APPENDIX 4-2

HARVEST MANAGEMENT PLAN

Borrisbeg 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 brash 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

Harvesting and extraction to be carried out during periods of dry weather to reduce soil compaction and rutting of tracks. All harvesting activities will be suspended during periods of prolonged rainfall or high rainfall.
Proposed machinery will comprise a harvester and a low-ground pressure forwarder with a 14-tonne bunk capacity. Before commencement of felling, and as per IForUT and Woodland policy, all operators will be fully briefed of the harvest plan including potential hazards and environmental sensitivities and corresponding protective measures on site. Advance notice signage will be erected at least 7 days before harvesting commences. Safety signage will be erected before harvesting commences and harvest boundaries will be marked prior to operations commencing.

Brash mats will be used along all extraction routes, with corduroy rafts deployed to reinforce short sections of soft ground subject to high traffic usage. The extraction directions are marked with red arrows on the Harvest Plan Map. Particular attention will be paid to minimizing disturbance to ground surfaces, drains /streams, and biodiversity features. Brash, logs or debris will not be allowed enter the aquatic zones and relevant watercourses. Felled tree to be stacked in a responsible manner to prevent contamination of watercourses with organic rich leachate exuding from cuttings.

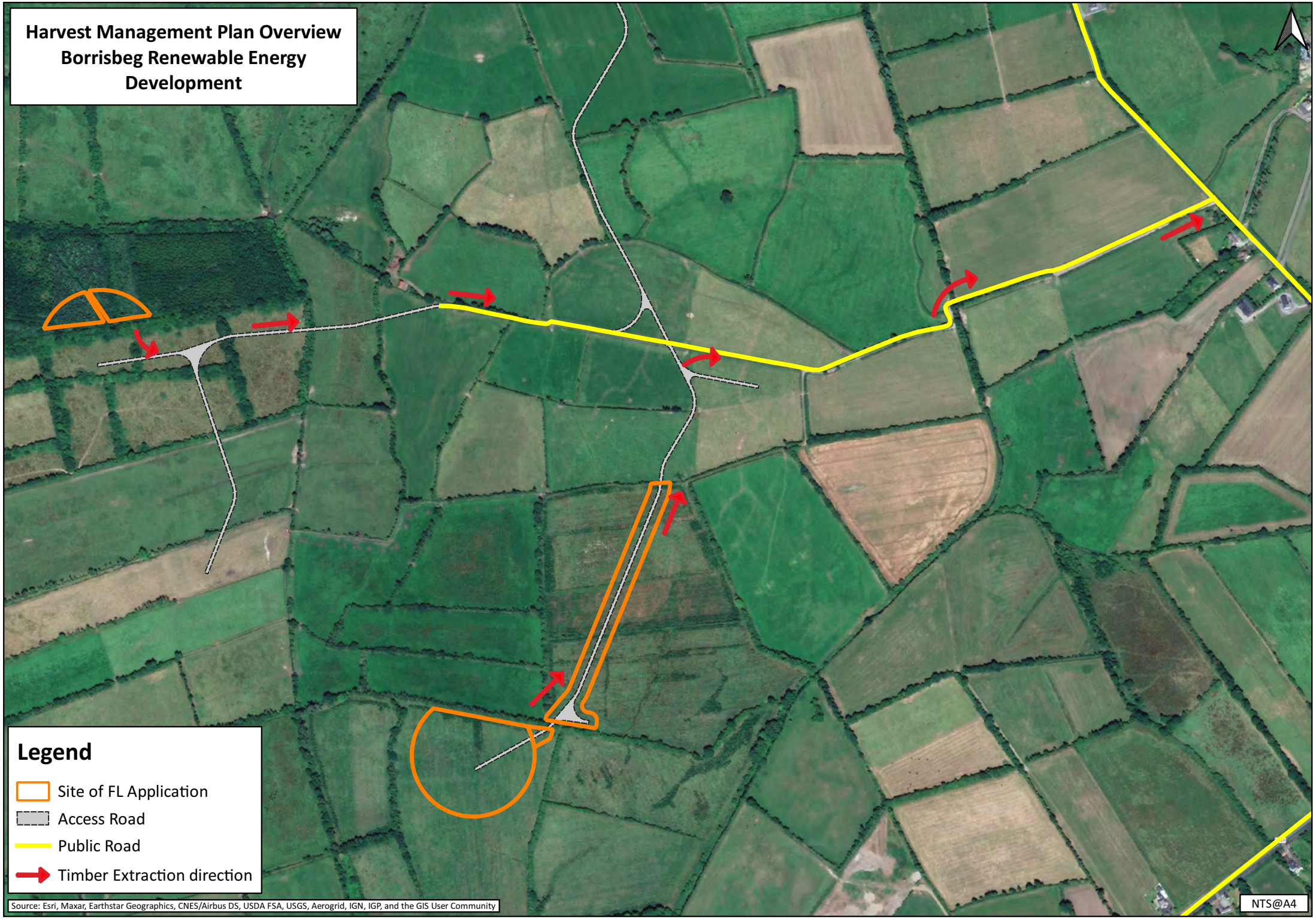
Sediment traps will be installed within relevant watercourses before harvesting commences, at strategic locations identified on the ground. Sediment traps will be monitored and maintained (i.e., cleaned out and/or added to, as appropriate) throughout felling, extraction, and periodically thereafter, until the site stabilises. There will be a 20m buffer around aquatic zones (10m either side) and 10m buffer around relevant watercourses (5m either side) identified in maps.

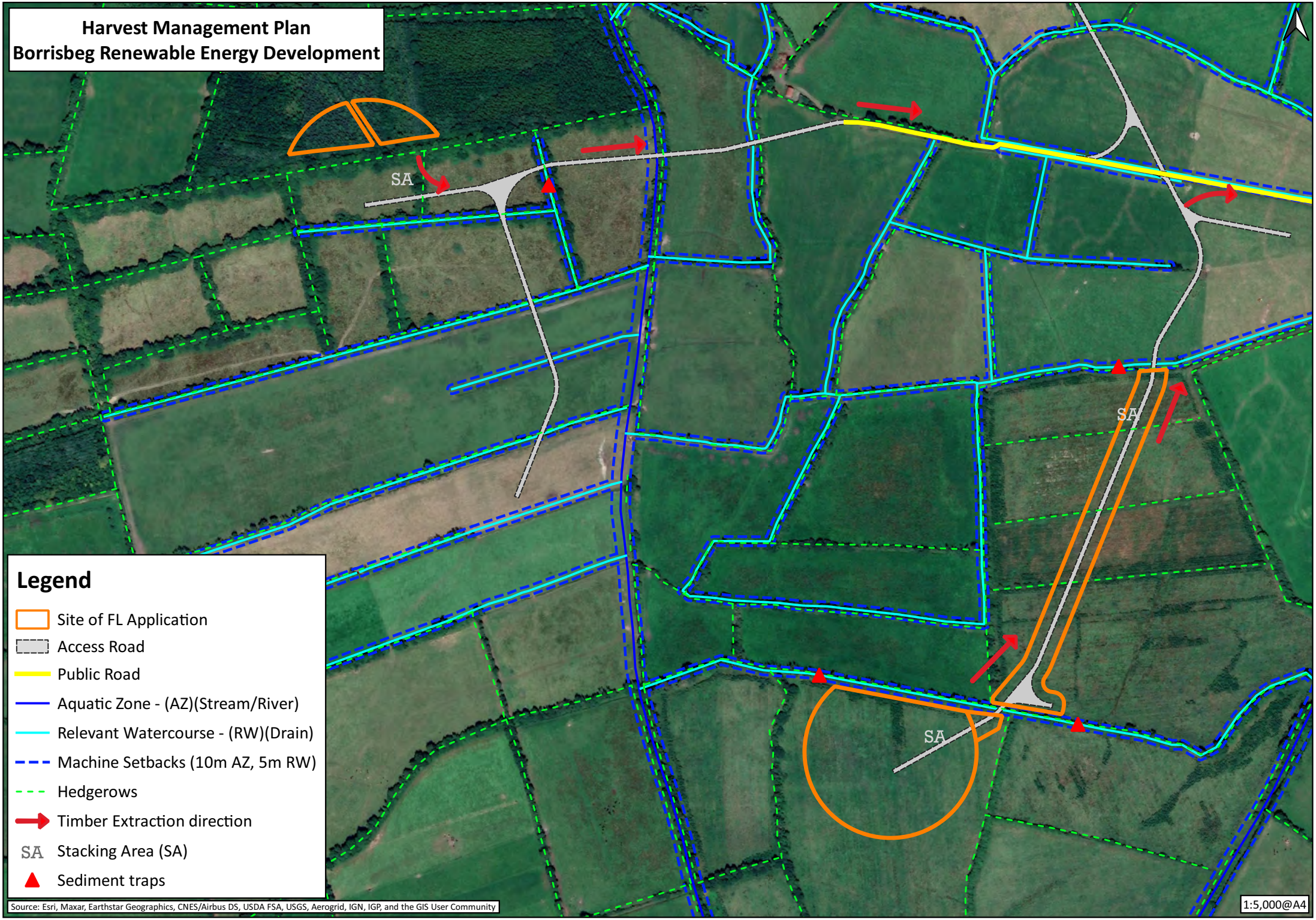
Onsite supervision will be present during operations to ensure that felling and extraction are carried out appropriately and that water protection measures are adequate and remain effective throughout, and to trigger contingency measures, if necessary (e.g., to cease operations if rainfall creates a risk of sediment mobilisation and runoff). All staff must always wear high visibility jacket and hard hat. All personnel on site must have appropriate Health and Safety training.

Access to site - The roads planned for the wind farm will be used for access and haulage purpose. Timber will follow extraction arrows, leaving site along L-70391-0.

All felling/harvesting operations to comply with the *Forest Harvesting and the Environment Guidelines* and *Forestry and Water Quality Guidelines.*

Harvest Management Plan Overview Borrisbeg Renewable Energy Development




Harvest Management Plan
Borrisbeg Renewable Energy Development
SA
SA
SA
Legend
Site of FL Application
Access Road
Public Road
Aquatic Zone - (AZ)(Stream/River)
Relevant Watercourse - (RW)(Drain)
Machine Setbacks (10m AZ, 5m RW)
Hedgerows
Timber Extraction direction
SA Stacking Area (SA)
Sediment traps
Source: Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, Aerogrid, IGN, IGP, and the GIS User Community
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