



APPENDIX 4-5
**HARVEST MANAGEMENT
PLAN**

Slievegrine Renewable Energy Development Harvest Management Plan

Proposed Felling & Reforestation Methods	
Thinning (incl. CCF)	☒ N/A ☐ Harvester ☐ Chainsaw ☐ Forwarder ☐ Tractor/Quad ☐ Skyline ☐ Other (specify):
Clear-felling	☐ N/A ☒ Harvester ☒ Chainsaw ☒ Forwarder ☐ Tractor/Quad ☐ Skyline ☐ Other (specify):
Reforestation	☒ N/A ☐ Windrowing ☐ Pit planting ☐ Mounding ☐ Scrap mounding ☐ Scarification ☐ Other (specify):
Site access (i.e. via forest road)	☒ Present ☐ Planned ☐ Not required ☐ Other (e.g. temporary roading/forest track):

Social & Environmental Features & Considerations		
Social	Habitat & Biodiversity	Soil & Water
☐ Recreational usage	☐ Designated area (SAC, SPA, etc.)	☒ Aquatic zone(s) on/adjoining site
☐ Adjoining dwelling(s)	☐ Broadleaves/diverse conifers	☒ Relevant watercourse(s)
☒ Right(s)-of-way present	☒ Hedgerows	☐ Water-related 'hotspots'
☒ Utilities (power lines/water main)	☐ Old/veteran trees	☐ Water abstraction point
☐ Sensitive landscape	☐ Large scale deadwood	☐ Peaty or peaty/gley
☐ Important viewpoint(s)	☐ Badger sett, rookery, etc.	☐ Steep slope(s)
☐ Archaeological site(s) & feature(s)	☐ Protected fauna	☐ Water setback(s) present & intact
☐ Cultural feature(s)	☐ Protected flora	☐ Supply of brash limited
☐ Anti-social (dumping, fire, etc.)	☐ Wetland habitat	☐ Other:
☐ Other (specify):	☐ Other (specify):	☐ Other:

Proposed Measures to Protect Social & Environmental Features & Considerations	
☐ Consult with local residents	☐ Establish excl. zones around arch. sites/features
☒ Erect safety signage	☒ Temporary bridging points (TBPs) required
☒ Onsite briefing of all operators, pre-commencement	☐ Install water setback at refor.
☒ Carefully selected refuelling/repair/storage depot	☐ Install dwelling setback at refor.
☒ Measures to protect right(s)-of-way	☐ Install public road setback at refor.
☒ Measures to protect service features	☐ Install archaeological setback at refor.
☒ Measures to protect habitats & biodiversity features	☐ Install biodiversity setback at refor.
☒ Limit operations to dry weather	☐ Install landscape setback at refor.
☒ Daily visual monitoring of ground conditions	☐ Inclusion of Refor. Objective 'CCF'
☒ Daily visual monitoring of water	☐ Inclusion of Refor. Objective 'BIO'

Proposed Measures to Protect Social & Environmental Features & Considerations (Cont..)

☒ Water sampling	☐ Forest edge planting
☒ Install silt traps/barriers	☐ Environmental setback planting
☒ Drain blocking/slow-water dams	☐ Other (specify)
☒ Utilise brush mats along extraction routes	☐ Other (specify)
☒ Exclude machinery in areas adjoining aquatic zones, water abstraction points & water-related 'hotspots'	☐ Other (specify)

Ancillary Information (include relevant information to expand on above & to detail important aspects such as the sequencing of operations, the width of environmental setbacks & contingency planning. Ensure accurate cross-referencing and consistency with maps) *

Harvesting and Extraction

Harvesting and extraction will be carried out during suitable dry weather conditions to minimise soil compaction and track rutting. All operations will be suspended during periods of prolonged or heavy rainfall to reduce the risk of sediment mobilisation and surface runoff.

Proposed machinery will comprise a harvester and a low-ground pressure forwarder with a 14-tonne bunk capacity. Prior to the commencement of felling operations, all operators will be fully briefed on the Harvest Management Plan, including operational procedures, potential hazards, environmental sensitivities, and the associated protection measures to be implemented on site. Advance notice and safety signage will be erected prior to harvesting, and harvest boundaries will be clearly marked before operations begin.

Felling operations will be planned to avoid contact with the utility infrastructure, with consideration given to the direction of tree fall, machine positioning, harvesting equipment reach and prevailing weather conditions. Appropriate clearance will be maintained, and the felling method will be adjusted where necessary to ensure the safety of personnel, machinery and the utility infrastructure. All works will be undertaken by suitably trained and competent personnel in accordance with relevant Health and Safety Authority forestry guidance.

Felling will be undertaken from existing access where possible, using the reach of the harvester to avoid crossings. If crossing of a watercourse is required to safely complete operations, temporary bridging or other appropriate crossing measures will be installed. Brush mats will be used along all extraction routes to minimise ground disturbance, with corduroy rafts deployed where required to reinforce short sections of soft ground subject to higher traffic levels. Extraction routes are illustrated by red arrows on the Harvest Plan Maps. Felled timber will be stacked in a controlled manner to prevent contamination of watercourses with organic-rich leachate from cut material. Refuelling and maintenance of machinery will take place on dry, stable ground at least 50 m from aquatic zones and at least 20 m from relevant watercourses.

Sediment traps will be installed at strategic locations before harvesting commences and will be monitored and maintained throughout felling, extraction, and periodically thereafter until the site stabilises. Existing drains will be incorporated and enhanced where necessary and will integrate with the wind farm drainage system. Where unmapped drains are identified during harvesting operations, particularly those that connect directly or indirectly to aquatic zones or watercourses, appropriate mitigation measures will be implemented immediately. This will include the installation of temporary sediment traps, silt fencing, or equivalent control measures at or downstream of the point of discovery, to prevent sediment mobilisation and transport to aquatic receptors. Protective buffers will be

maintained around aquatic zones (20 m, 10 m either side) and relevant watercourses (10 m, 5 m either side). Machine traffic and timber stacking will be avoided within these areas wherever possible.

On-site supervision will be present during operations to ensure that felling and extraction are carried out appropriately and that water protection measures are adequate and remain effective throughout, and to trigger contingency measures, if necessary (e.g., to cease operations if rainfall creates a risk of sediment mobilisation and runoff). All staff must always wear high-visibility jackets and hard hats. All felling and harvesting operations to comply with the *Forest Harvesting and the Environment Guidelines* and *Forestry and Water Quality Guidelines*.

Site Access

The harvesting areas will be accessed using a combination of existing roads, forest roads and proposed wind farm roads, which connect to the public road network via the L-6085, L-2024, L-2023 and L-6082. Timber will be extracted from the harvesting areas to designated stacking areas and subsequently transported along the established public road network to the relevant timber destinations. All site access and timber haulage operations will be managed to minimise disruption to local road users and to prevent mud, soil or debris being carried onto public roads.

Harvest Management Plan Overview Slievegrine Renewable Energy Development

Legend

Site of FL Application

A

Site Access Point

Public Roads

Existing Roads

Wind Farm Access Roads

Timber Extraction Direction

Aquatic Zone (AZ) (Stream or River)

+

Archaeology

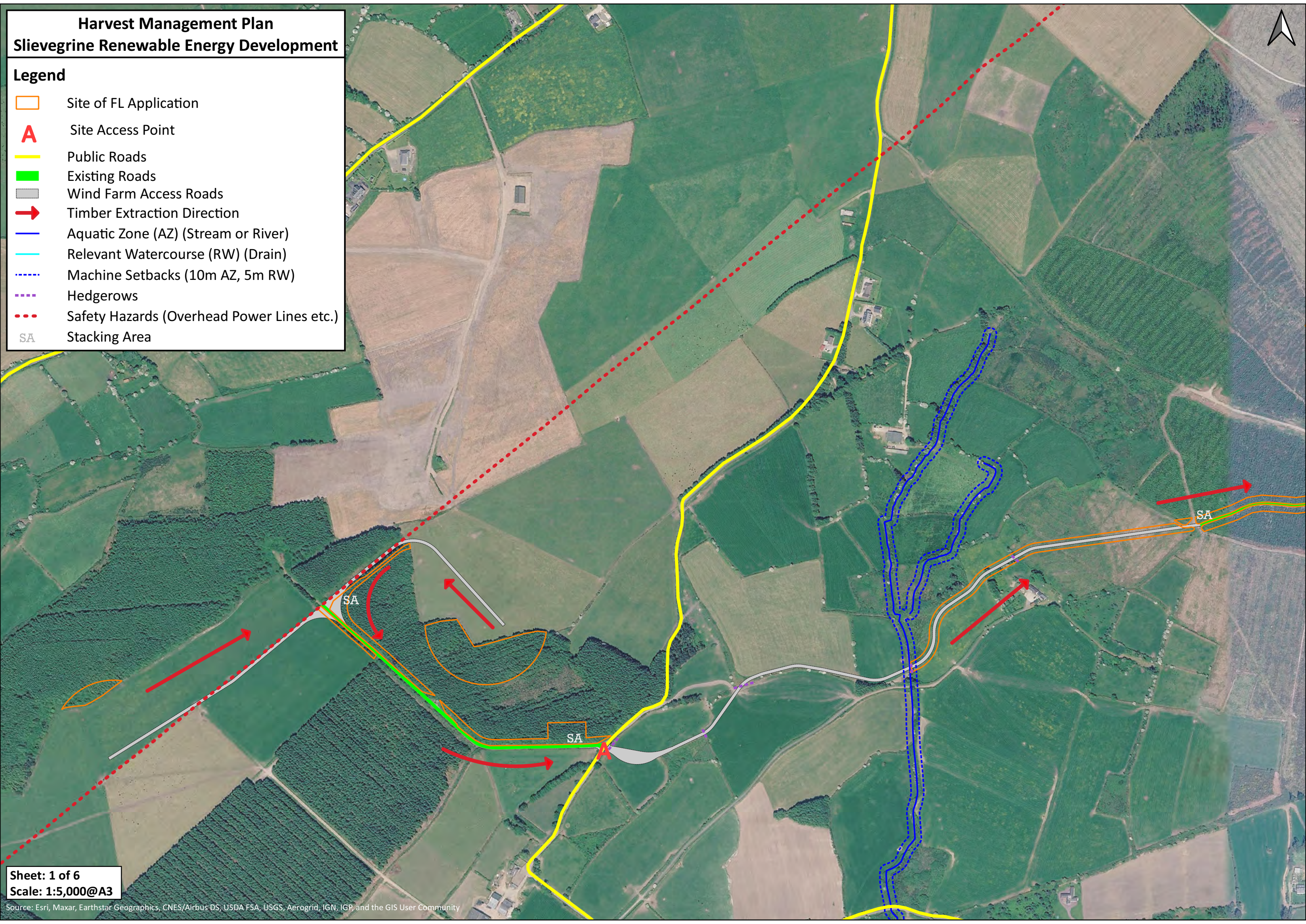
Safety Hazards (Overhead Power Lines etc.)

SAC

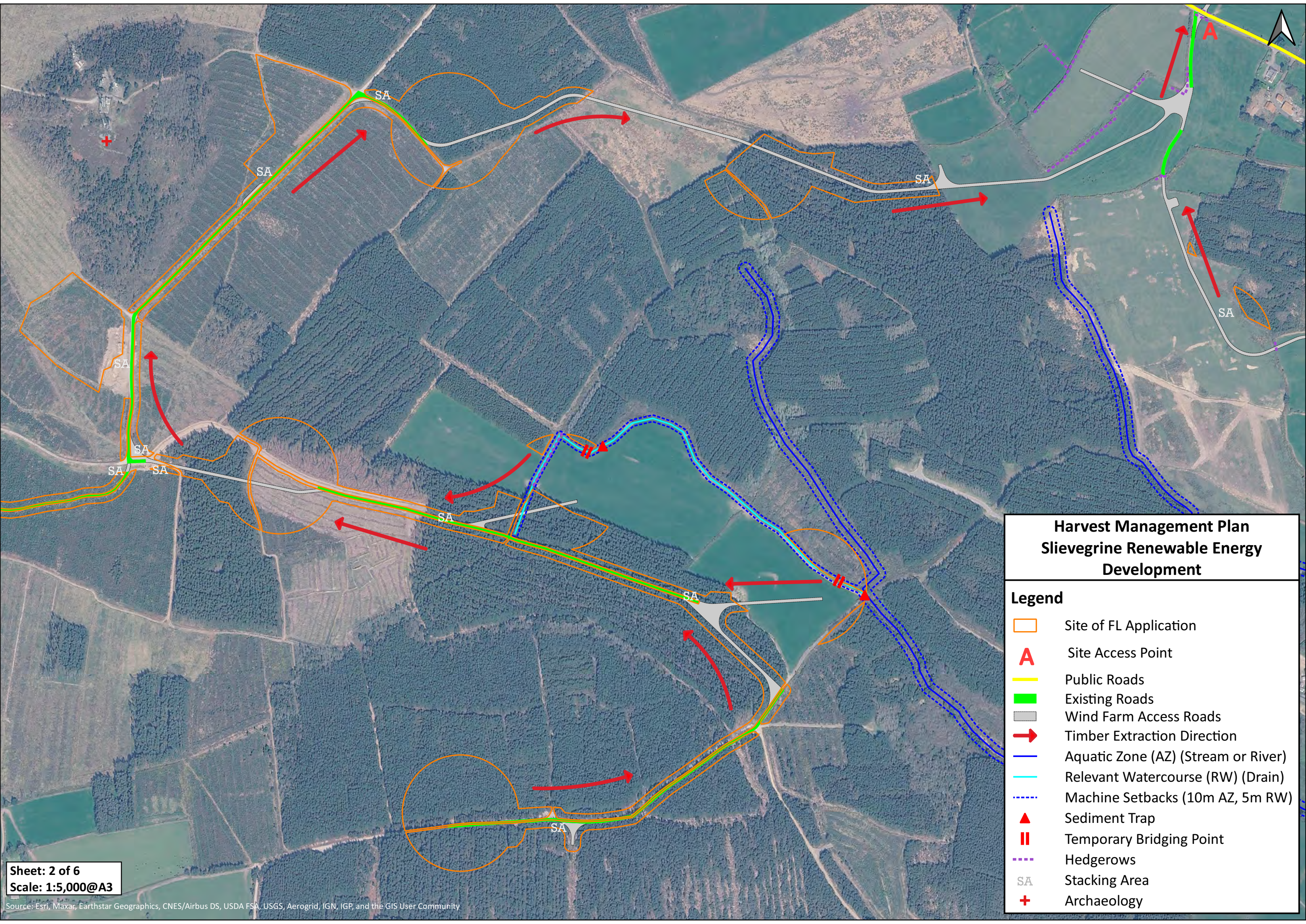
Harvest Management Plan
Slievegrine Renewable Energy Development

Legend

- Site of FL Application
- Site Access Point
- Public Roads
- Existing Roads
- Wind Farm Access Roads
- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Relevant Watercourse (RW) (Drain)
- Machine Setbacks (10m AZ, 5m RW)
- Hedgerows
- Safety Hazards (Overhead Power Lines etc.)
- SA
Stacking Area



Source: Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, Aerogrid, IGN, IGP, and the GIS User Community



**Harvest Management Plan
Slievegrine Renewable Energy
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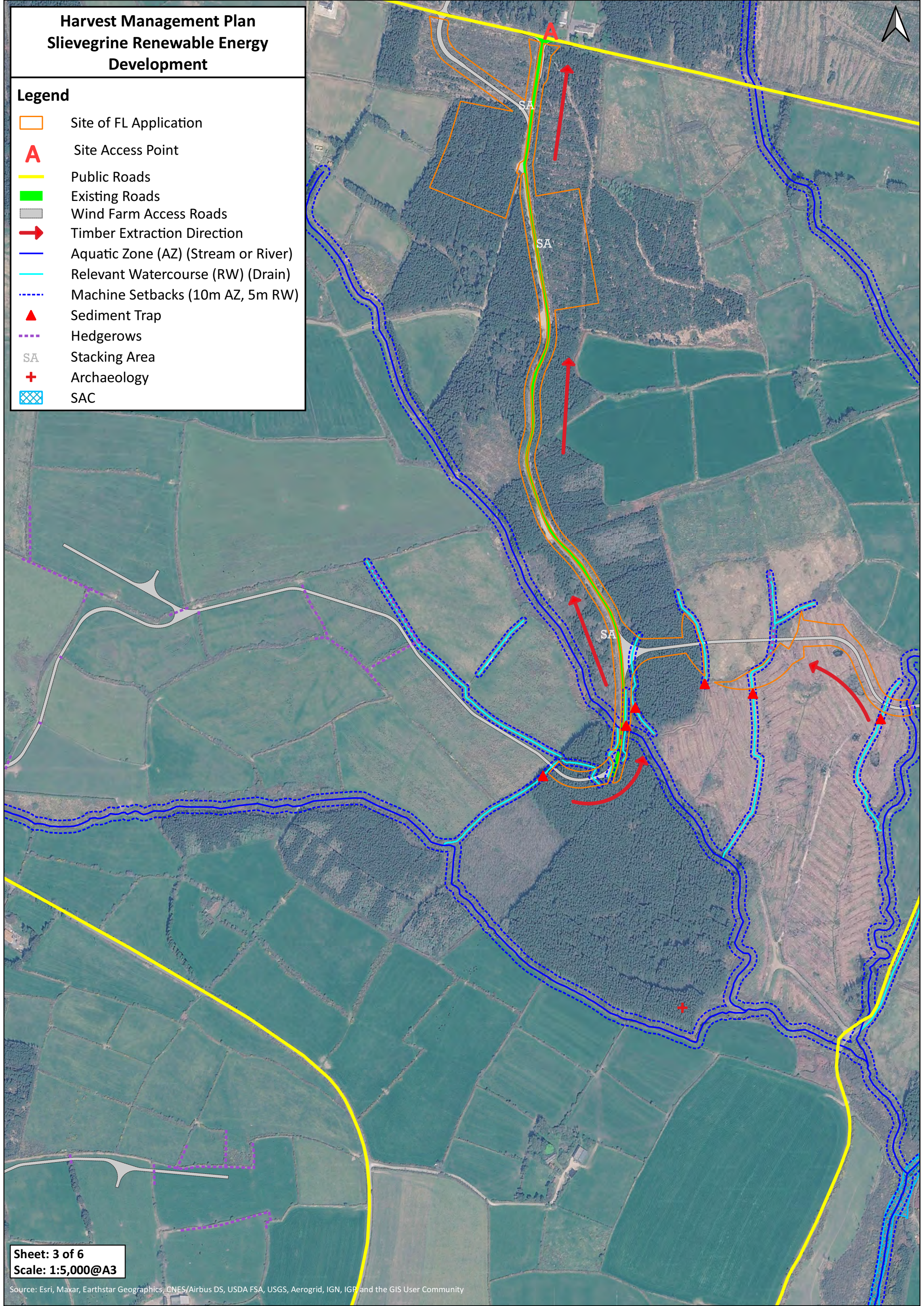
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- Sediment Trap
- Temporary Bridging Point
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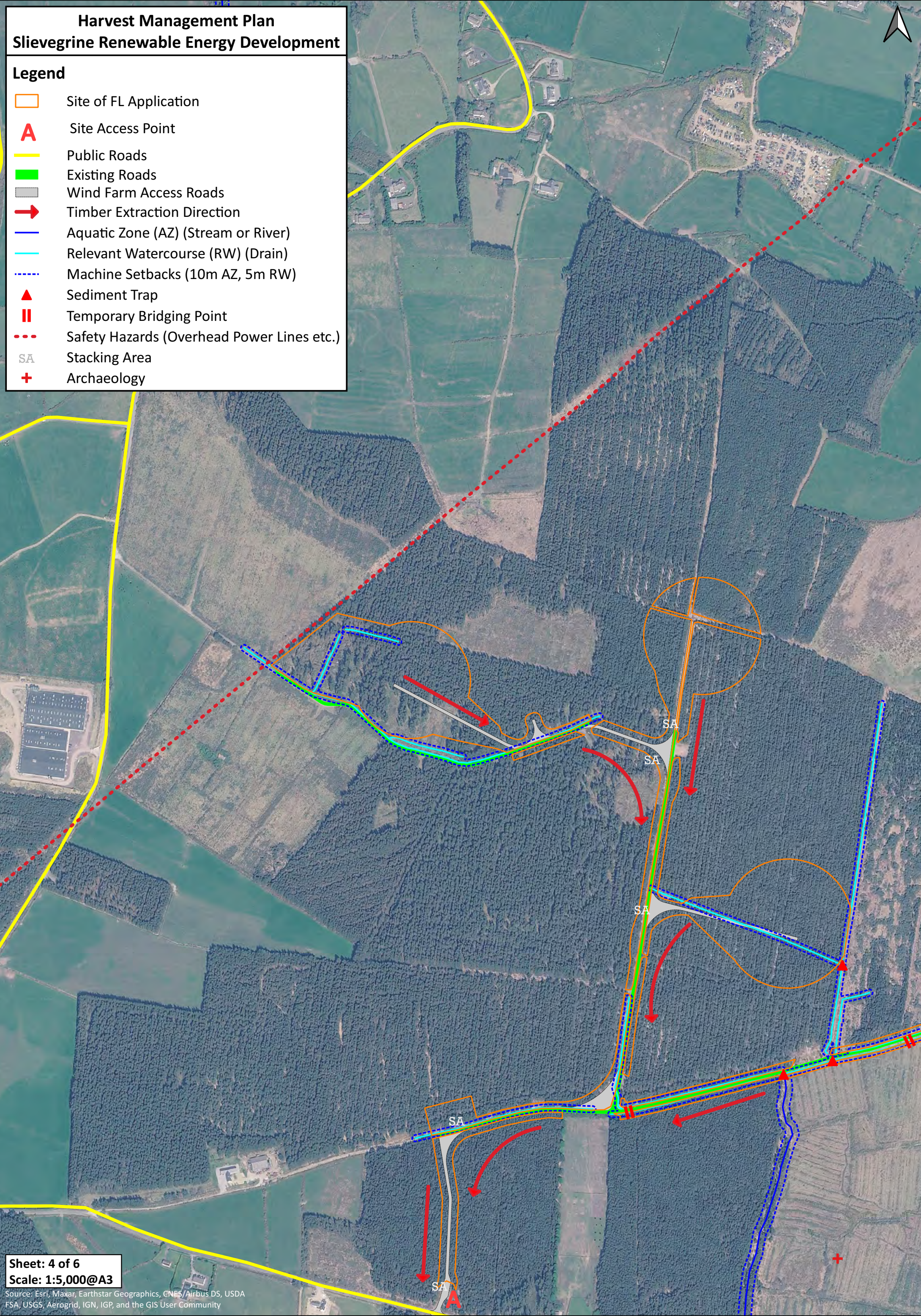
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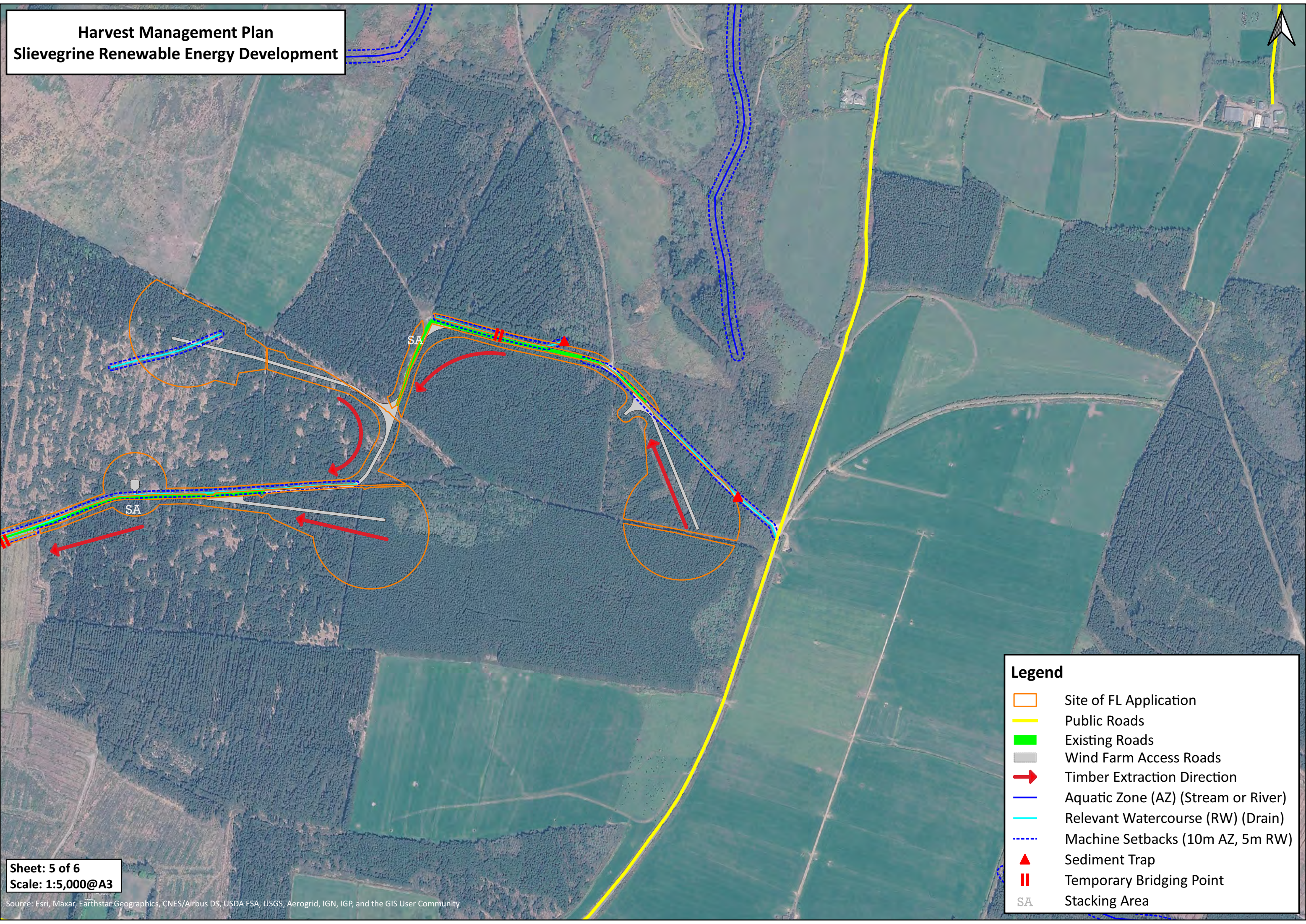
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- + Archaeology



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Legend

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Relevant Watercourse (RW) (Drain)

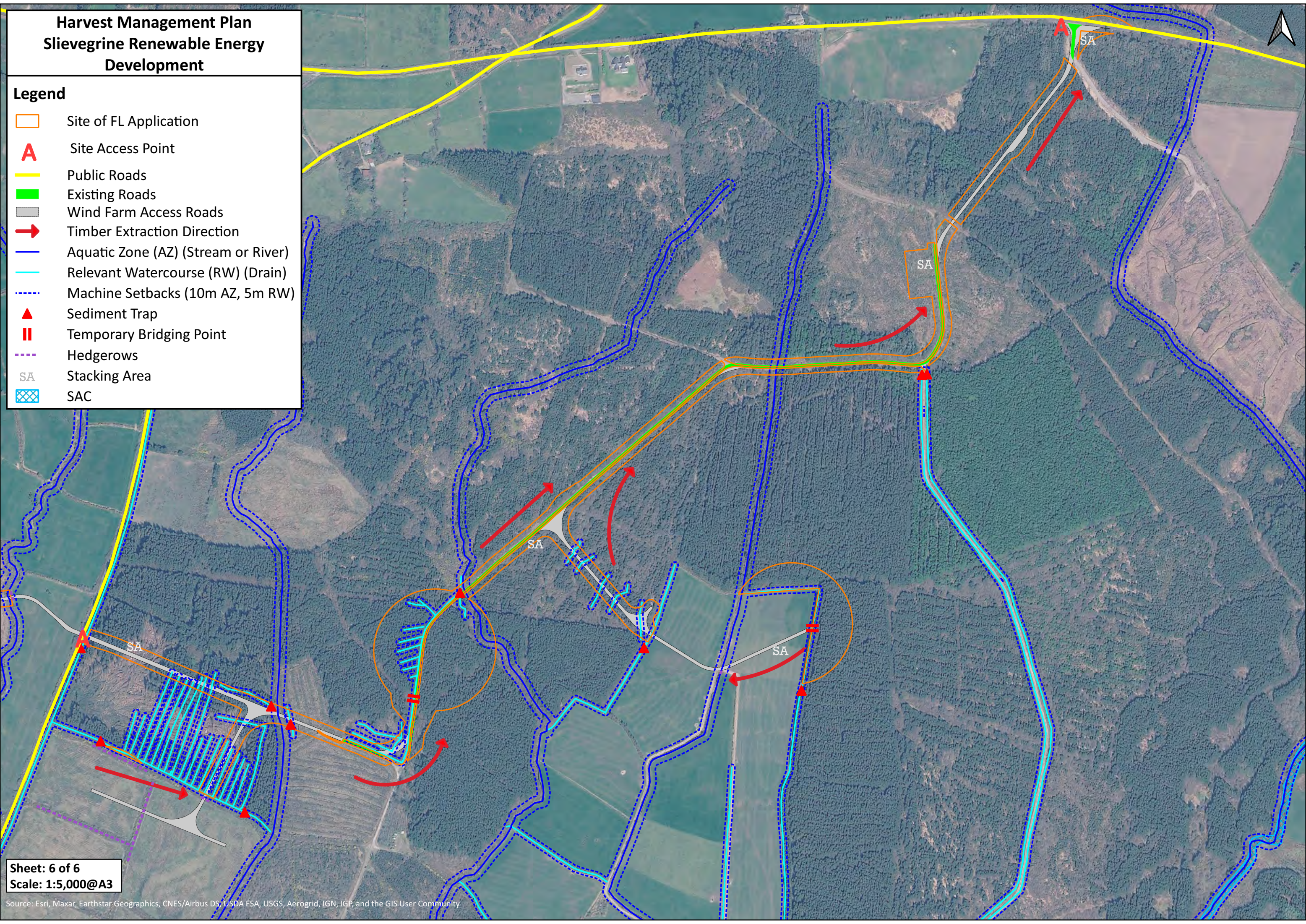
Machine Setbacks (10m AZ, 5m RW)

Sediment Trap

Temporary Bridging Point

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