

Legend

- EIAR Site Boundary
- Watercourses
- WFD Subcatchments
 - Maigue_SC_010
 - Maigue_SC_020
 - Maigue_SC_040
- WFD Catchments
 - Shannon Estuary South
 - WFD Transitional Waterbodies
 - WFD Coastal Waterbodies

Client: Garrane Green Energy Ltd.

Job: Garrane Green Enery Project

Title: Regional Hydrology Map

Figure No: 10-1

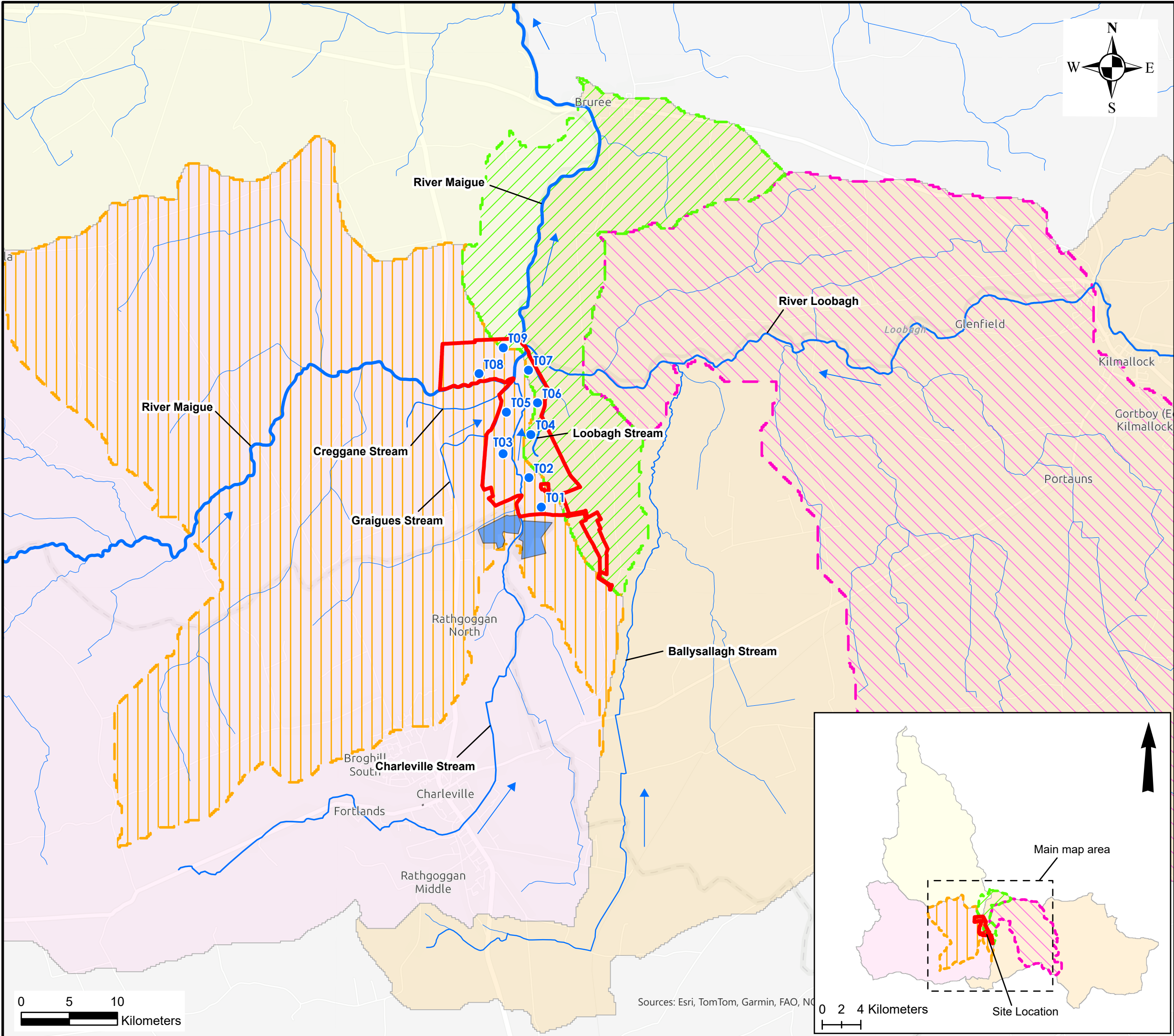
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Sheet Size: A3	Project No: P1605-0
Scale: 1:150,000	Drawn By: GA
Date: 11/08/2025	Checked By: MG

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- Legend
- EIAR Site Boundary
 - Proposed Turbine Layout
 - Watercourses
 - Lakes
 - WFD River Sub-Basins
 - CHARLEVILLE STREAM_020
 - LOBAGH_030
 - MAIGUE_030
 - WFD Subcatchments
 - Maigue_SC_010
 - Maigue_SC_020
 - Maigue_SC_040

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Client: Garrane Green Energy Ltd.

Job: Garrane Green Energy Project

Title: Local Hydrology Map

Figure No: 10-2

Drawing No: P1605-0-0825-A3-1002-00A

Sheet Size: A3

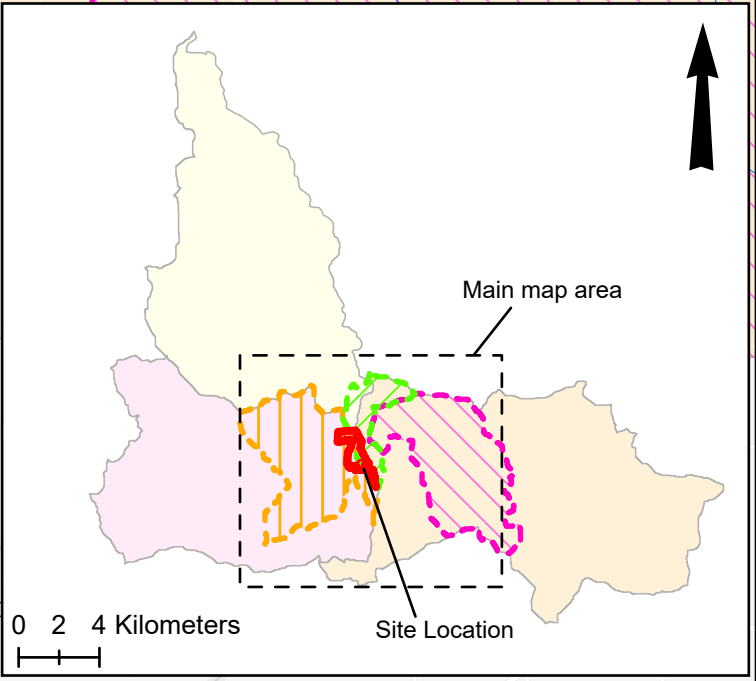
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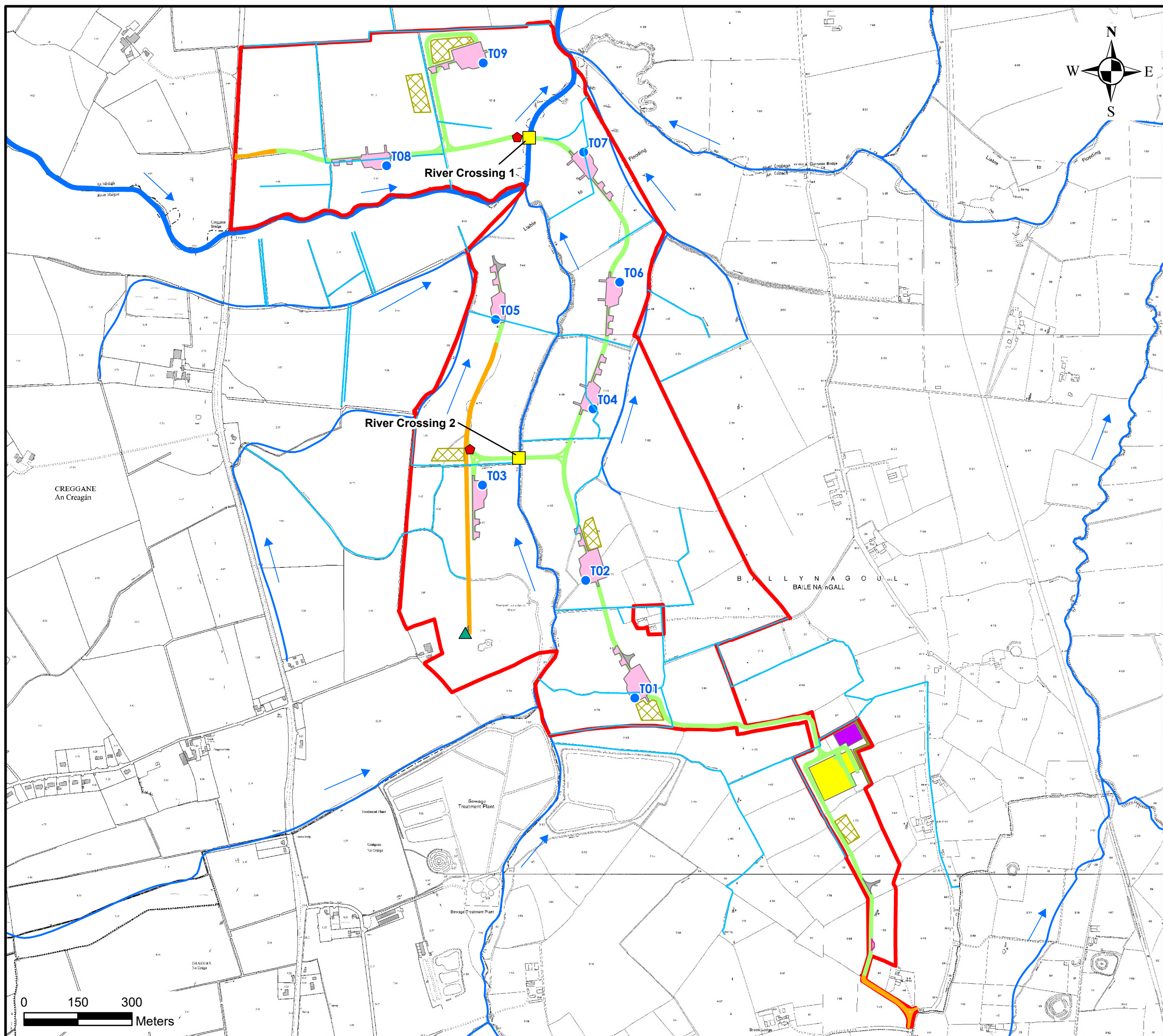
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Legend

- EIAR Site Boundary
- Proposed Turbine Layout
- Proposed Substation
- Site Compound
- Proposed Hardstands
- Proposed Met Mast
- Proposed New Tracks
- Existing Farm Tracks to be Modified
- Proposed Turning Heads
- Permanent Spoil Storage Area (Berm)
- Temporary Spoil Storage Locations
- Proposed Wheel Wash Area
- Watercourses
- Existing Drains
- Watercourse Crossings
- Crossing of Industrial Outflow Pipelines

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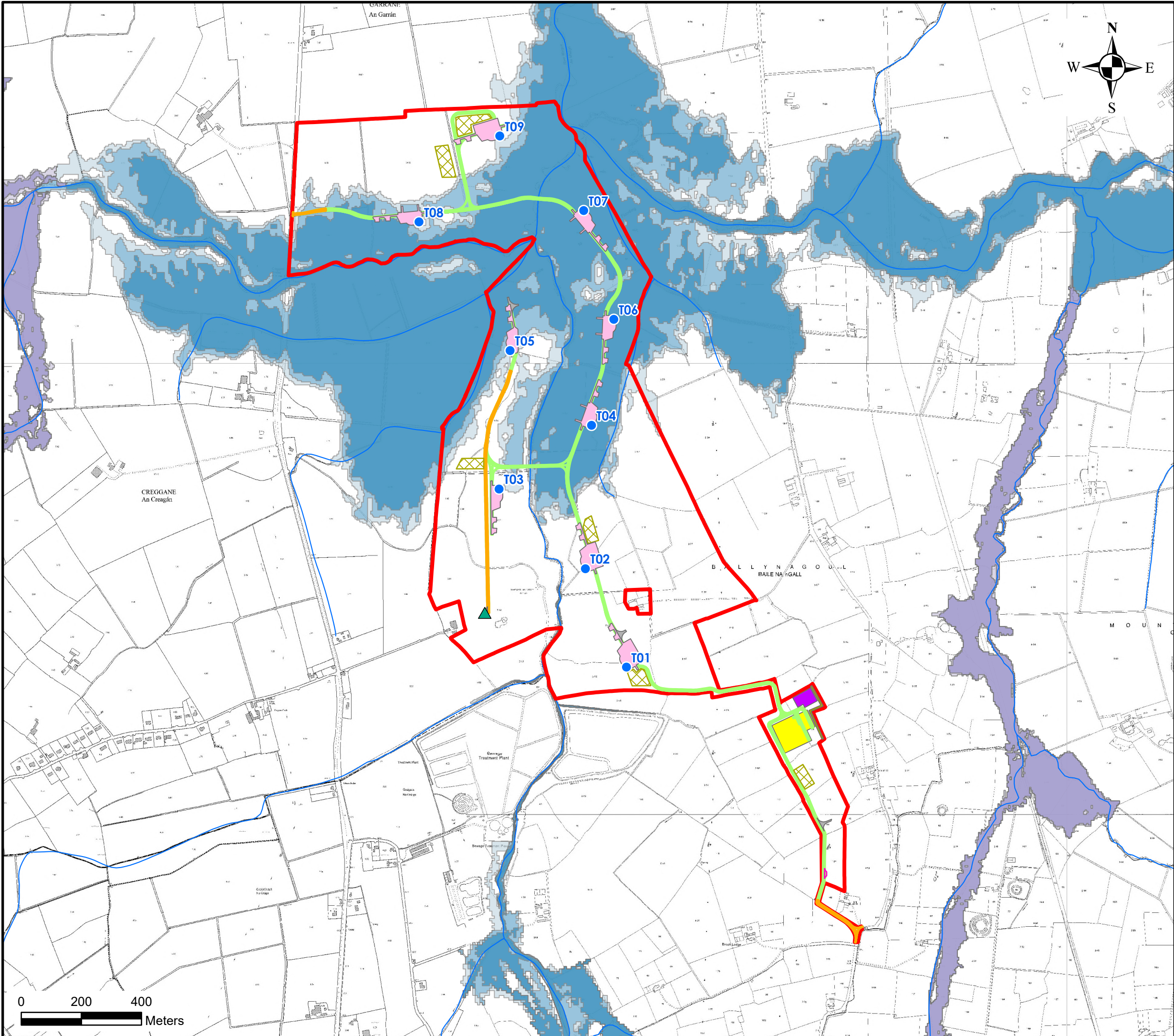
Job: Garrane Green Energy Project

Title: Existing Site Drainage Map

Figure No: 10-3

Drawing No: P1605-0-0825-A3-1003-00A

Sheet Size: A3	Project No: P1605-0
Scale: 1:10,000	Drawn By: GA
Date: 11/08/2025	Checked By: MG



Legend

- EIAR Site Boundary
- Proposed Turbine Layout
- Proposed Substation
- Site Compound
- Proposed Hardstands
- Proposed Met Mast
- Proposed New Tracks
- Existing Farm Tracks to be Modified
- Proposed Turning Heads
- Permanent Spoil Storage Area (Berm)
- Temporary Spoil Storage Locations
- Proposed Wheel Wash Area
- Watercourses

CFram River Flood Extents - Present Day

- 0.1% AEP (1 in 1000 yr) Flood Events
- 1% AEP (1 in 100 yr) Flood Events
- 10% AEP (1 in 10 yr) Flood Events

National Indicative Fluvial Mapping (NIFM) River Flood Extents - Present Day

- Low Probability
- Medium Probability



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Client: Garrane Green Energy Ltd.

Job: Garrane Green Energy Project

Title: CFram and NIFM Flood Map

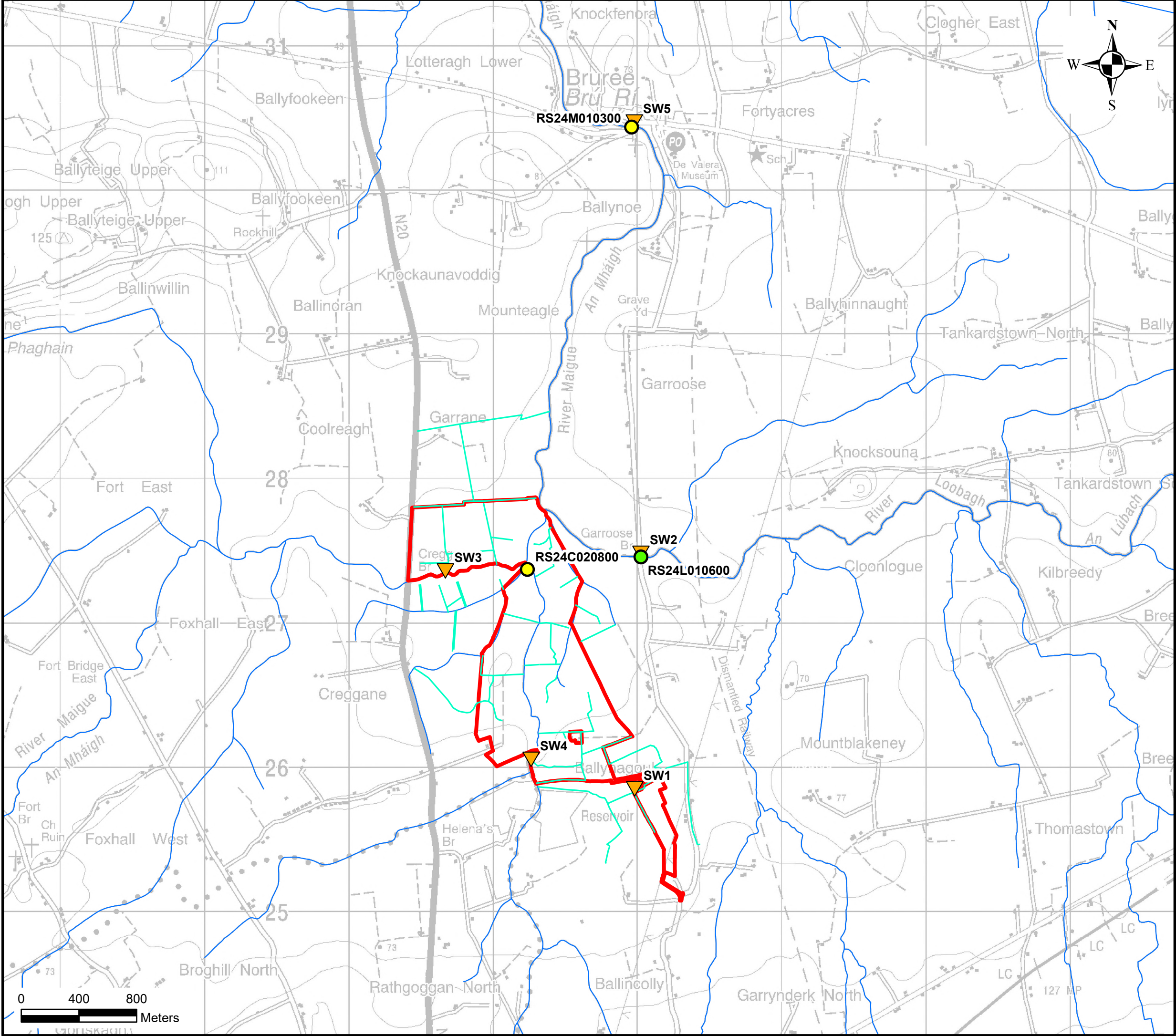
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Sheet Size: A3	Project No: P1605-0
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Scale: 1:12,000	Drawn By: GA
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Legend

- EIAR Site Boundary
- Watercourses
- Surface Water Sampling Locations

EPA Water Quality Monitoring Q-Rating Values

- Q4 (Good)
- Q3-4 (Moderate)
- Existing Drains



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Client: Garrane Green Energy Ltd.

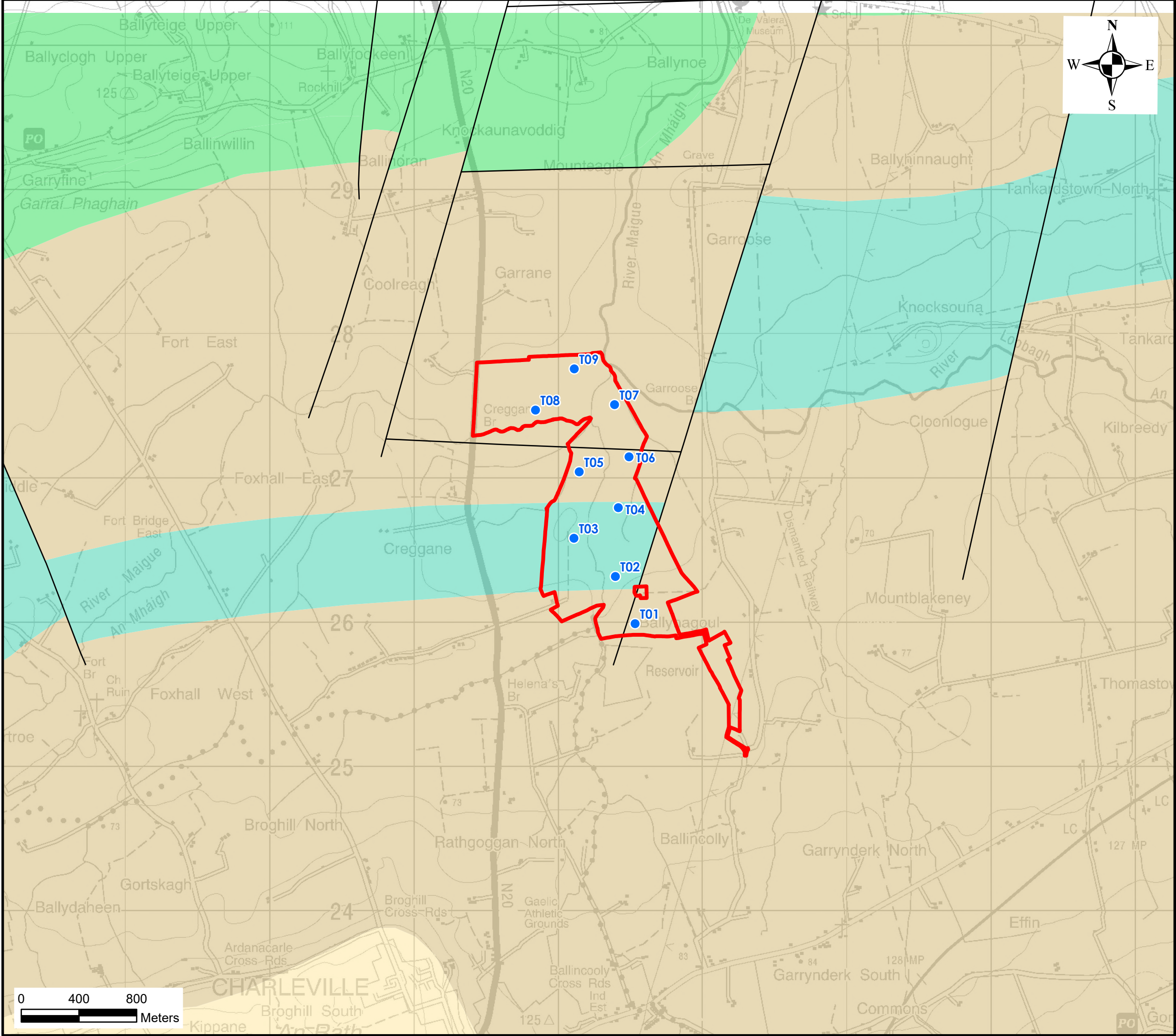
Job: Garrane Green Energy project

Title: EPA Monitoring and Surface Water
Sampling Locations Map

Figure No: 10-5

Drawing No: P1605-0-0825-A3-1005-00A

Sheet Size: A3	Project No: P1605-0
Scale: 1:25,000	Drawn By: GA
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Legend

- EIAR Site Boundary
- Proposed Turbine Layout
- Mapped Faults

Bedrock Aquifer

- Rkd - Regionally Important Aquifer - Karstified (diffuse)
- Rf - Regionally Important Aquifer - Fissured bedrock
- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- Pu - Poor Aquifer - Bedrock which is Generally Unproductive

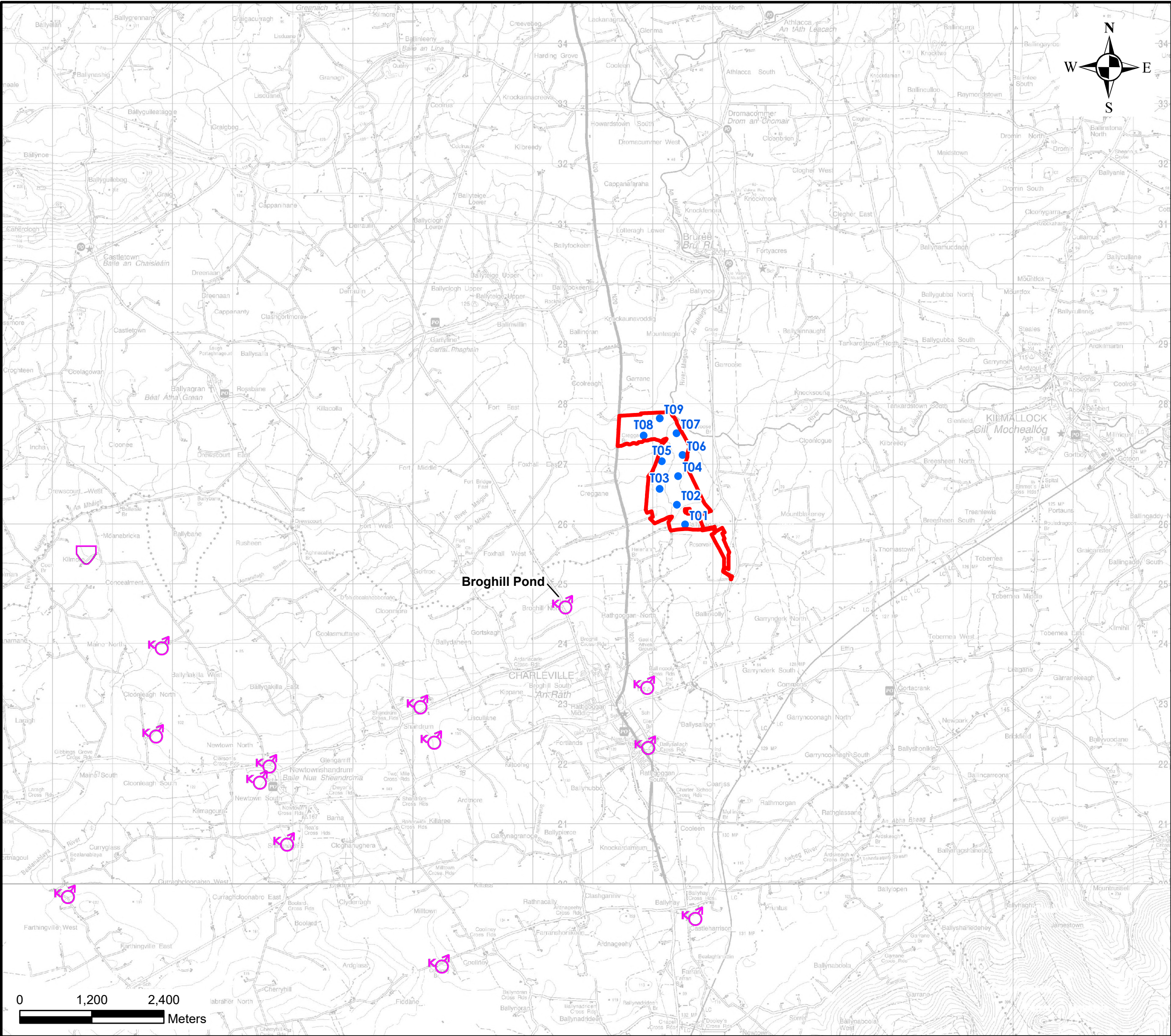


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Client: Garrane Green Energy Ltd.	
Job: Garrane Green Energy Project	
Title: Bedrock Aquifer Map	
Figure No: 10-6	
Drawing No: P1605-0-0825-A3-1006-00A	
Sheet Size: A3	Project No: P1605-0
Scale: 1:25,000	Drawn By: GA
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Legend

- EIAR Site Boundary
- Proposed Turbine Layout
- Karst Features**
- Cave
- Spring

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Client: Garrane Green Energy Ltd.

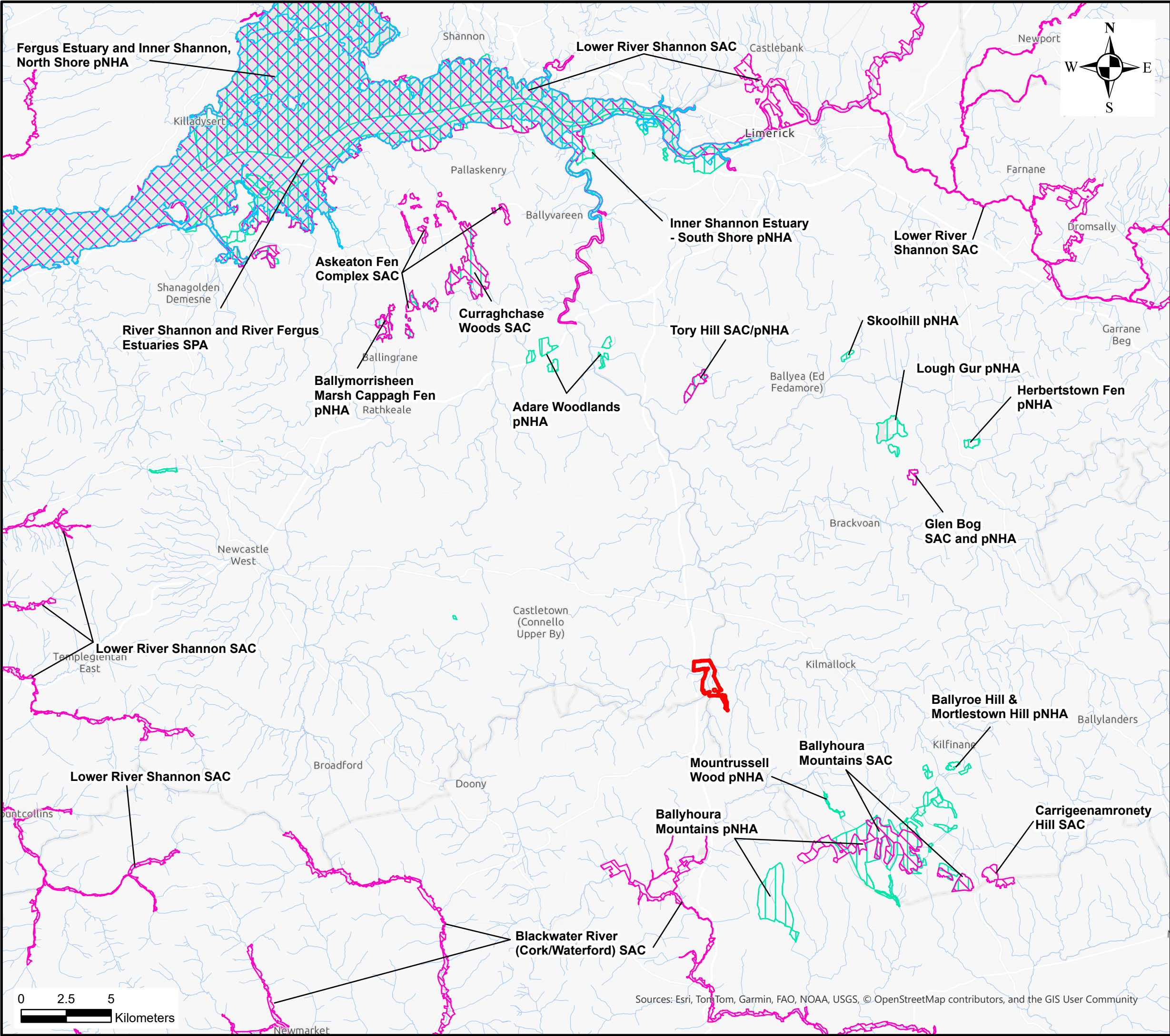
Job: Garrane Green Energy Project

Title: Local Karst Features Map

Figure No: 10-7

Drawing No: P1605-0-0825-A3-1007-00A

Sheet Size: A3	Project No: P1605-0
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Legend

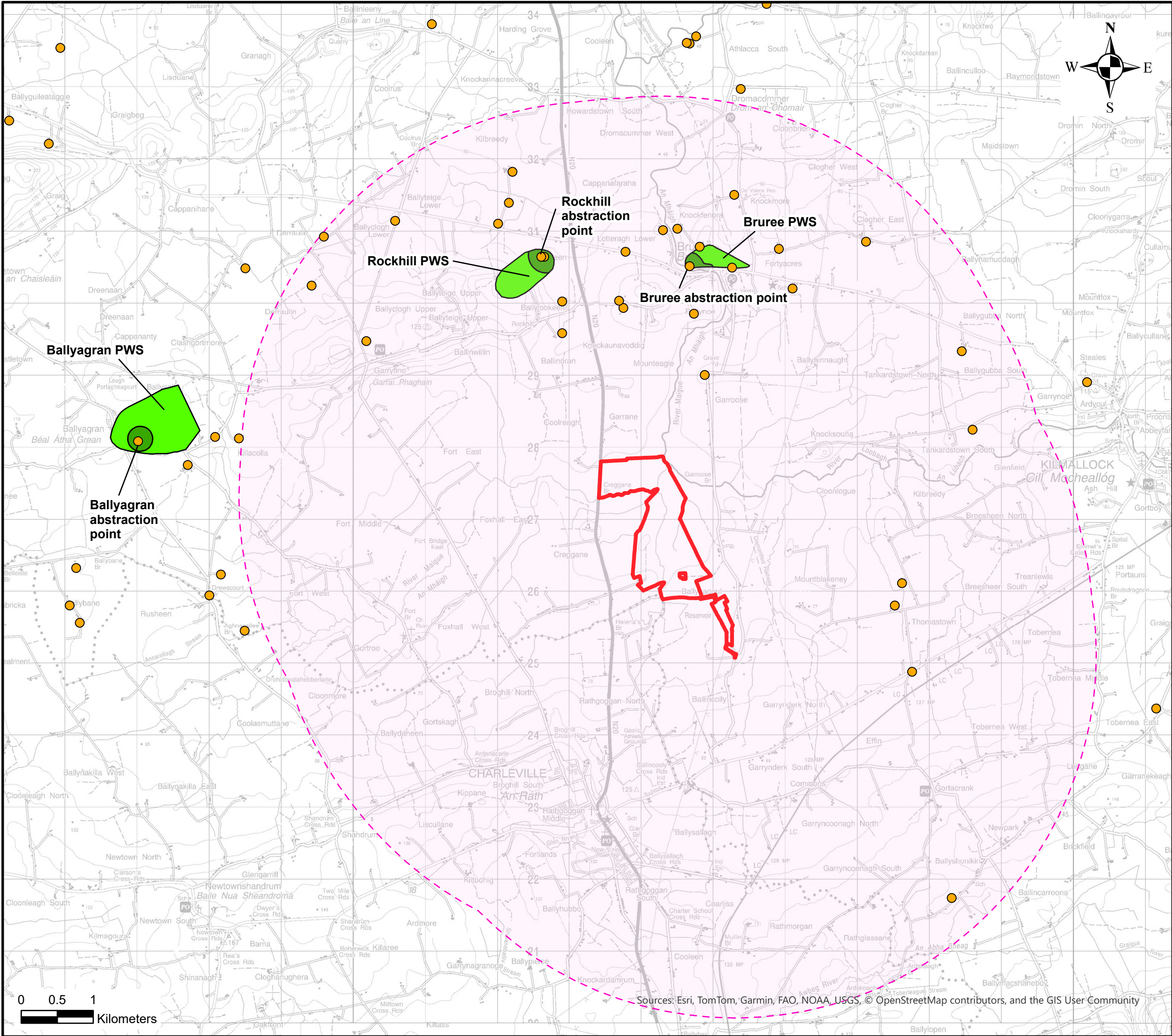
- EIAR Site Boundary
- Special Protection Areas (SPAs)
- Special Areas of Conservation (SACs)
- Proposed Natural Heritage Areas (pNHAs)
- Watercourses

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Client: Garrane Green Energy Ltd.	
Job: Garrane Green Energy Project	
Title: Designated Sites Map	
Figure No: 10-8	
Drawing No: P1605-0-0825-A3-1008-00A	
Sheet Size: A3	Project No: P1605-0
Scale: 1:200,000	Drawn By: GA
Date: 11/08/2025	Checked By: MG



Legend

- EIAR Site Boundary
- GSI Mapped Wells (accuracy 1-50m)
- Public Water Schemes**
 - SI-Inner Protection Area
 - SO-Outer Protection Area
 - Area of the UE data request_5km buffer of the site boundary



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Client: Garrane Green Energy Ltd.

Job: Garrane Green Energy Project

Title: Groundwater Resources Map

Figure No: 10-9

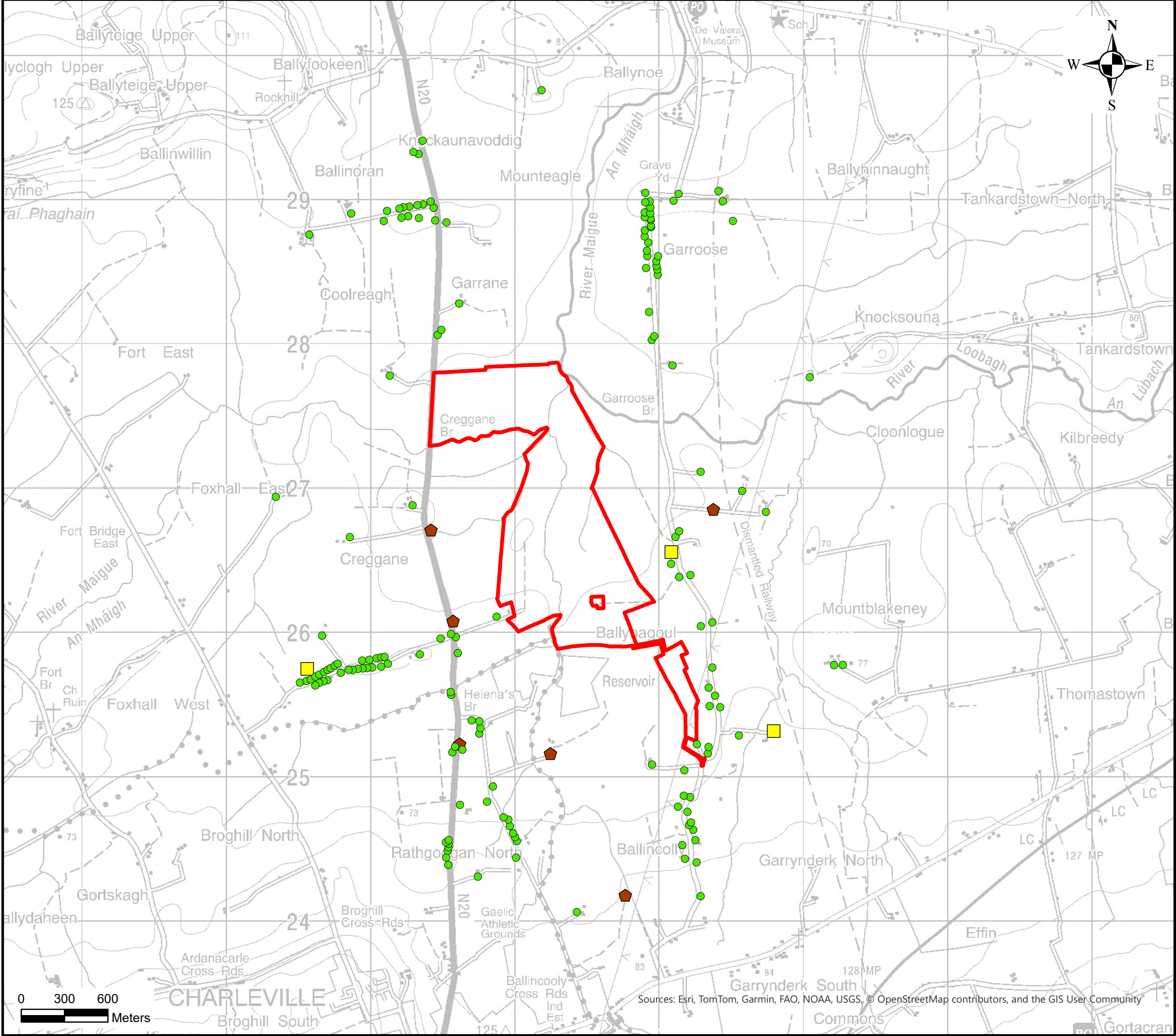
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- Legend
- EIA Site Boundary
- Sensitive Receptors
- Residential
 - Commercial
 - Derelict

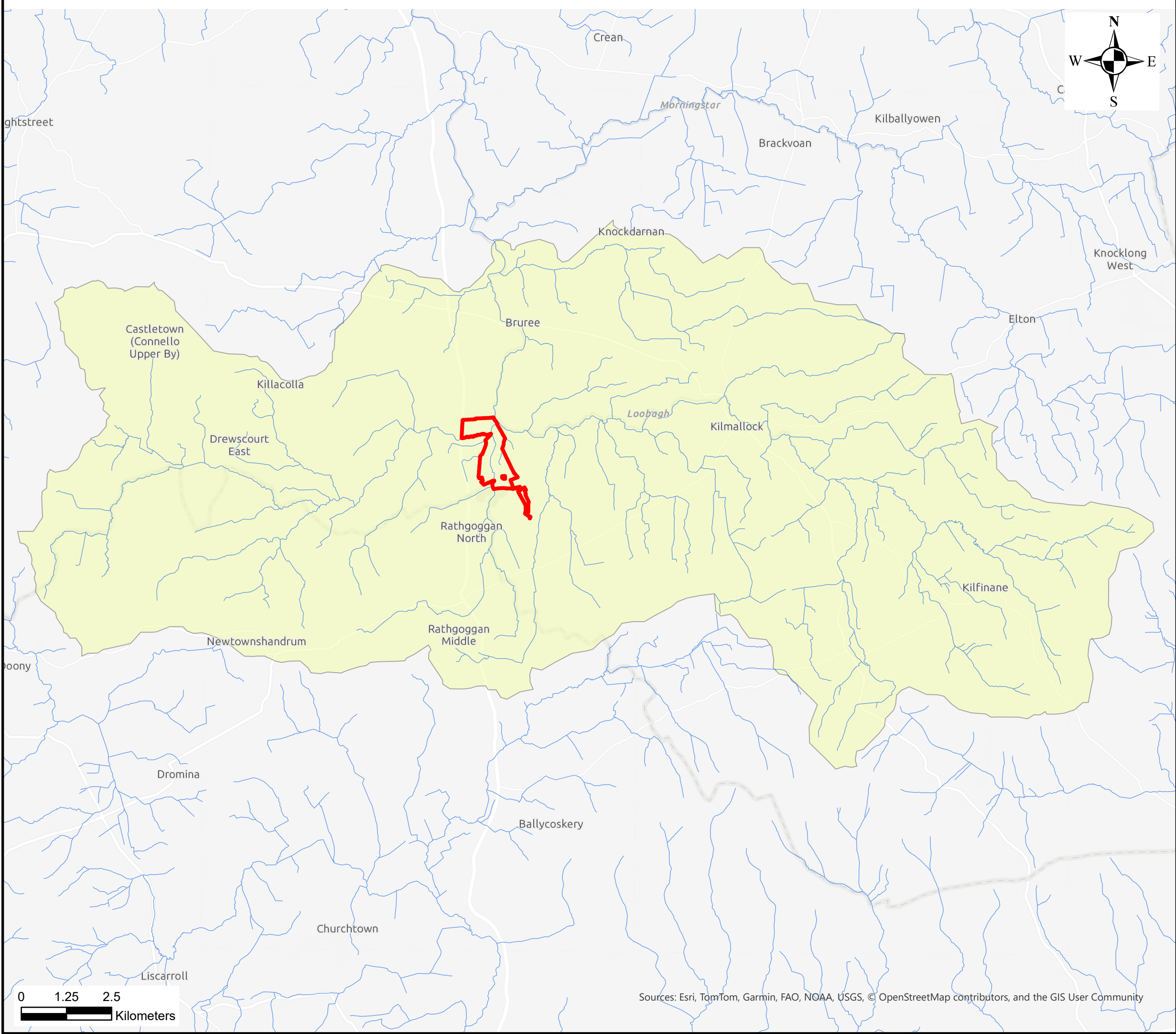


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Client: Garrane Green Energy Ltd.	
Job: Garrane Green Energy Project	
Title: Sensitive Receptors Map	
Figure No: 10-10	
Drawing No: P1605-0-0825-A3-1010-00A	
Sheet Size: A3	Project No: P1605-0
Scale: 1:25,000	Drawn By: GA
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Legend

- EIAR Site Boundary
- Cumulative Hydrological Study Area*
- Watercourses

***Note:**
Cumulative Hydrological Study Area is based on flow volumes obtained from the EPA Hydrotool Node 24_188 downstream of the site on the River Maigue.
There will be no potential for cumulative effects beyond this cumulative study area due to increases in flow volumes (as the catchment area increases) and increasing distance from the Project.

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Client: Garrane Green Energy Ltd.	
Job: Garrane Green Energy Project	
Title: Cumulative Hydrological Study Area	
Figure No: 10-11	
Drawing No: P1605-0-0825-A3-1011-00A	
Sheet Size: A3	Project No: P1605-0
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