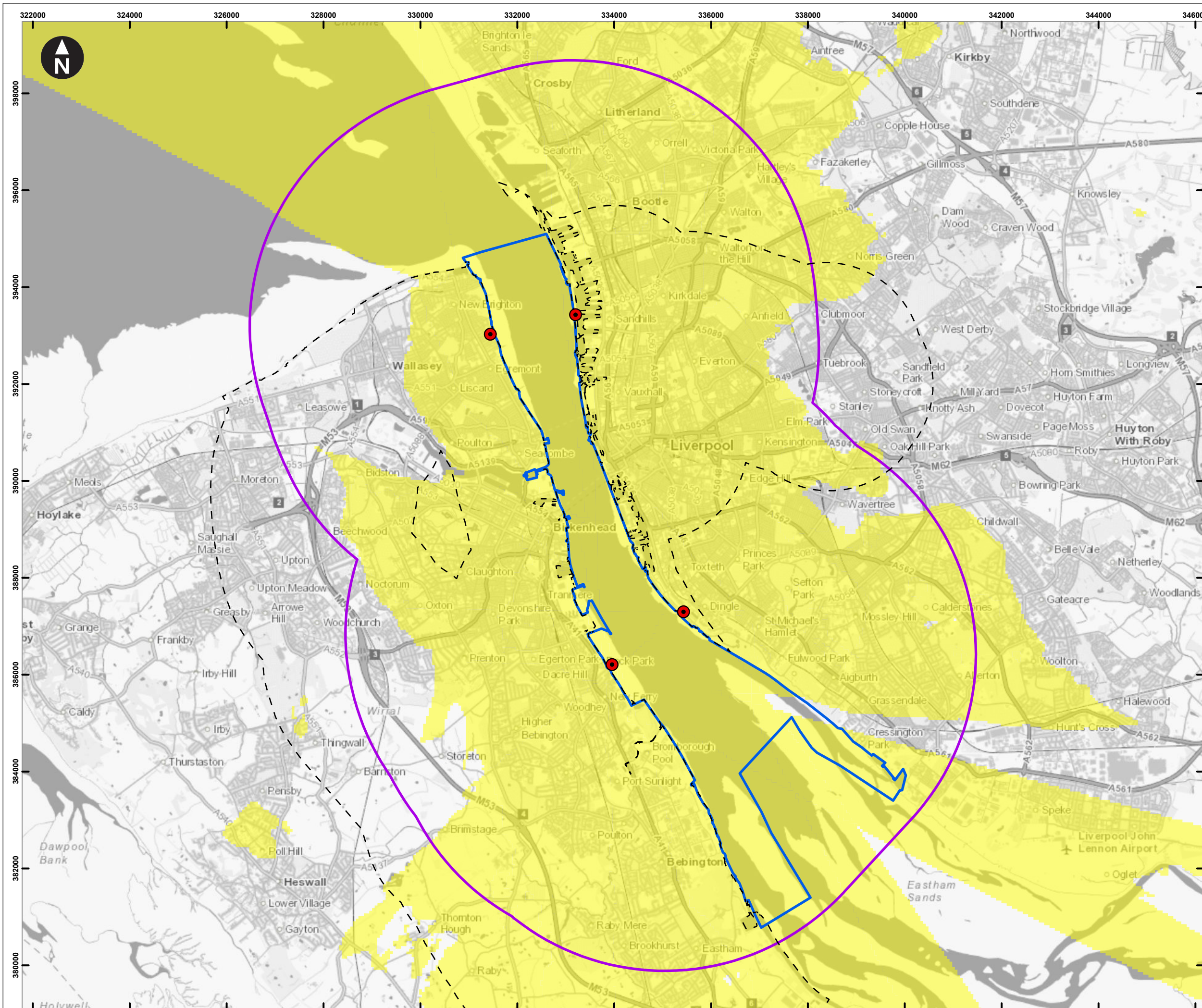


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Mersey Tidal Power Scoping Report  
 Chapter 23: Geology and Ground Conditions

**Figure 23.7 Authorised and Historic Landfill Sites**





**Key**

- 5km LVIA Study Area
- Tidal Barrage Development Area
- Target Point

Indicative location of the tallest anticipated permanent feature (gantry crane @ 40m AOD) to provide basis of the ZTV

- Areas where Mersey Barrage options are theoretically visible
- Grid Connection 2km buffer

Note. Zone of Theoretical Visibility (ZTV) was modelled using 2m Digital Terrain Model (DTM) data and accounts for the curvature of the Earth. The ZTV does not account for screening effects of buildings and vegetation.

Mersey Barrage height (m): 25  
 Viewer height (m): 1.65

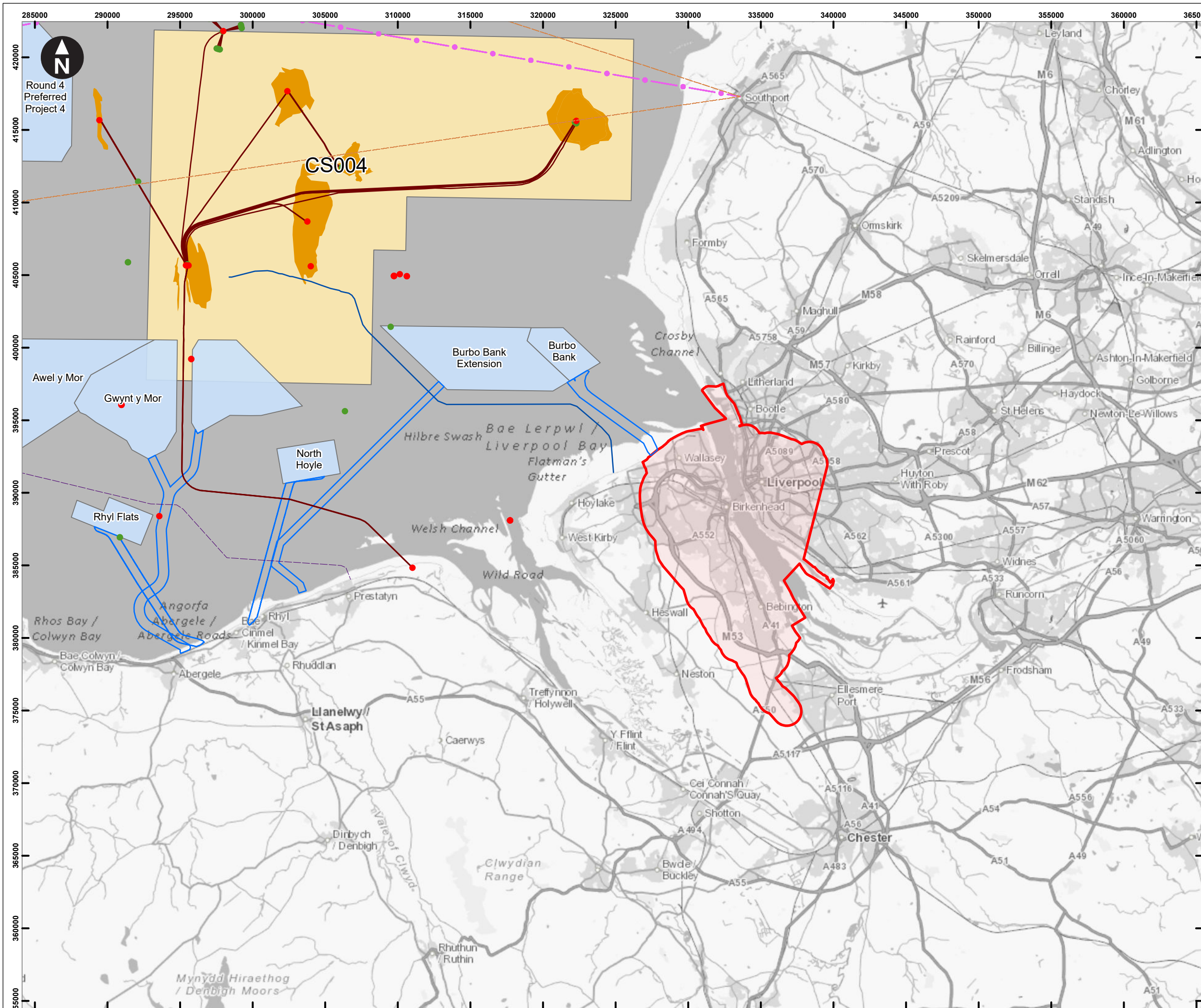
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Mersey Tidal Power Scoping Report  
 Chapter 25: Seascape, Landscape and Visual

**Figure 25.1 Mersey Barrage Zone of Theoretical Visibility**



- Key**
- Scoping Boundary
  - Offshore Wind Cable
  - Wind Site Agreements
  - UKCS Carbon Storage
  - Subsea Cables
  - Esat BT
  - GTT
  - Eirgrid East-West Interconnector
  - OGA Offshore Fields
  - OGA Pipelines
  - OGA Infrastructure SubSurface
  - OGA Infrastructure Surface

The schematic of these offshore interconnectors are shown for locational reference only and should not be scaled or taken as exact locations

0 1 2 Kilometers  
 Scale at A3: 1:250,000  
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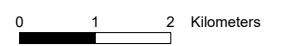
Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.1 Offshore Infrastructure**

Document Number	13/09/2024
MTP-WSP-00-ZZ-MP-EN-0028-S8-P03-EIA Scoping-Ch26-Figure 26.1 Offshore Infrastructure	



Key

- Scoping Boundary
- Onshore Renewable Energy Projects



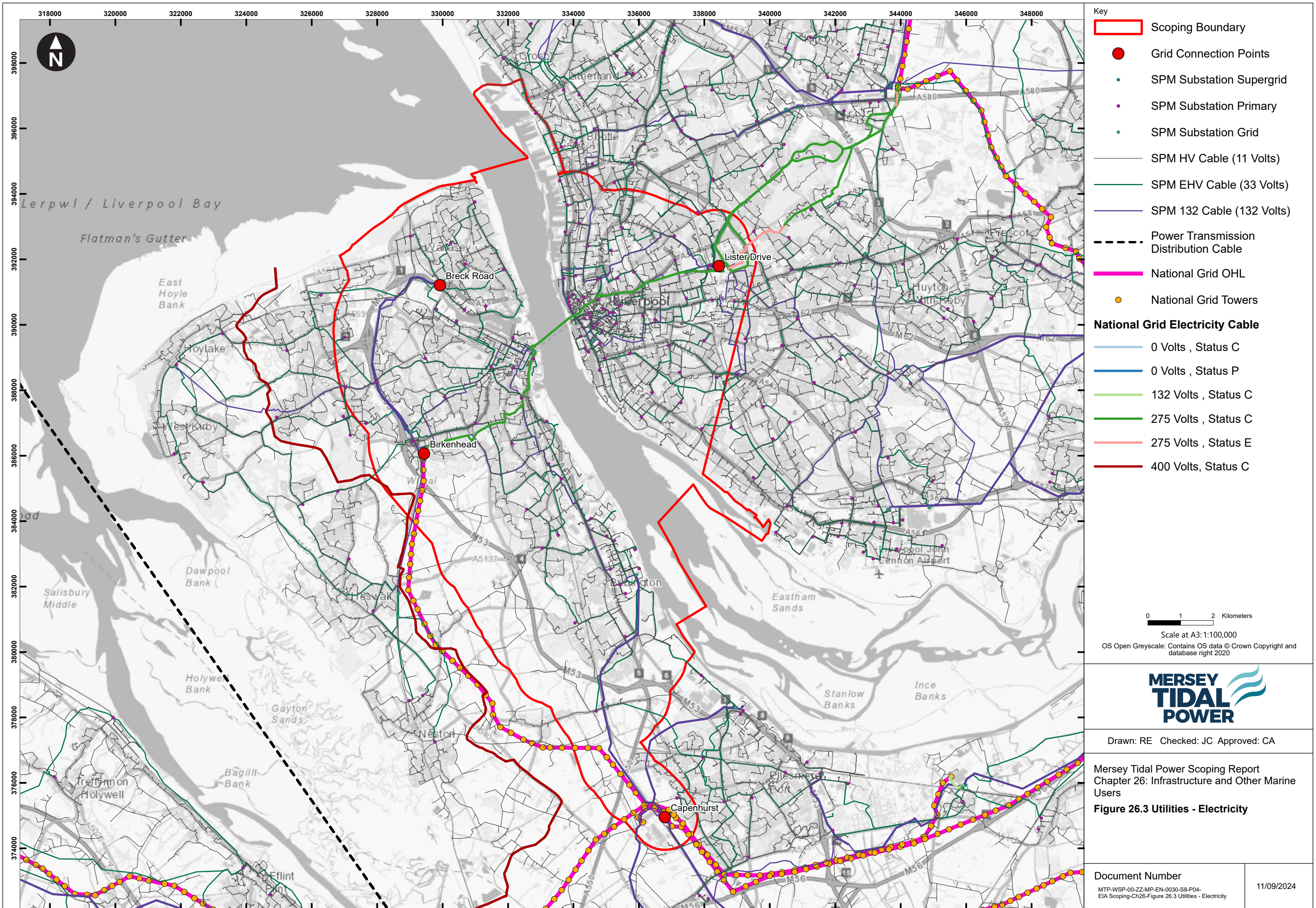
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Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.2 Onshore Renewable Energy Projects**

Document Number MTP-WSP-00-ZZ-MP-EN-0029-S8-P02- EIA Scoping-Ch26-Figure 26.2 Onshore Renewable Energy Projects	23/08/2024
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- Key**
- Scoping Boundary
  - Grid Connection Points
  - SPM Substation Supergrid
  - SPM Substation Primary
  - SPM Substation Grid
  - SPM HV Cable (11 Volts)
  - SPM EHV Cable (33 Volts)
  - SPM 132 Cable (132 Volts)
  - Power Transmission Distribution Cable
  - National Grid OHL
  - National Grid Towers
- National Grid Electricity Cable**
- 0 Volts , Status C
  - 0 Volts , Status P
  - 132 Volts , Status C
  - 275 Volts , Status C
  - 275 Volts , Status E
  - 400 Volts , Status C

0 1 2 Kilometers  
 Scale at A3: 1:100,000  
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Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.3 Utilities - Electricity**

Document Number MTP-WSP-00-ZZ-MP-EN-0030-S8-P04- EIA Scoping-Ch26-Figure 26.3 Utilities - Electricity	11/09/2024
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**Key**

- Scoping Boundary
- Pumping Station on Sewerage Network (water company)
- Storm Tank/CSO on Sewerage Network (water company)
- Water Transport/Sea + Inland
- WwTW (not water co) (not STP at a private premises)
- WwTW/Sewage Treatment Works (water company)
- Other

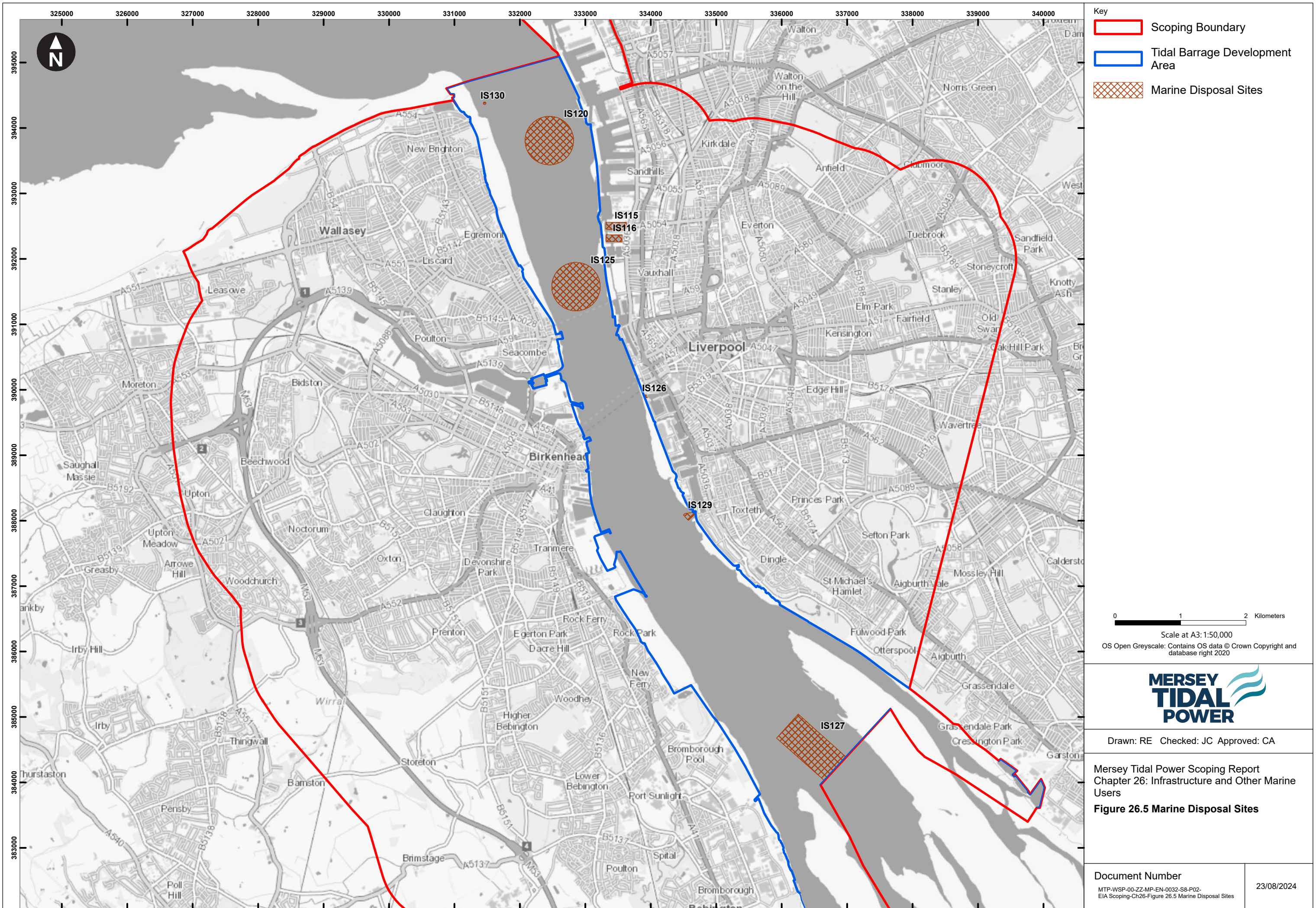
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Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.4 Water utilities**

Document Number	10/09/2024
MTP-WSP-00-ZZ-MP-EN-0031-S8-P03-EIA Scoping-Ch26-Figure 26.4 Water Utilities	



Key

- Scoping Boundary
- Tidal Barrage Development Area
- Marine Disposal Sites

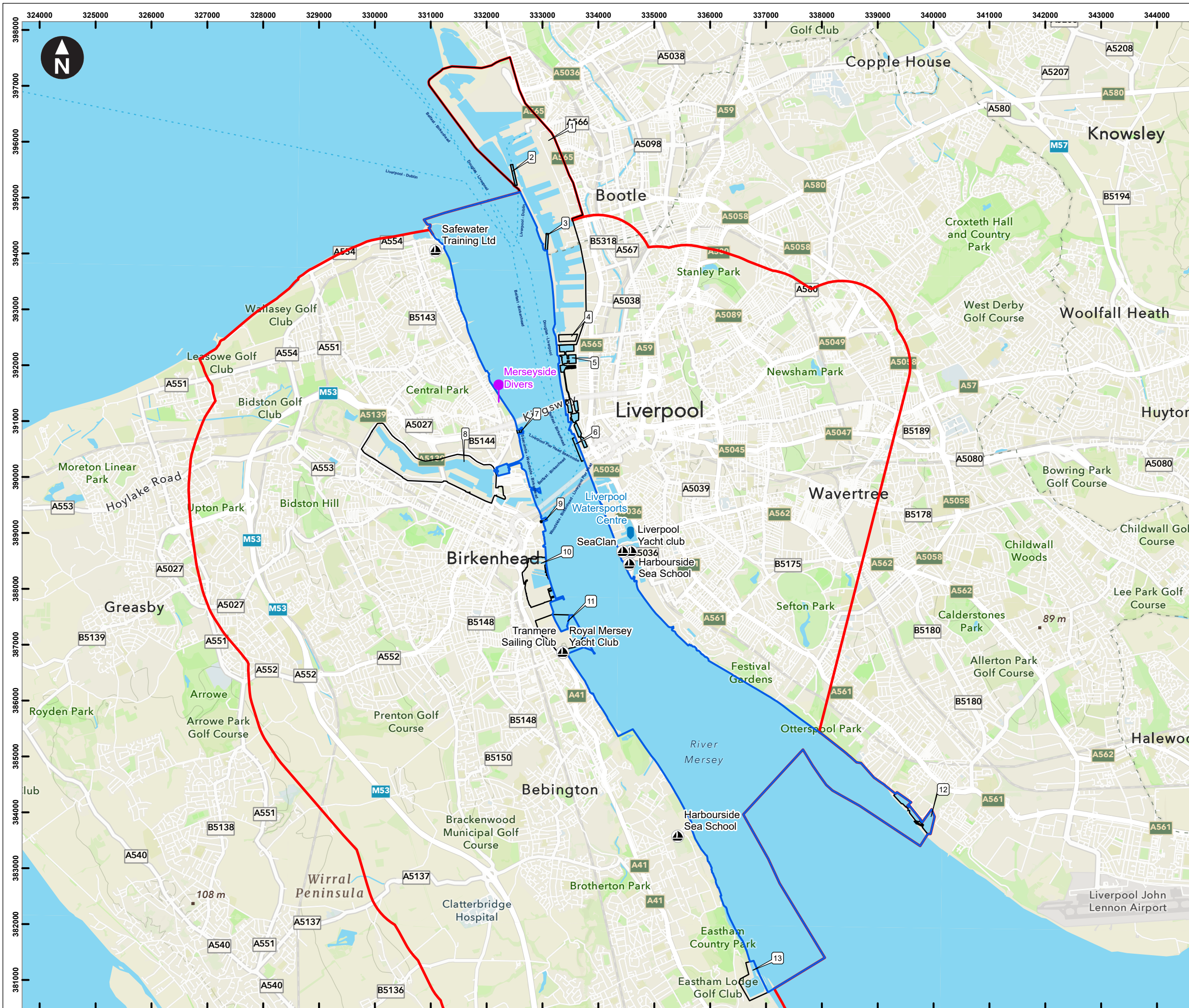
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Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.5 Marine Disposal Sites**

Document Number  
 MTP-WSP-00-ZZ-MP-EN-0032-S8-P02-  
 EIA Scoping-Ch26-Figure 26.5 Marine Disposal Sites  
 23/08/2024



**Key**

- Scoping Boundary
- Tidal Barrage Development Area

**Ports and Marinas suitable for charter vessels**

1. Port of Liverpool
2. Gladstone Lock
3. Langton Lock
4. Bramley Moore Dock
5. Liverpool Waters
6. Pier Head
7. Seacombe Ferry Terminal
8. Wirral Waters (Freeport)
9. Woodside Ferry Terminal
10. Cammell Laird
11. Tranmere Oil Terminal
12. Garston Dock
13. Queen Elizabeth II Dock

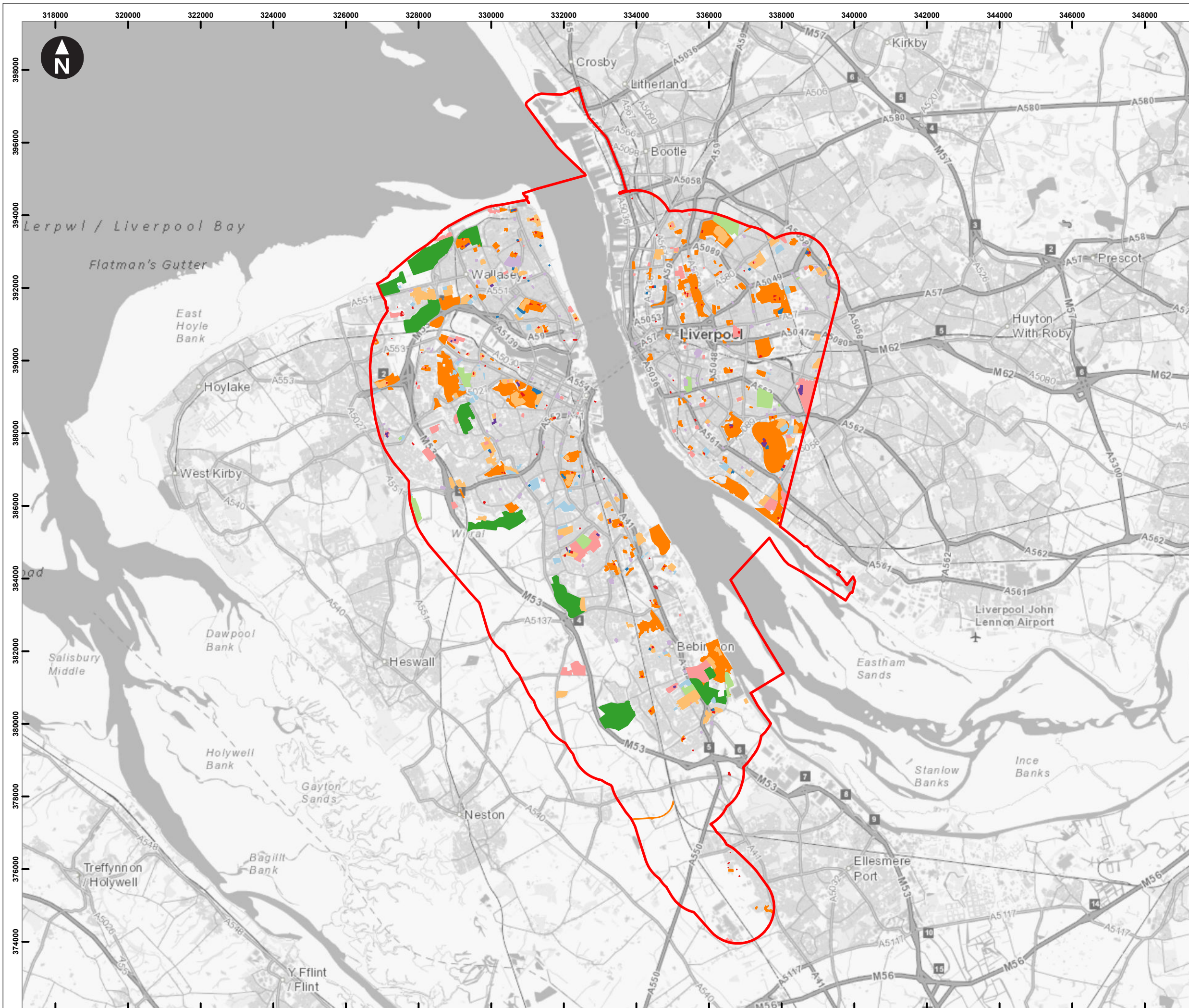
- Inshore sailing clubs
- Liverpool Watersports Centre
- Mersey Divers Scuba Club

0 1 2 Kilometers  
Scale at A3: 1:65,000  
Outdoor: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



Drawn: RE Checked: JC Approved: CA

Mersey Tidal Power Scoping Report  
Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.6 Recreational activities within the Tidal Barrage Development Area**



- Key
- Scoping Boundary
  - Allotments Or Community Growing Spaces
  - Bowling Green
  - Cemetery
  - Golf Course
  - Other Sports Facility
  - Play Space
  - Playing Field
  - Public Park Or Garden
  - Religious Grounds
  - Tennis Court

0 1 2 Kilometers

Scale at A3: 1:100,000  
 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

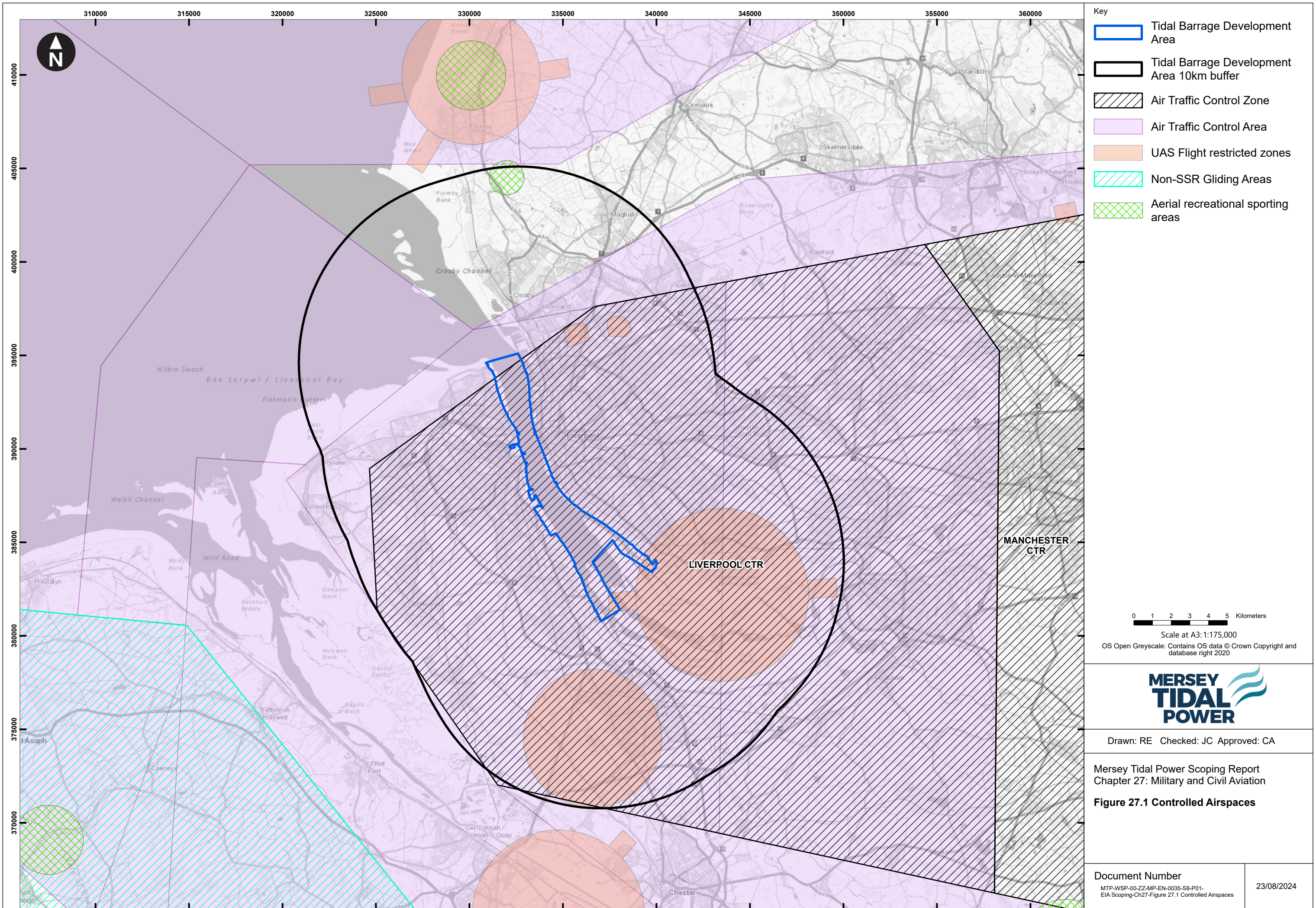



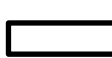
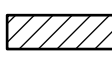

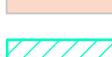


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Mersey Tidal Power Scoping Report  
 Chapter 26: Infrastructure and Other Marine Users  
**Figure 26.7 Recreational Activities - Green Spaces**

Document Number MTP-WSP-00-ZZ-MP-EN-0034-S8-P02- EIA Scoping-Ch26-Figure 26.7 Recreational activities - green spaces	23/08/2024
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- Key
-  Tidal Barrage Development Area
  -  Tidal Barrage Development Area 10km buffer
  -  Air Traffic Control Zone
  -  Air Traffic Control Area
  -  UAS Flight restricted zones
  -  Non-SSR Gliding Areas
  -  Aerial recreational sporting areas

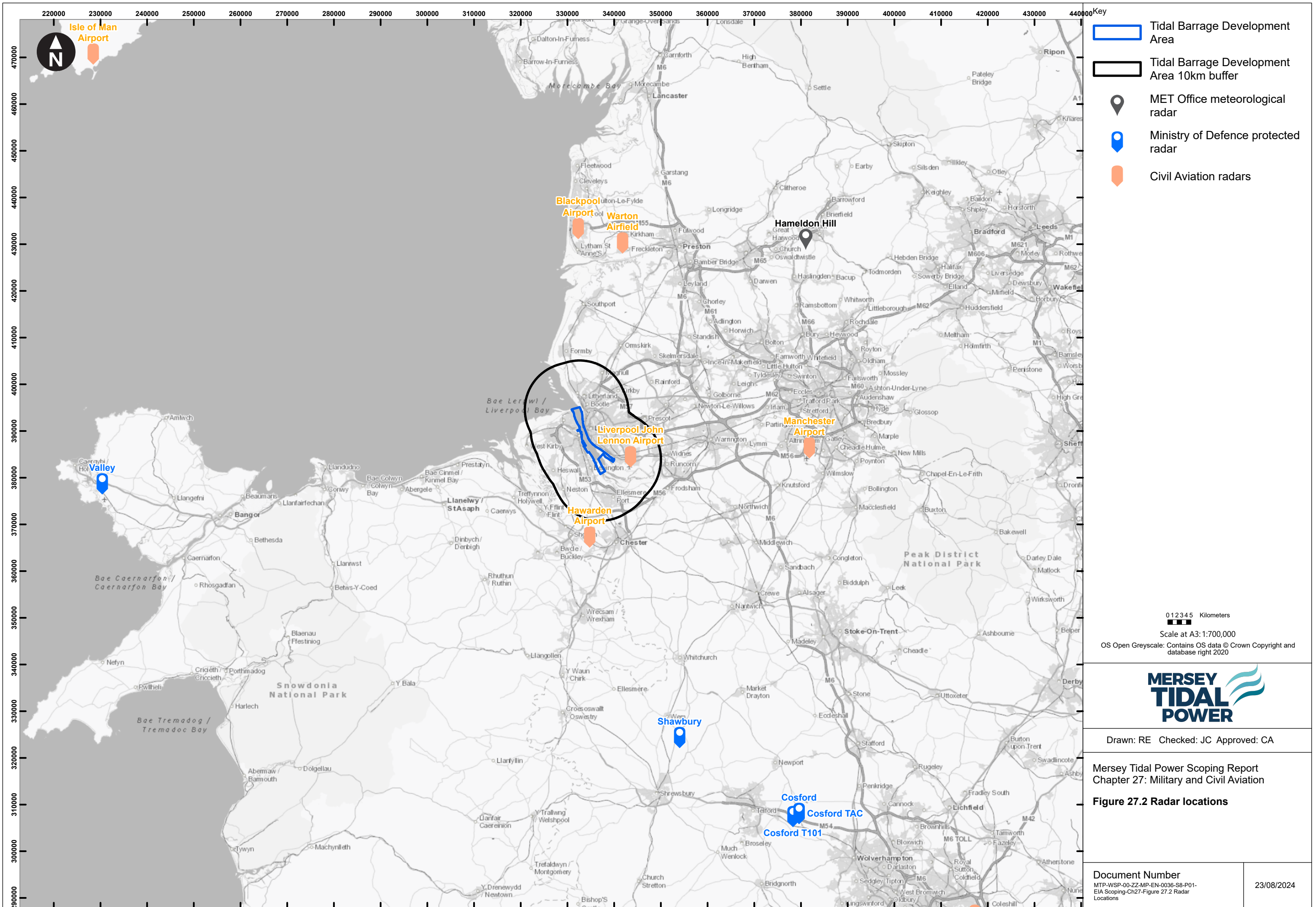
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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020



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Mersey Tidal Power Scoping Report  
 Chapter 27: Military and Civil Aviation  
**Figure 27.1 Controlled Airspaces**

Document Number MTP-WSP-00-ZZ-MP-EN-0035-S8-P01- EIA Scoping-Ch27-Figure 27.1 Controlled Airspaces	23/08/2024
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- Key
- Tidal Barrage Development Area
  - Tidal Barrage Development Area 10km buffer
  - 📍 MET Office meteorological radar
  - 📍 Ministry of Defence protected radar
  - 📍 Civil Aviation radars

0 12 34 5 Kilometers  
 Scale at A3: 1:700,000  
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Mersey Tidal Power Scoping Report  
 Chapter 27: Military and Civil Aviation  
**Figure 27.2 Radar locations**

ITS TIME  FOR TIDAL