

# **Light Valley Solar**

## **EIA Scoping Report**

**Figures Part 2 of 2**

**November 2024**

PINS Ref: EN0110012

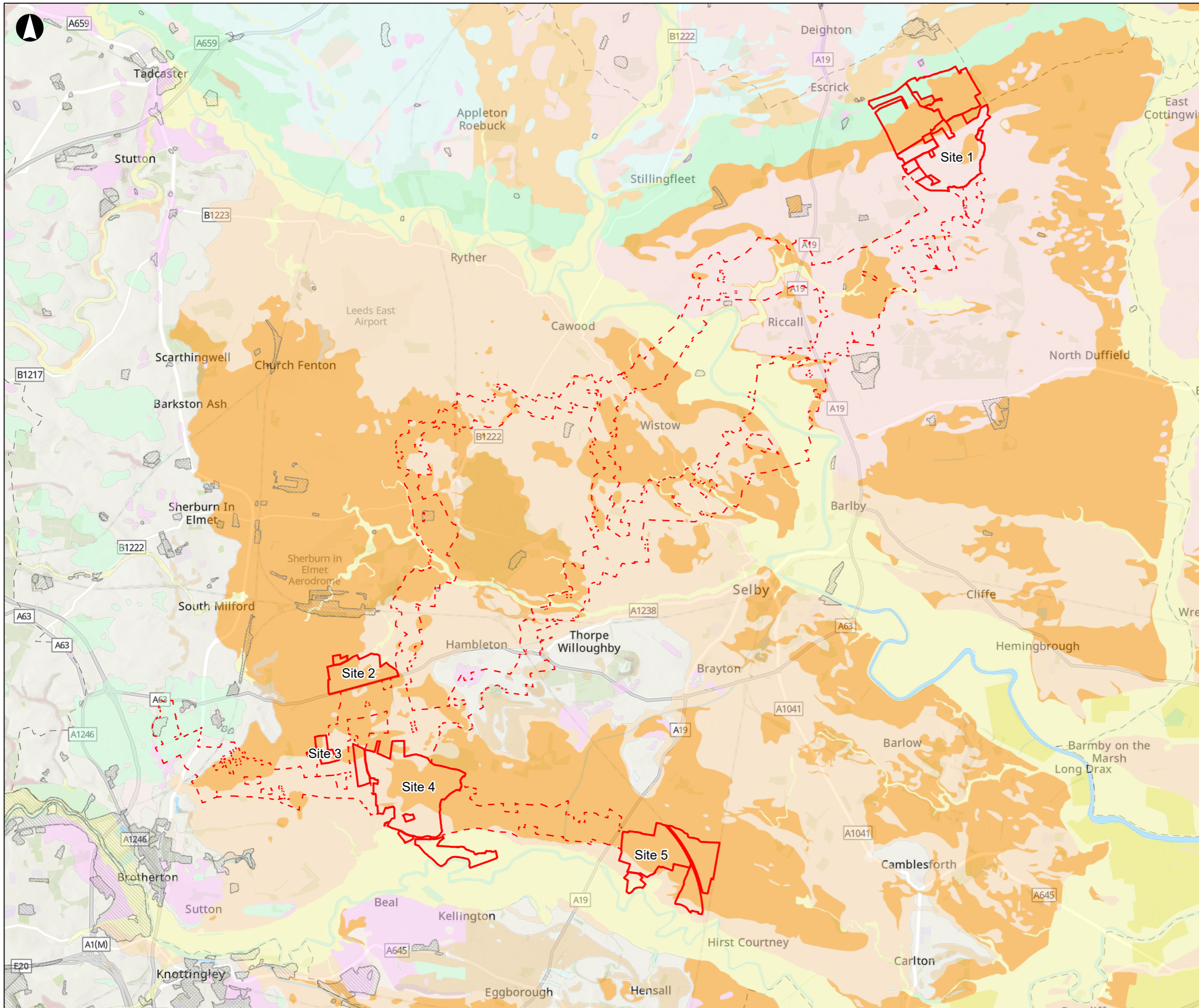


Light Valley  
**Solar**

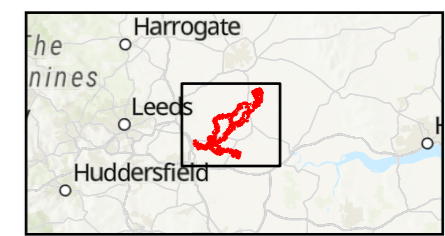
# Contents

<b>EIA Scoping Report Figures Part 1 (under separate cover)</b>	
Figure 1.1	Site Location and Draft Order Limits
Figure 1.2	Solar Development Concept Layout Plan Sheets 1 to 5
Figure 2.1	Environmental Designations (Biodiversity)
Figure 2.2	Environmental Designations (Cultural Heritage)
Figure 2.3	Environmental Designations (Water Resources and Flood Risk)
Figure 5.1	Provisional Agricultural Land Classification
Figure 5.2	Soil Associations and Likelihood of BMV Land Sheets 1 to 5
Figure 6.1	Industrial Installations
Figure 6.2	Air Quality Monitoring Sites and AQMAs
Figure 7.1	Statutory Designated Sites - International Designations 20km
Figure 7.2	Statutory Designated Sites - International Designations 2km
Figure 7.3	SSSI Impact Risk Zones 2km
Figure 7.4	Non-Statutory Designated Sites
Figure 7.5	Priority Habitats 2km Sheets 1 to 7
Figure 7.6	Priority Species 2km Sheet 1 to 9 – <b>CONFIDENTIAL (available on request)</b>
Figure 7.7	Baseline Habitats Sheets 1 to 5
Figure 9.1	Designated Heritage Assets Sheets 1 to 7
Figure 9.2	Non-Designated Heritage assets Sheets 1 to 5
<b>EIA Scoping Report Figures Part 2 (this document)</b>	
Figure 12.1	Superficial Geology
Figure 12.2	Bedrock Geology Site
Figure 12.3	Groundwater Source protection Zones and Licensed Abstractions Sheets 1 to 4
Figure 12.4	Coal Mining Records
Figure 12.5	Historic and Authorised Landfills
Figure 14.1	Site Location and Study Area
Figure 14.2	Environmental Designations
Figure 14.3	Published landscape Character Areas
Figure 14.4	Zone of Theoretical Visibility (ZTV) and Viewpoints Sheets 1 to 5
Figure 16.1	Noise and Vibration Study Area
Figure 17.1	Public Rights of Way Sheets 1 to 7
Figure 18.1	Traffic Count Routes Sheets 1 to 5
Figure 18.2	Bus and Rail Stations
Figure 19.1	Surface Water Features

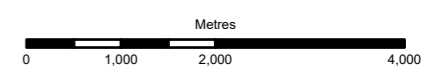
Figure 19.2	Bedrock Geology
Figure 19.3	Superficial Geology
Figure 19.4	Groundwater Designations
Figure 19.5	WER Surface Water Bodies
Figure 19.6	WER Groundwater Bodies
Figure 19.7	Environmental Designations
Figure 19.8	Abstractions and Discharges Sheets 1 to 4
Figure 19.9	Risk of Flooding from Surface Water Sheets 1 to 4
Figure 19.10	Risk of Flooding from Rivers and Seas
Figure 19.11	Risk of Flooding from Reservoirs
Figure 19.12	Susceptibility to Groundwater Flooding



- Solar Development Sites
- Cable Corridors Options Area
- British Geological Survey - Superficial**
- Alluvium - Clay, Silt, Sand and Gravel
- Brighton Sand Formation - Sand
- Elvington Glaciolacustrine Formation - Clay, silty
- Esrick Moraine Member - Clay, Sandy, Gravelly
- Esrick Moraine Member - Clay, Sandy, Gravelly
- Glaciofluvial Deposits, Devensian - Sand and gravel
- Harrogate Till Formation - Clay, sandy, gravelly
- Hemingbrough Glaciolacustrine Formation - Clay, Silty
- Lacustrine Beach Deposits - Sand and gravel
- Naburn Sand Member - Sand, silty, gravelly
- Peat - Peat
- Roxby Formation - Mudstone, Calcareous
- Skipwith Sand Member - Sand, clayey, gravelly
- Sutton Sand Formation - Sand
- Thorganby Clay Member - Clay, Salty
- Vale Of York Formation - Clay, sandy, gravelly
- Vale Of York Formation - Sand, gravelly
- Warp - Clay and silt
- British Geological Survey - Artificial Ground**
- Infilled Ground - Artificial Deposit
- Made Ground (Undivided) - Artificial Deposit
- Worked Ground (Undivided) - Void



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 BGS 50000 scale digital geology  
 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc. METINASA, USGS  
 World Hillshade: Esri, USGS  
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Drawing Title  
**Figure 12.1  
 Superficial Geology  
 Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

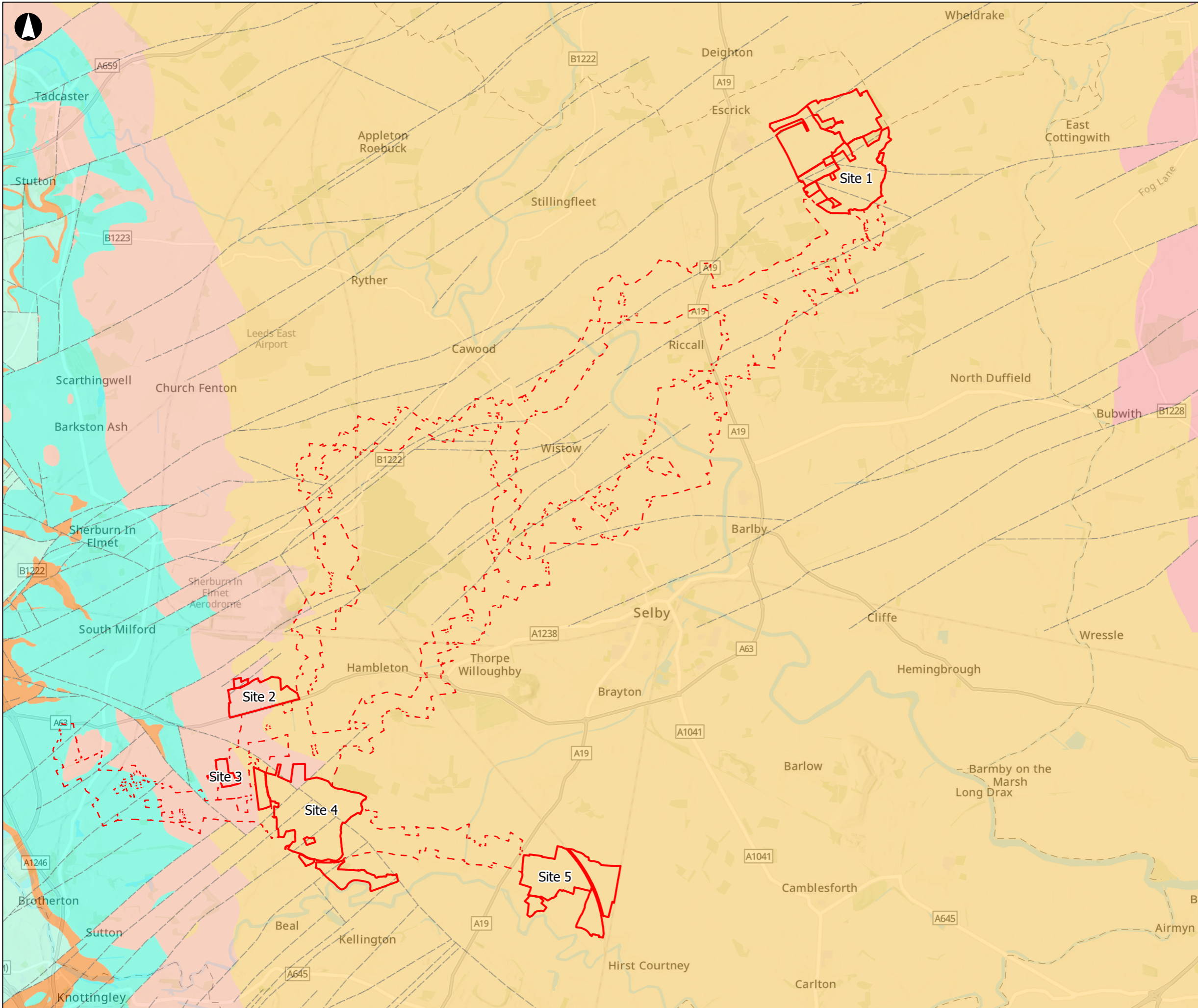
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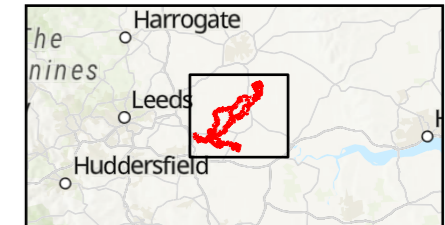
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Rev  
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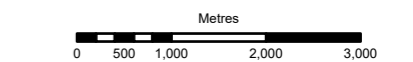
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- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
- British Geological Survey - Linear Features**
- Fault
- British Geological Survey - Bedrock**
- Brotherton Formation - Limestone Dolomitic
  - Cadeby Formation - Dolostone
  - Edlington Formation - Mudstone, calcareous
  - Mercia Mudstone Group - Mudstone
  - Roxby Formation - Mudstone, Calcareous
  - Sherwood Sandstone Group - Sandstone; Sharwood Sandstone Group - Sandstone



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 BGS 50000 scale digital geology  
 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
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Drawing Title  
**Figure 12.2  
 Bedrock Geology Site  
 Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

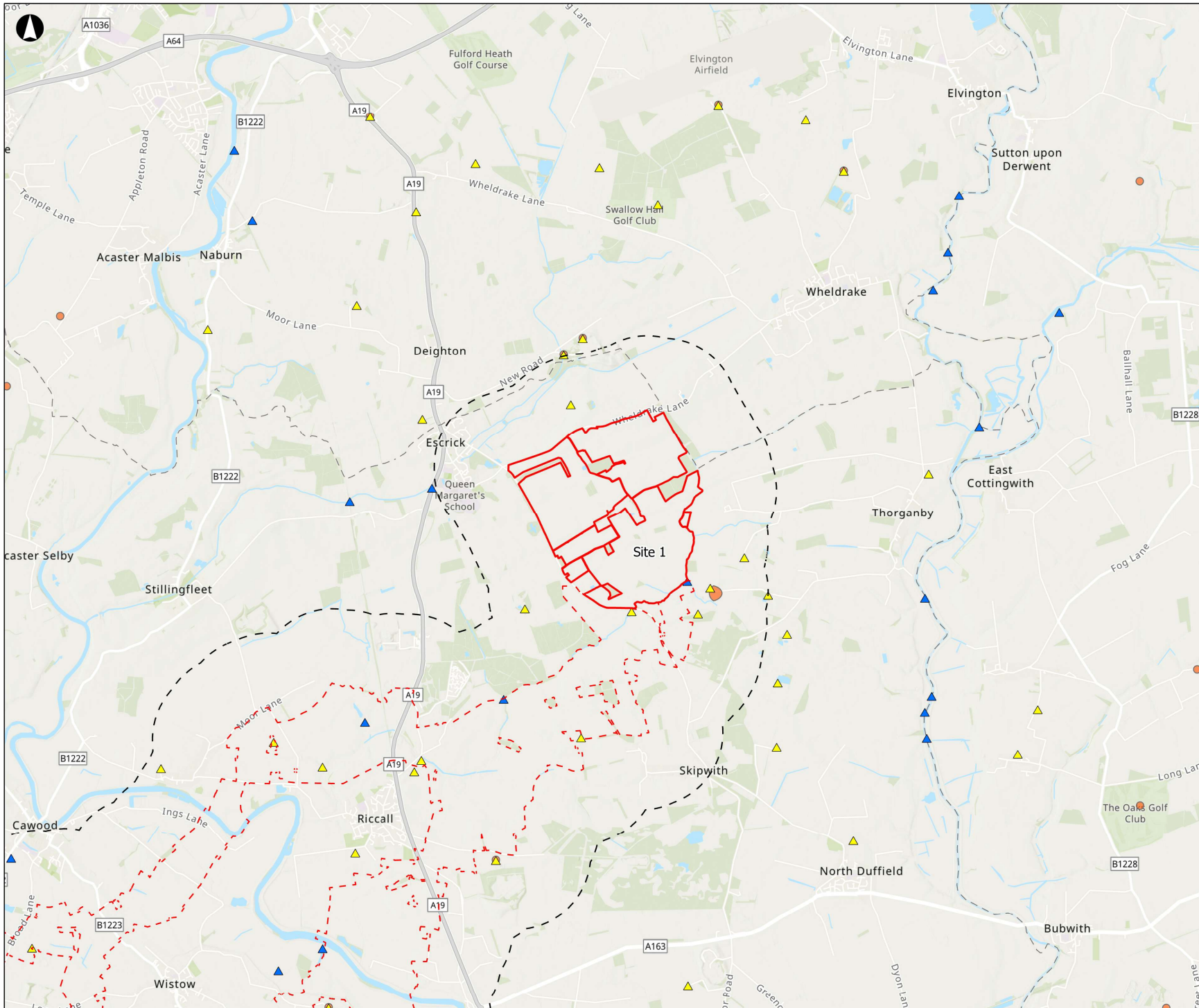
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Rev  
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**Draft Order Limits**

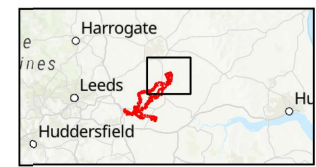
- Solar Development Sites
- Cable Corridors Options Area
- Study Area (1km buffer)

**Environment Agency Abstractions**

- Groundwater
- Surface Water
- Tidal Water

**Source Protection Zones**

3 2 1



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hydrology: Esri, Intermap, JNAS, NOAA, USGS  
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 World Hydrology: Esri, USGS  
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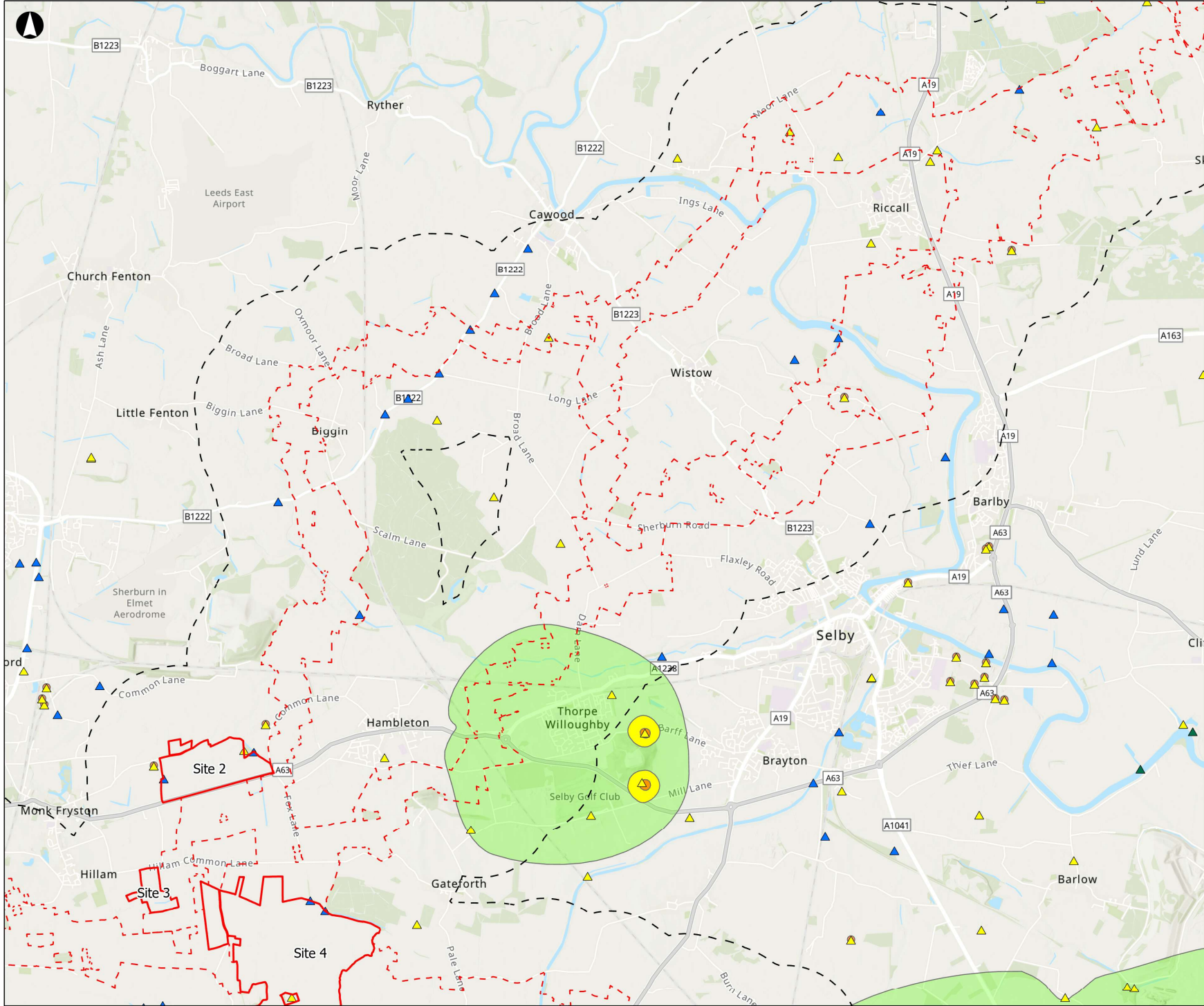
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**Groundwater Source Protection Zones**  
**and Licensed Abstractions**  
**Sheet 1 of 4**

Client  
**Light Valley Solar Limited**

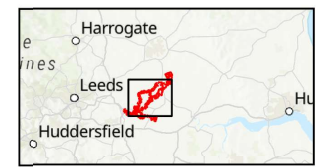
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Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-186</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (1km buffer)
- Environment Agency Abstractions**
- ▲ Groundwater
  - ▲ Surface Water
  - ▲ Tidal Water
- Source Protection Zones**
- 3
  2
  1



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
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Drawing Title  
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**Groundwater Source Protection Zones**  
**and Licensed Abstractions**  
**Sheet 2 of 4**

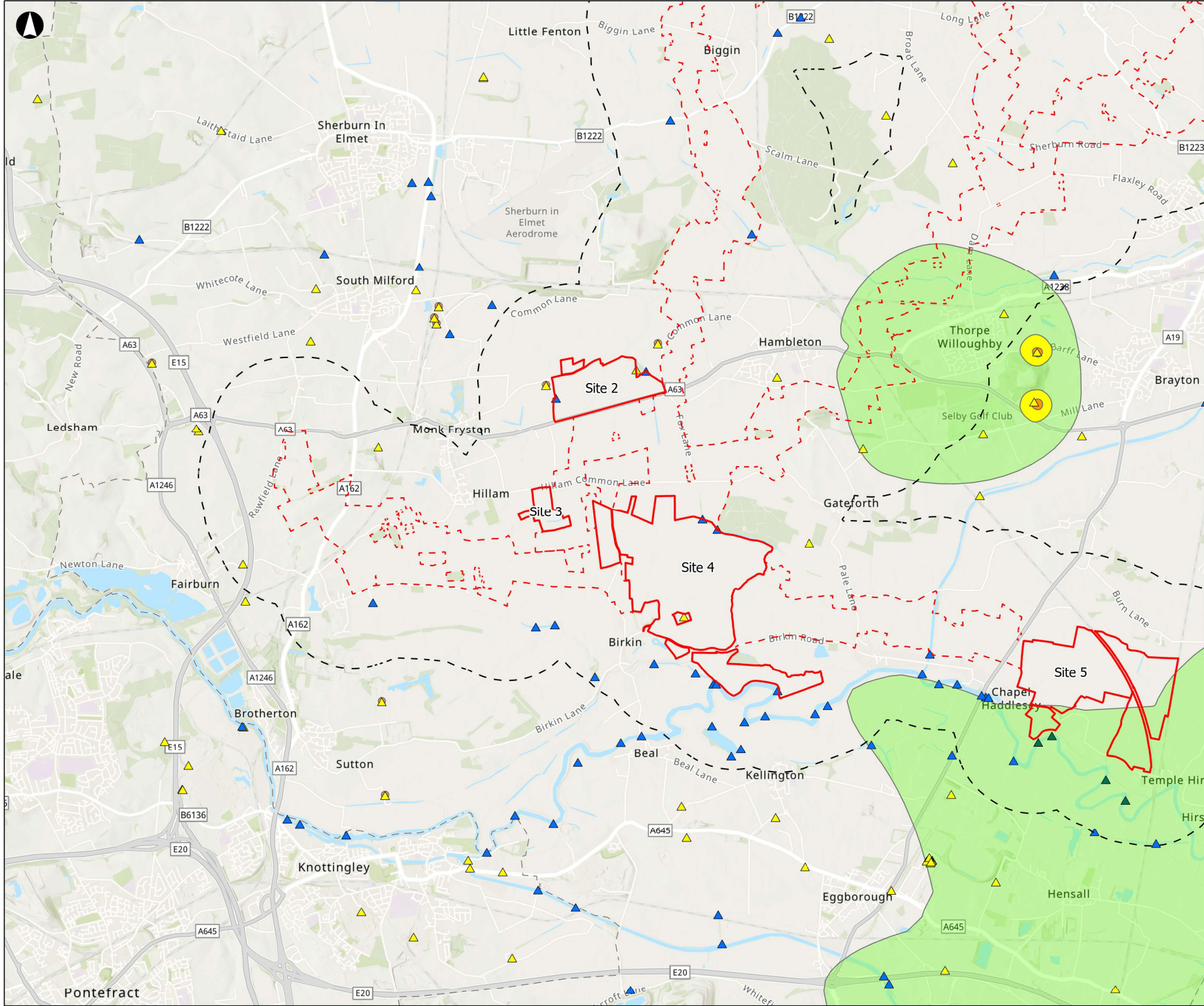
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Drawing Number  
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**Draft Order Limits**

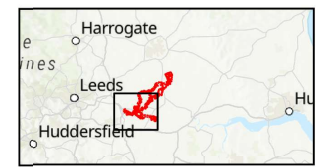
- Solar Development Sites
- Cable Corridors Options Area
- Study Area (1km buffer)

**Environment Agency Abstractions**

- Groundwater
- Surface Water
- Tidal Water

**Source Protection Zones**

3 2 1



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
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Drawing Title  
**Figure 12.3**  
**Groundwater Source Protection Zones**  
**and Licensed Abstractions**  
**Sheet 3 of 4**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

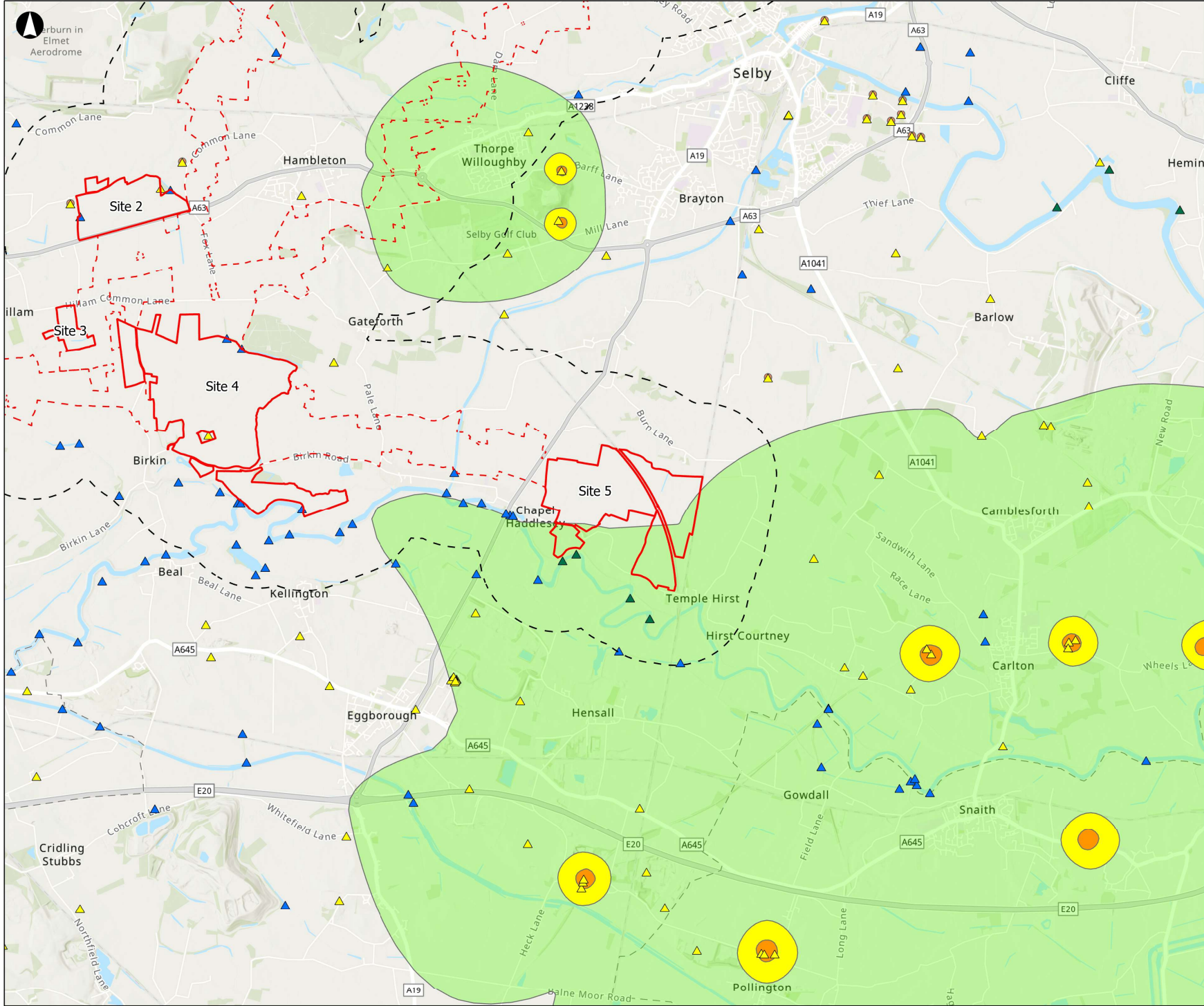
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Rev **P01**

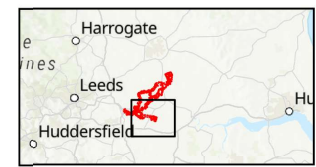




- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (1km buffer)
- Environment Agency Abstractions**
- ▲ Groundwater
  - ▲ Surface Water
  - ▲ Tidal Water
- Source Protection Zones**
- 3

2

1



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 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
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**Figure 12.3**  
**Groundwater Source Protection Zones**  
**and Licensed Abstractions**  
**Sheet 4 of 4**

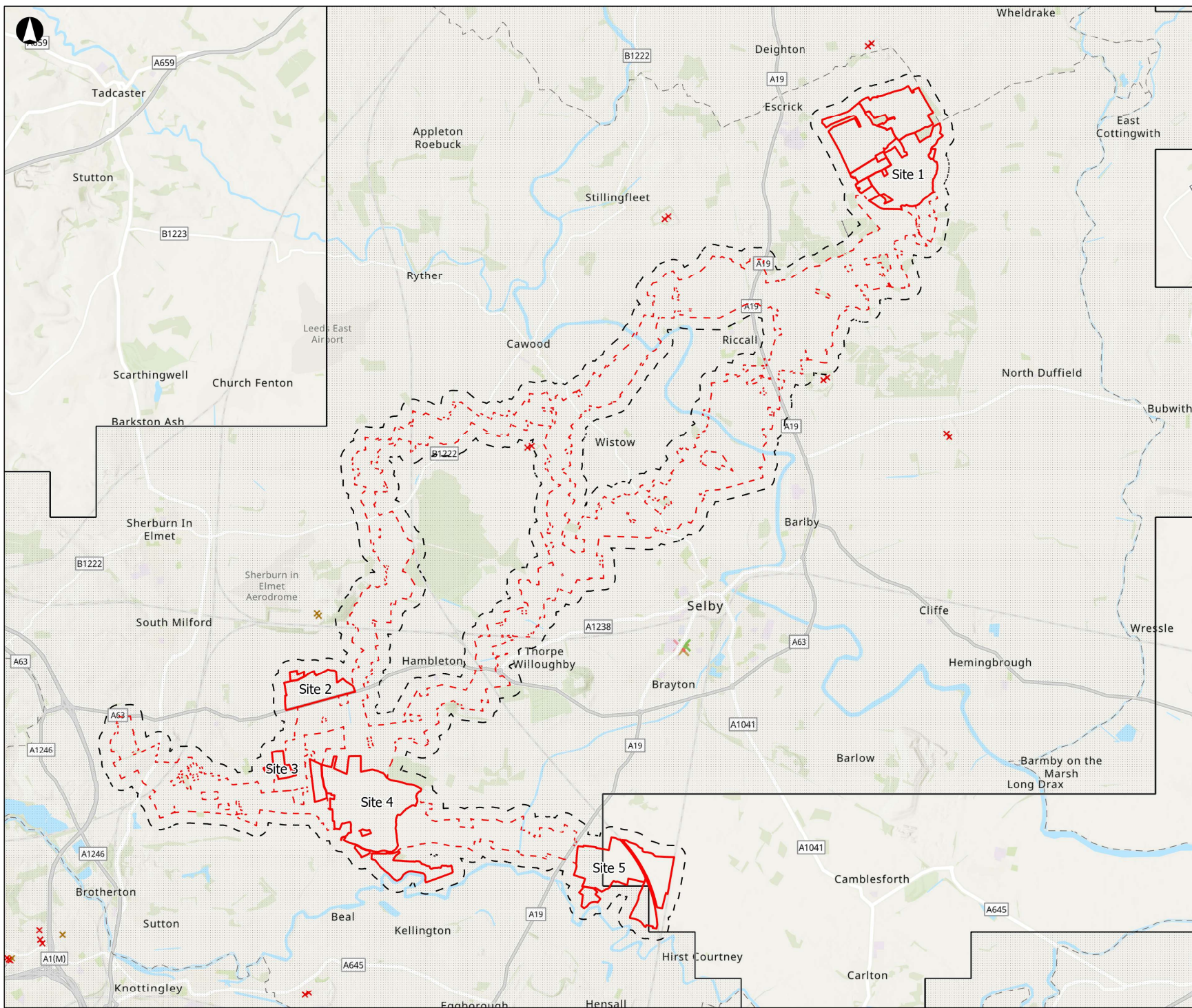
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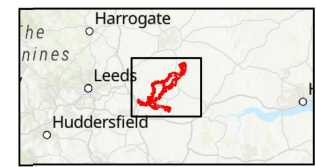
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Project Number <b>302939-00</b>	Rev <b>P01</b>
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Drawing Number  
**LVS-302939-189**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (250m buffer)
- Coal Authority Records**
- Mine Entries**
- ✕ Adit
  - ✕ Gutter Pit
  - ✕ Shaft
- Coal Mining Reporting Area
- Development High Risk Area



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Mileage: Esri, Intermap, NASA, NOAA, USGS  
 Coal Authority planning and policy constraints  
 Coal Authority specific risk data  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METRASA, USGS  
 World Mileage: Esri, USGS  
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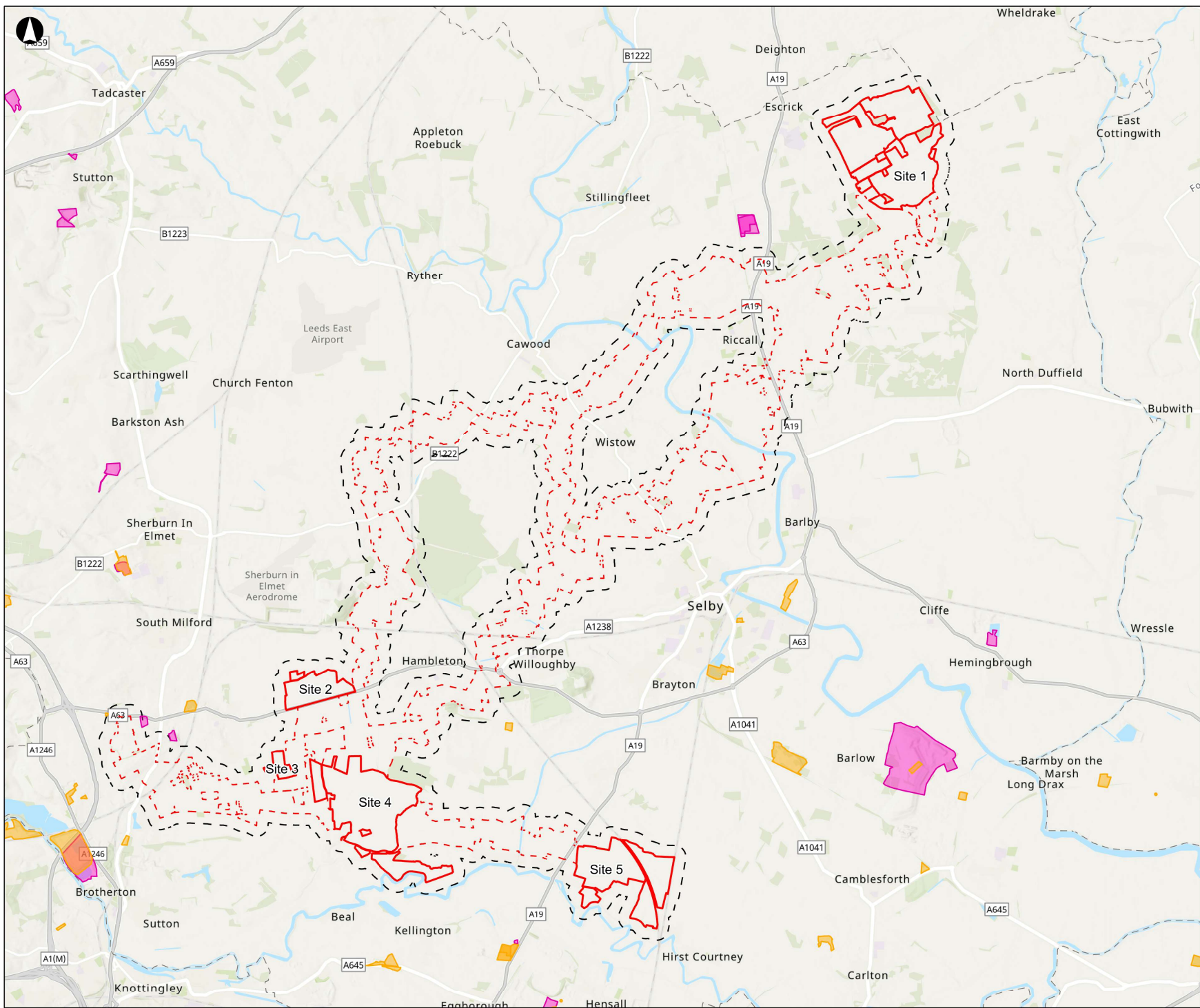
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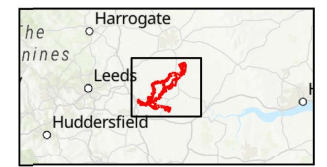


**Figure 12.4**  
**Coal Mining Records**  
**Sheet 1 of 1**

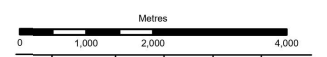
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Project Name	
Light Valley Solar	
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Project Number	Rev
302939-00	P01
Drawing Number	
LVS-302939-185	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (250m buffer)
  - Environment Agency - Permitted Waste Sites
  - Environment Agency - Historic Landfill Sites



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hillshade: Esri, Intermap, INRA, NOAA, USGS  
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Drawing Title

**Figure 12.5  
 Historic and Authorised Landfills  
 Sheet 1 of 1**

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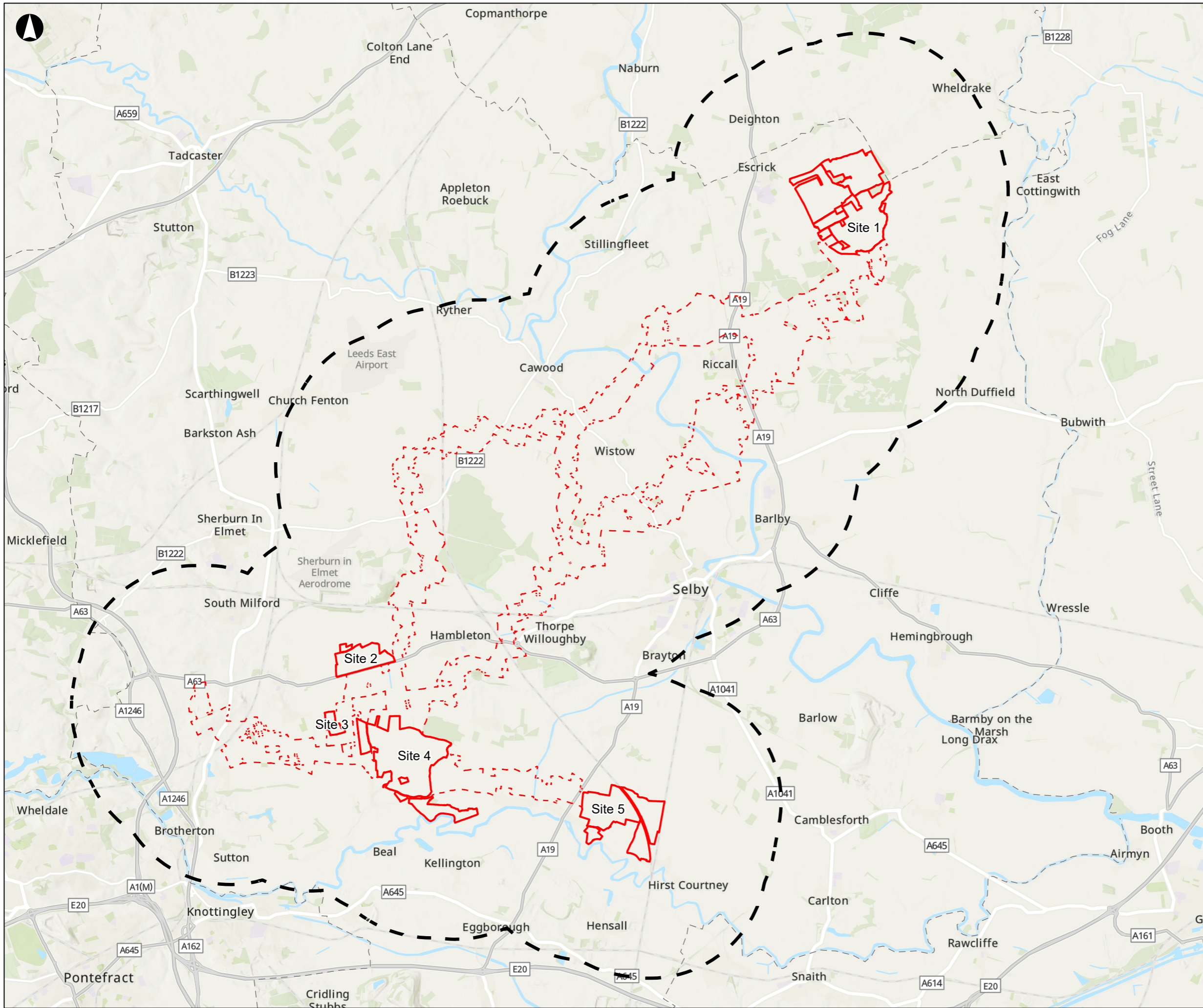
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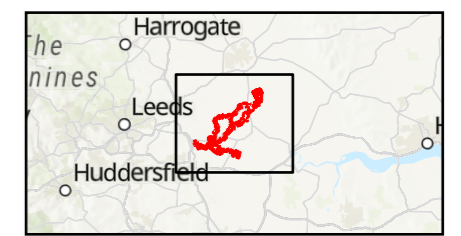
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Rev **P01**

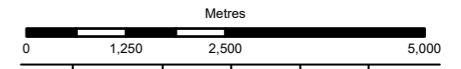


**Draft Order Limits**

- Solar Development Sites
- Cable Corridors Options Area
- LVIA Study Area (3km buffer)



Coordinate System: British National Grid  
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 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS  
 World Hillshade: Esri, USGS



P02	18/10/2024	CMCK	ACAR	KAND	JMCH
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**Figure 14.1**  
**Site Location and Study Area**  
**Sheet 1 of 1**

Client  
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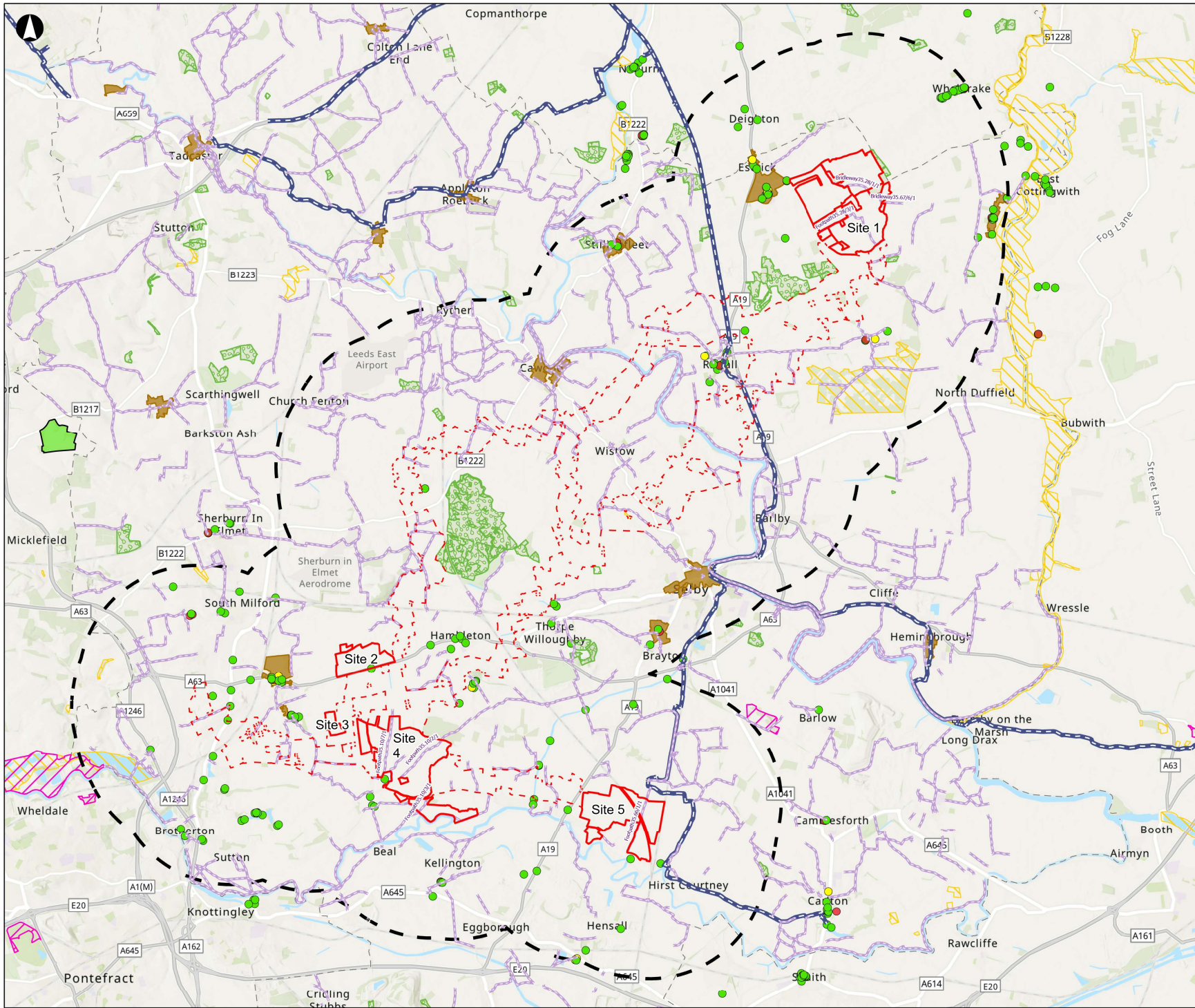
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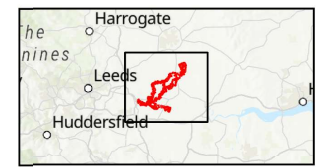
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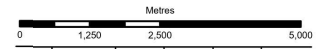
Rev  
**P02**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - LVIA Study Area (3km buffer)
  - National Cycle Network
  - Public Rights Of Way
- Listed Buildings**
- I
  - II\*
  - II
- Other Designations**
- SSSI
  - Conservation Areas
  - Local Nature Reserves
  - Ancient Woodland
  - Country Parks



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hydrology Map: Esri, Intermap, INRA, INCA, USGS  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METRANASA, USGS  
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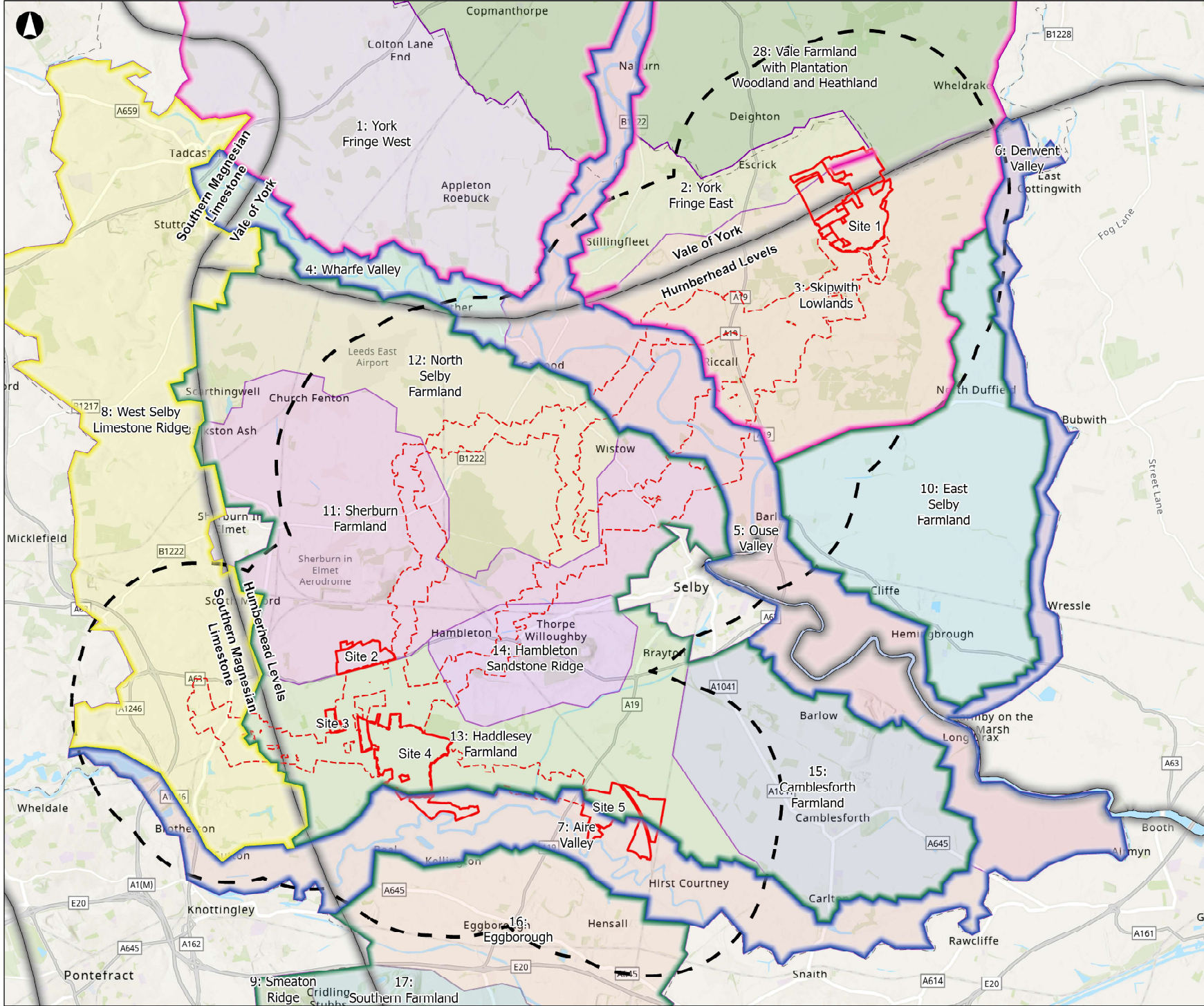
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 Environmental Designations  
 Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

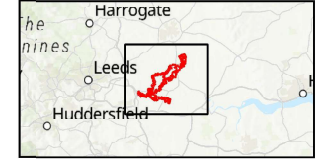
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Project Number	Rev
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Drawing Number	
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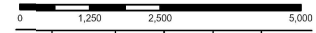


- Draft Order Limits**
- Solar Development Sites
  - Cable Corridor Options Area
  - LVIA Study Area (3km buffer)
- National Character Areas**
- National Character Areas
- Selby District Landscape Character Assessment**
- 1: York Fringe West
  - 2: York Fringe East
  - 3: Skipwith Lowlands
  - 4: Wharfe Valley
  - 5: Ouse Valley
  - 6: Derwent Valley
  - 7: Aire Valley
  - 8: West Selby Limestone Ridge
  - 9: Smeaton Ridge
  - 10: East Selby Farmland
  - 11: Sherburn Farmland
  - 12: North Selby Farmland
  - 13: Haddlesey Farmland
  - 14: Hambleton Sandstone Ridge
  - 15: Camblesforth Farmland
  - 16: Eggborough
  - 17: Southern Farmland
- North Yorkshire and York Landscape Characterisation Project**
- LCT 23: Levels Farmland
  - LCT 24: River Floodplain
  - LCT 28: Vale Farmland with Plantation Woodland and Heathland
  - LCT 6: Magnesian Limestone Ridge



Coordinate System: British National Grid

World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hillshade: Esri, Intermap, NOAA, NOAA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METI/NASA, USGS  
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Drawing Title  
**Figure 14.3  
 Published Landscape Character Areas  
 Sheet 1 of 1**

Client  
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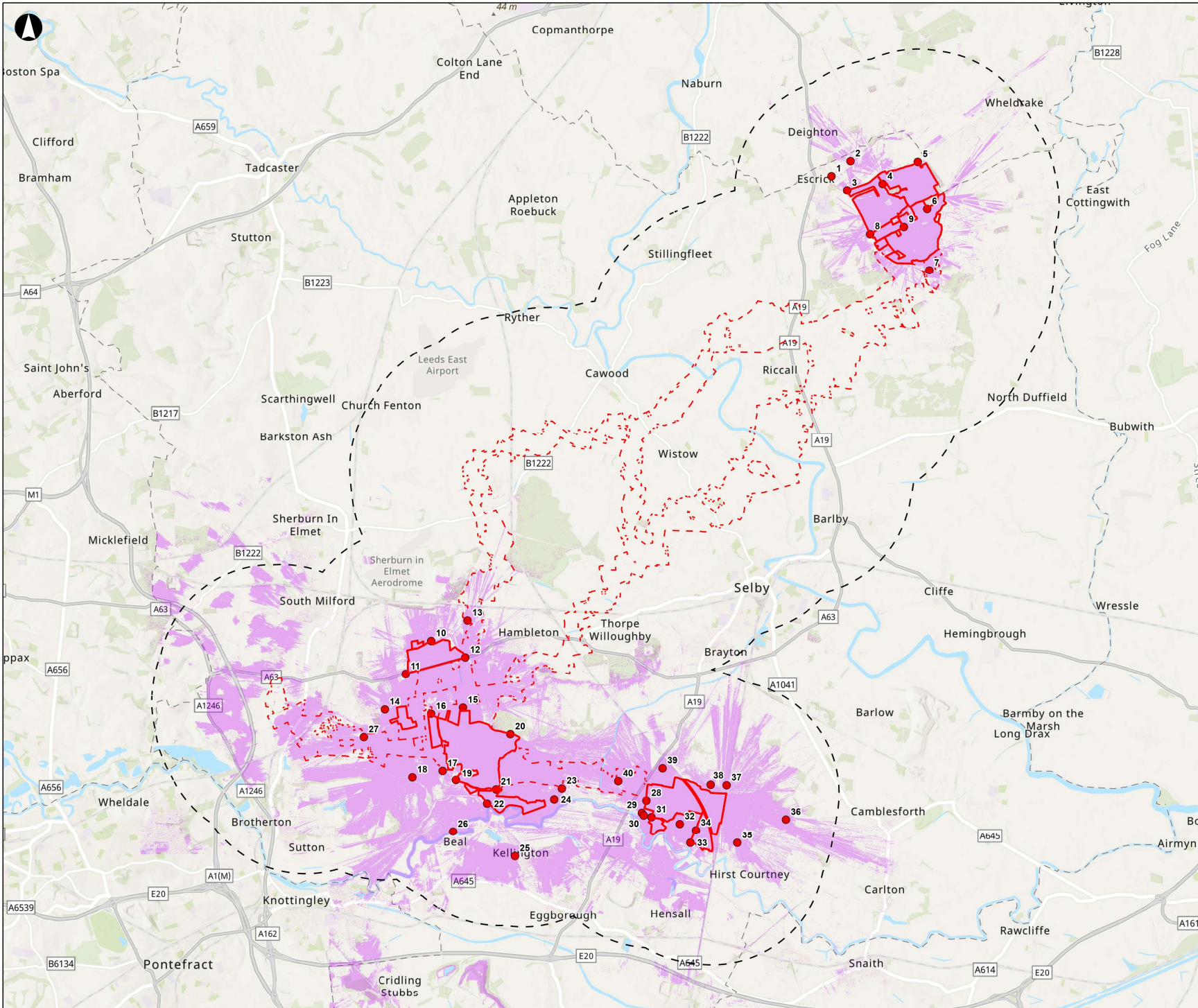
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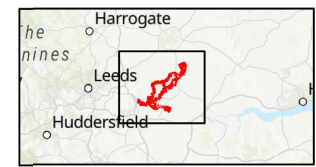
Revision  
**P02**

Drawing Number  
**LVS-302939-204**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - 1km Buffer
  - Proposed Viewpoint
  - Zone of Theoretical Visibility (ZTV)

ZTVs have been modelled using the 'Viewshed' tool in ESRI ArcMap GIS Software which shows areas from which the Proposed Development is theoretically visible or not visible. The ZTV was prepared using digital terrain model (DSM) data with a resolution of 1m. The DSM includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface where the first or only return was the ground. It is based on maximum solar panel heights of 4.5m. For all of ZTVs an assumed viewing height of 1.7m above ground level has been used to simulate the eye level of a person at the top of the range set out in paragraph 6.11 of GLVIA3 to represent the worst-case scenario.



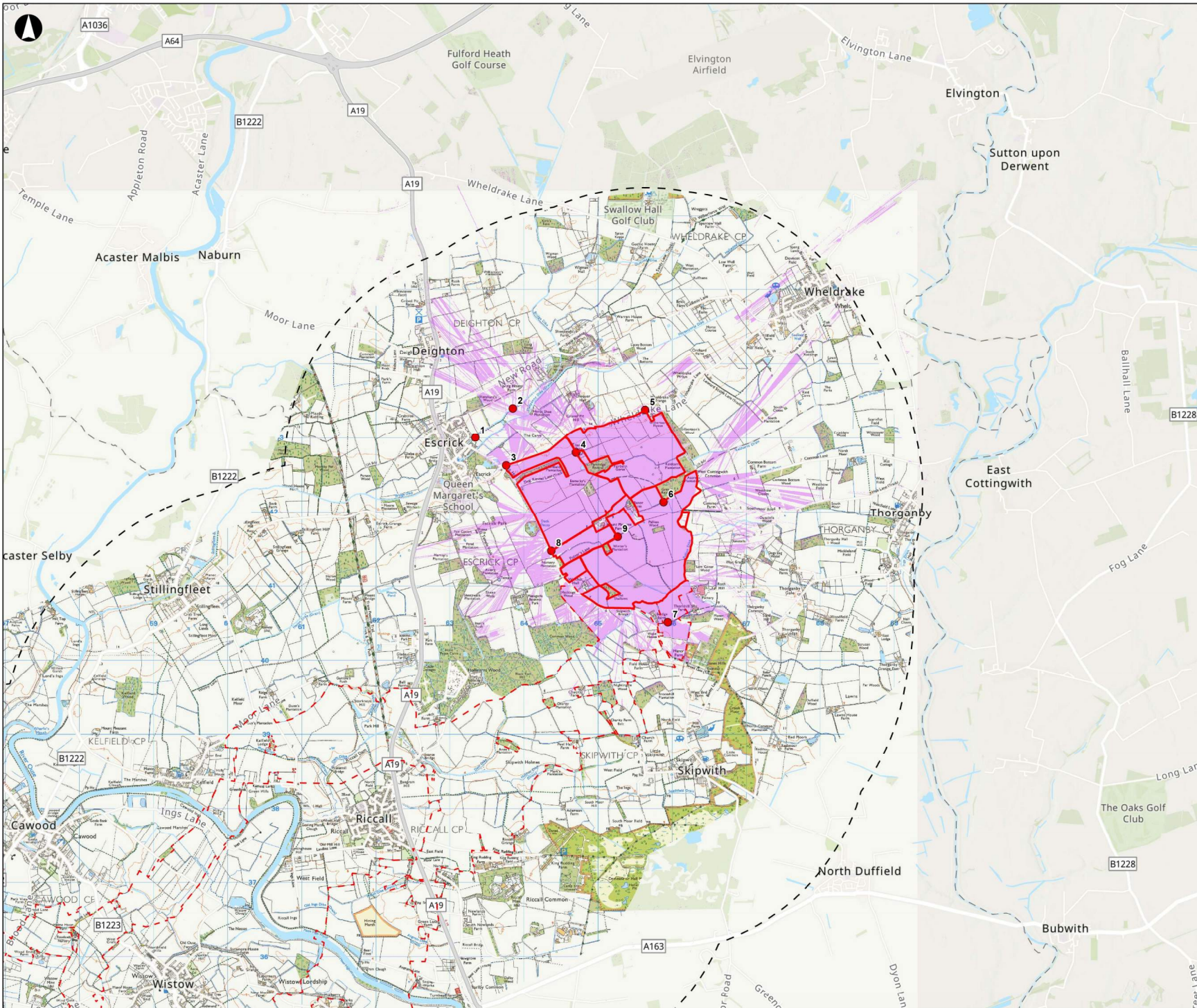
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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS  
 World Hillshade: Esri, USGS  
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Metres					
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P01	25/10/2024	CESL	ACAR	KAND	JMCH
Rev	Date	By	Chkd	Appd	Authd



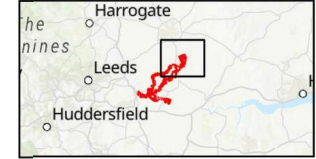
Drawing Title  
**Figure 14.4: Zone of Theoretical Visibility (ZTV) and Viewpoints**  
 Sheet 1 of 5

Client <b>Light Valley Solar Limited</b>					
Project Name <b>Light Valley Solar</b>					
Scale at A3 <b>1:98,393</b>					
Project Number <b>302939-00</b>					Rev <b>P01</b>
Drawing Number <b>LVS-302939-219</b>					



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - 3km Buffer
  - Proposed Viewpoint
  - Zone of Theoretical Visibility (ZTV)

ZTVs have been modelled using the 'Viewshed' tool in ESRI ArcMap GIS Software which shows areas from which the Proposed Development is theoretically visible or not visible. The ZTV was prepared using digital terrain model (DSM) data with a resolution of 1m. The DSM includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface where the first or only return was the ground. It is based on maximum solar panel heights of 4.5m. For all of ZTVs an assumed viewing height of 1.7m above ground level has been used to simulate the eye level of a person at the top of the range set out in paragraph 6.11 of GLVIA3 to represent the worst-case scenario.



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS  
 World Hillshade: Esri, USGS  
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Metres					
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PO1	25/10/2024	CESL	ACAR	KAND	JMCH
Rev	Date	By	Chkd	Appd	Authd



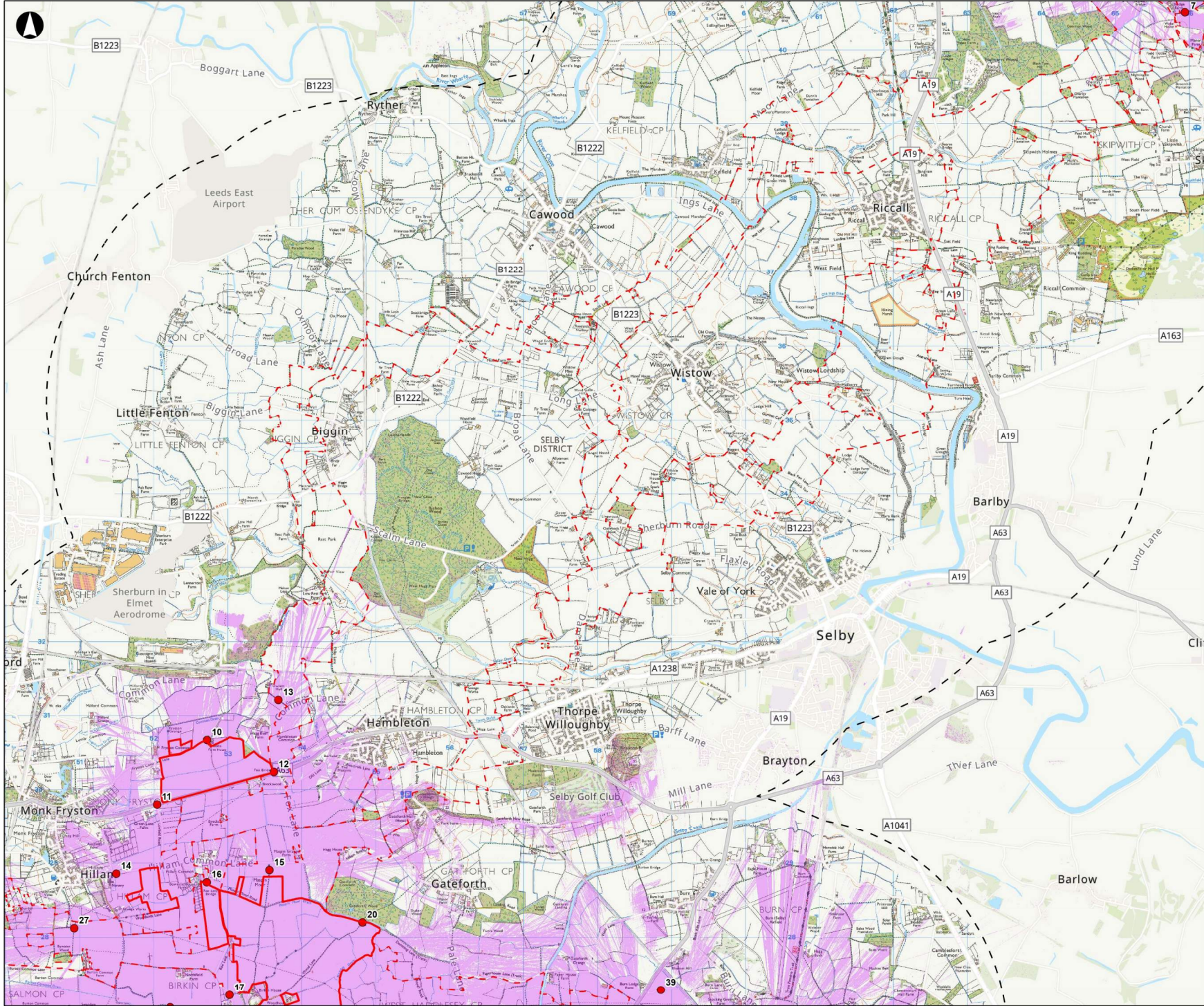
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**Figure 14.4: Zone of Theoretical Visibility (ZTV) and Viewpoints**  
 Sheet 2 of 5

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

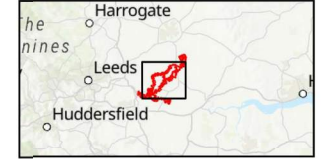
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<b>1:50,000</b>	
Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-220</b>	





- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - 3km Buffer
  - Proposed Viewpoint
  - Zone of Theoretical Visibility (ZTV)

ZTVs have been modeled using the 'Viewshed' tool in ESRI ArcMap GIS Software which shows areas from which the Proposed Development is theoretically visible or not visible. The ZTV was prepared using digital terrain model (DSM) data with a resolution of 1m. The DSM includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface where the first or only return was the ground. It is based on maximum solar panel heights of 4.5m. For all of ZTVs an assumed viewing height of 1.7m above ground level has been used to simulate the eye level of a person at the top of the range set out in paragraph 6.11 of GLVIA3 to represent the worst-case scenario.



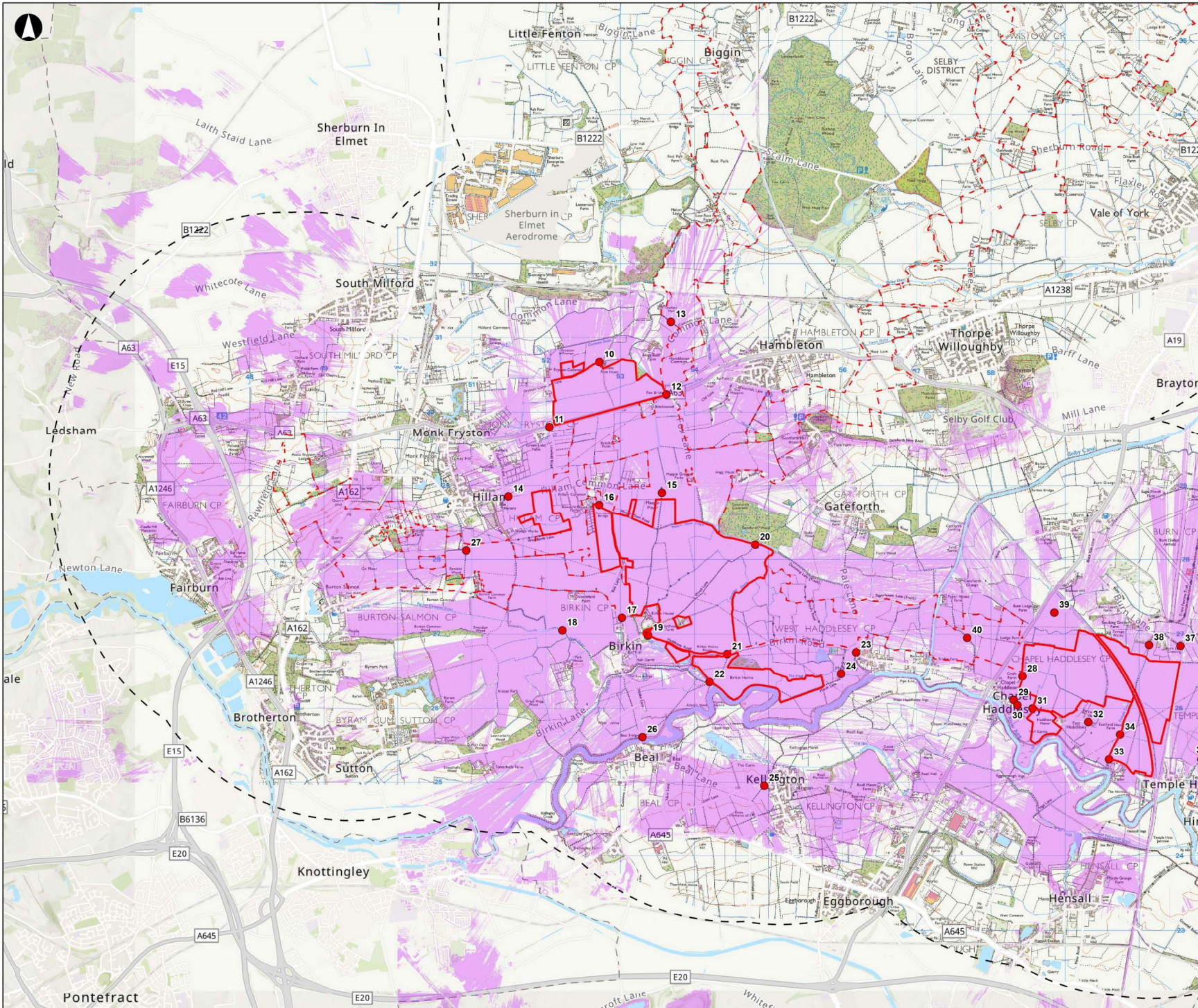
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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METI/NASA, USGS  
 World Hillshade: Esri, USGS  
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Metres				
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P01	25/10/2024	CESL	ACAR	KAND JMCH
Rev	Date	By	Chkd	Appld Authd



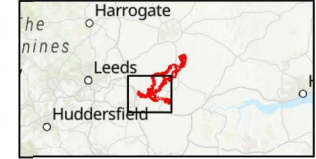
**Figure 14.4: Zone of Theoretical Visibility (ZTV) and Viewpoints Sheet 3 of 5**

Client	
Light Valley Solar Limited	
Project Name	
Light Valley Solar	
Scale at A3	
1:50,000	
Project Number	Rev
302939-00	P01
Drawing Number	
LVS-302939-221	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridor Options Area
  - 3km Buffer
  - Proposed Viewpoint
  - Zone of Theoretical Visibility (ZTV)

ZTVs have been modeled using the 'Viewshed' tool in ESRI ArcMap GIS Software which shows areas from which the Proposed Development is theoretically visible or not visible. The ZTV was prepared using digital terrain model (DSM) data with a resolution of 1m. The DSM includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface where the first or only return was the ground. It is based on maximum solar panel heights of 4.5m. For all of ZTVs an assumed viewing height of 1.7m above ground level has been used to simulate the eye level of a person at the top of the range set out in paragraph 6.11 of GLVIA3 to represent the worst-case scenario.



Coordinate System: British National Grid

World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hillshade: Esri, Intermap, NASA, NOAA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METINASA, USGS  
 World Hillshade: Esri, USGS  
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Metres				
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PO1	25/10/2024	CESL	ACAR	KAND JMCH
Rev	Date	By	Chkd	Appld Authd

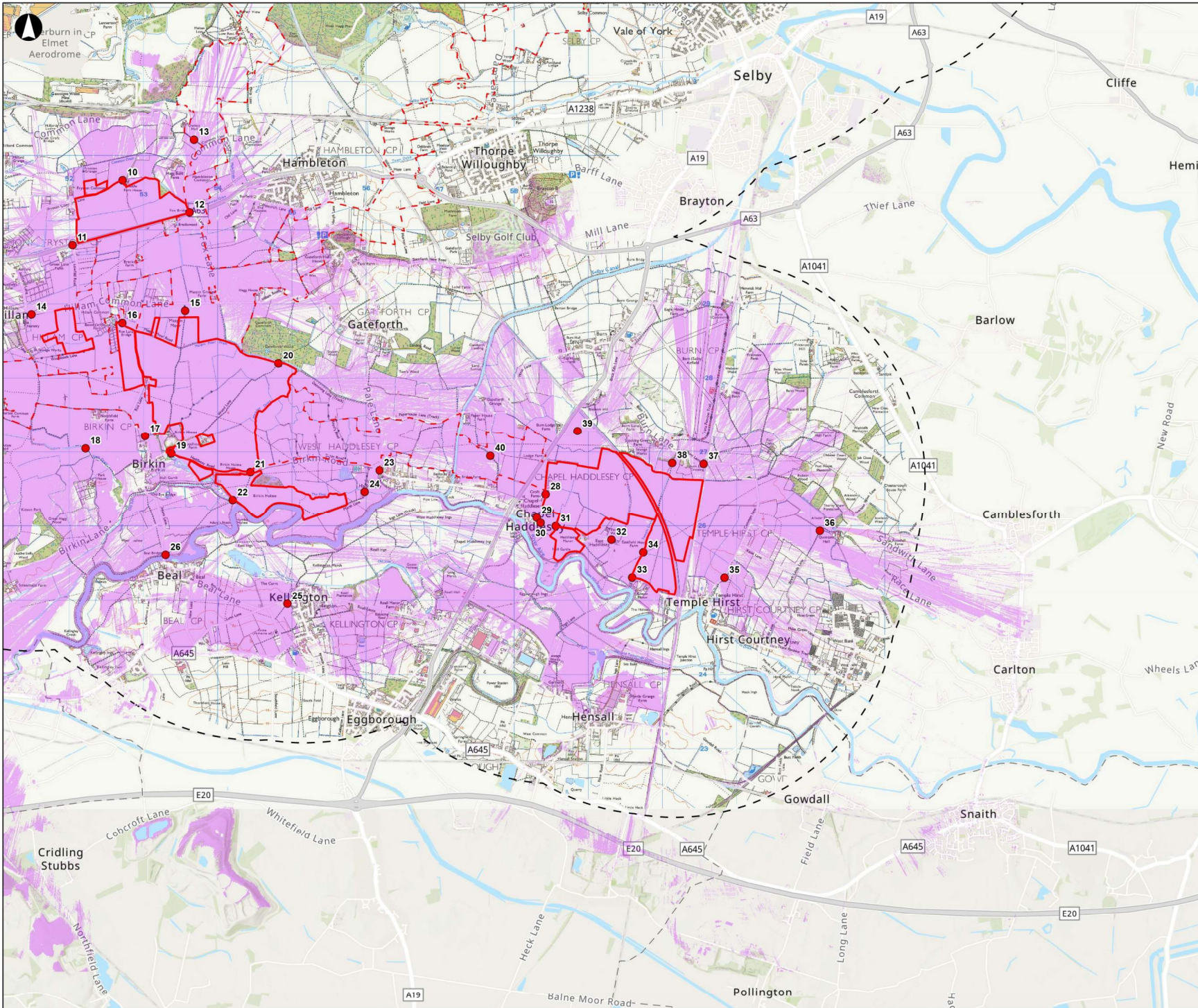


Drawing Title  
**Figure 14.4: Zone of Theoretical Visibility (ZTV) and Viewpoints Sheet 4 of 5**

Client  
**Light Valley Solar Limited**

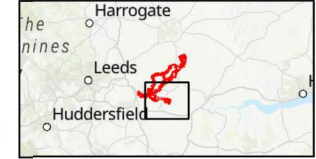
Project Name  
**Light Valley Solar**

Scale at A3	
<b>1:50,000</b>	
Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-222</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - 3km Buffer
  - Proposed Viewpoint
  - Zone of Theoretical Visibility (ZTV)

ZTVs have been modeled using the 'Viewshed' tool in ESRI ArcMap GIS Software which shows areas from which the Proposed Development is theoretically visible or not visible. The ZTV was prepared using digital terrain model (DSM) data with a resolution of 1m. The DSM includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface where the first or only return was the ground. It is based on maximum solar panel heights of 4.5m. For all of ZTVs an assumed viewing height of 1.7m above ground level has been used to simulate the eye level of a person at the top of the range set out in paragraph 6.11 of GLVIA3 to represent the worst-case scenario.



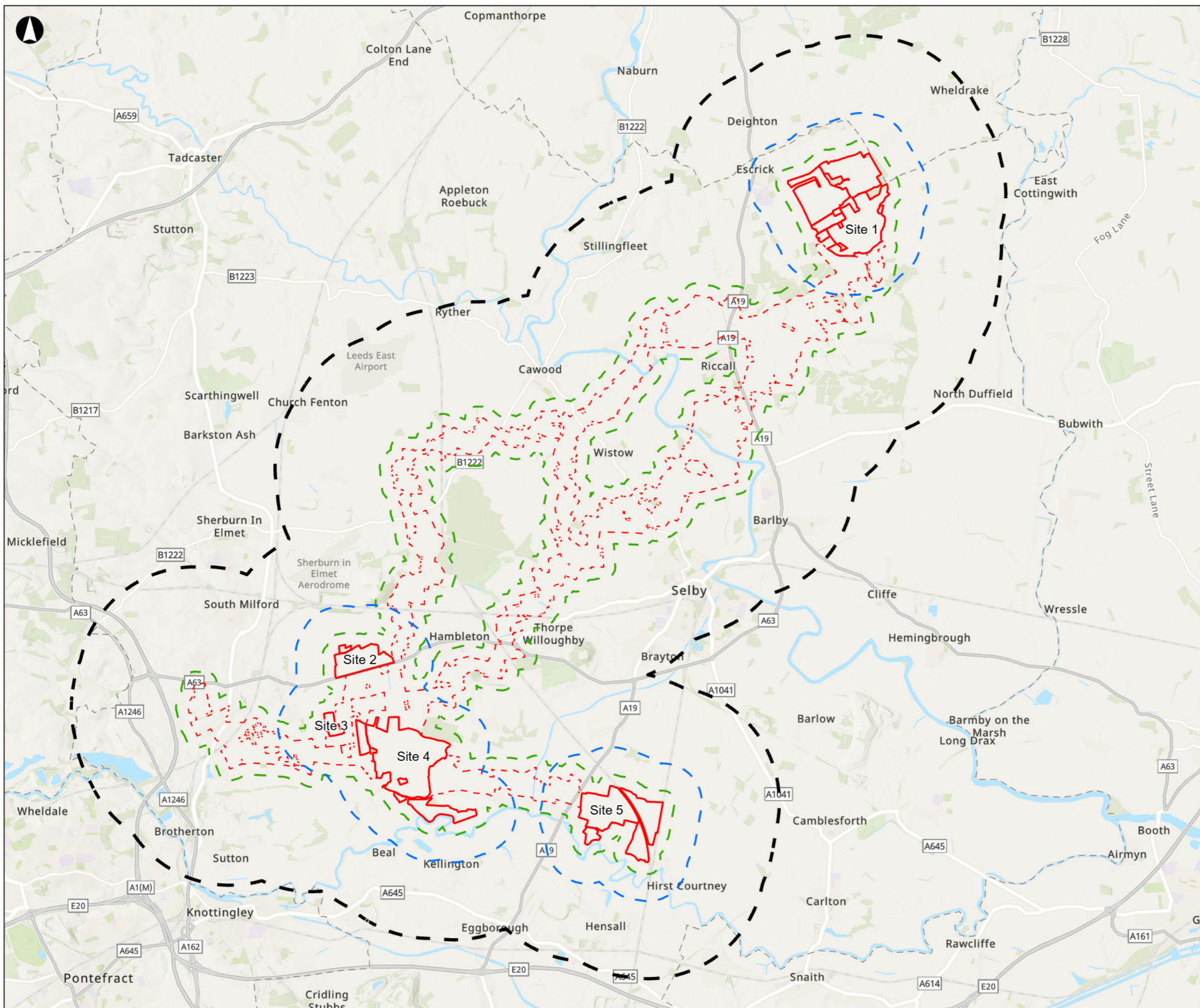
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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METINASA, USGS  
 World Hillshade: Esri, USGS  
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Rev	Date	By	Chkd	Appt	Authd

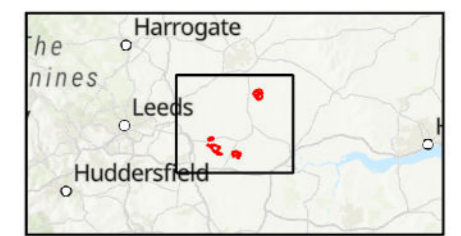


**Figure 14.4: Zone of Theoretical Visibility (ZTV) and Viewpoints Sheet 5 of 5**

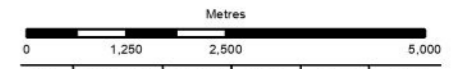
Client	
Light Valley Solar Limited	
Project Name	
Light Valley Solar	
Scale at A3	
1:50,000	
Project Number	Rev
302939-00	P01
Drawing Number	
LVS-302939-223	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (3km buffer)
  - Construction Noise Study Area
  - Operational Noise Study Area



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS  
 World Hillshade: Esri, CGIAR, USGS



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Rev	Date	By	Chkd	Appd	Authd



Drawing Title  
**Figure 16.1  
 Noise and Vibration Study Area  
 Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

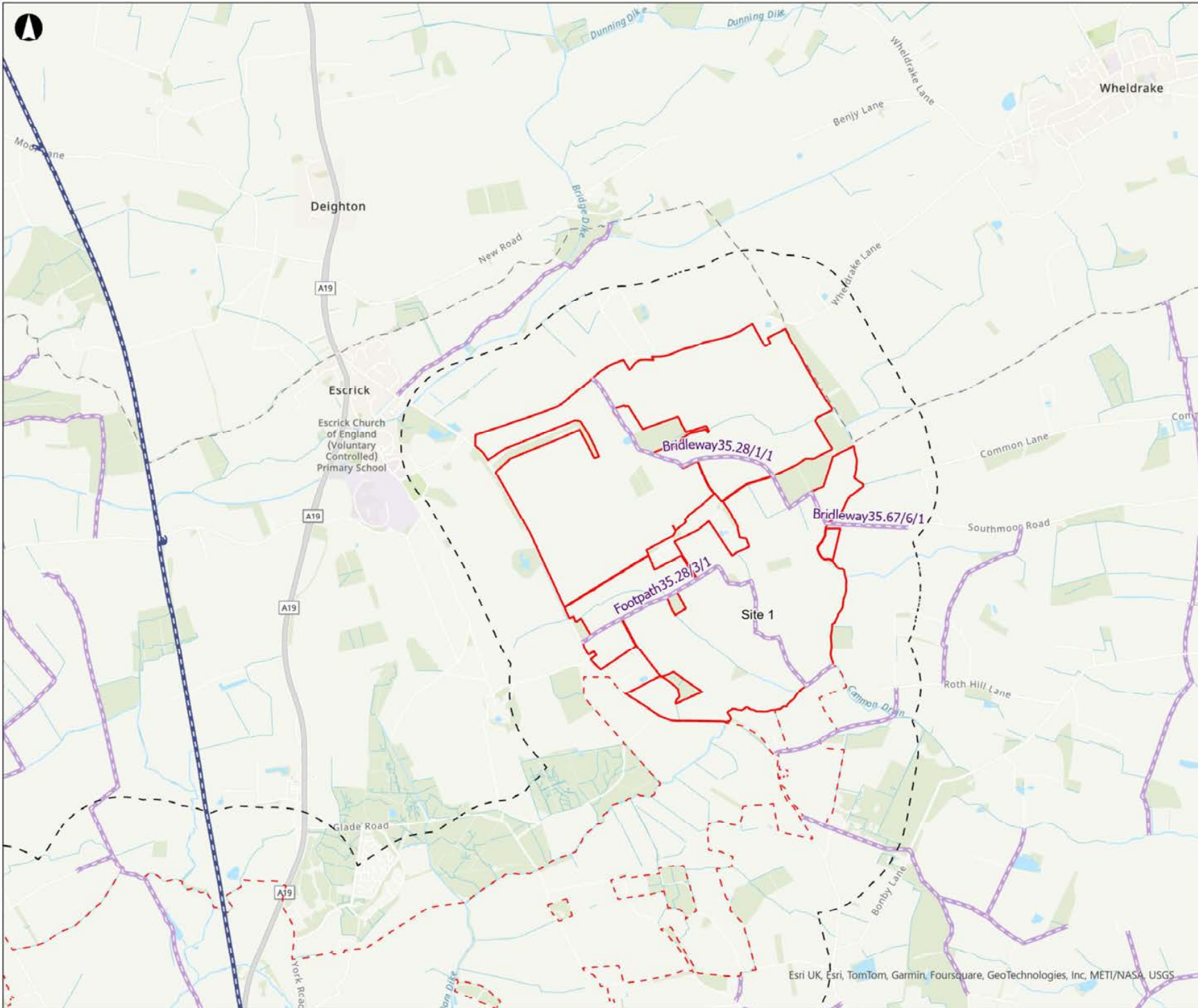
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Project Number  
**302939-00**

Rev  
**P01**

Drawing Number  
**LVS-302939-218**

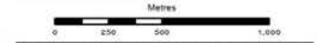


- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (500m)
  - National Cycle Network
  - Public Rights Of Way



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Rev	Date	By	Chkd	Appd	Authd

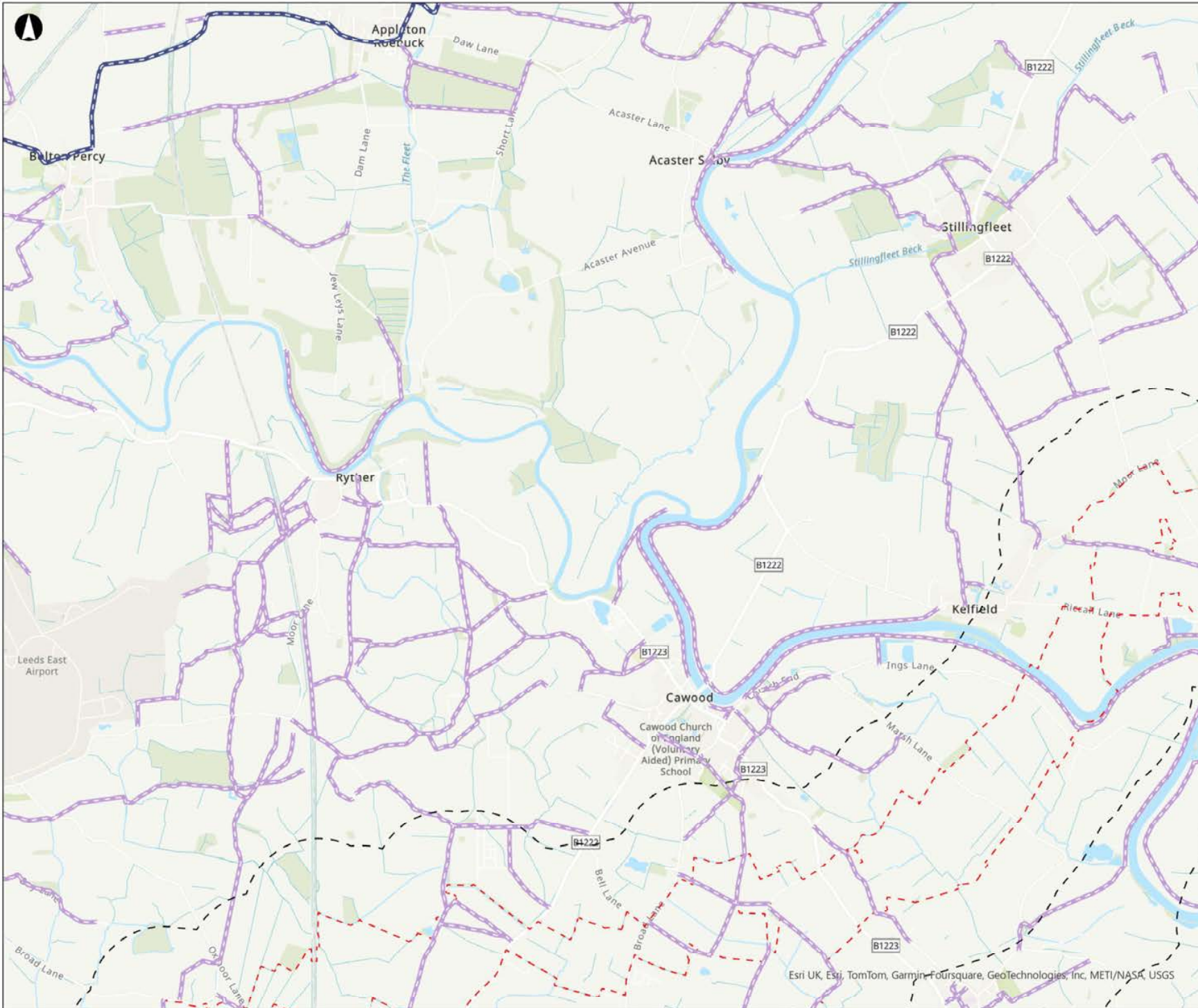


Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 1 of 7**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

Scale at A3 <b>1:25,000</b>	Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-211</b>		



- Draft Order Limits**
- - - Solar Development Sites
  - - - Cable Corridors Options Area
  - - - Study Area (500m)
  - National Cycle Network
  - - - Public Rights Of Way



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Metres					
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P01	23/10/2024	CMCK	ACAR	PBUR	JORA
Rev	Date	By	Chkd	Appl	Authd



Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 2 of 7**

Client  
**Light Valley Solar Limited**

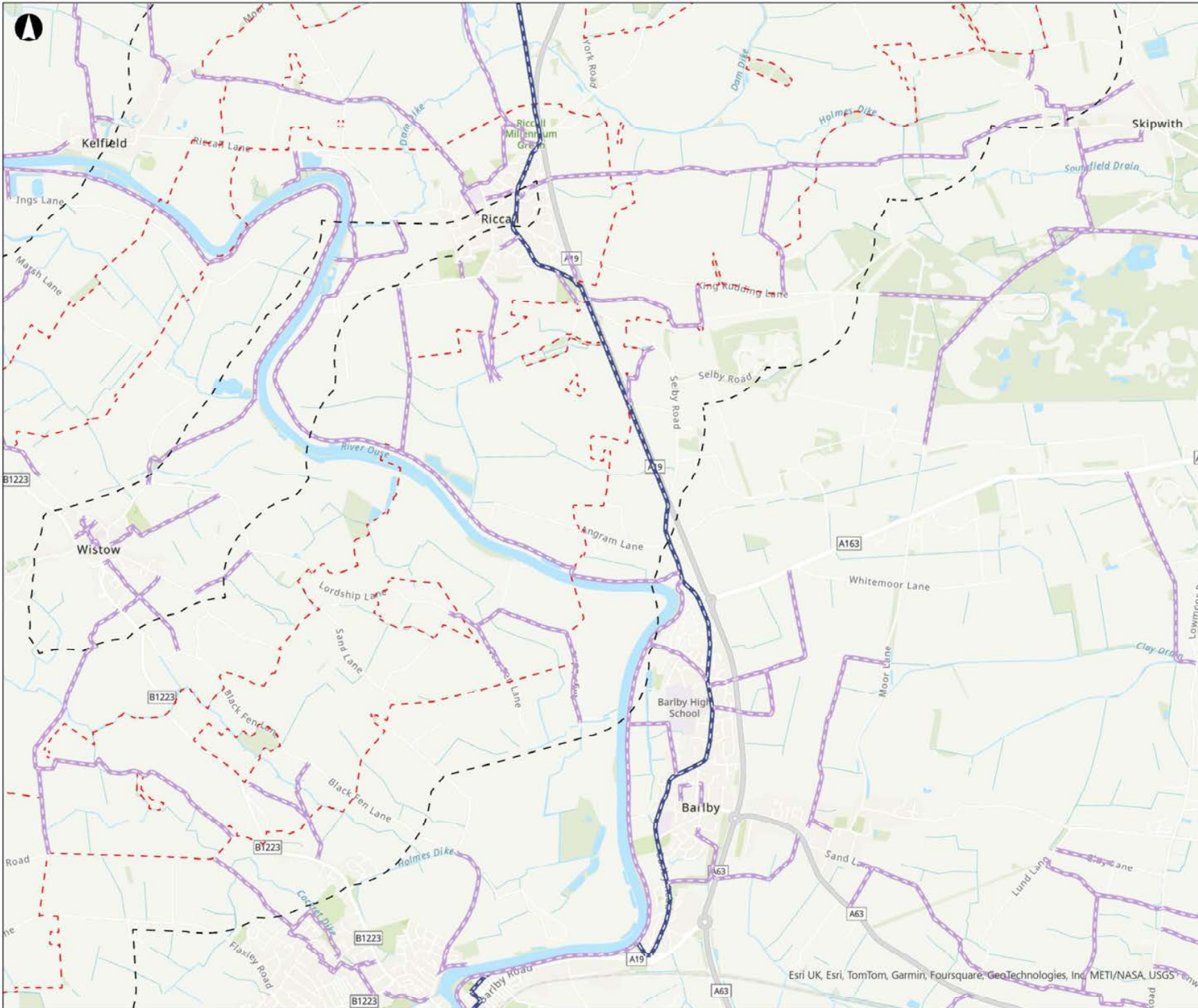
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-212**

Rev  
**P01**

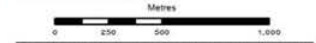


- Draft Order Limits**
- ▬▬▬ Solar Development Sites
  - - - - - Cable Corridors Options Area
  - - - - - Study Area (500m)
  - ▬▬▬ National Cycle Network
  - ▬▬▬ Public Rights Of Way



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Rev	Date	By	Chk	Appd	Authd



Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 3 of 7**

Client  
**Light Valley Solar Limited**

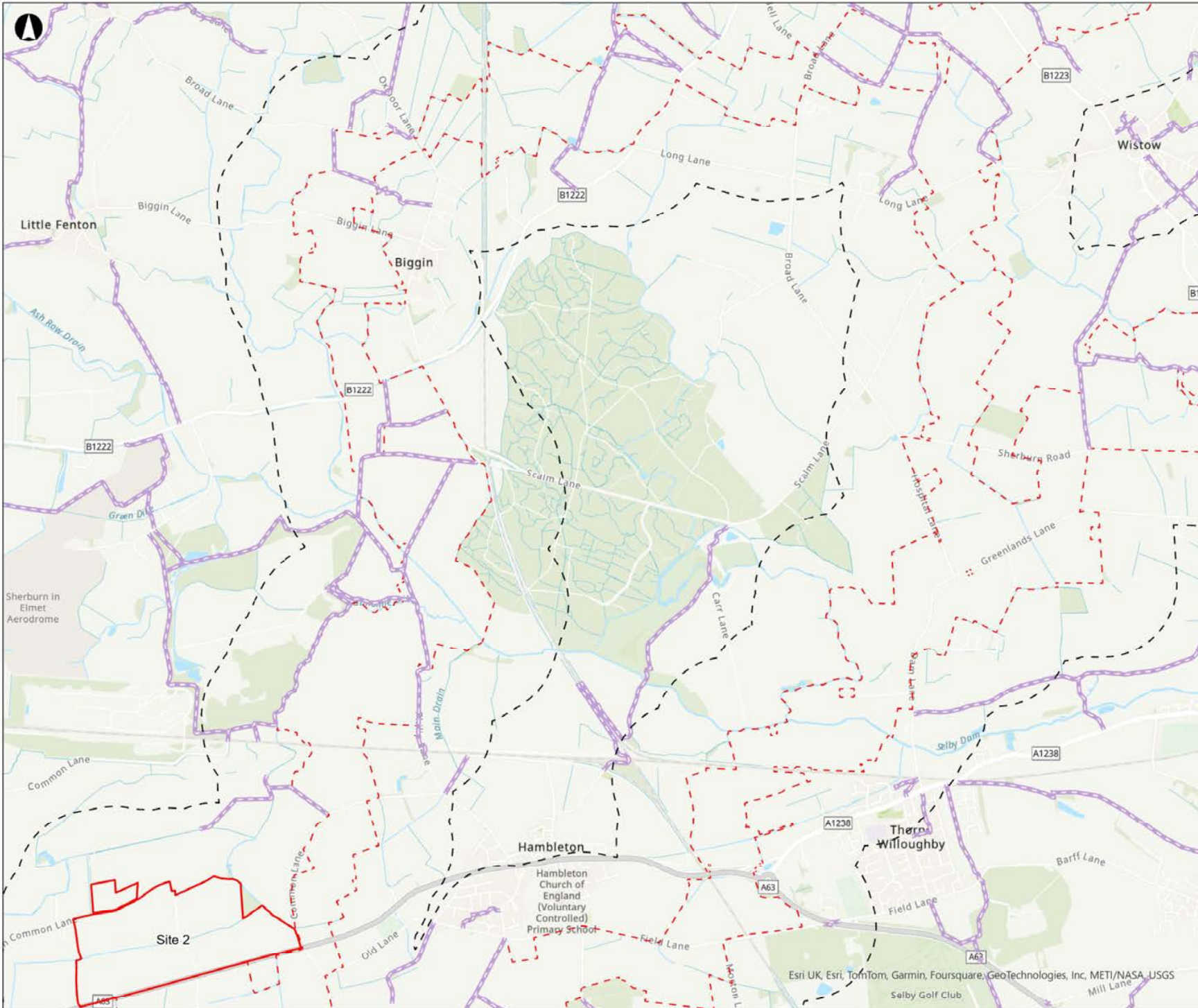
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Scale at A3  
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-213**

Rev  
**P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (500m)
  - National Cycle Network
  - Public Rights Of Way



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

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Rev	Date	By	Chkd
		Appl	Authd



Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 4 of 7**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

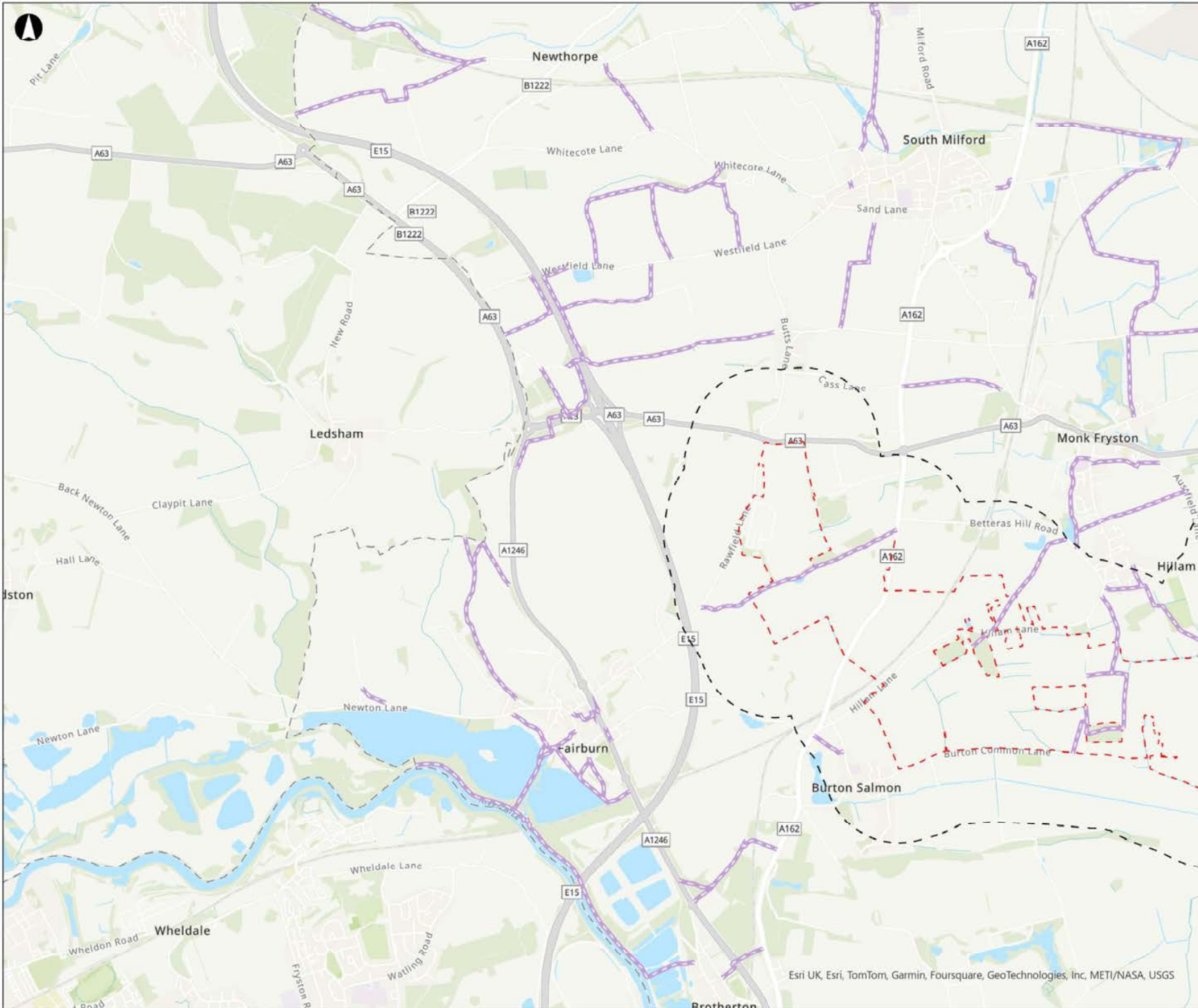
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-214**

Rev  
**P01**





- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (500m)
  - National Cycle Network
  - Public Rights Of Way



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

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Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 5 of 7**

Client  
**Light Valley Solar Limited**

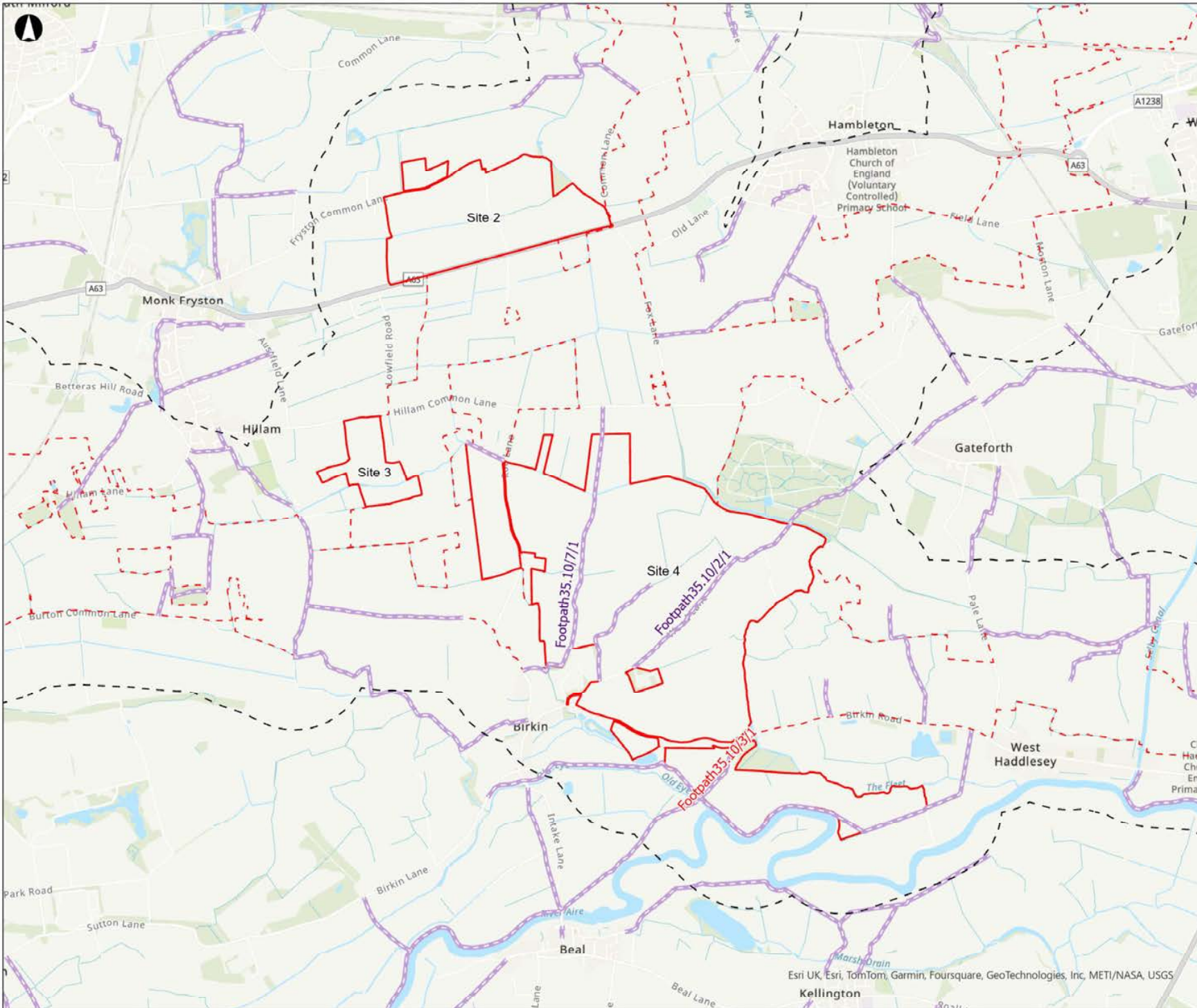
Project Name  
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Scale at A3  
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-215**

Rev  
**P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (500m)
  - National Cycle Network
  - Public Rights Of Way



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 6 of 7**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

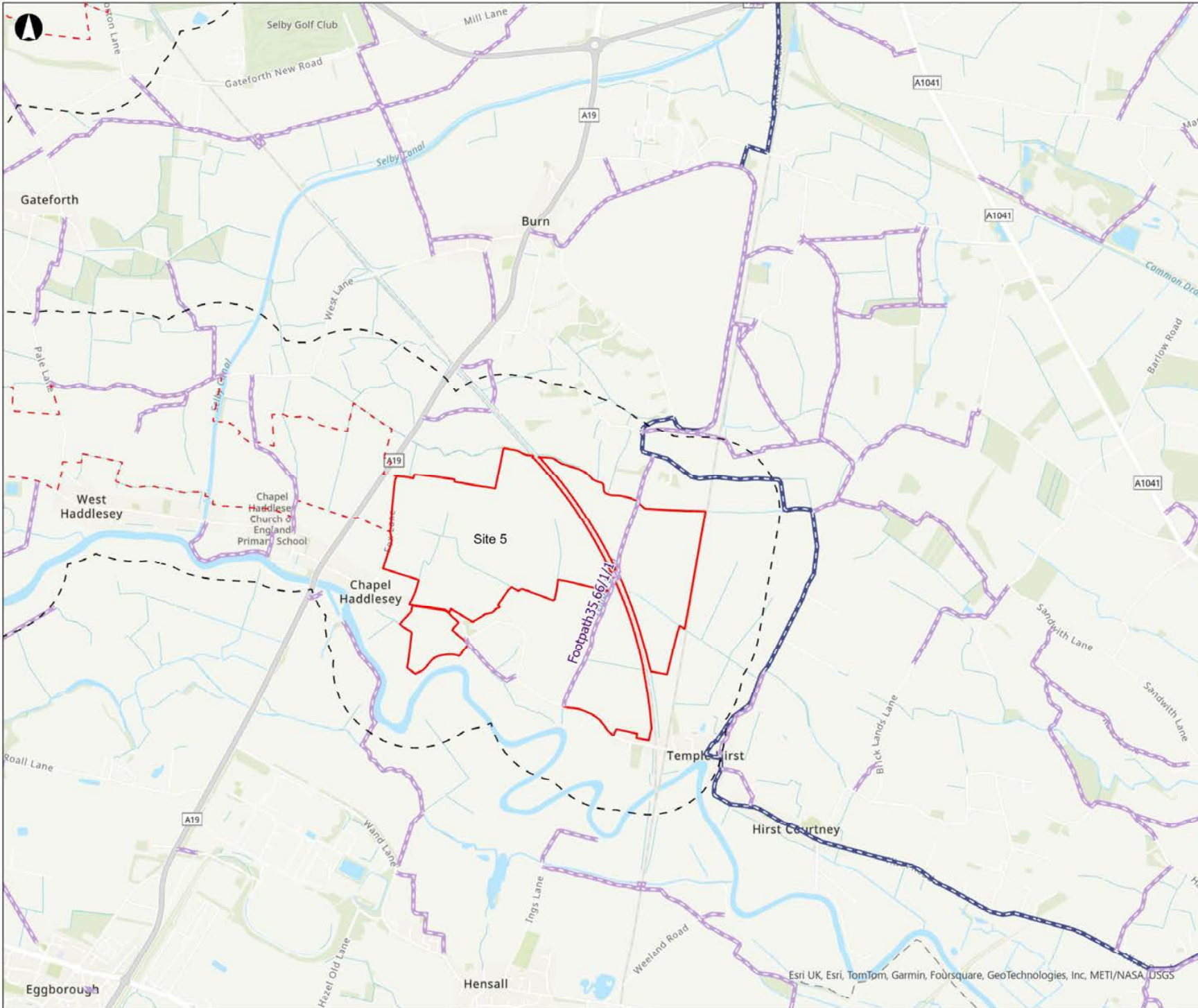
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Project Number  
**302939-00**

Rev  
**P01**

Drawing Number  
**LVS-302939-216**

Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (500m)
  - National Cycle Network
  - Public Rights Of Way



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Metres					
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P01	23/10/2024	CMCK	ACAR	PBUR	JORA
Rev	Date	By	Chkd	Appd	Authd



Drawing Title  
**Figure 17.1**  
**Public Rights of Way**  
**Sheet 7 of 7**

Client  
**Light Valley Solar Limited**

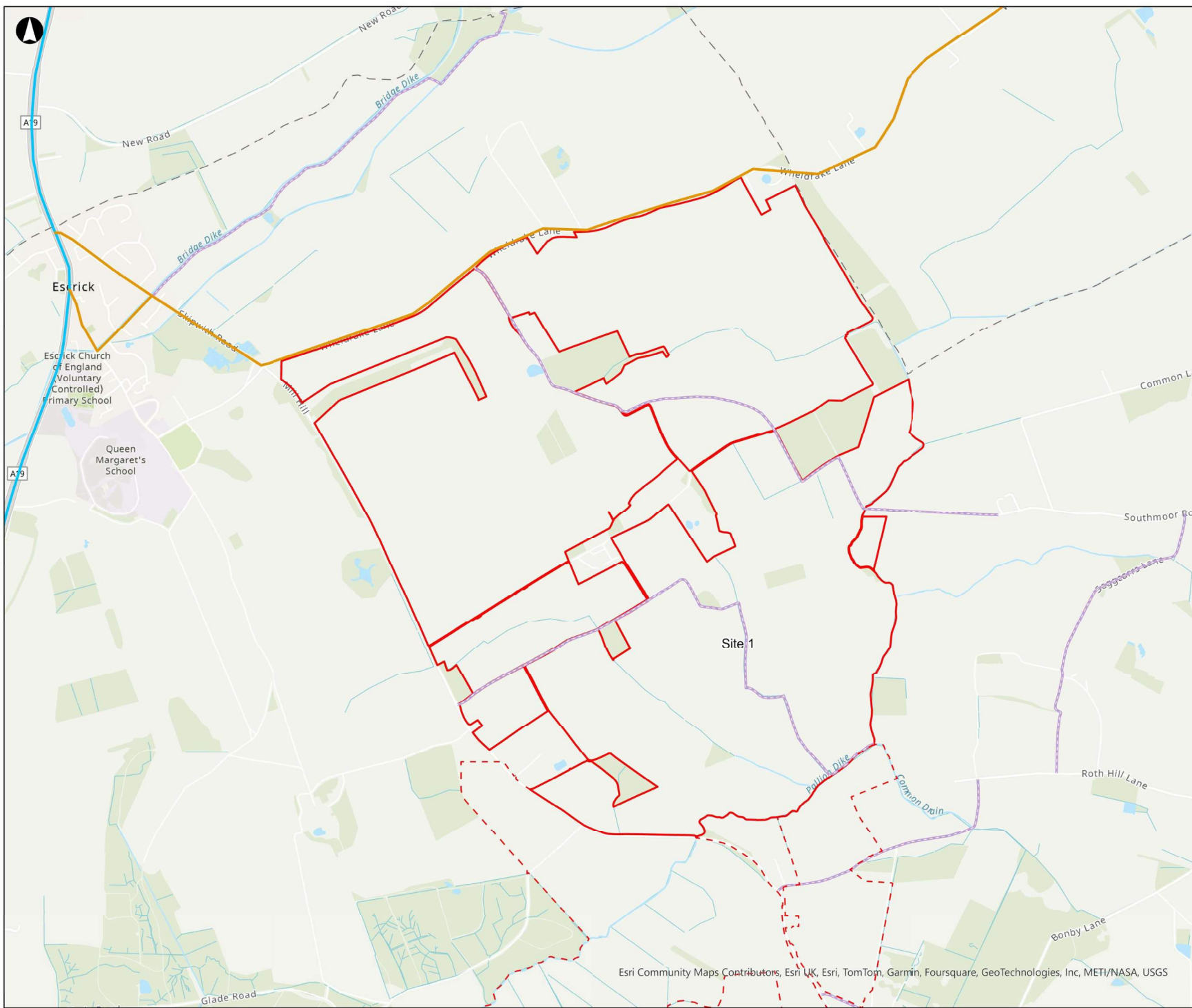
Project Name  
**Light Valley Solar**

Scale at A3  
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-217**

Rev  
**P01**



- Solar Development Sites
- Cable Corridors Options Area
- Public Rights of Way
- Strategic Road Network
- Railway Lines
- Traffic Count Roads
- National Cycle Network



Coordinate System: british national grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Drawing Title  
**Figure 18.1**  
**Traffic Count Routes**  
**Sheet 1 of 5**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

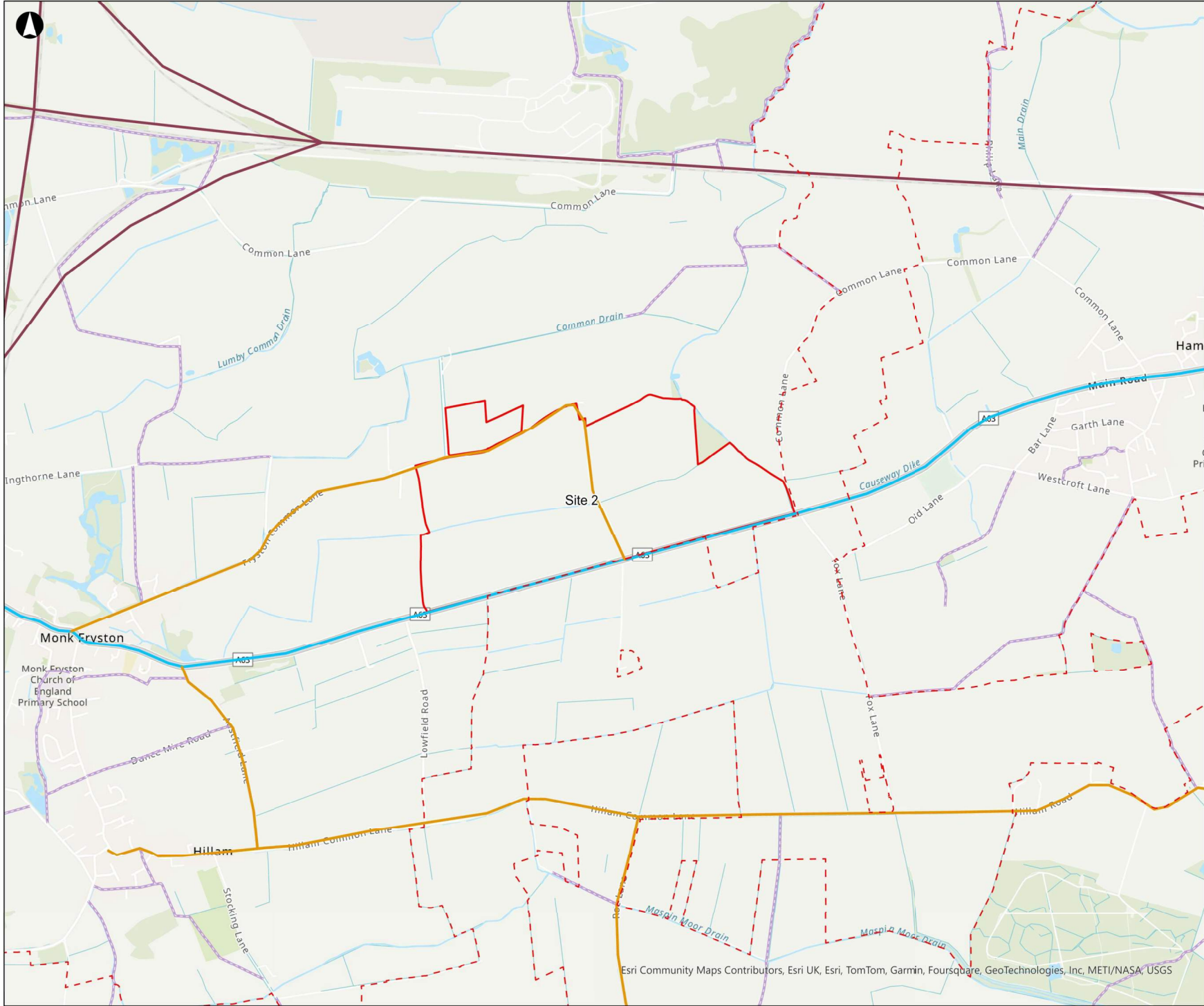
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Project Number  
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Rev  
**P01**

Drawing Number  
**LVS-302939-241**

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- Solar Development Sites
- Cable Corridors Options Area
- Public Rights of Way
- Strategic Road Network
- Railway Lines
- Traffic Count Roads
- National Cycle Network



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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P01	29/10/2024	CMCK	ACAR	PBUR	JGRA



Drawing Title  
**Figure 18.1**  
**Traffic Count Routes**  
 Sheet 2 of 5

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

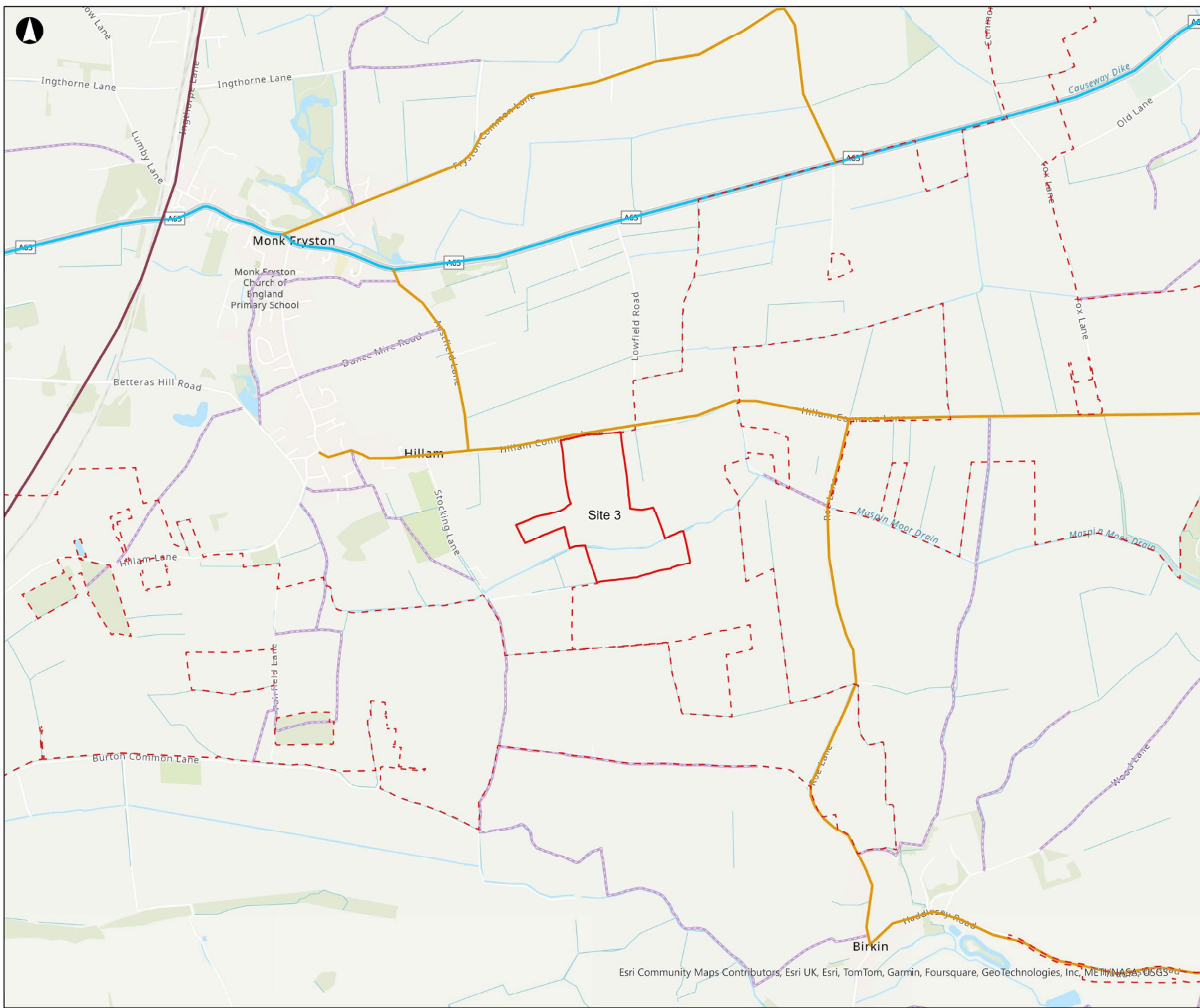
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Project Number  
**302939-00**

Drawing Number  
**LVS-302939-242**

Rev  
**P01**

Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



- Solar Development Sites
- Cable Corridors Options Area
- Public Rights of Way
- Strategic Road Network
- Railway Lines
- Traffic Count Roads
- National Cycle Network



Coordinate System: british national grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Rev	Date	By	Chkd	Appld	Authd



Drawing Title  
**Figure 18.1**  
**Traffic Count Routes**  
 Sheet 3 of 5

Client  
**Light Valley Solar Limited**

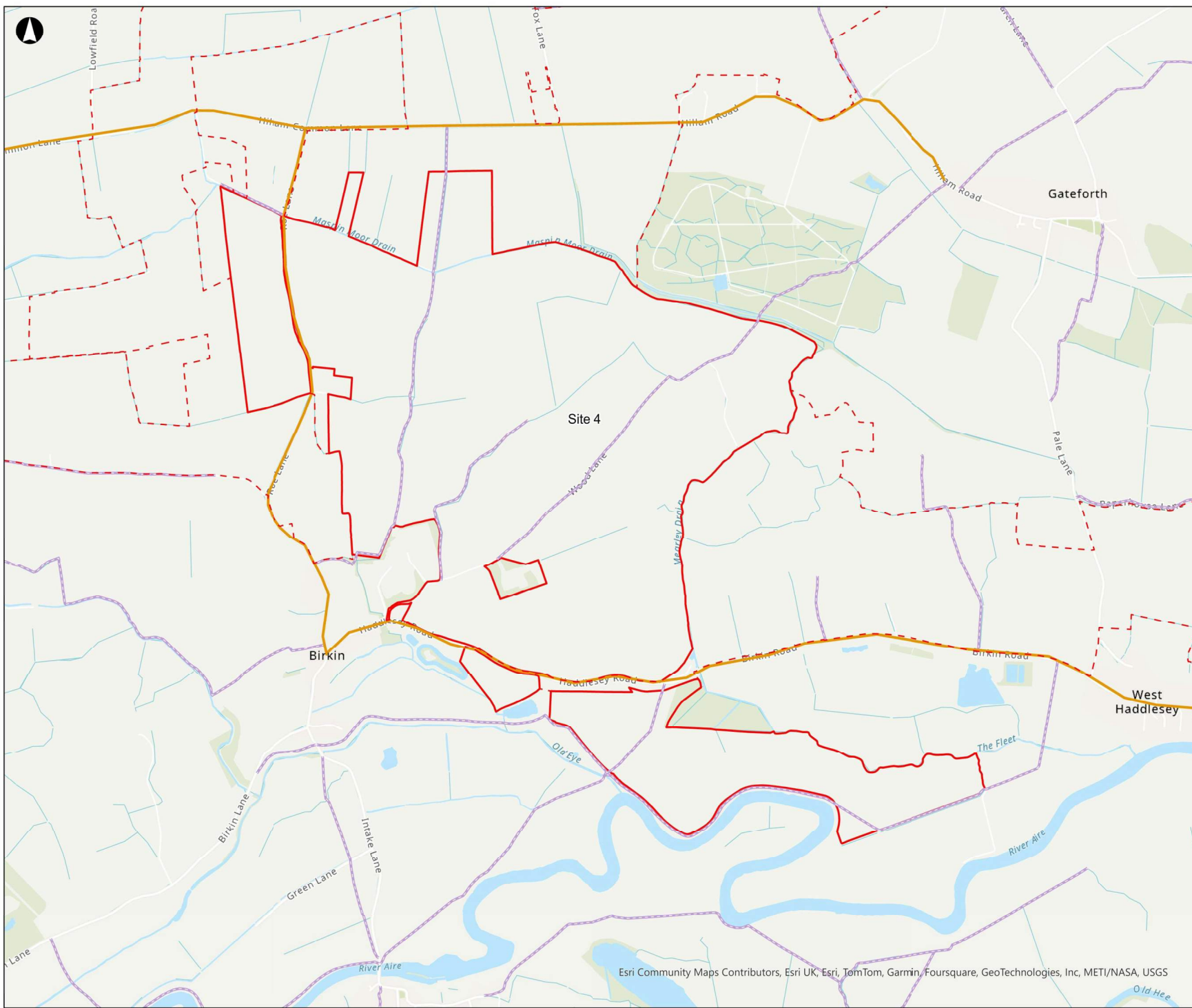
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Scale at A3  
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Project Number  
**302939-00**

Rev  
**P01**

Drawing Number  
**LVS-302939-243**



- Solar Development Sites
- Cable Corridors Options Area
- Public Rights of Way
- Strategic Road Network
- Railway Lines
- Traffic Count Roads
- National Cycle Network



Coordinate System: british national grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

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Rev	Date	By	Chkd	Appt	Authd

**ARUP**

Drawing Title  
**Figure 18.1**  
**Traffic Count Routes**  
**Sheet 4 of 5**

Client  
**Light Valley Solar Limited**

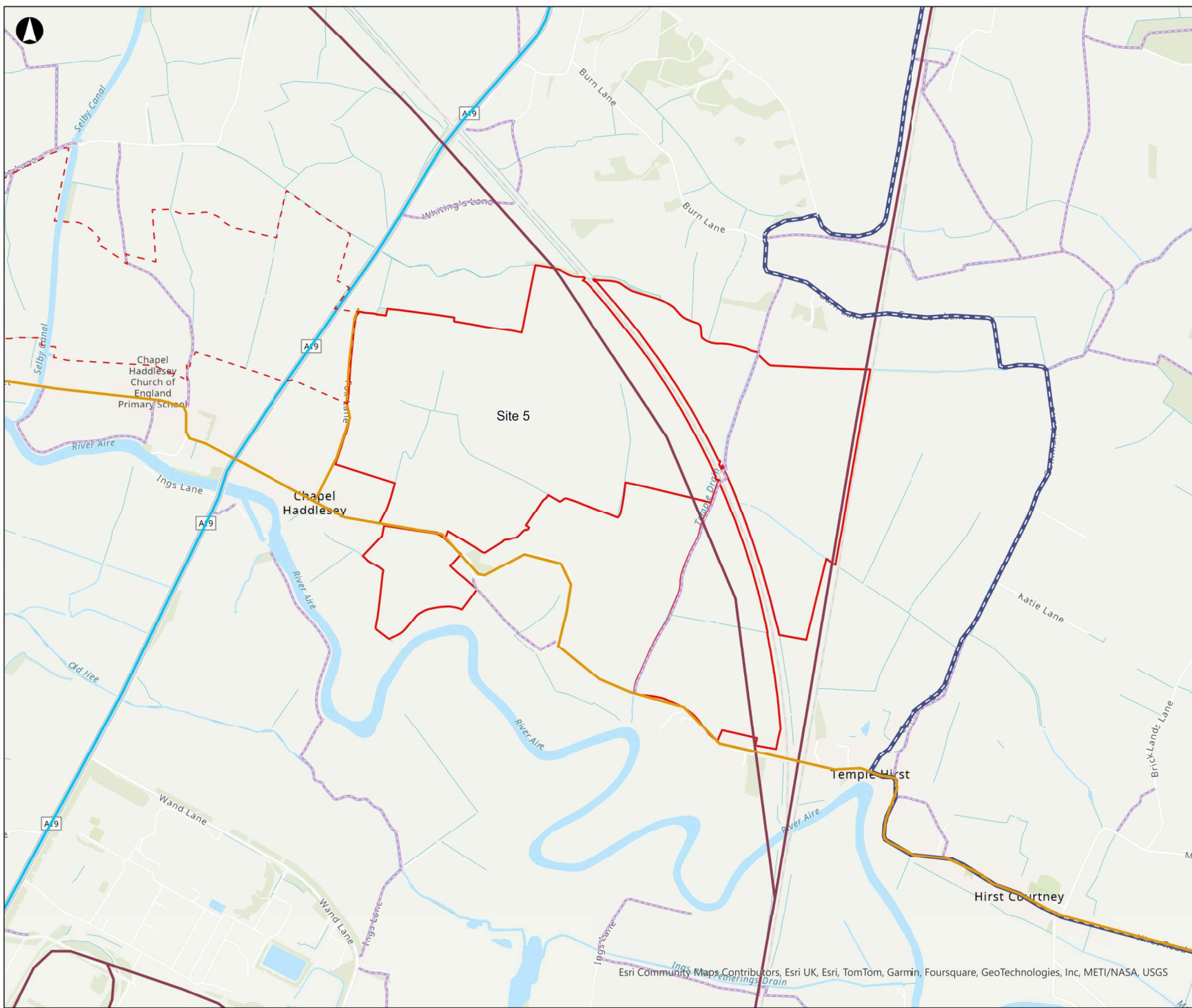
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Project Number  
**302939-00**

Rev  
**P01**

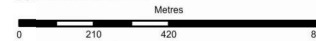
Drawing Number  
**LVS-302939-244**



- Solar Development Sites
- Cable Corridors Options Area
- Public Rights of Way
- Strategic Road Network
- Railway Lines
- Traffic Count Roads
- National Cycle Network



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Drawing Title  
**Figure 18.1**  
**Traffic Count Routes**  
**Sheet 5 of 5**

Client  
**Light Valley Solar Limited**

Project Name  
**Light Valley Solar**

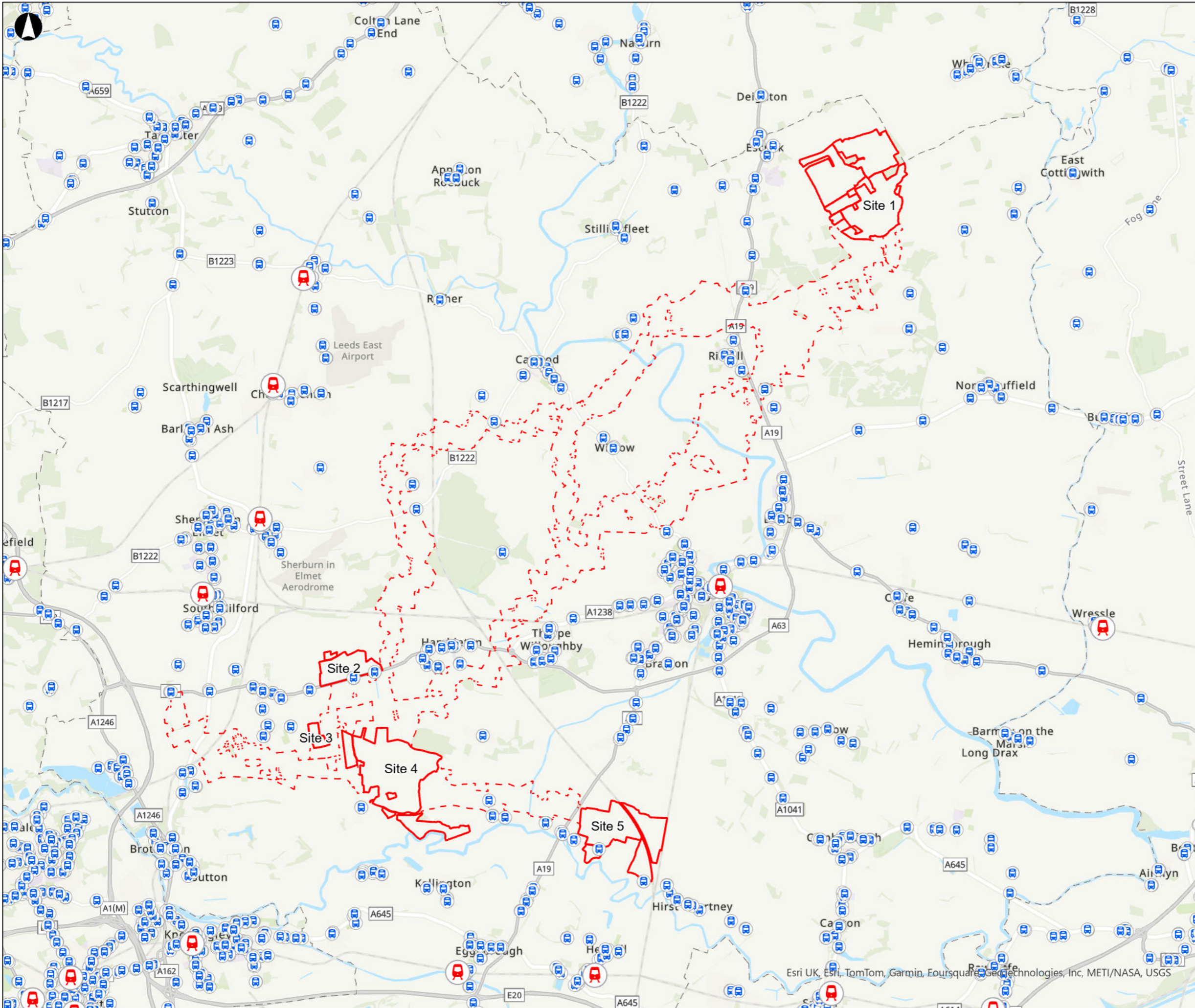
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Project Number  
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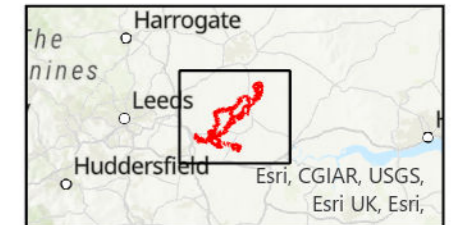
Drawing Number  
**LVS-302939-245**

Rev  
**P01**





- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - 🚂 Railway Stations
  - 🚌 Bus Stops



Coordinate System: British National Grid  
 World Topographic Map: Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI, NASA, USGS

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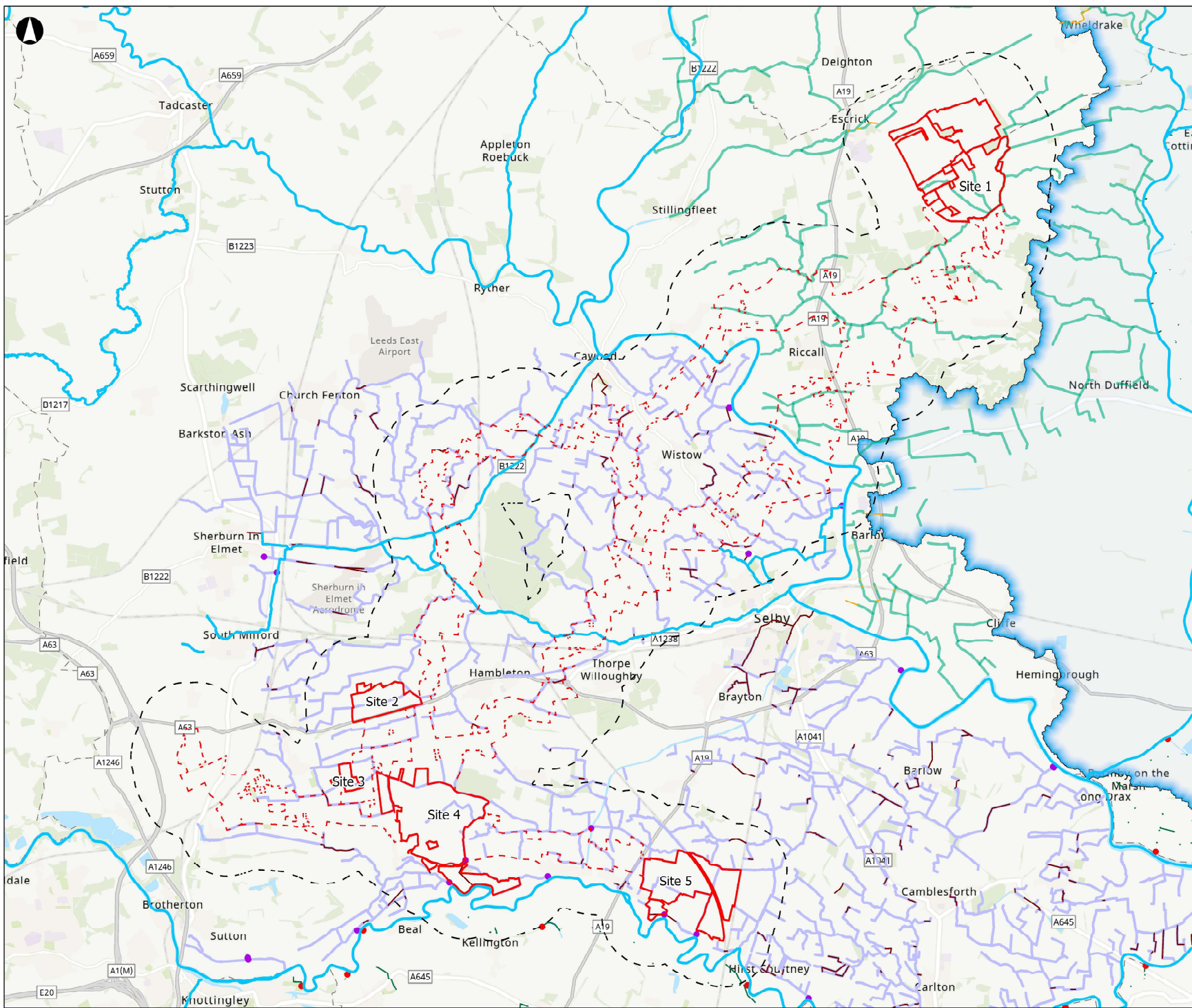
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**Bus and Rail Stations**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

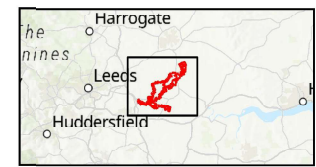
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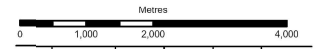
Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-236</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Pumping Stations (Selby)
  - Pumping Stations (Ouse Derwent)
  - Main Rivers
  - Watercourses (Selby)
  - Piped Watercourses (Selby)
  - Culverts (Ouse Derwent)
  - Drains (Ouse Derwent)
  - Culverts and Other (Ouse Derwent)
  - Drinking Water Safeguard Zones (Surface water)



Coordinate System: British National Grid  
 Work: Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 Work: Topographic Map: Esri UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, MET/NASA, USGS  
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**Figure 19.1**  
**Surface Water Features**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

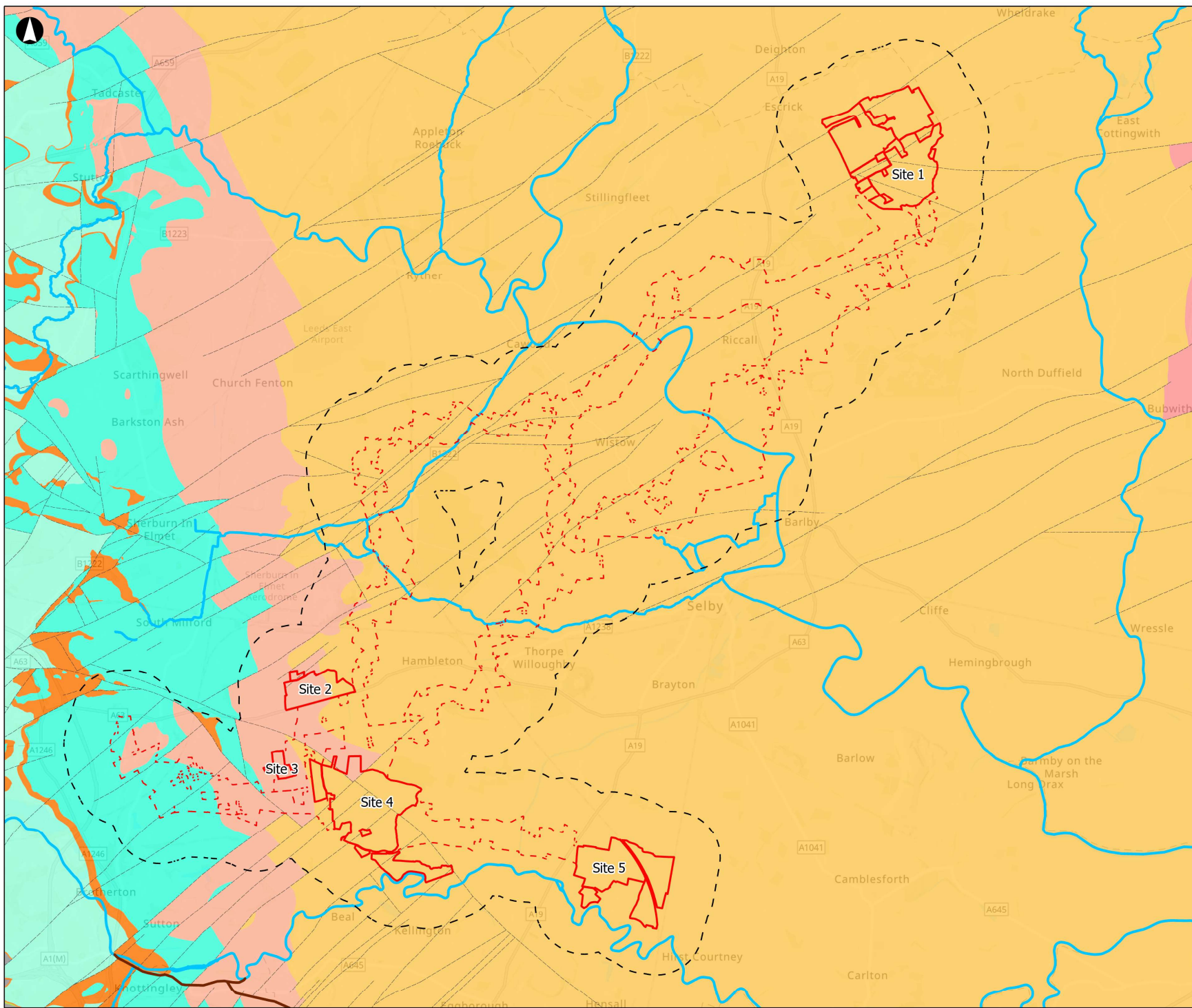
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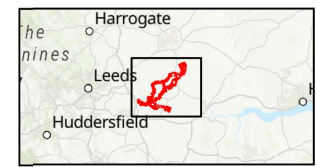
Project Number  
**302939-00**

Drawing Number  
**LVA-302939-206**

Rev  
**P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Canals
  - Main Rivers
  - British Geological Society - Linear Features
- British Geological Survey - Bedrock**
- Brotherton Formation - Limestone Dolomitic
  - Cadeby Formation - Dolostone
  - Edlington Formation - Mudstone, calcareous
  - Mercia Mudstone Group - Mudstone
  - Roxby Formation - Mudstone, Calcareous
  - Sharwood Sandstone Group - Sandstone



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 OGS 50000 scale digital geology  
 World Hillshade: Esri, Informa, NASA, NGA, USGS  
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Rev	Date	By	Chkd	Appd	Authd



**Figure 19.2**  
**Bedrock Geology**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

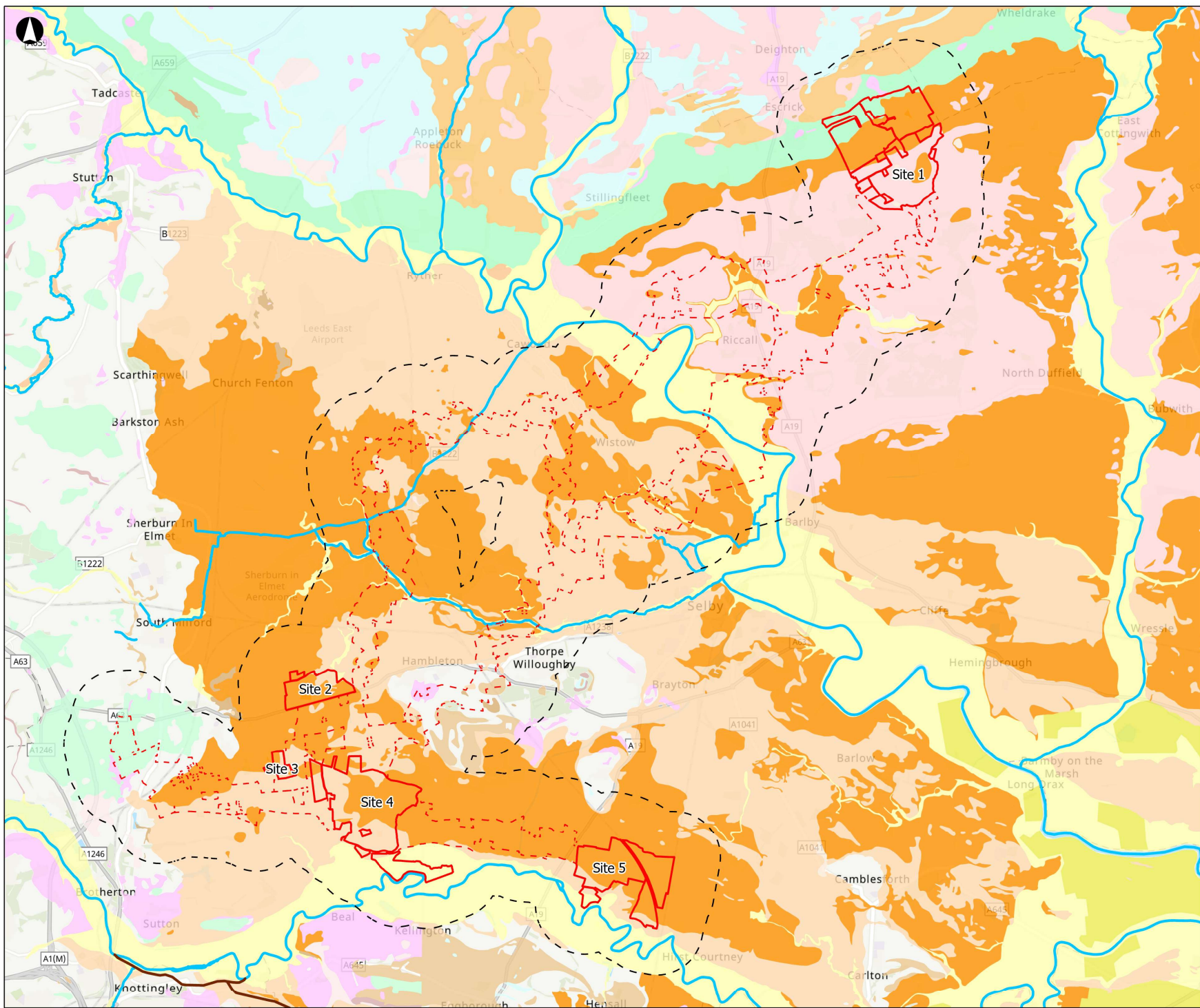
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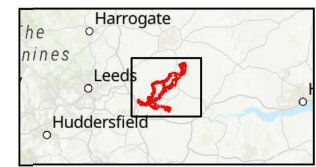
Project Number  
**302939-00**

Drawing Number  
**LVS-302939-210**

Rev  
**P01**



- Draft Order Limits**
- Solar Development Sites
  - Study Area (2km)
  - Cable Corridors Options Area
  - Canals
  - Main Rivers
- British Geological Society - Superficial**
- Alluvium - Clay, Silt, Sand and Gravel
  - Breighton Sand Formation - Sand
  - Elvington Glaciolacustrine Formation - Clay, silty
  - Escrick Moraine Member - Clay, Silty, Gravelly
  - Escrick Moraine Member - Clay, Silty, Gravelly
  - Glaciofluvial Deposits, Devensian - Sand and gravel
  - Harrogate Till Formation - Clay, silty, gravelly
  - Hemingbrough Glaciolacustrine Formation - Clay, Silty
  - Naburn Sand Member - Sand, silty, gravelly
  - Roxby Formation - Mudstone, Calcareous
  - Skipwith Sand Member - Sand, clayey, gravelly
  - Sutton Sand Formation - Sand
  - Thorganby Clay Member - Clay, Silty
  - Vale Of York Formation - Clay, silty, gravelly



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, TomTom, Garmin, FAO, NOAA, USGS  
 BGS 50000 scale digital geology  
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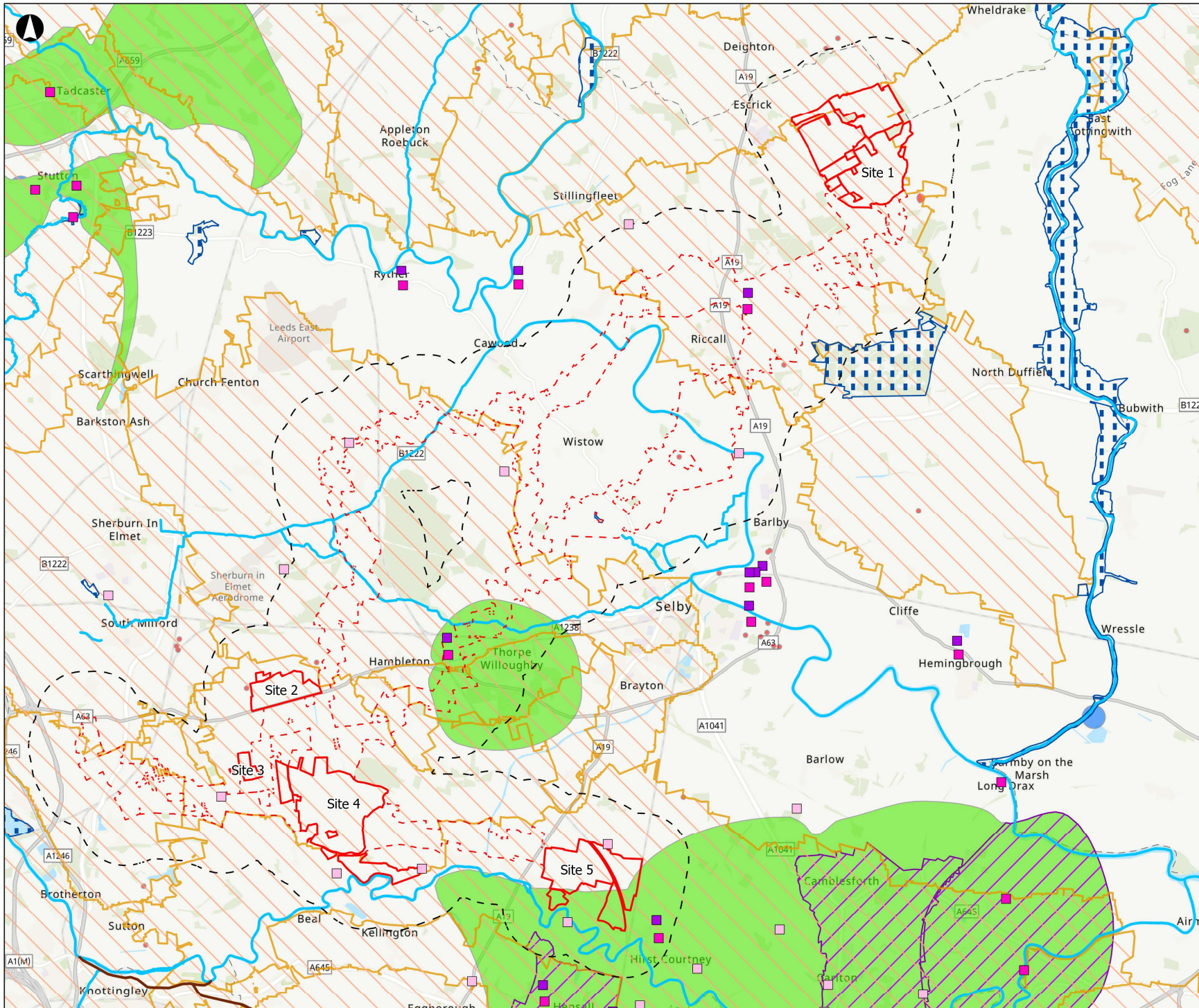
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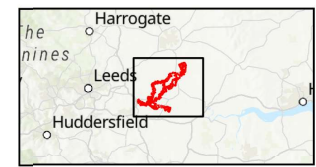


**Figure 19.3  
 Superficial Geology  
 Sheet 1 of 1**

Client	
<b>Light Valley Solar Limited</b>	
Project Name	
<b>Light Valley Solar</b>	
Scale at A3	
<b>1:80,000</b>	
Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-224</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
- Groundwater Monitoring Stations (Indicative)**
- Groundwater Level
  - Groundwater Level (Dipped Only)
  - Groundwater Quality
  - Main Rivers
  - Groundwater Dependent Terrestrial Ecosystems
  - Nitrate Vulnerable Zones
  - Drinking Water Safeguard Zones (groundwater)
  - Source Protection Zone 1
  - Source Protection Zone 2
  - Source Protection Zone 3



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 Ward Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
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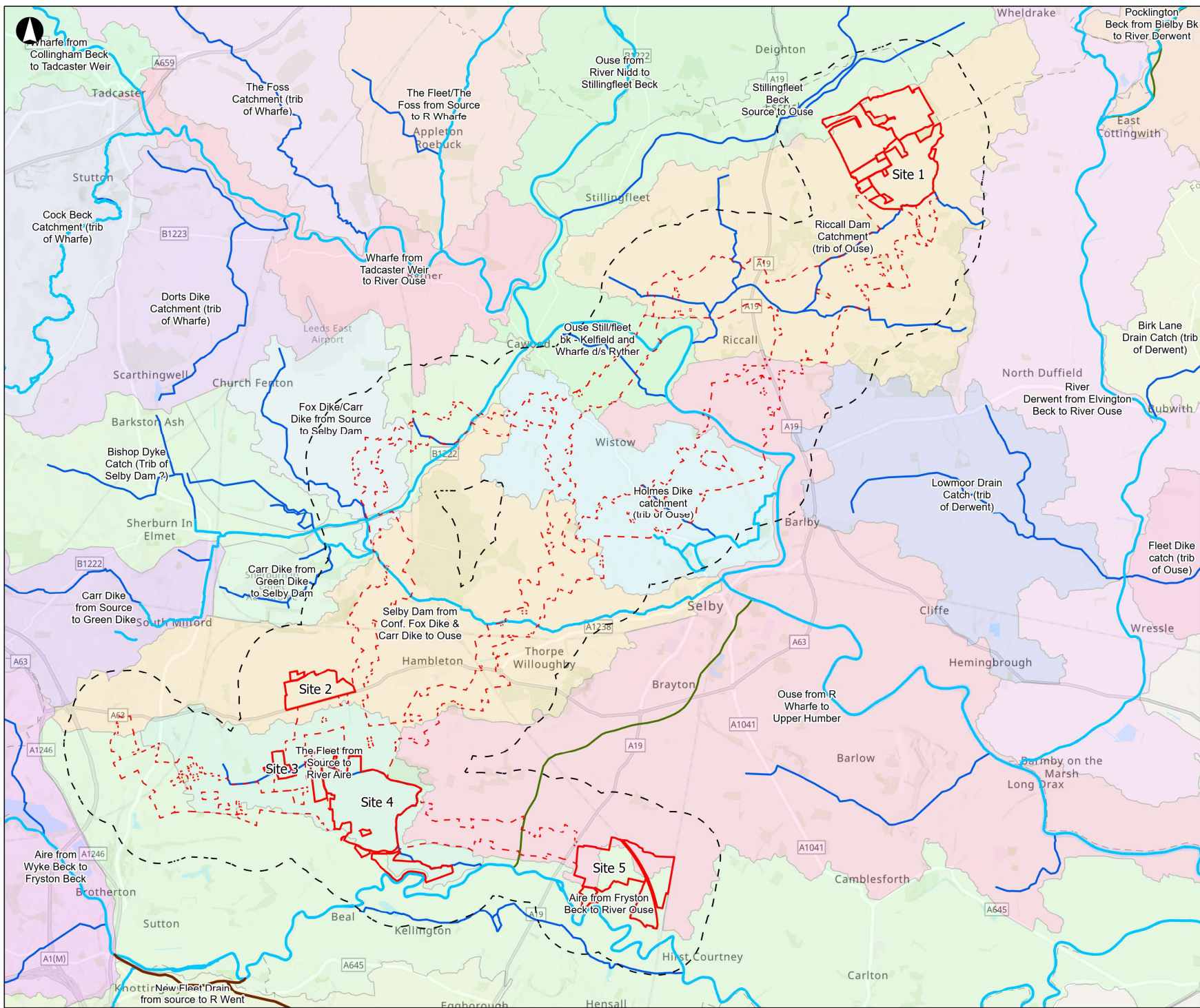
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**Figure 19.4**  
**Groundwater Designations**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

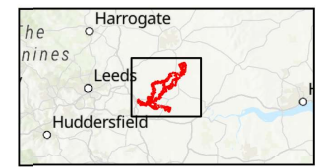
Project Name  
**Light Valley Solar**

Scale at A3  
**1:80,000**

Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-231</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Canals
  - Main Rivers
  - WFD River Water Bodies Cycle 3
  - WFD Canal Water Bodies Cycle 3
- WFD River Water Body Catchments Cycle 3**
- Aire from Fryston Beck to River Ouse
  - Aire from Wyke Beck to Fryston Beck
  - Birk Lane Drain Catch (trib of Derwent)
  - Bishop Dyke Catch (Trib of Selby Dam ?)
  - Carr Dike from Green Dike to Selby Dam
  - Carr Dike from Source to Green Dike
  - Cock Beck Catchment (trib of Wharfe)
  - Dorts Dike Catchment (trib of Wharfe)
  - Fleet Dike catch (trib of Ouse)
  - Fox Dike/Carr Dike from Source to Selby Dam
  - Holmes Dike catchment (trib of Ouse)
  - Lowmoor Drain Catch (trib of Derwent)
  - New Fleet Drain from source to R Went
  - Ouse Stillfleet bk - Kelfield and Wharfe d/s Ryther
  - Ouse from R Wharfe to Upper Humber
  - Ouse from River Nidd to Stillingfleet Beck
  - Pocklington Beck from Bleyby Bk to River Derwent
  - Riccall Dam Catchment (trib of Ouse)
  - River Derwent from Elvington Beck to River Ouse
  - Selby Dam from Conf. Fox Dike & Carr Dike to Ouse
  - Stillingfleet Beck Source to Ouse
  - The Fleet from Source to River Aire
  - The Fleet/The Foss from Source to R Wharfe
  - The Foss Catchment (trib of Wharfe)
  - Wharfe from Collingham Beck to Tadcaster Weir
  - Wharfe from Tadcaster Weir to River Ouse



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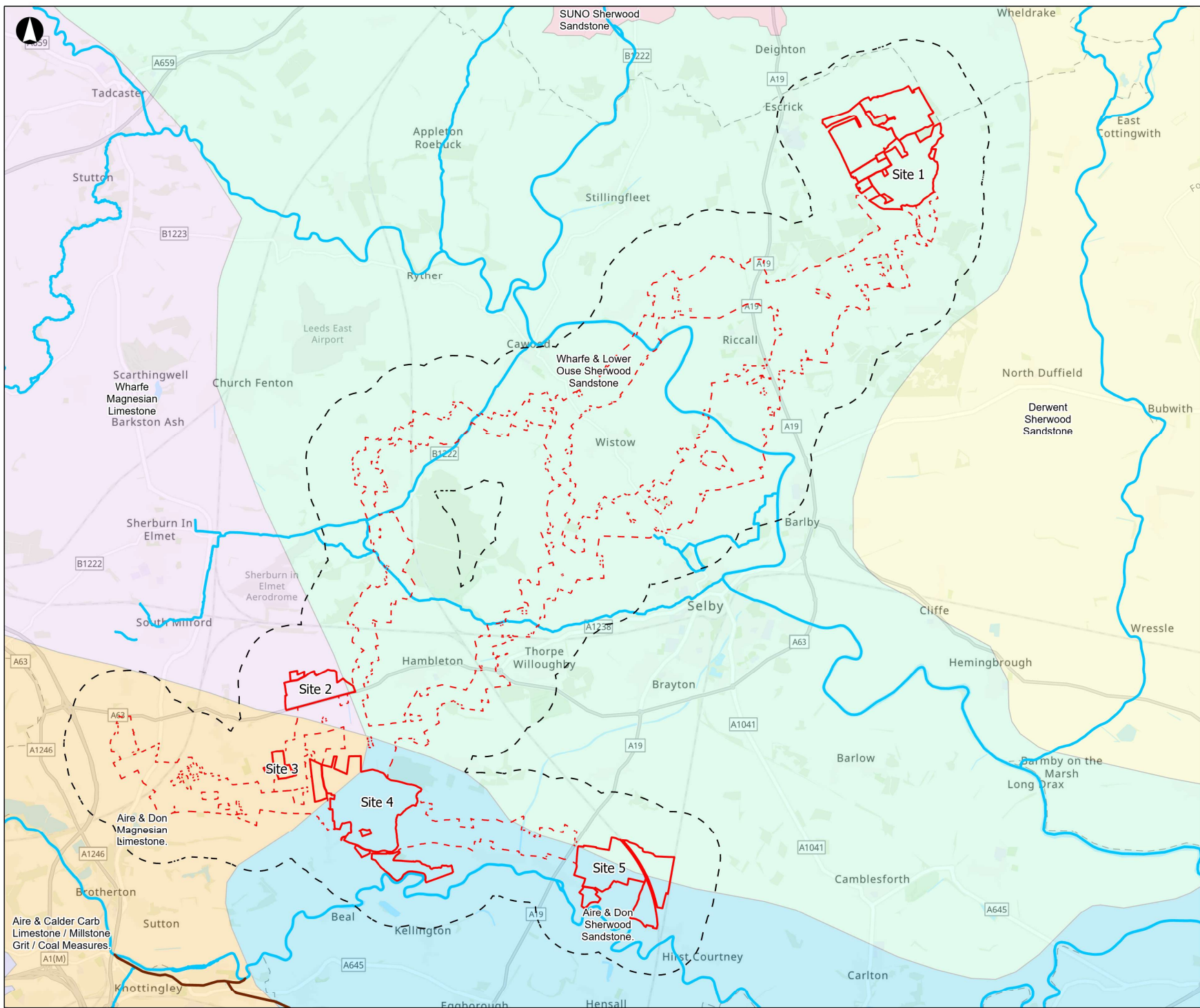
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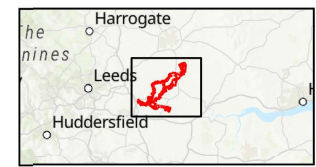


Drawing Title  
**Figure 19.5**  
**WER Surface Water Bodies**  
**Sheet 1 of 1**

Client	<b>Light Valley Solar Limited</b>
Project Name	<b>Light Valley Solar</b>
Scale at A3	<b>1:80,000</b>
Project Number	<b>302939-00</b>
Drawing Number	<b>LVS-302939-232</b>
Rev	<b>P01</b>



- Draft Order Limits**
- ▬ Solar Development Sites
  - - - Cable Corridors Options Area
  - Study Area (2km)
  - Canals
  - Main Rivers
- WFD Groundwater Bodies Cycle 3**
- Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.
  - Aire & Don Magnesian Limestone.
  - Aire & Don Sherwood Sandstone.
  - Derwent Sherwood Sandstone
  - SUNO Sherwood Sandstone
  - Wharfe & Lower Ouse Sherwood Sandstone
  - Wharfe Magnesian Limestone



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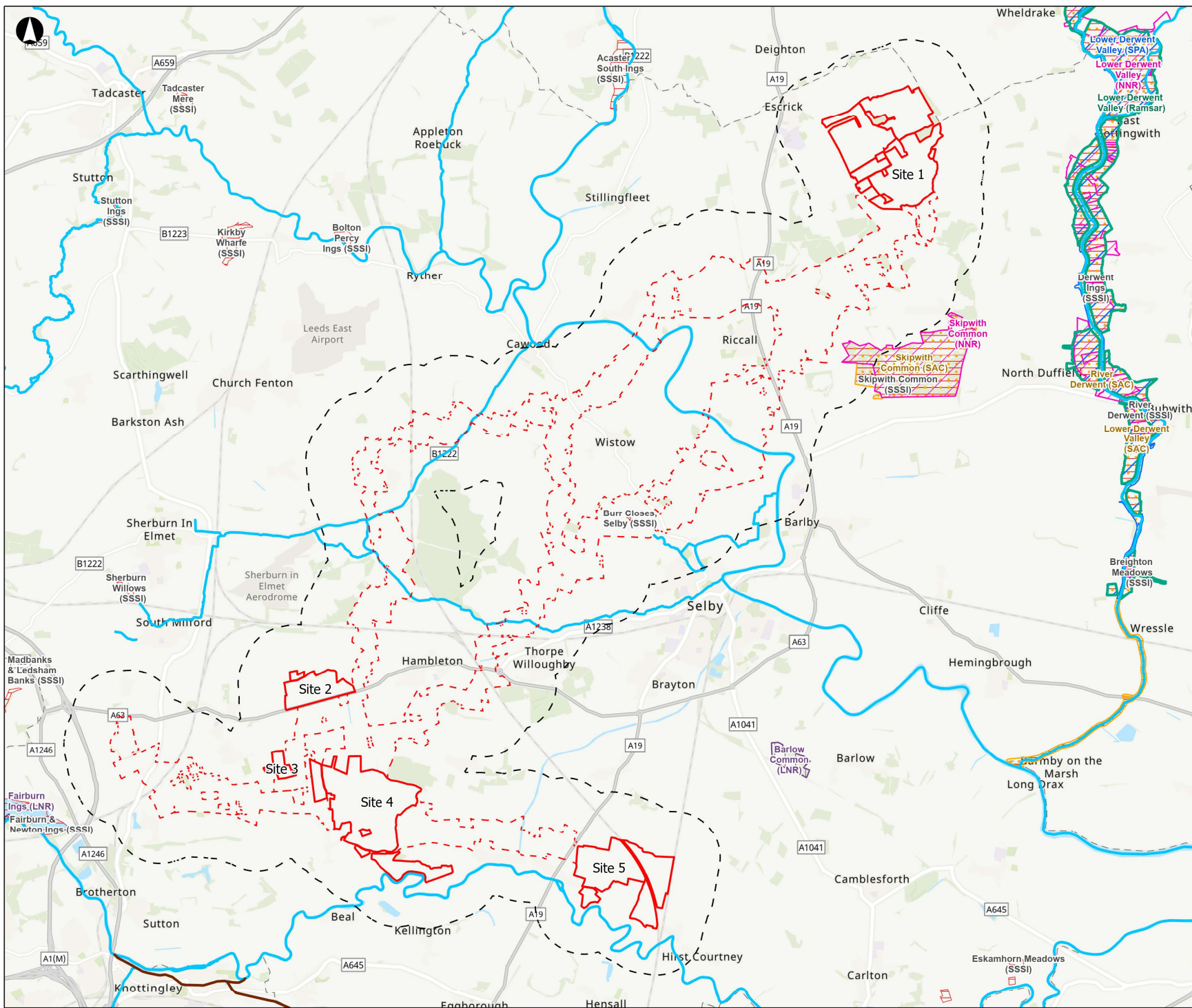
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**WHER Groundwater Bodies**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

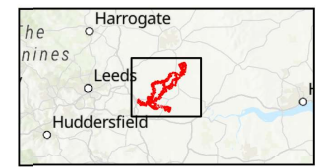
Project Name  
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Scale at A3  
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Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-233</b>	



- Solar Development Sites
- Study Corridor Options Area
- Study Area (2km)
- Canals
- Main Rivers
- Ramsar
- Special Protection Areas
- Special Conservation Area
- SSSI
- National Nature Reserves
- Local Nature Reserves



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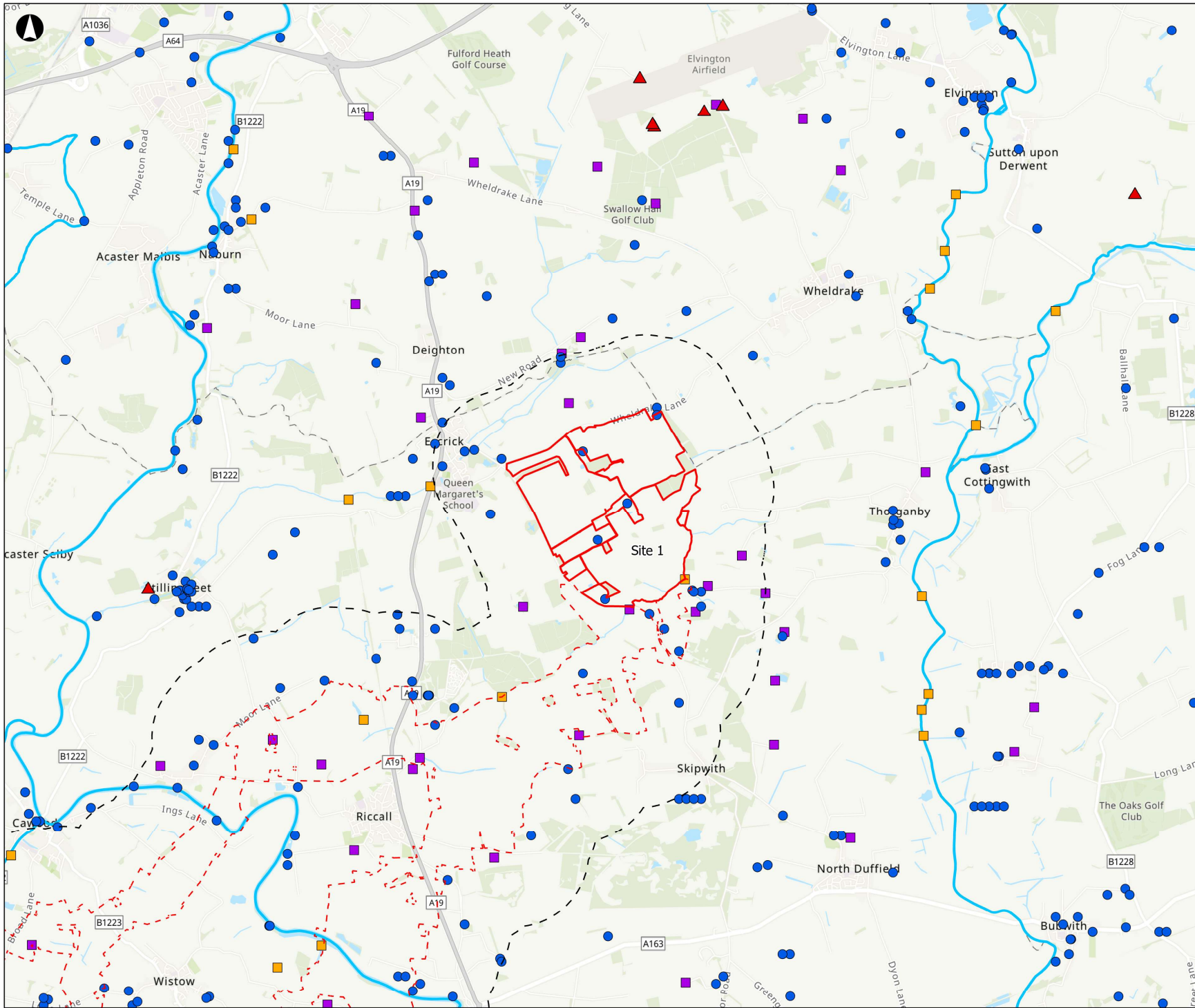
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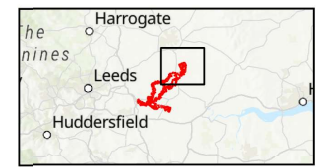
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 Environmental Designations  
 Sheet 1 of 1**

Client	
<b>Light Valley Solar Limited</b>	
Project Name	
<b>Light Valley Solar</b>	
Scale at A3	
<b>1:80,000</b>	
Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-234</b>	





- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - ▲ Private Water Supplies
  - Licenced Water Discharges
- Licenced Water Abstractions**
- Groundwater
  - Surface Water
  - Main Rivers



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Drawing Title  
**Figure 19.8**  
**Abstractions and Discharges**  
**Sheet 1 of 4**

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Client  
**Light Valley Solar Limited**

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Project Name  
**Light Valley Solar**

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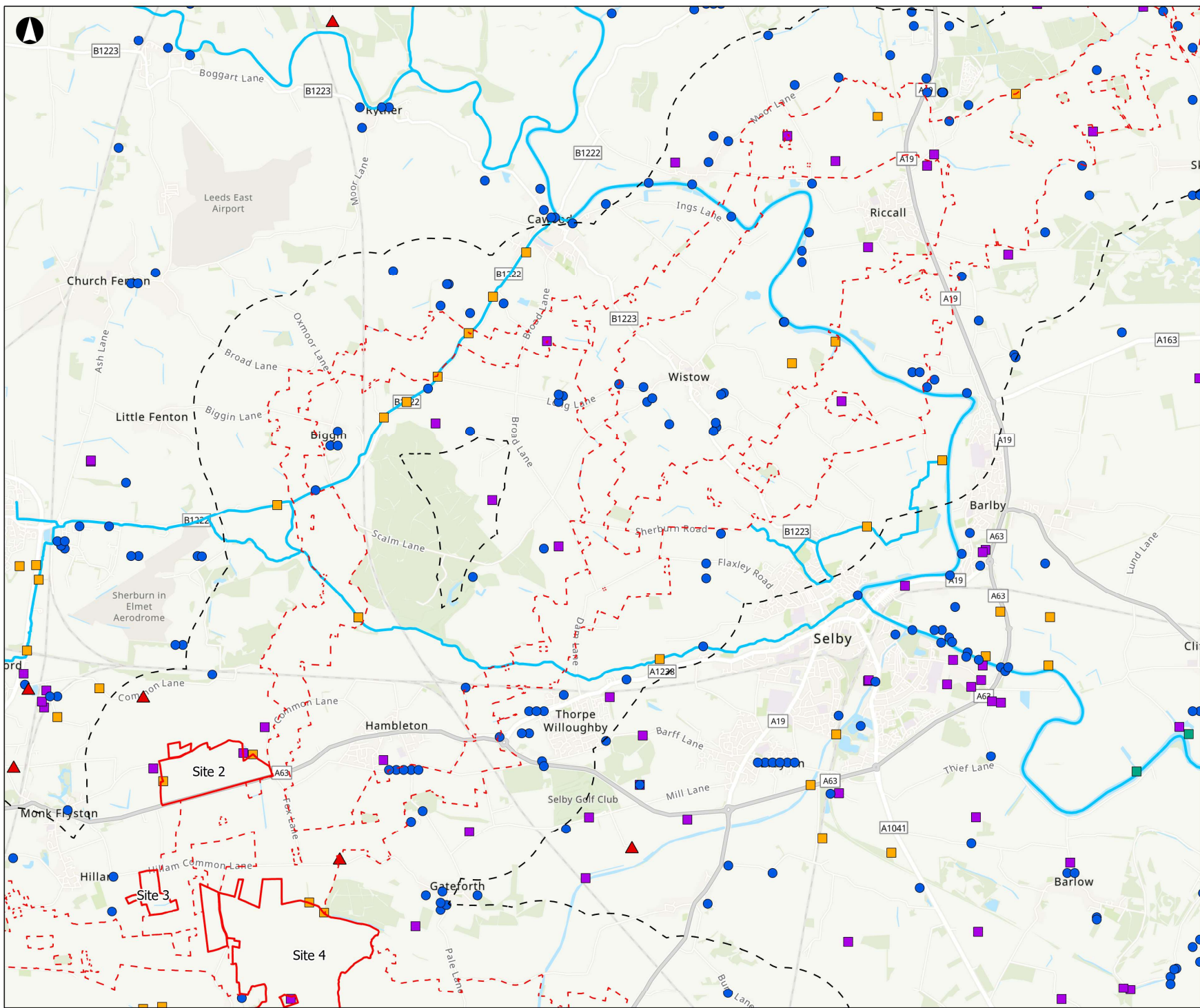
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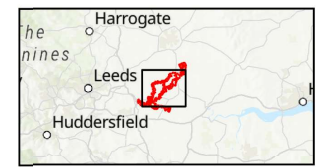
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Drawing Number  
**LVS-302939-237**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - ▲ Private Water Supplies
  - Licenced Water Discharges
- Licensed Water Abstractions**
- Groundwater
  - Surface Water
  - Tidal Water
  - Main Rivers



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Drawing Title  
**Figure 19.8**  
**Abstractions and Discharges**  
**Sheet 2 of 4**

Client  
**Light Valley Solar Limited**

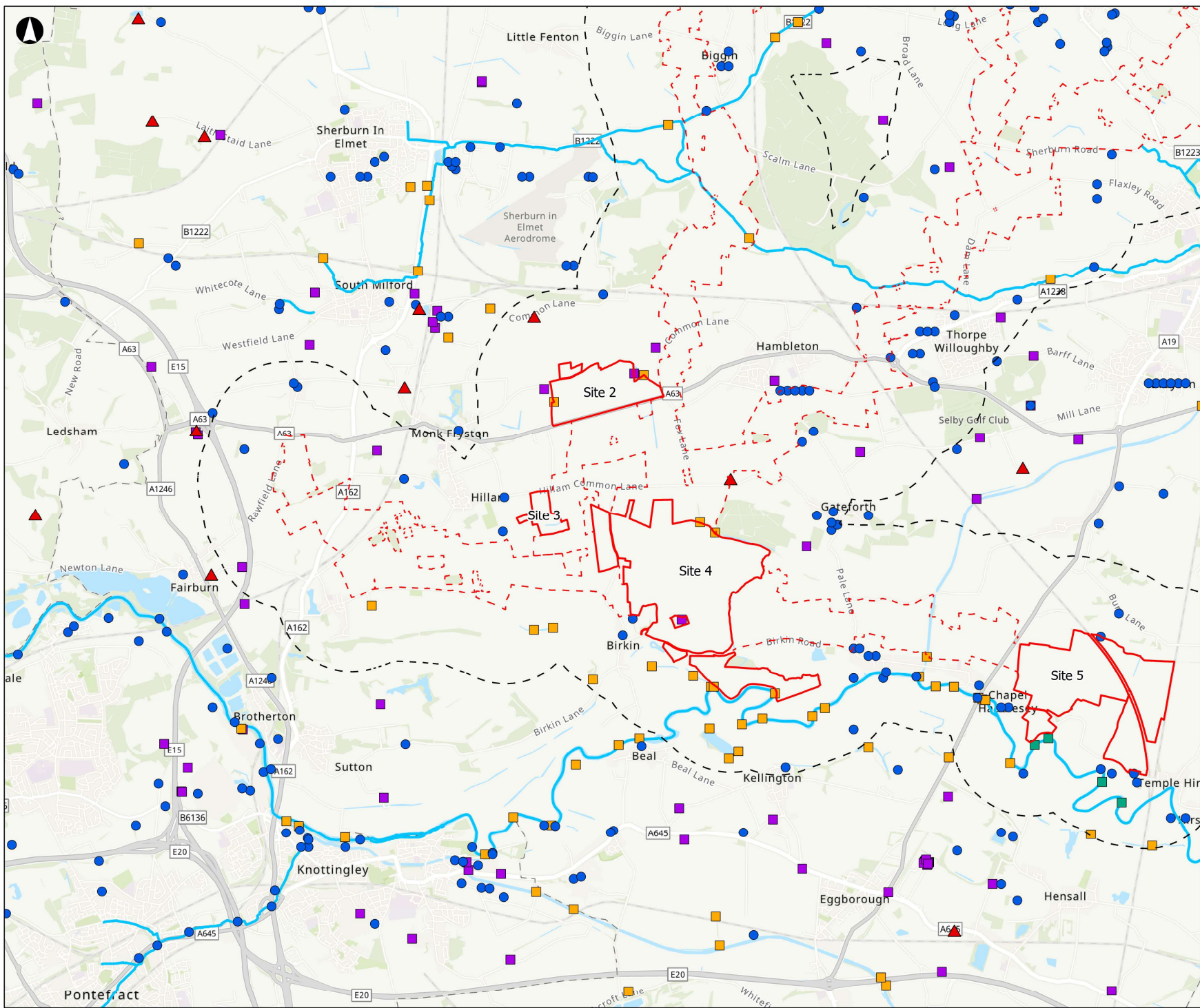
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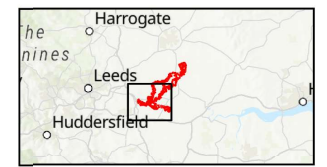
Project Number  
**302939-00**

Drawing Number  
**LVS-302939-238**

Rev **P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - ▲ Private Water Supplies
  - Licenced Water Discharges
- Licensed Water Abstractions**
- Groundwater
  - Surface Water
  - Tidal Water
  - Main Rivers



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
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Drawing Title  
**Figure 19.8**  
**Abstractions and Discharges**  
**Sheet 3 of 4**

Client  
**Light Valley Solar Limited**

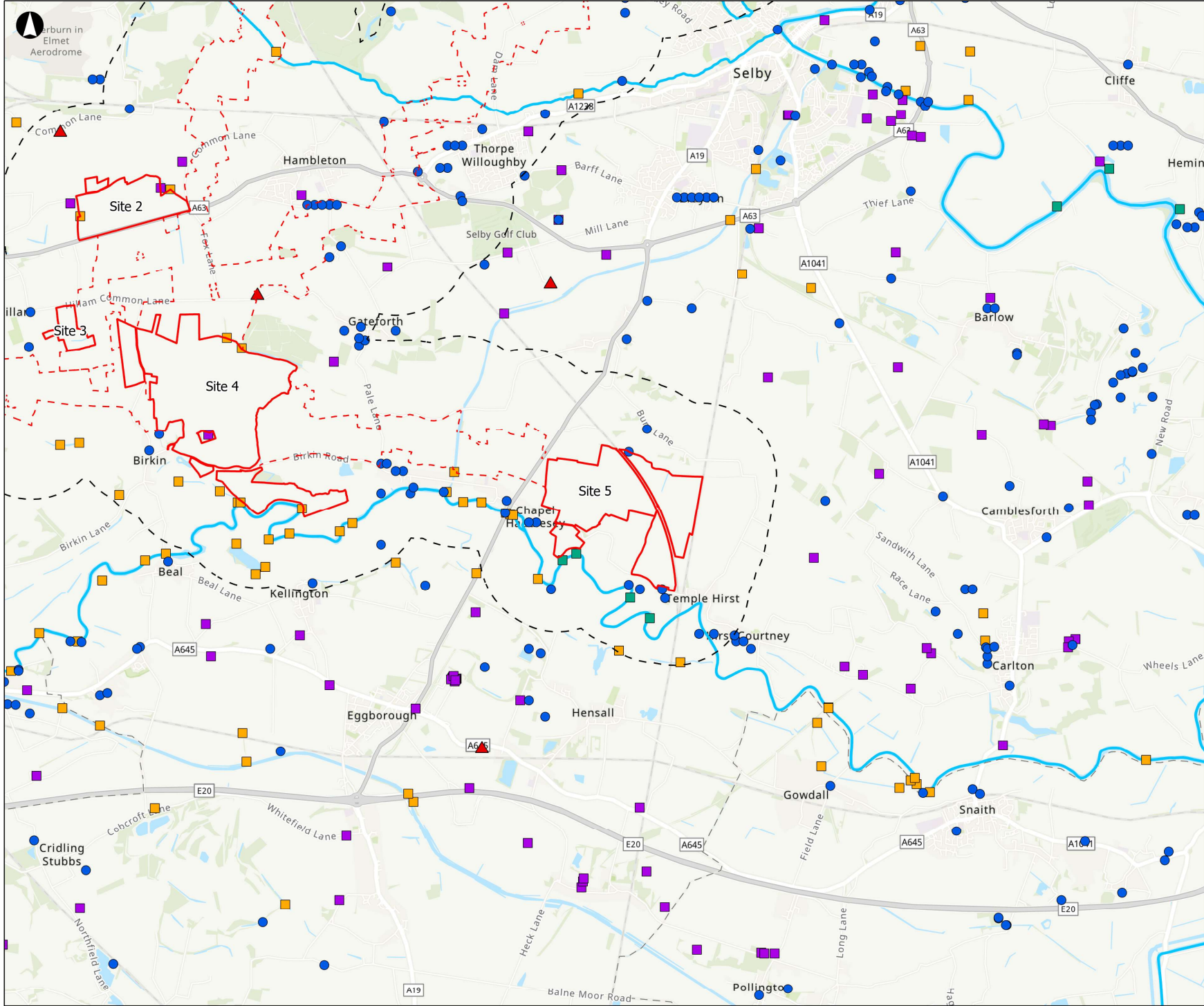
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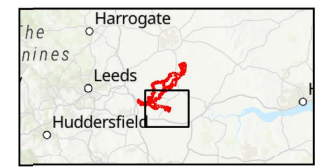
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Drawing Number  
**LVS-302939-239**

Rev **P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - ▲ Private Water Supplies
  - Licenced Water Discharges
- Licenced Water Abstractions**
- Groundwater
  - Surface Water
  - Tidal Water
  - Main Rivers



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS  
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Metres

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P01	21/10/2024	CESL	ACAR	HHAG	JMCH
Rev	Date	By	Chkd	Appd	Authd



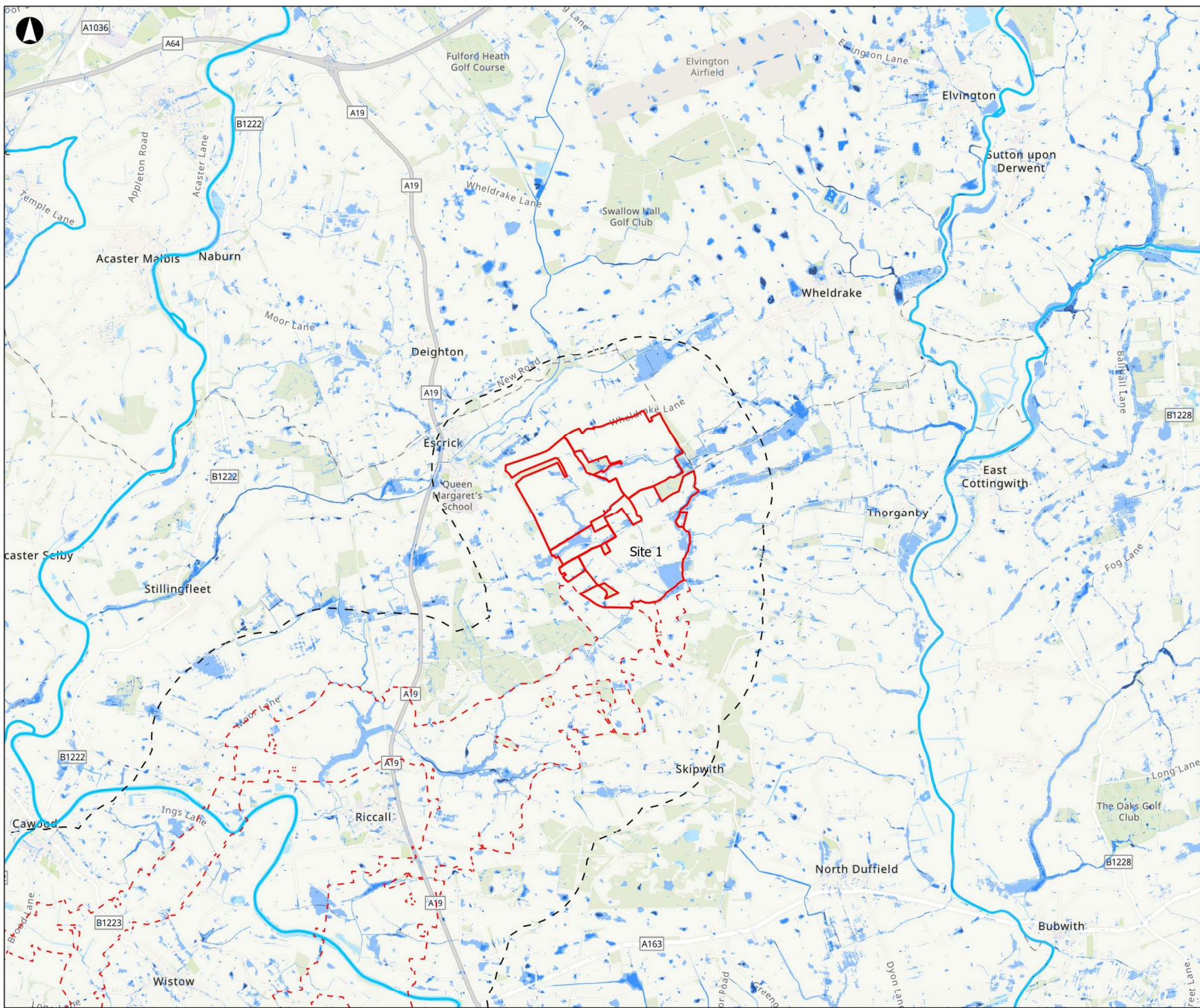
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**Abstractions and Discharges**  
**Sheet 4 of 4**

Client  
**Light Valley Solar Limited**

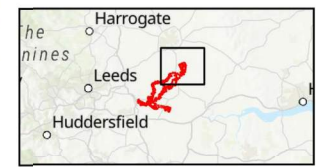
Project Name  
**Light Valley Solar**

Scale at A3  
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Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-240</b>	



- Draft Order Limits**
- Solar Development Sites
  - - - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
- Risk Of Flooding From Surface Water**
- 1 in 1000
  - 1 in 100
  - 1 in 30



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METI/ANSA, USGS  
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Rev	Date	By	Chkd	Appd	Authd



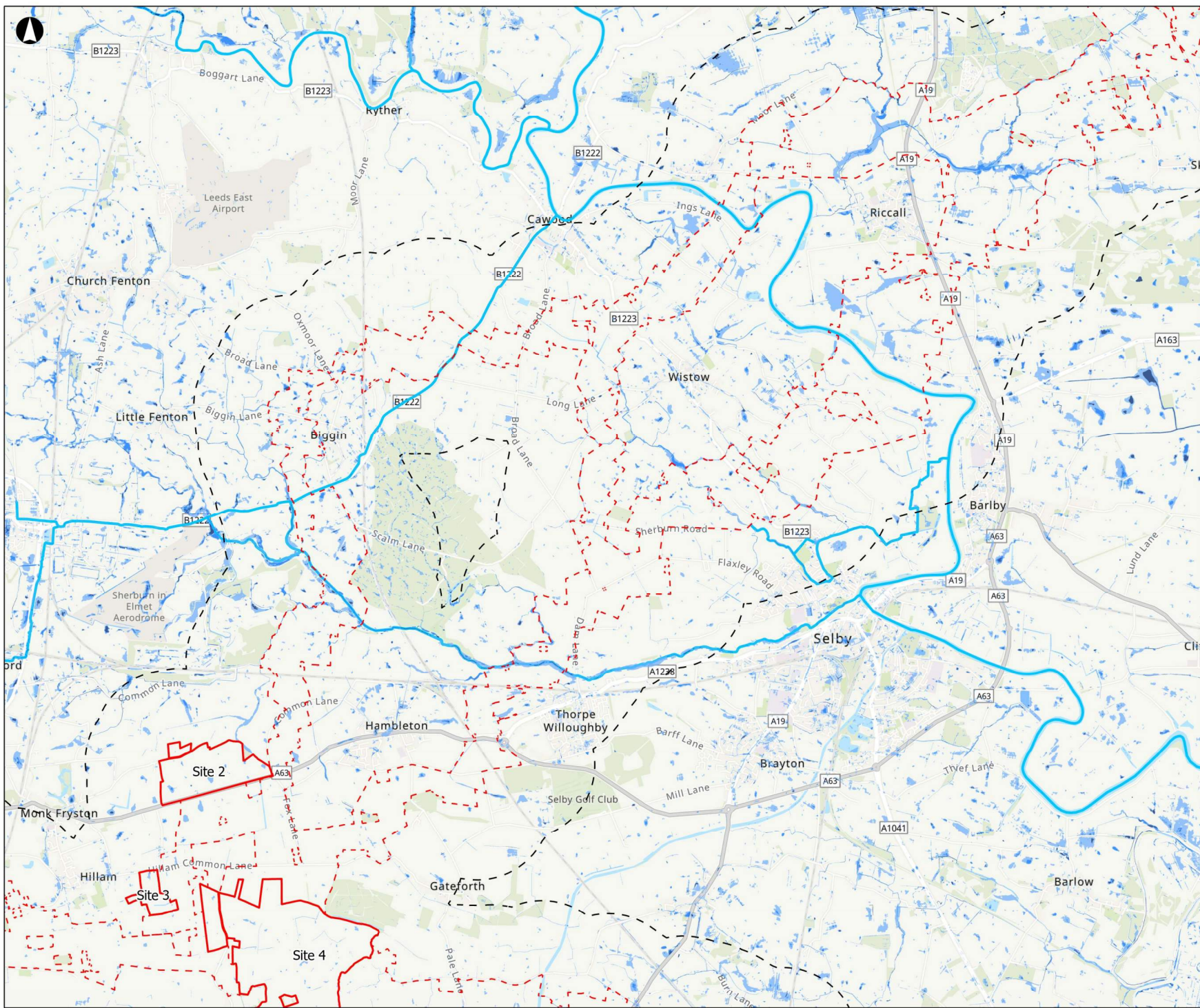
Drawing Title  
**Figure 19.9**  
**Risk of Flooding from Surface Water**  
**Sheet 1 of 4**

Client  
**Light Valley Solar Limited**

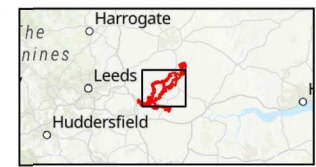
Project Name  
**Light Valley Solar**

Scale at A3  
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Project Number	Rev
<b>302939-00</b>	<b>P01</b>
Drawing Number	
<b>LVS-302939-246</b>	



- Draft Order Limits**
- ▭ Solar Development Sites
  - - - Cable Corridors Options Area
  - Study Area (2km)
  - ▬ Main Rivers
- Risk Of Flooding From Surface Water**
- 1 in 1000
  - 1 in 100
  - 1 in 30



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
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Rev	Date	By	Chkd	Appd	Authd



**Figure 19.9**  
**Risk of Flooding from Surface Water**  
**Sheet 2 of 4**

Client  
**Light Valley Solar Limited**

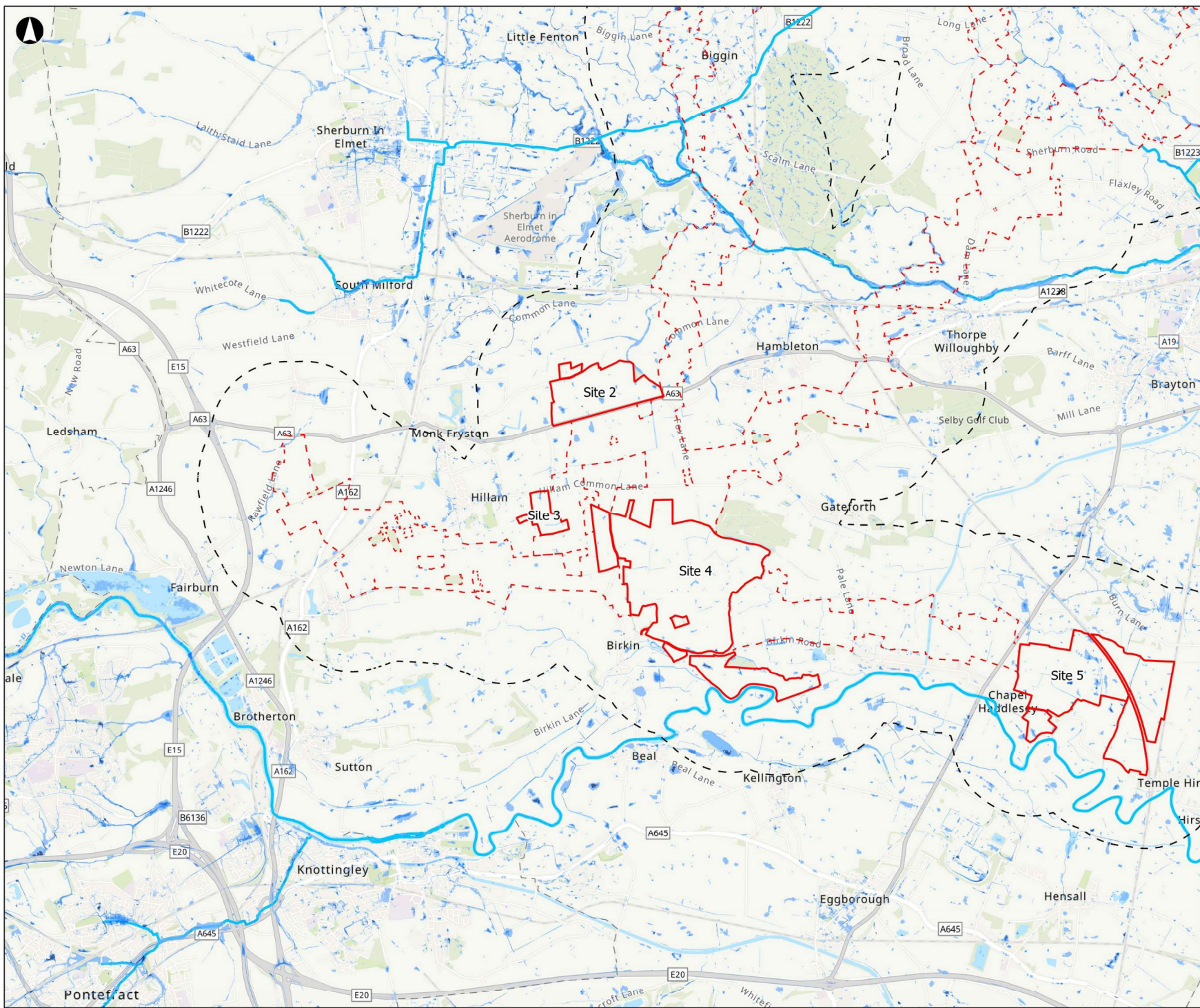
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**Light Valley Solar**

Scale at A3  
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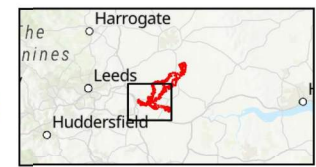
Project Number  
**302939-00**

Drawing Number  
**LVS-302939-247**

Rev **P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
- Risk Of Flooding From Surface Water**
- 1 in 1000
  - 1 in 100
  - 1 in 30



Coordinate System: British National Grid  
 Word Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
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Drawing Title  
**Figure 19.9**  
**Risk of Flooding from Surface Water**  
**Sheet 3 of 4**

Client  
**Light Valley Solar Limited**

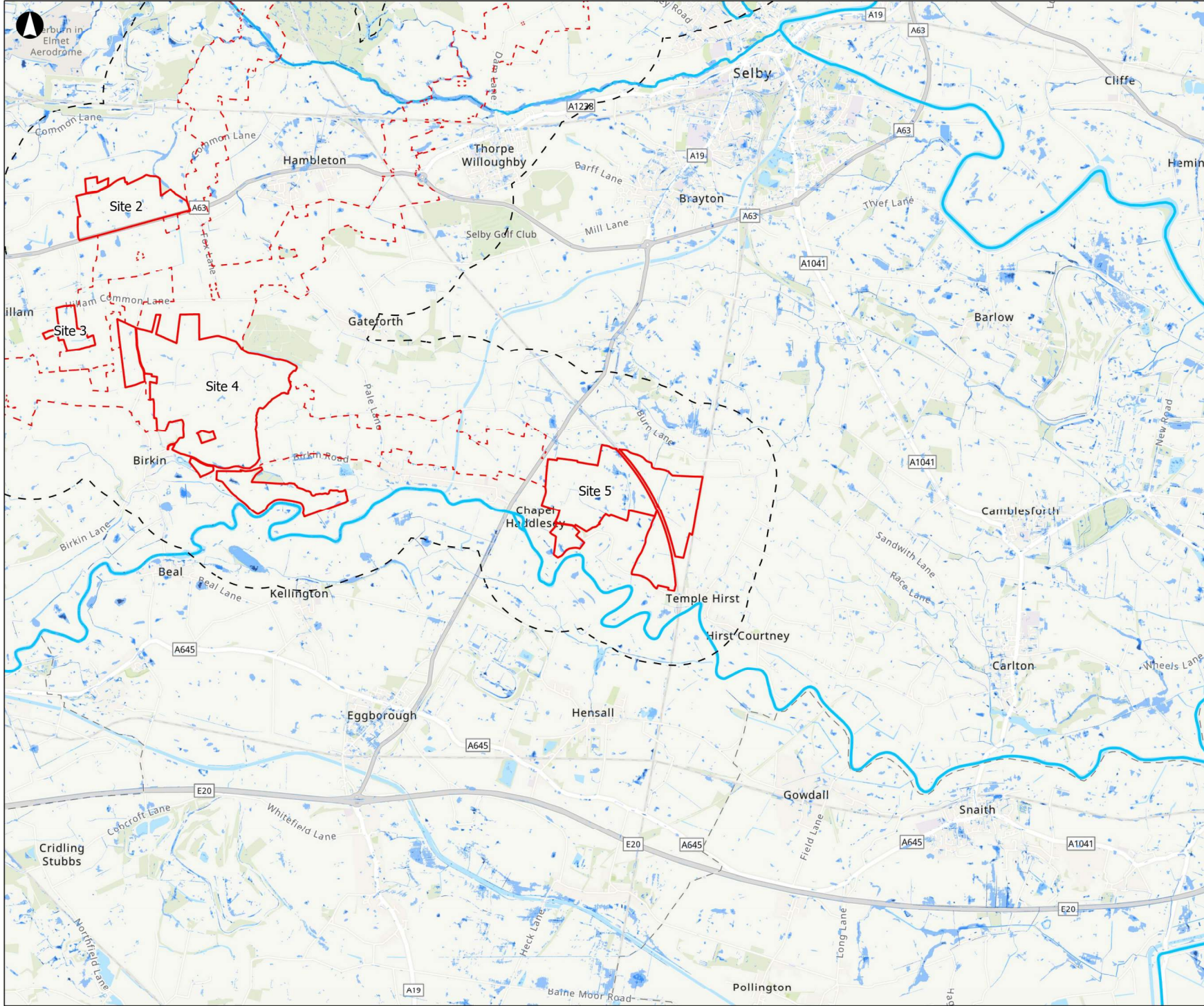
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**Light Valley Solar**

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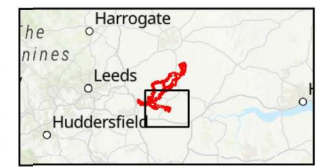
Project Number  
**302939-00**

Drawing Number  
**LVS-302939-248**

Rev **P01**



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
- Risk Of Flooding From Surface Water**
- 1 in 1000
  - 1 in 100
  - 1 in 30



Coordinate System: British National Grid  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAD, NOAA, USGS  
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Rev	Date	By	Chkd	Appd	Authd



**Figure 19.9**  
**Risk of Flooding from Surface Water**  
**Sheet 4 of 4**

Client  
**Light Valley Solar Limited**

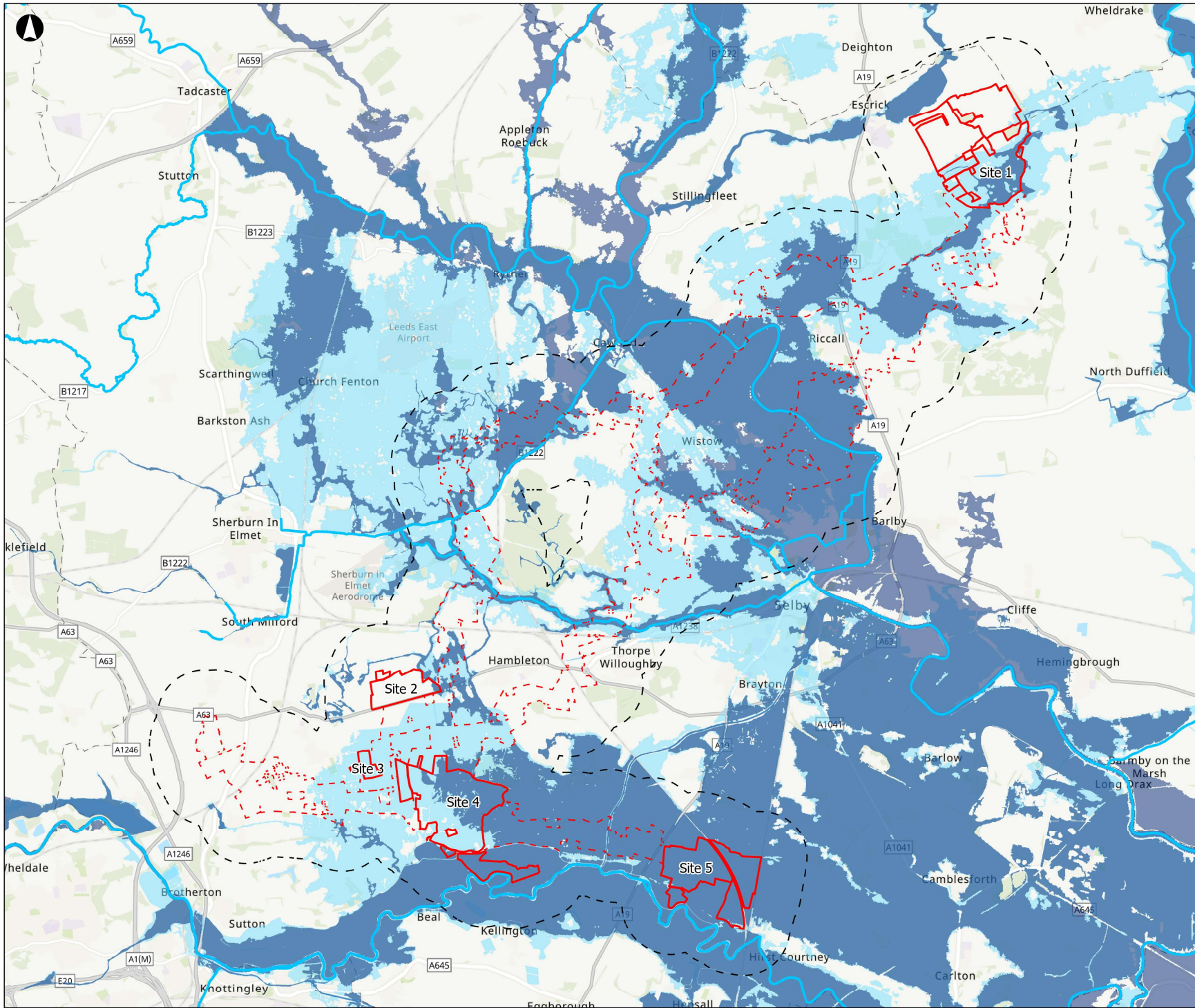
Project Name  
**Light Valley Solar**

Scale at A3  
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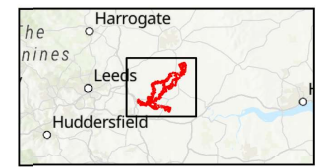
Project Number <b>302939-00</b>	Rev <b>P01</b>
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Drawing Number





- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
  - Flood Risk Zone 2
  - Flood Risk Zone 3



Coordinate System: British National Grid  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS  
 World Topographic Map: Esri, UK, Esri, TomTom, Garmin, FourSquare, GeoTechnologies, Inc, METI/ANSA, USGS  
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Metres

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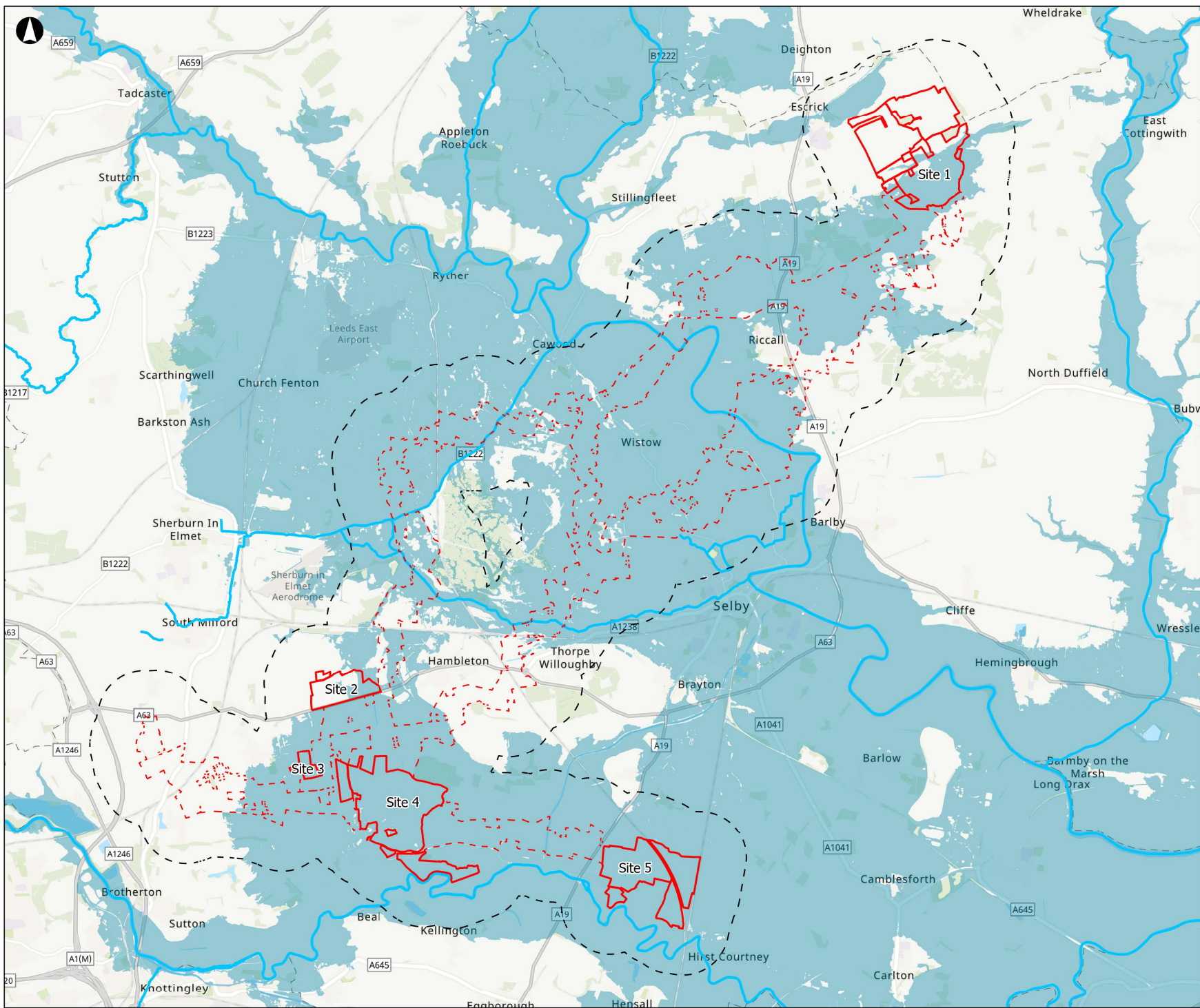
Drawing Title  
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**Risk of Flooding from Rivers and Seas**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

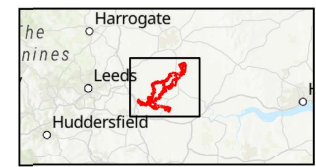
Project Name  
**Light Valley Solar**

Scale at A3  
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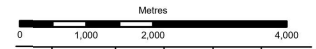
Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-250</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
  - Risk Of Flooding From Reservoirs



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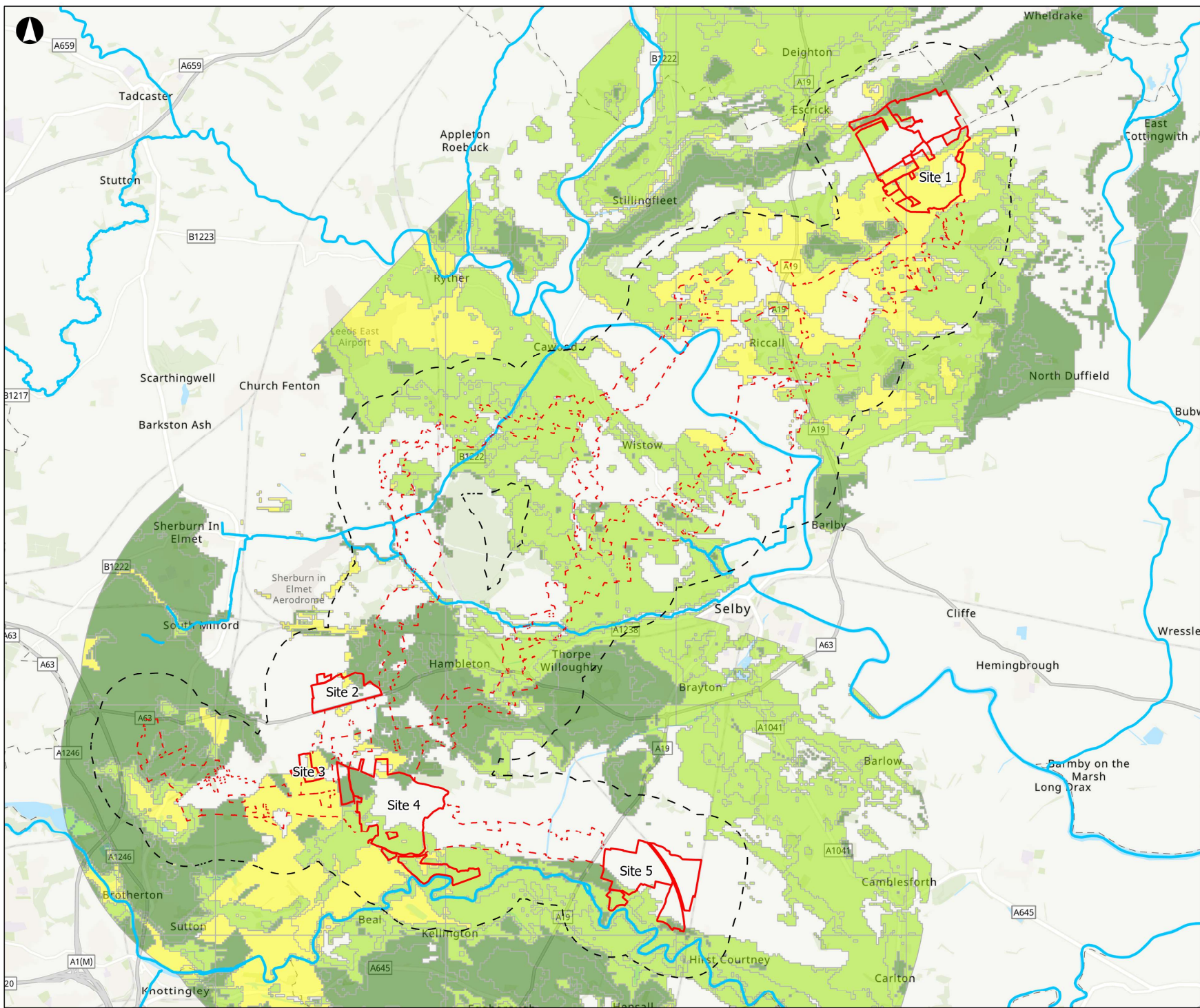
**Figure 19.11**  
**Risk of Flooding from Reservoirs**  
**Sheet 1 of 1**

Client  
**Light Valley Solar Limited**

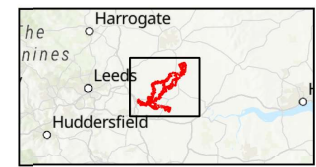
Project Name  
**Light Valley Solar**

Scale at A3  
**1:80,000**

Project Number <b>302939-00</b>	Rev <b>P01</b>
Drawing Number <b>LVS-302939-251</b>	



- Draft Order Limits**
- Solar Development Sites
  - Cable Corridors Options Area
  - Study Area (2km)
  - Main Rivers
- Groundwater Flooding**
- Limited potential for groundwater flooding to occur
  - Potential for groundwater flooding of property situated below ground level
  - Potential for groundwater flooding to occur at surface



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Figure 19.12  
**Susceptibility to Groundwater Flooding**  
 Sheet 1 of 1

Client					
<b>Light Valley Solar Limited</b>					
Project Name					
<b>Light Valley Solar</b>					
Scale at A3					
<b>1:80,000</b>					
Project Number					Rev
<b>302939-00</b>					<b>P01</b>
Drawing Number					
<b>LVS-302939-252</b>					