

**Figure 9.10c - Groundwater Recharge TDR**

**Legend**

**Project related data**

**Site Layout**

**Grid Connection**

**IPP Alternate**

**Turbine Delivery Route**

**Site Layout**

**Constraints**

**Hydrogeology**

**Groundwater**

**IE\_GSI\_Groundwater\_Recharge\_40K\_IE26\_ITM**

**Contours**

**Base Layers**

**ITM\_National\_High\_Resolution\_Imagery**

801-900

701-800

601-700

551-600

501-550

451-500

401-450

351-400

301-350

251-300

201-250

151-200

101-150

51-100

1-50

0

water

50m Elevation Countours

ITM\_National\_High\_Resolution\_Imagery

Red Line Boundary

Blue Line Boundary

GCR

IPP

TDR Route

Project ID 604569

Project Name Oatfield Wind Farm, Co. Clare

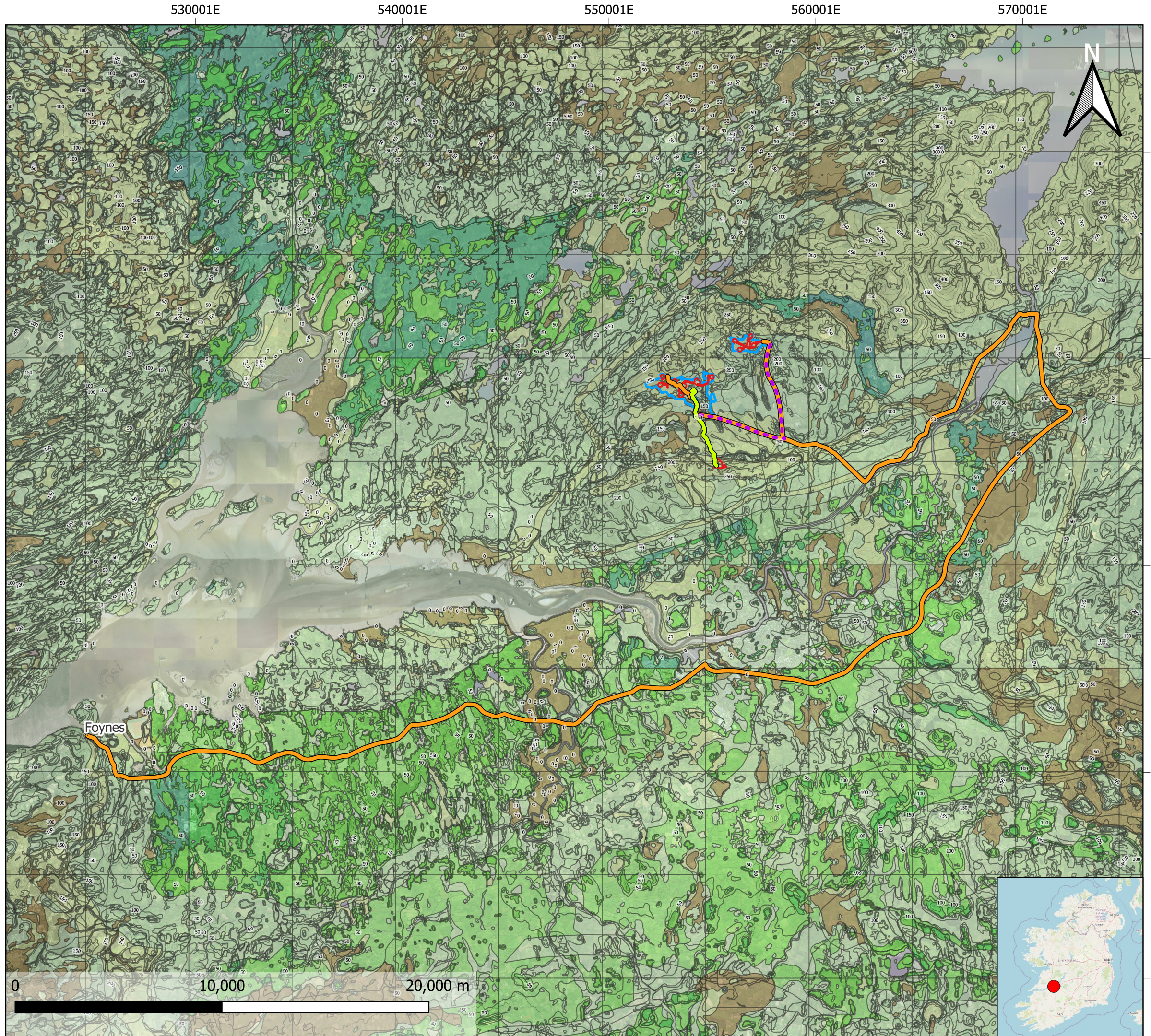
Projection ITM

Drawn by DW

Revised by SK

Version 18/12/2023

References/Sources:  
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 Geological Services Ireland (GSI)  
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### Flood Risk Preliminary Screening WF

(RSK File Ref. 604569-Hydro-R01-(01))  
(SK, JS 18/12/2023)

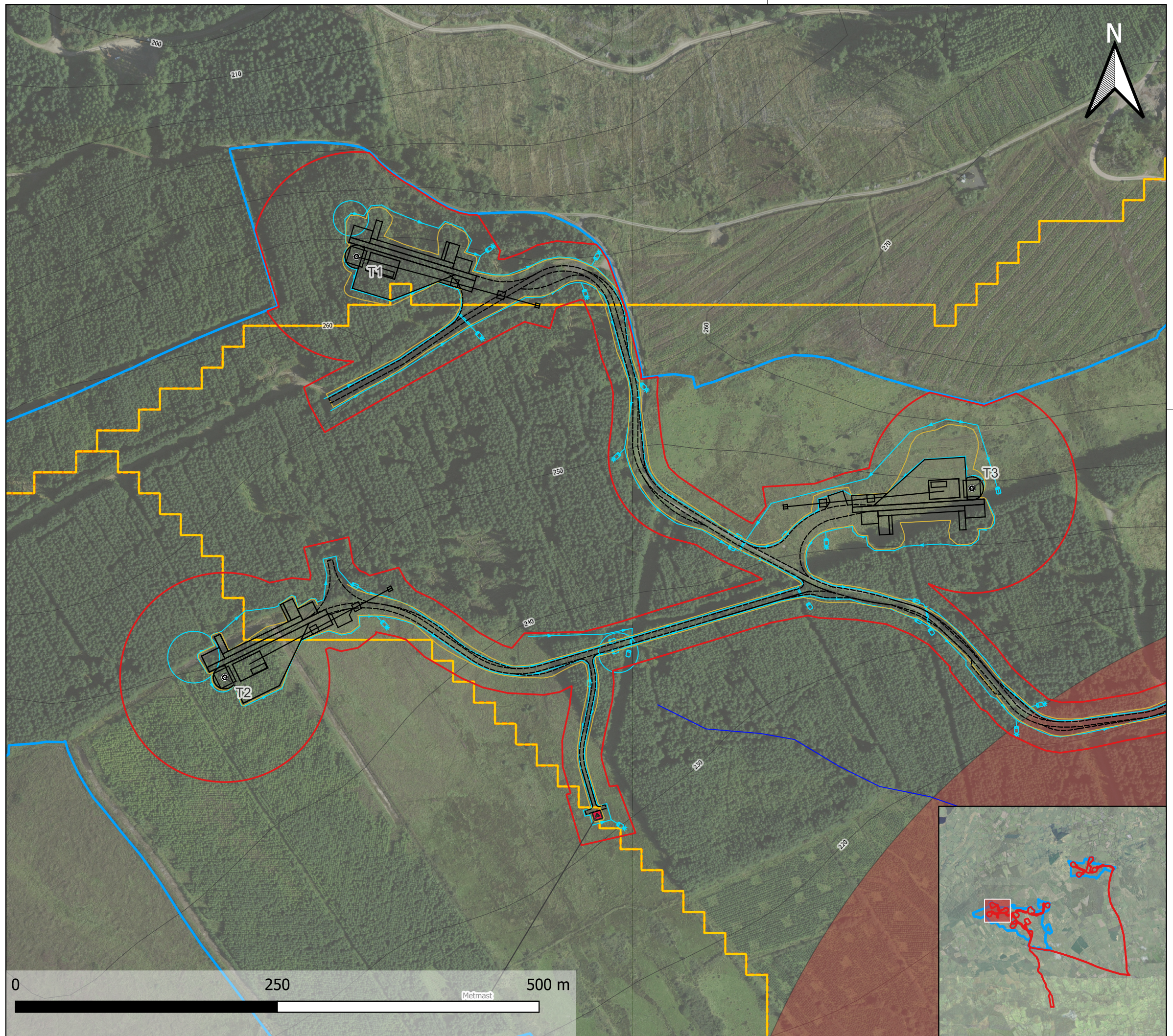
Category	Annual Exceedance Probability (%)	Chance of Occurrence in any Year	Return Period (Years)	Considers Flood Defences	Considers Climate Change	Site Assessment Screening result, flood zone on site?	Grid Connection Route Assessment Screening result, flood zone on site?	Turbine Delivery Route Assessment Screening result, flood zone on site?	
National Indicitive Fluvial Mapping Present Day	Low Probability	0.1	1 in 1000	1000	Assumed Yes	Assumed Yes	No	No	Yes
National Indicitive Fluvial Mapping Present Day	Medium Probability	1	1 in 200	200	Assumed Yes	Yes	No	No	Yes
National Indicitive Fluvial Mapping Mid End Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	Yes	No	No	Yes
National Indicitive Fluvial Mapping Mid End Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	Yes	No	no	Yes
National Indicitive Fluvial Mapping High End Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	Yes	No	no	Yes
National Indicitive Fluvial Mapping High End Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	Yes	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents Present Day	Low Probability	0.1	1 in 1000	1000	Assumed Yes	Assumed No	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents Present Day	Medium Probability	1	1 in 100	100	Assumed Yes	No	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents Present Day	High Probability	10	1 in 10	10	Assumed Yes	No	No	No	Yes
CCFRAM River (Fluvial ) Flood Extents Mid Range Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	YES	No	No	Yes
CCFRAM River (Fluvial ) Flood Extents Mid Range Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	YES	No	No	Yes
CCFRAM River (Fluvial ) Flood Extents Mid Range Future Sceanorio	High Probability	10	1 in 10	10	Assumed Yes	YES	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents High End Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	YES	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents High End Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	YES	No	no	Yes
CCFRAM River (Fluvial ) Flood Extents High End Future Sceanorio	High Probability	10	1 in 10	10	Assumed Yes	YES	No	no	Yes
CCFRAM Rainfall (Pluvial) Flood Extents Present Day	Low Probability	0.1	1 in 1000	1000	Assumed Yes	No	No	no	Yes
CCFRAM Rainfall (Pluvial) Flood Extents Present Day	Medium Probability	0.5	1 in 200	200	Assumed Yes	No	No	No	Yes
CCFRAM Rainfall (Pluvial) Flood Extents Present Day	High Probability	10	1 in 10	10	Assumed Yes	No	No	No	Yes
CCFRAM Coastal Flood Extents Present Day	Low Probability	0.1	1 in 1000	1000	Assumed Yes	No	No	no	Yes
CCFRAM Coastal Flood Extents Present Day	Medium Probability	1	1 in 100	100	Assumed Yes	No	No	no	Yes
CCFRAM Coastal Flood Extents Present Day	High Probability	10	1 in 10	10	Assumed Yes	No	No	no	Yes
CCFRAM PDF Maps							n/a	no	
Ground Water Flooding Probability Maps	Low Probability	0.1	1 in 1000	1000	Assumed No	No	no	no	No
Ground Water Flooding Probability Maps	Medium Probability	0.5	1 in 200	200	Assumed No	No	no	no	No
Ground Water Flooding Probability Maps	High Probability	10	1 in 10	10	Assumed No	No	no	no	No
National Coastal Flood Extents 2021 - Present Day	Low Probability	0.1	1 in 1000	1000	Assumed Yes	No	No	no	Yes
National Coastal Flood Extents 2021 - Present Day	Medium Probability	1	1 in 100	100	Assumed Yes	No	No	no	Yes
National Coastal Flood Hazard Mapping PRESENT DAY	Low Probability	0.1	1 in 1000	1000	Assumed No	No	No	no	Yes
National Coastal Flood Hazard Mapping PRESENT DAY	Medium Probability	0.5	1 in 200	200	Assumed No	No	No	no	Yes
National Coastal Flood Hazard Mapping PRESENT DAY	High Probability	10	1 in 10	10	Assumed No	No	No	no	Yes
National Coastal Flood Hazard mapping Mid Range Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	YES	No	no	Yes
National Coastal Flood Hazard mapping Mid Range Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	YES	No	no	Yes
National Coastal Flood Hazard mapping Mid Range Future Sceanorio	High Probability	10	1 in 10	10	Assumed Yes	YES	No	no	Yes
National Coastal Flood Hazard mapping High End Future Sceanorio	Low Probability	0.1	1 in 1000	1000	Assumed Yes	YES	No	no	Yes
National Coastal Flood Hazard mapping High End Future Sceanorio	Medium Probability	0.5	1 in 200	200	Assumed Yes	YES	No	no	Yes
National Coastal Flood Hazard mapping High End Future Sceanorio	High Probability	10	1 in 10	10	Assumed Yes	YES	No	no	Yes
Drainage Map Current Sceanorio Drainage Map (Coastal Extent)	Current Probability				Assumed Yes	YES	No	no	No
Drainage Map Mid Range Sceanorio Drainage Map (Coastal Extent)	High Probability	10	1 in 10		Assumed Yes	YES	No	no	No
Drainage Map High End Future Sceanorio Drainage Map (Coastal Extent)	High Probability	10	1 in 10		Assumed Yes	YES	No	no	No
Past Flood Events	Single Occurance				Assumed Yes	No	No	No	Yes
Past Flood Events	Reoccurring				Assumed Yes	No	No	No	Yes

**Figure 9.12a - Surface Water and Groundwater Resources - Tile 01 WDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - Metmast
  - grading
  - Drainage
- Constraints
- Hydrology
- WFD\_RiverSubBasins\_Cycle3
  - WFD\_RiverWaterbodiesActive\_Cycle3
- Hydrogeology
- Wells
- Wells\_total
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery

<b>Project ID</b>	604569
<b>Project Name</b>	Oatfield Wind Farm, Co. Clare
<b>Projection</b>	ITM
<b>Drawn by</b>	DW
<b>Revised by</b>	SK
<b>Version</b>	18/12/2023

References/Sources:  
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 Global Digital Elevation Model (GDEM)



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**Figure 9.12a - Surface Water and Groundwater Resources - Tile 02 WDA**

- Legend**
- Project related data**
- Site Layout**
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm**
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - Onsite SS
  - CC Stockpile
- Constraints**
- Hydrology**
- WFD\_RiverSubBasins\_Cycle3
  - WFD\_RiverWaterbodiesActive\_Cycle3
- Hydrogeology**
- Wells**
- Wells\_total
- Topography**
- Contours**
- 10m Elevation Contours
- Base Layers**
- ITM\_National\_High\_Resolution\_Imagery

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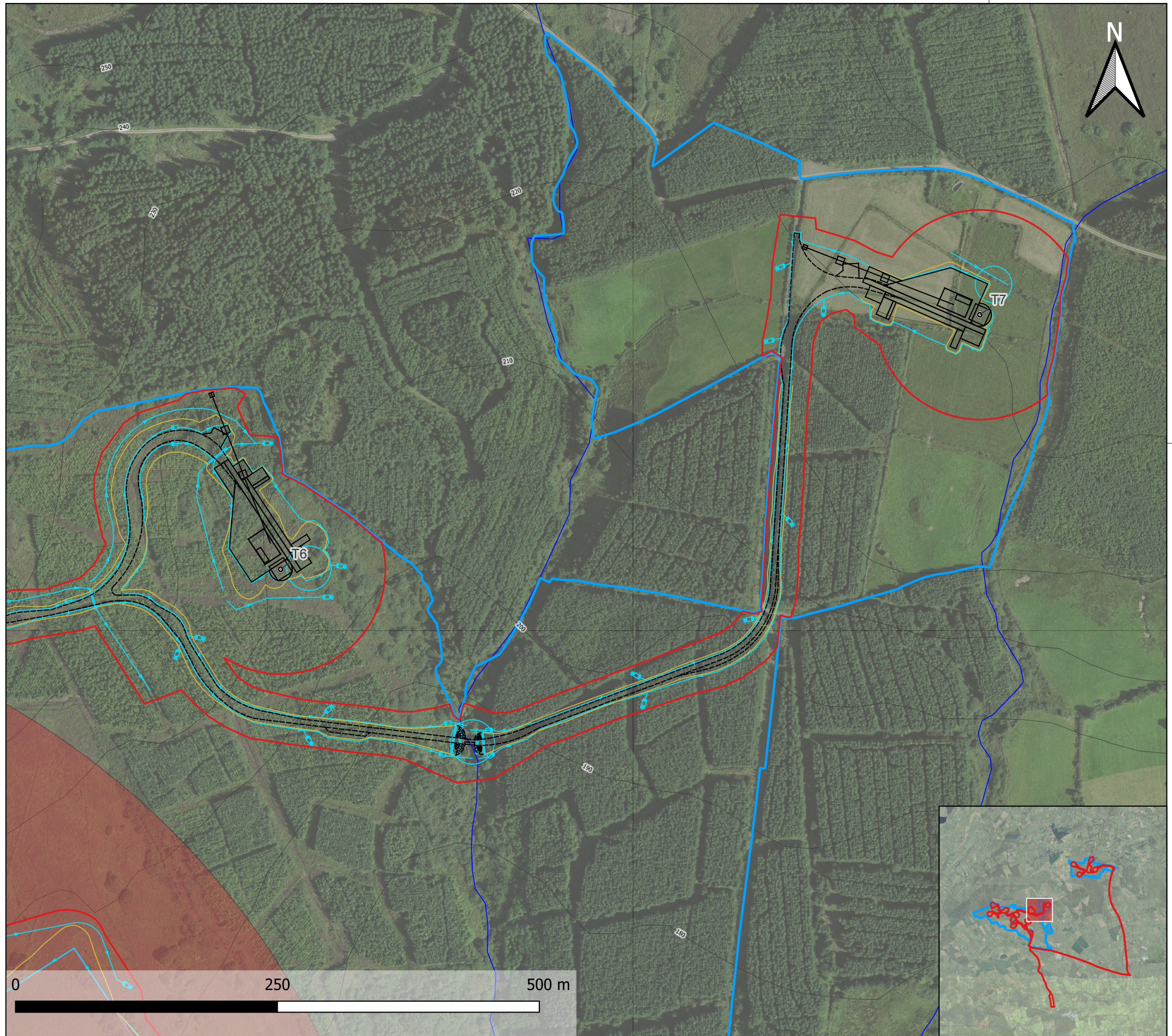


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**Figure 9.12a - Surface Water and Groundwater Resources - Tile 03 WDA**

555001E

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - Onsite SS
- Constraints
- Hydrology
- WFD\_RiverSubBasins\_Cycle3
  - WFD\_RiverWaterbodiesActive\_Cycle3
- Hydrogeology
- Wells
- Wells\_total
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery



<b>Project ID</b>	604569
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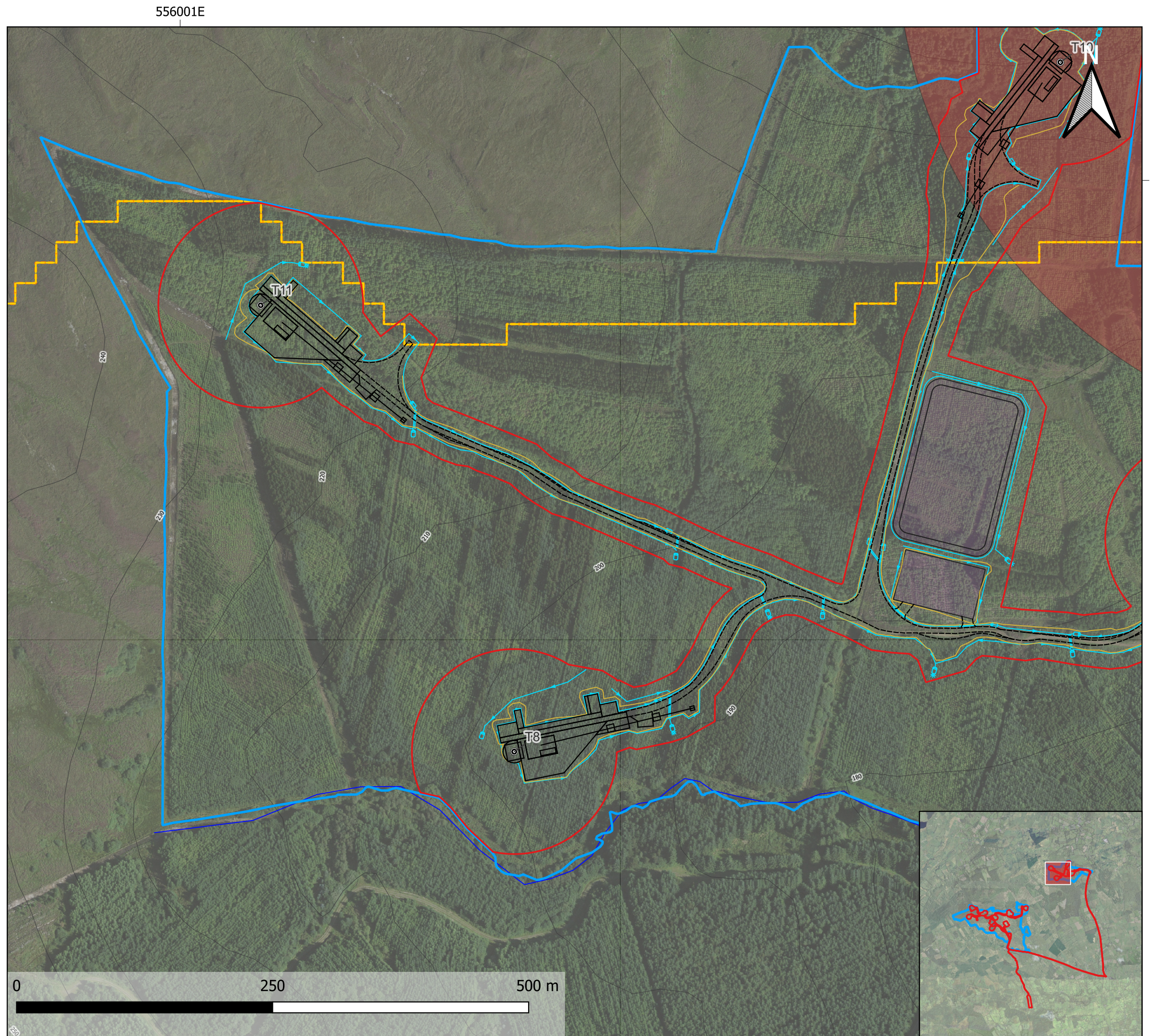
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**Figure 9.12a - Surface Water and Groundwater Resources - Tile 04 EDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - CC Stockpile
- Constraints
- Hydrology
- WFD\_RiverSubBasins\_Cycle3
  - WFD\_RiverWaterbodiesActive\_Cycle3
- Hydrogeology
- Wells
- Wells\_total
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
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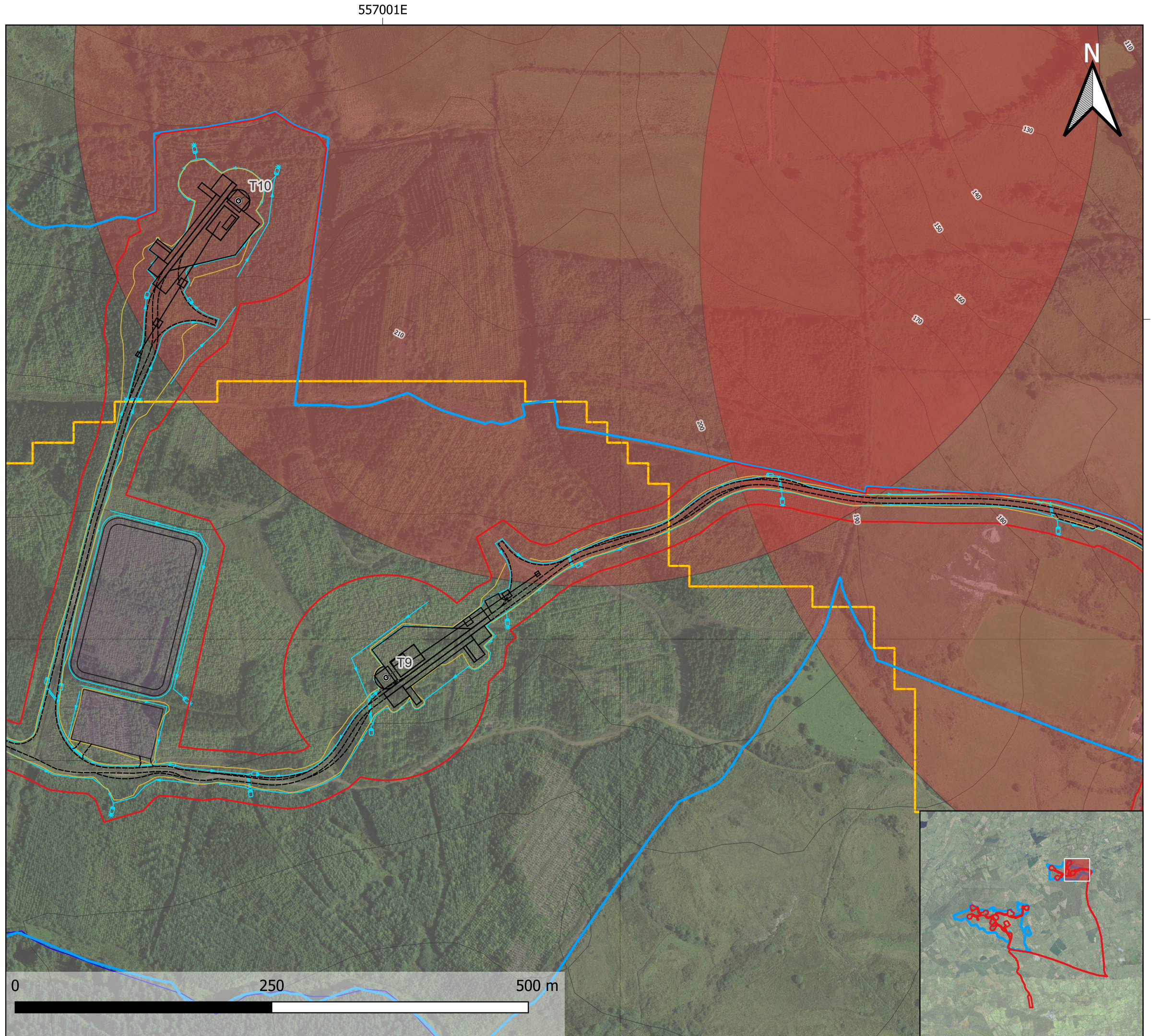
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**Figure 9.12a - Surface Water and Groundwater Resources - Tile 05 EDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - CC Stockpile
- Constraints
- Hydrology
- ▨ WFD\_RiverSubBasins\_Cycle3
  - WFD\_RiverWaterbodiesActive\_Cycle3
- Hydrogeology
- Wells
- Wells\_total
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
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**Figure 9.13a - Designated & Protected Areas  
Wind Farm - Tile 01 WDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - Metmast
  - grading
  - Drainage
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery

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**Figure 9.13a - Designated & Protected Areas  
Wind Farm - Tile 02 WDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - Onsite SS
  - CC Stockpile
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery

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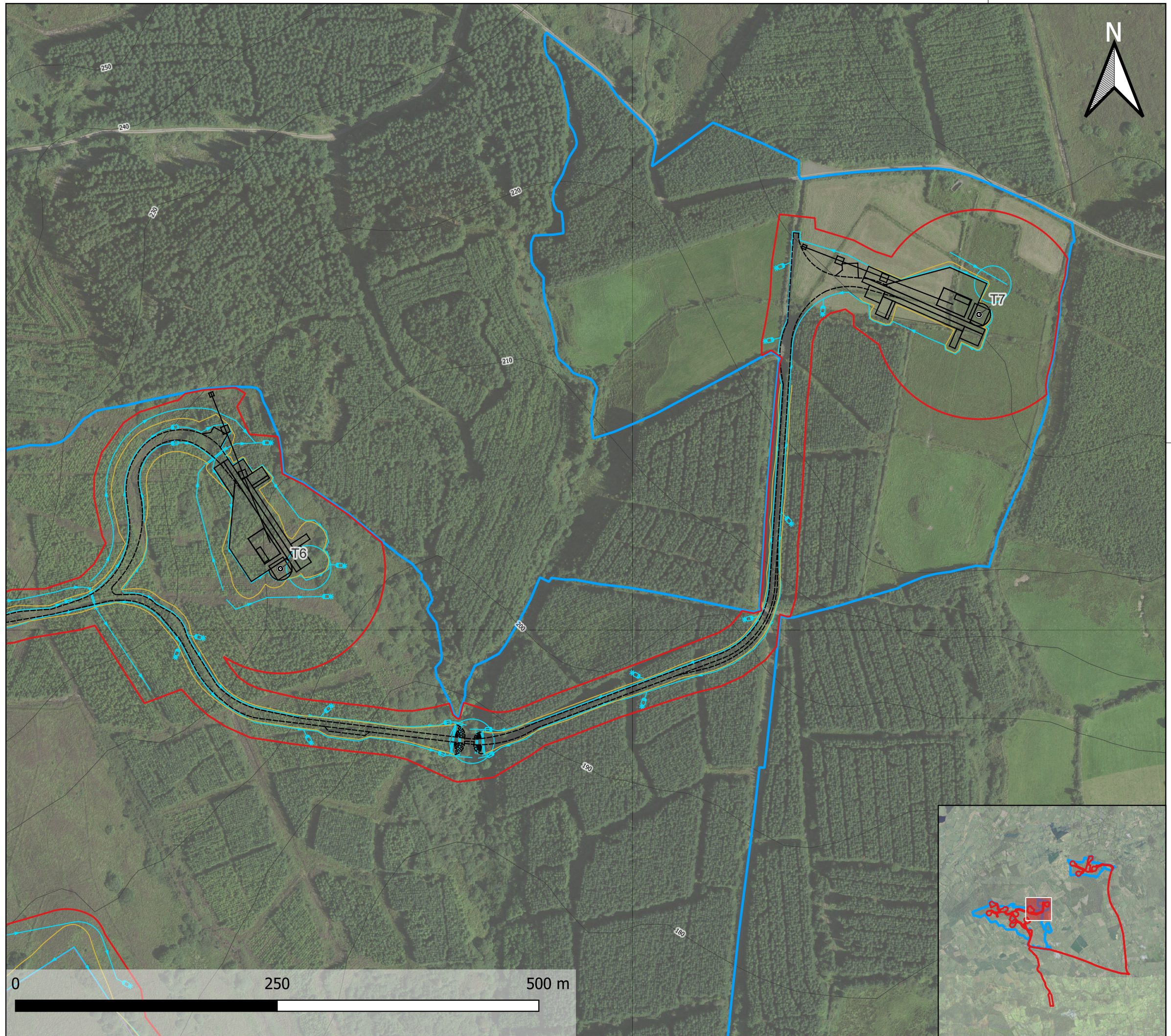


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**Figure 9.13a - Designated & Protected Areas  
Wind Farm - Tile 03 WDA**

555001E

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- - - Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - Onsite SS
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery



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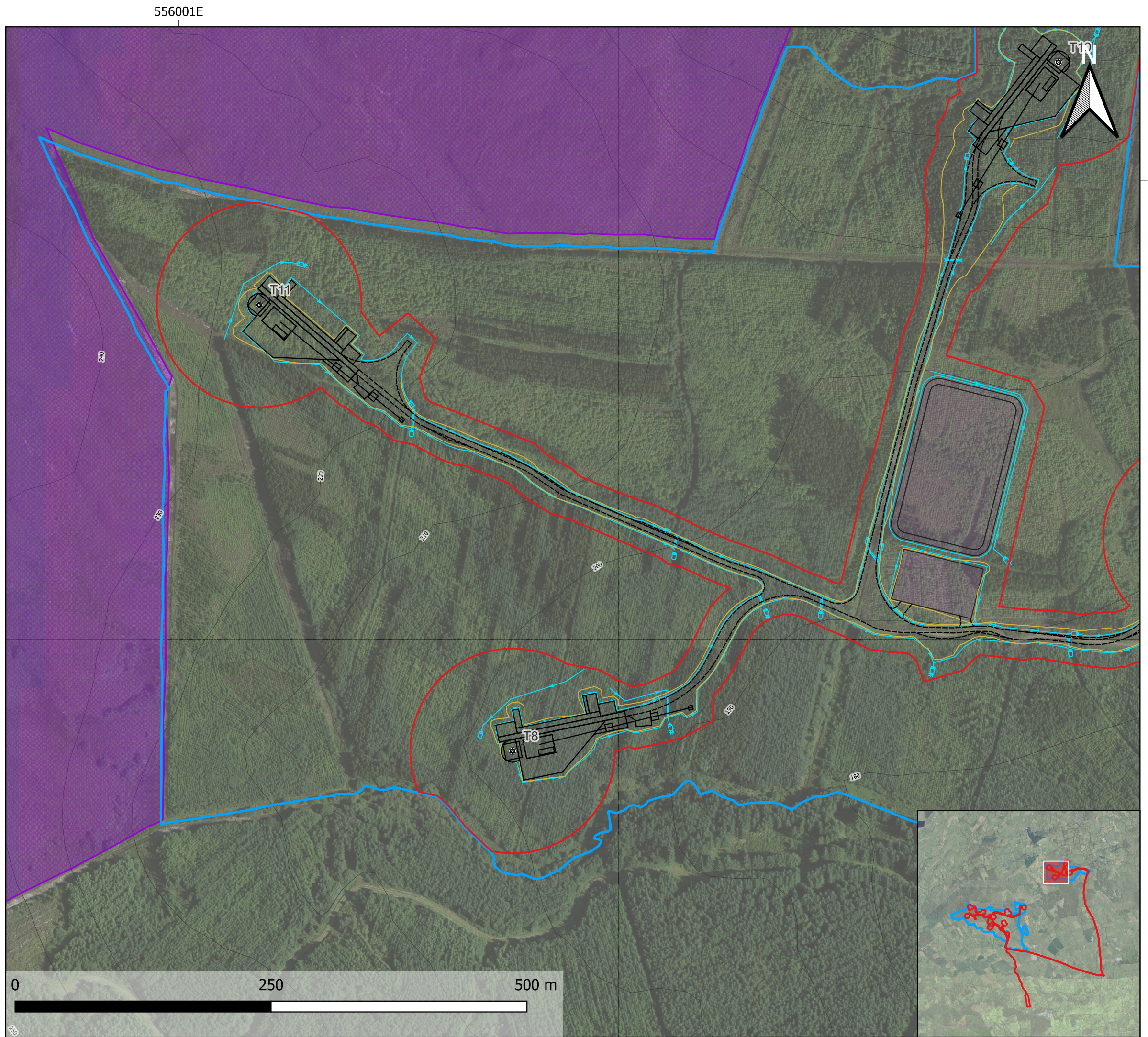
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**Figure 9.13a - Designated & Protected Areas  
Wind Farm - Tile 04 EDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - CC Stockpile
- Constraints
- Designated Areas
- NHA\_ITM\_2019\_06
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery

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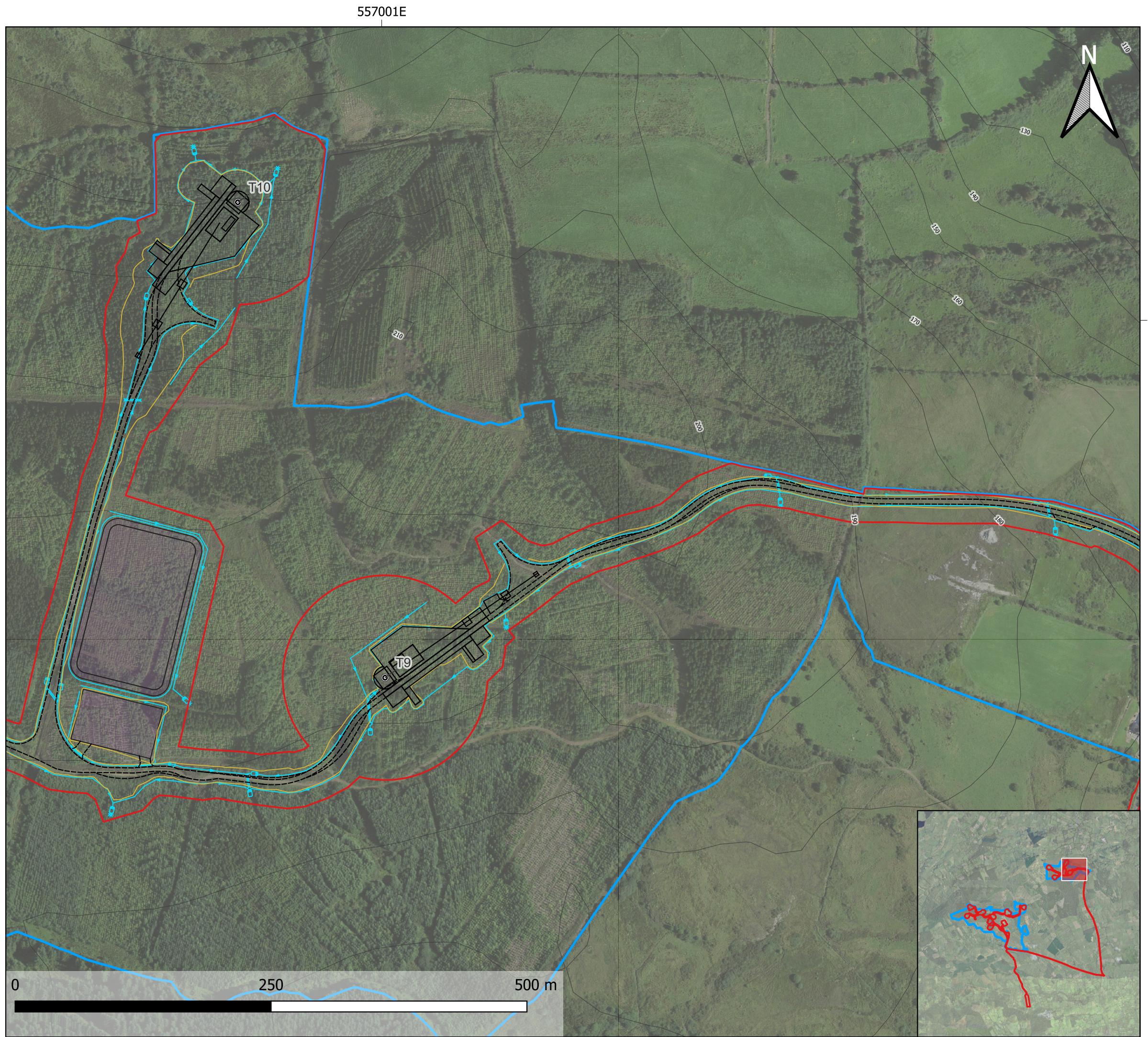
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**Figure 9.13a - Designated & Protected Areas  
Wind Farm - Tile 05 EDA**

- Legend
- Project related data
- Site Layout
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Wind Farm
- Access Tracks
  - Turbine Hardstands
  - Turbine Locations
  - grading
  - Drainage
  - CC Stockpile
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
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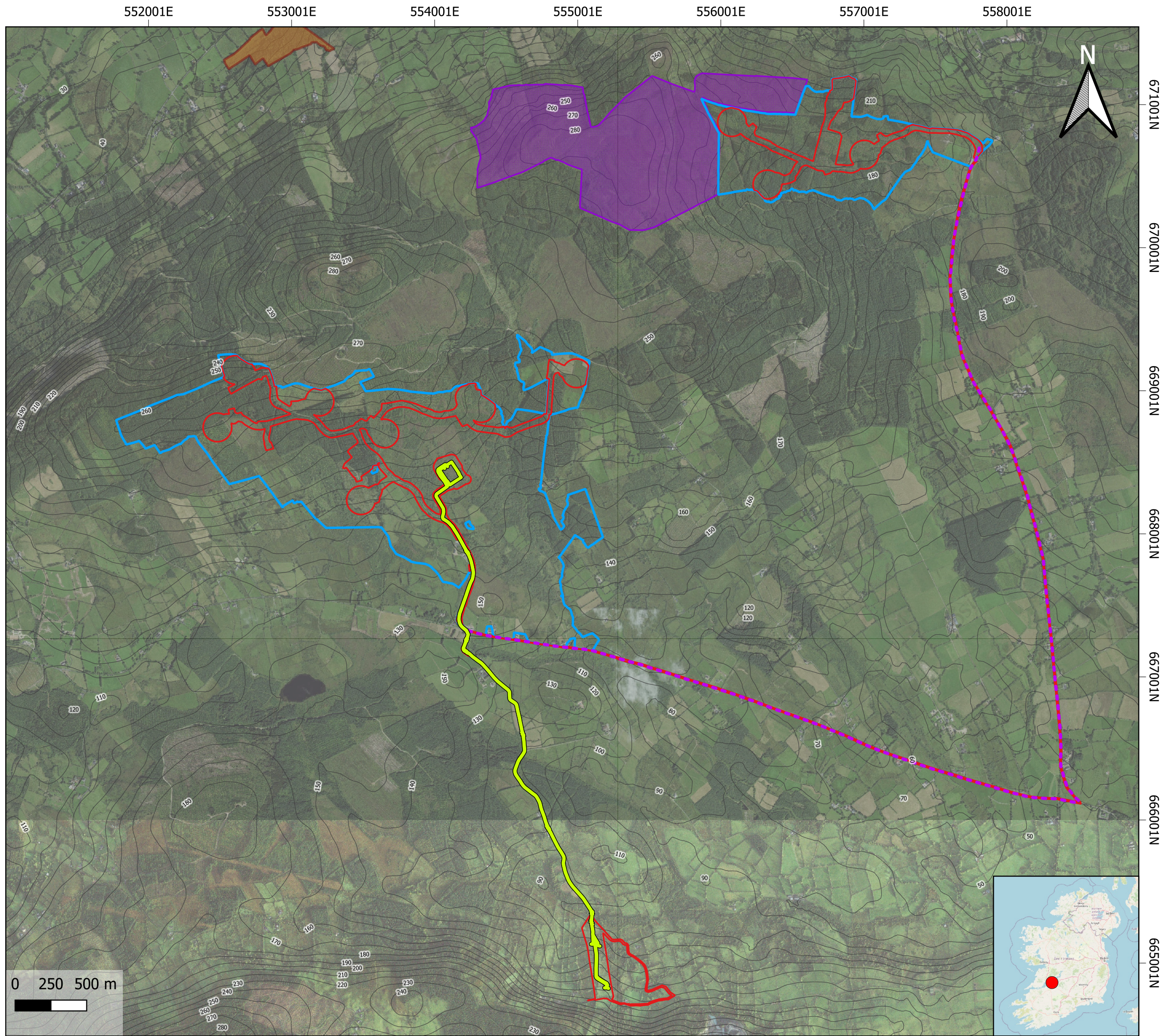
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**Figure 9.13b - Designated & Protected Areas  
GCR and IPP**

- Legend
- Project related data
- Site Layout
- Grid Connection
- GCR
- IPP Alternate
- IPP
- Site Layout
- Red Line Boundary
  - Blue Line Boundary
- Constraints
- Designated Areas
- NHA\_ITM\_2019\_06
  - SAC\_ITM\_2023\_02
- Topography
- Contours
- 10m Elevation Contours
- Base Layers
- ITM\_National\_High\_Resolution\_Imagery

<b>Project ID</b>	604569
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<b>Projection</b>	ITM
<b>Drawn by</b>	DW
<b>Revised by</b>	SK
<b>Version</b>	18/12/2023

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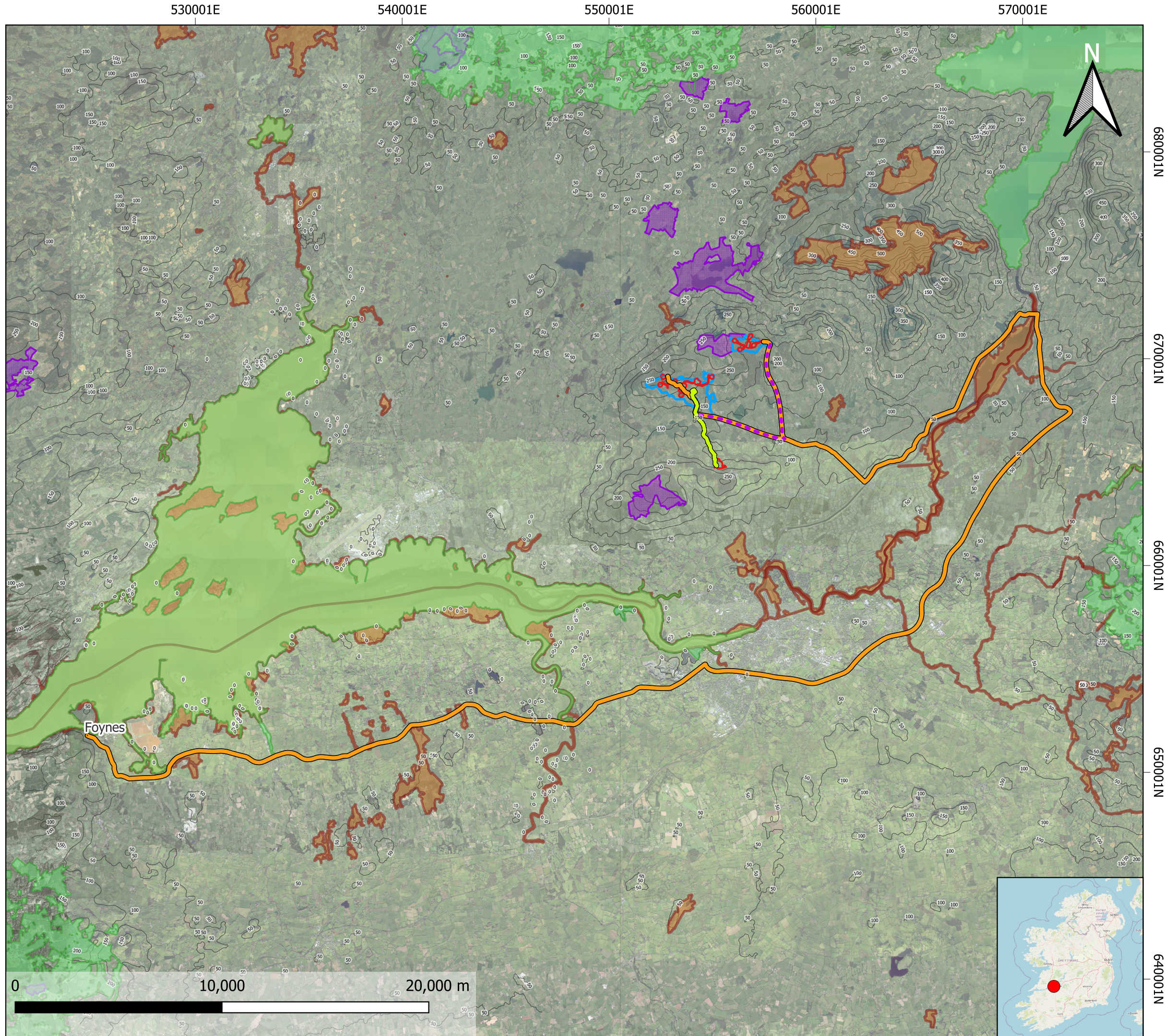
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**Figure 9.13c - Designated & Protected Areas TDR**

- Legend**
- Project related data**
- Site Layout
  - Grid Connection
  - GCR
  - IPP Alternate
  - IPP
  - Turbine Delivery Route
  - TDR Route
  - Site Layout
  - Red Line Boundary
  - Blue Line Boundary
- Constraints**
- Designated Areas**
- SPA\_ITM\_2021\_10
  - NHA\_ITM\_2019\_06
  - SAC\_ITM\_2023\_02
- Topography**
- Contours**
- 50m Elevation Countours
- Base Layers**
- ITM\_National\_High\_Resolution\_Imagery

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