



APPENDIX 4-4

HARVEST MANAGEMENT PLAN

Umma More Renewable Energy Development Harvest Management Plan

Proposed Felling & Reforestation Methods					
Thinning (incl.	N/A	larvester	nsaw 🗌 Forwar	der Tractor/Quad Skyline	
Clearfelling	□ N/A ☑ F	larvester	nsaw 🔀 Forwar	der	
Reforestation	N/A Windrowing □ Pit planting □ Mounding □ Scrap mounding □ Scarification □ Other (specify):				
Site access (i.e. via forest road)	Present Other (e.g. to	☐ Pla emporary roading/fo	anned rest track):	☐ Not required	
Social & Environmental Features & Considerations					
Social		Habitat & Biodiversity		Soil & Water	
Recreational usage		Designated area	ea (SAC, SPA, etc.) Aquatic zone(s) on/adjoining site		
Adjoining dwelling(s)		☐ Broadleaves/diverse conifers		Relevant watercourse(s)	
Right(s)-of-way present				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		
			☐ 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. All harvesting personnel will be made aware of details of the harvest plan, any environmental issues, and boundary lines and buffer zones.

Temporary bridges will be used where machine routes cross relevant watercourses (see Temporary Bridge Points 'TBP' on the attached Harvest Plan Map). In addition, 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. Felled tree storage area should be kept at least 15m back from any forestry drains 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. All harvesting operations to comply with the *Forest Harvesting and the Environment Guidelines* and *Forestry and Water Quality Guidelines*.

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 wind farm used for access and haulage. Timber will follow extraction arrows, leaving site along L-5363-0.

All felling/harvesting on site will be carried out following the *Forest Harvesting & the Environment Guidelines* and *Forestry & Water Quality Guidelines*.



