



**An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhríochta**
Department of Housing,
Local Government and Heritage

Wicklow Framework Subsite WK27 Wicklow Mountains SAC - Restoration Works

Phase 1

Preliminary Health & Safety Plan



**An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhre**
Department of Housing,
Local Government and Heritage

DOCUMENT CONTROL SHEET

Client	NPWS					
Project Title	Wicklow Framework Subsite WK27, Wicklow Mountains SAC - Restoration Works Phase 1					
Document Title	Preliminary Health & Safety Plan					
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This Preliminary Health and Safety Plan has been prepared in accordance with Article 12 of the Safety, Health and Welfare at Work (Construction) Regulations 2013.

This document has been prepared for the purpose of providing information for the Project Supervisor Design Process as a basis for the completion of a Preliminary Health and Safety Plan.

All relevant documentation must be passed on to the Client upon completion of the project.

1.0 GENERAL DESCRIPTION OF PROJECT: -

The works to be carried out under this contract involves the construction of peat dams, construction of stone dams and the construction of Timber Sediment Traps/Leaky Dams at Subsite WK27 Wicklow Mountains SAC. The scope of works is described as but are not limited to, the following –

- Construction of peat dams within existing drains of varying widths and depths.
- Construction of Stone dams.
- Construction of Timber Sediment Traps/Leaky Dams.
- Erection of Warning Signs cautioning of danger due to deep water.
- Temporary welfare facilities for the Contractors staff and workers.
- Everything necessary for the proper storage of materials including sheds, fencing, racks etc.
- All tanks and sheds for the storage of fuel.
- Due to the constrained access and conservation status of the site, elements of the works will rely on aerial delivery of materials rather than conventional plant-based transport.

The proposed site is situated within the in the Wicklow Mountains Special Area of Conservation (SAC), which is part of the Wicklow Mountains National Park (WMNP). The WMNP covers an area of 20,000 ha and most of the Park is designated as a SAC and Special Protection Area (SPA) under the European Union (EU) Habitats and Birds Directives respectively.

2.0 PROJECT DETAILS: -

- | | | |
|------------|---|---|
| 2.1 | <i>Exact address of the construction site:</i> | Ballynabrocky (Subsite WK27)
Wicklow Mountain SAC,
Blessington
Co. Wicklow |
| 2.2 | <i>Client(s) names(s) and address(es):</i> | Minister for Housing, Local Government
and Heritage,
Custom House,
Dublin,
D01 W6X0. |
| 2.3 | <i>Name(s), address(es), and where appropriate, telephone number(s) of: -</i> | |

Project Supervisor for Design Process: - Bord Na Móna plc.

Contact name for the Project Supervisor for the Design Process, where appropriate: Oliver McGlinchey

2.4 *Names of other designers involved in the project (companies).* N/A

2.5 *Date on which this Draft Preliminary Health & Safety Plan was prepared* 21/04/2026

3.0 ESTIMATED TIMESCALE OF PROJECT: -

3.1 *Intended Contract Commencement date:* August 2026

3.2 *Intended Contract Completion date:* November 2026

3.3 *Planned Duration of work on the construction site:* 16 Weeks

Note: The intended commencement and completion dates advised above are provisional, pending confirmation by the Project Supervisor (Construction Stage) that they are practicable. The Main Contractor is to be appointed PSCS.

4.0 DRAWINGS/SPECIFICATIONS: -

Contract Drawings and a Specification have been prepared for the works by the Bord na Mona's Civil Engineering Department. These will form part of the Preliminary Health and Safety Plan and are listed hereunder:

- NPWS-BBRP-02-01 Site Location Map WK27 (1:50000@A3)
- NPWS-BBRP-02-01 Subsite Restoration Zones WK27 (1:7000@A3)
- NPWS-BBRP-02-03 Drainage Map WK27 (1:7000@A3)
- NPWS-BBRP-02-04 Restoration Plan WK27 (1:7000@A3)
- NPWS-BBRP-02-05 Restoration Plan Area WK27 A (1:3000@A3)
- NPWS-BBRP-02-06 Restoration Plan Area WK27 B (1:2000@A3)
- NPWS-BBRP-02-07 Restoration Plan Area WK27 C (1:2500@A3)
- NPWS-BBRP-02-08 Restoration Plan Area WK27 D (1:2500@A3)
- NPWS-BBRP-02-015 WK27 Phase 1 Peat Dam Detail (NTS)
- NPWS-BBRP-02-016 WK27 Phase 1 Timber Dam Detail (NTS)
- NPWS-BBRP-02-017 WK27 Phase 1 Stone Dam Detail (NTS)

5.0 RELEVANT ADJOINING LAND USES: -

Subsite WK27 is broken into 4 individual works areas. The Subsite WK27 is located south of the Regional Road (R759) which will be subject to ongoing traffic during the course of the works.

The works area and the adjoining lands form part of the river Liffey Catchment, all work should be planned so as not to adversely impact on water quality.

The works area and the adjoining lands are used as an amenity for Hillwalkers, Cyclists and for other outdoor pursuits. The Contractor should erect adequate warning signage and appropriately secure the work areas, excavations, deep water and all other hazards associated with the works.

6.0 SITE RESTRICTIONS: -

6.1 *Restrictions on Working Hours:* 8am-6pm Mon-Fri are the normal site working hours.

Working Hours beyond these hours to be agreed with the Engineer's Representative in advance.

6.2 *Site Restrictions and Restrictions on Access:*

The Contractor shall note that there is potential for more than one access point from the Regional Road (R759) to the various work areas of the site. The number of access points should be kept to a minimum. The contractor shall include in their tender for any costs that may be incurred due to maintaining this access and making good any potential damage arising due to the construction works.

7.0 PHASING OF WORKS: -

The works are to be carried out as single uninterrupted mobilisation and must be completed in between June & September 2026.

The Project Supervisor Construction Stage shall confirm in writing that the works can be completed in a safe manner within this time prior to the commencement of the works.

8.0 OTHER WORK ACTIVITIES: -

The following other activities, not related to or included within the scope of the project, will be carried out on site during the construction phase.

8.1 *Existing Building Activities:*

N/A

8.2 *Other building works on site, if applicable:*

N/A

9.0 KNOWN EXISTING SERVICES: -

The following services are known to exist along, within or adjacent to the site

9.1 *Underground Services:*

There was no evidence of underground services at the time of inspection. However, the contractor is to satisfy themselves through appropriate investigations that the site is free of –

- Water Mains
- Electric Cables
- Telecom Cables
- Public Lighting
- Surface and Foul Water Drainage

9.2 *Overground Services:*

There was no evidence of over-ground services at the time of inspection

While the above information is provided in good faith to the Contractor it does not absolve the Contractor from his statutory duties and requirements to liaise with all relevant statutory undertakers to identify and locate all services and identify risks to personnel from above and below ground utilities.

10.0 INFORMATION ON THE PRESENCE OF PARTICULAR SAFETY RISKS TO SAFETY AND HEALTH: -

The construction work referred to in this Preliminary Health and Safety Plan has been reviewed by the designers. In this review, the Client has assumed that all construction work will be done in accordance with the Construction Regulations. The Client has also assumed that the Contractors safety statement deals with the normal hazards arising from their particular type of construction work and particularly when working over water.

The “Particular Risks” identified for this package are listed below.

The minimum controls required demand a Safe System of Work.

10.1 “Work which puts persons at work at risk of **burial under earthfalls, falling objects & debris**, engulfment in swampland, or **falling from a height** where the **risk is particularly aggravated** by the nature of the work or processes used by the environment at the place of work on site”.

- Works involve excavation of peat close to open drains to form peat dams. Therefore, this will involve significant earthworks, which will lead to risk of engulfment, primarily due to the poor ground conditions.

- Works involve installation of stone dams in drains with varying levels of water which could lead to risk of engulfment or drowning, primarily due to the poor ground conditions.
 - Works involve the installation of Timber Dams in drains with varying levels of water which could lead to risk of engulfment or drowning, primarily due to the poor ground conditions.
 - Moving of materials by hand for construction of stone dams where ground conditions could lead to risk of slips, trips and falls, primarily due to poor ground conditions.
- 10.2 “Work which puts persons at work at risk from **chemical or biological substance** constituting a **particular danger** to the safety and health of such persons or involving a legal requirement for health monitoring”.
- N/A
- 10.3 “Work with ionizing radiation requiring the designation of controlled or supervised areas such as defined in Article 20 of Directive 80. 836/Euratom”.
- N/A
- 10.4 “Work near high voltage power lines”.
- N/A
- 10.5 “Work exposing persons at work to the risk of drowning”.
- Works involve excavation of peat adjacent to and in open drains. Therefore, this will involve significant earthworks, which will lead to a risk of drowning.
- 10.6 “Work involving the use of explosives”.
- N/A
- 10.7 “Work involving the assembly or dismantling of heavy prefabricated components”.
- N/A
- 10.8 “Work involving asbestos”.
- N/A

10.9 Work involving Aerial Transport of Materials by Helicopter

Due to the remote location of the works, the absence of suitable access routes, and the environmental sensitivities of the Special Area of Conservation, certain construction materials will be transported and placed by means of helicopter lifting operations.

The use of helicopter transport has been identified at design stage as the method presenting the lowest overall risk when compared with the construction of temporary access tracks or the use of heavy ground-based haulage across unstable peatland.

This activity introduces particular risks including:

- Falling or displaced loads.
- Rotor downwash causing instability of ground conditions or movement of unsecured materials.
- Interaction between aircraft operations and ground personnel.
- Emergency landing scenarios in remote locations.
- Limited access for emergency response.

These risks are considered intrinsic to the design and must be managed through coordinated planning between the Client, the Project Supervisor Construction Stage (PSCS), and the appointed aviation contractor.

Helicopter operations shall only take place within clearly defined work zones identified in the project-specific Aerial Lift Plan developed prior to commencement of such works.

It is planned that the Client (NPWS) will engage the Helicopter Contractor directly and will manage and coordinate all aspects of the lifting operation.

10.10 Other Hazards

- The Contract may require persons and plant to be working on site after daylight hours and thus care and measures to prevent risk to persons working in darkness or near darkness should be put in place.
- Risk of uncontrolled interaction with other site traffic or members of the public who may be present immediately outside of the site.
- Risk of engulfment through the use of inappropriate mobile plant.
- Site Access/Plant Operations on Soft Ground, Instability in soft peat conditions leading to unsafe egress.

The above list of particular risks is non-exhaustive and other risks may present during construction that could not be foreseen by the PSDP.

11.0 RECOMMENDATIONS / SPECIFIC MEASURES FOR REDUCING PARTICULAR RISKS: -

It is envisaged at the Design Stage that the following non-exhaustive list of specific measures for reducing particular risks will be addressed in the Construction Stage Health and Safety Plan: -

- Traffic management system will be required for all works adjacent to/ pertaining to the access routes and roads. This shall include a safe system for loading and unloading material, movement of material and movement of plant.
- Safe and efficient access for emergency services should be maintained at all times.
- To reduce risk to the general public, due to construction activities, the site area or the condition of the works is to be properly treated to ensure security and safety at all times.
- Measures will be required for the safe operations of plant and other construction activities where these are in the vicinity of ESB. The Contractor should be familiar with the E.S.B. guidelines "AVOIDANCE OF ELECTRICAL HAZARDS WHEN WORKING NEAR OVERHEAD ELECTRICAL LINES" and general ESB guidelines when working on or adjacent to power cables.
- The use of transport vehicles and works equipment shall be planned so that sufficient clearance both laterally and vertically shall be ensured for vehicles and machinery next to buildings or

structures, so as not to trap or crush persons or cause damage. Only vehicles essential for the completion of the works shall be permitted.

- Suitable firefighting equipment shall be provided and maintained on the site. All possible precautions shall be taken to provide for the safe storage of petroleum, gas bottles and other potentially dangerous goods. Where welding is required a suitable welding blanket shall be used to prevent errant sparks igniting a fire.
- Provision of adequate eye and ear protection when working with or near machinery, particularly small items of plant to be used for the breaking out of concrete and steel.
- The Contractor shall ensure that adequate welfare facilities are provided, unless otherwise agreed with the Employers Representative.
- The contractor is to use only appropriate wide-tracked excavators and dumpers given the poor ground conditions. The use of bog mats are recommended in areas which require repeated tracking.
- A detailed Aerial Lifting Management Plan (Safe System of Work) shall be prepared by the Client-appointed helicopter operator in consultation with the PSCS prior to commencement of lifting operations.
 - The plan shall include:
 - Aviation-specific risk assessments and method statements.
 - Defined material pick-up and set-down locations.
 - Exclusion zones preventing personnel or public access during lifting.
 - Agreed communication protocols between aircrew and ground crew.
 - Load preparation, inspection, and securing procedures.
 - Weather, wind-speed, and visibility operating limits.
 - Procedures for suspension or cancellation of lifting activities.
 - Emergency response arrangements appropriate to the remote mountain environment.
 - No person shall be permitted beneath suspended loads at any time.
 - All loads shall be pre-packed and secured in designated lifting pallets or bags to prevent debris release during transit.
 - Lifting operations shall be planned so that materials are delivered directly to final placement areas, avoiding intermediate handling where practicable.
 - Temporary closure or controlled management of public access routes may be required during lifting periods and shall be coordinated in advance with the Client.
 - Ground personnel involved in helicopter operations shall be trained, briefed, and deemed competent for marshalling, load handling, and communication procedures.
 - Refuelling, maintenance, or staging of aircraft within sensitive habitats shall not be permitted unless agreed in advance with the Client.

Refer to design risk assessments in Appendix A for further recommended mitigation measures.

The Contractor shall advise the Client as soon as possible after the event of any accident, injury, loss or damage to any workmen or third party or any property of the third party or to property of the Employer.

12.0 CONTINUING LIAISON: -

Procedures will be required for dealing with unforeseen eventualities during project execution resulting in substantial design change, which might affect contract period and other resources, i.e., site meetings, etc.

The Client and PSDP will require to be notified of any relevant changes or decisions that will affect Particular Risks during the time span of the project. Other relevant information would include changes to the time required for completion of the project or phases of the project.

The PSDP shall be notified where the Contractor intends to undertake Temporary Works i.e., scaffolding and propping. The PSDP shall be provided with all Temporary Design Certificates as required under the Construction Regulations 2013 for Temporary Works. The PSDP will liaise with the Temporary Works Designer, as required. Prior to the commencement of any Temporary Works, approval by the PSDP is required.

Procedures will be required for gathering of information relevant to the Safety File by the Project Supervisor (Construction) stage.

Where aerial lifting operations form part of the works, ongoing coordination shall be maintained between the Client, PSDP, PSCS, and the Aviation contractor to ensure that responsibilities for safety management are clearly defined and that construction activities and flight operations are integrated under a single system of work.

Advance notification of lifting schedules shall be provided to all relevant stakeholders to allow for appropriate site control measures, public safety management, and environmental protection.

Any proposed changes to lifting methodology, locations, or sequencing shall be communicated to the PSDP for review to ensure that the original design risk assessments remain valid.

Compliance with General Safety requirements

The Contractor shall comply with all relevant Statutory requirements such as the 2005 and 2010 Safety Health and Welfare at Work Acts, The Construction Regulations (SI 291 of 2013) and Amendments etc.

In addition, the Contractor shall comply with all the reasonable safety requirements of the Client, the Project supervisor for the Design Process and the Project Supervisor for the Construction Stage.

Final Comment: The information contained in the preliminary sections of this document has been prepared prior to the commencement of work on site. It does not take account of any matters or information, which may come to light after that time.

Appendix A

Designer's Assessment of Safety and Health Hazards/Risks					
Company:		Project: NPWS - Wicklow Framework Restoration Works WK27 Phase 1	Design by: JC	Date: Apr-26	Last Revised:
NPWS		Our Ref: NPWS-BBRP-03-DRA01	Review by: OMcG	Sheet no: 1	Revision
Design Stage:	Draft				
Activity	Key Construction Hazards (or Risks) Identified		Evaluations. Design Decisions Made (or Alternative Actions)		
Design					
Excavations	Slope collapse		Ensure slope stability through all stages of construction and in permanent works by considering design slopes.		
Construction of peat dams	Working in Excavations		Consideration must be given to a safe method of work for construction of peat dams within the existing drains.		
Construction of peat bunds	Working in Excavations		Consideration must be given to a safe method of work for construction of peat bunds.		
Installation of Plastic Dams	Working in Excavations		Consideration must be given to a safe method of installation of Plastic Dams.		
Installation of Timber Dams	Working in Excavations		Consideration must be given to a safe method of installation of Timber Dams.		
Construction of Major Peat Dams (Peat Bunds)	Dam/Bund failure due to erosion		Ensure water levels are controlled by installation of overflow Pipes or wiers to avoid water flow overtopping the Dam/Bund.		
Other parties please take note: These are designer's risk evaluations of design options carried out in-house for the purpose of our complying with designers' duties under Safety, Health and Welfare at Work (Construction) Regulations 2013. The evaluations relate only to those aspects/elements of the project which we are responsible for designing under the terms of our appointment by our client. Other parties should not rely on these evaluations for their own purposes; in particular, contractors, who must deal with and control all risks arising during construction, must carry out their own definitive risk assessments <i>ab initio</i> for that purpose.					

Designer's Assessment of Safety and Health Hazards/Risks					
Company:		Project: NPWS - Wicklow Framework Restoration Works WK27 Phase 1		Design by: JC	
NPWS		Our Ref: NPWS-BBRP-03-DRA01		Date: Apr-26	
		Review by: OMcG		Last Revised:	
Design Stage: Draft					
Activity		Key Construction Hazards (or Risks) Identified		Evaluations. Design Decisions Made (or Alternative Actions)	
Site Access/Egress					
Plant, Vehicle And Pedestrian Management		Interface between site plant, vehicles and users of the Site		Contractor to ensure no persons are permitted within the working radius of any item of plant whilst operational. All plant should be isolated from accidental movement prior to any person entering the working zone. Contractor to develop a Plant, Vehicle & Pedestrian Management Plan which should be made known to all site personnel.	
Unauthorised Access to Site		Persons accessing the site without the knowledge or permission of the main contractors site personnel		Contractor to ensure site security. All persons entering or exiting the site will need to sign in or sign out. Any breach of these procedures shall be reported to the relevant personnel	
		Contact with public		Issue interface document including drawings to identify areas under Contractor's control. Contractor to properly treat areas to prevent unauthorised access to work areas.	
Access Route		Drivers unfamiliar with the site straying into restricted areas within the Site.		There is only one access into the site. Contractor to develop a Traffic Management Plan for the site to ensure the safe passage of all vehicles through the site. All delivery drivers to be made aware of the correct the location of the delivery point.	
Interface with Workforce		Crushing		Contractor to ensure that Banksman are provided with all excavators if slewing or lifting operations are being carried out. Stop works when others approach work area, and escort through, prior to restarting. All site personnel should be wearing full PPE at all times.	
Transportation of materials and vehicle movement		Crushing		All vehicles to have flashing beacons and work within traffic management when applicable. Access/ egress routes to be as per site plan. Hi visibility clothing on all personnel. Vehicles to adhere to site speed limit of 15 kmph at all times on site roads. Signage erected to reinforce this limit. All vehicles to have flashing beacons and work within traffic management when applicable. Access/ egress routes to be as per site plan. Hi visibility clothing on all personnel. Vehicles to adhere to site speed limit of 15 kmph at all times on site roads. Signage erected to reinforce this limit.	
Movement of Materials within Machinery Exclusion Zones		Slips, Trips and Falls		Contractor to ensure that there are specific planned routes for the movement of materials within Machinery Exclusion Zones. Bog mats or other ground protection materials to be used in wet areas or hi traffic areas to protect vegation and avoid erosion.	
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Designer's Assessment of Safety and Health Hazards/Risks							
Company:	Project:	NPWS - Wicklow Framework Restoration Works WK27 Phase 1	Design by:	JC	Date: Apr-26	Last Revised:	
NPWS	Our Ref:	NPWS-BBRP-03-DRA01	Review by:	OMcG	Sheet no:	3	Revision
Design Stage:	Draft						
Activity	Key Construction Hazards (or Risks) Identified		Evaluations. Design Decisions Made (or Alternative Actions)				
Excavation/ Earthworks							
Construction of peat or plastic dams within existing drains.	Instability of Excavation	Contractor should be aware of the depth of excavation where works are to be completed and the type of soil within the excavation					
	Excavation Collapse	Contractor Risk Assessment to include provisions for preventing persons entering excavations without the necessary safety provisions. Open excavations should be inspected prior to works being carried out to ensure their stability.					
	Persons falling into excavation	Contractor to ensure edge protection is installed around all open excavations. Works have been designed to be carried out by excavator limiting risk of personnel entering the excavation. Contractor Risk Assessment to include provisions for protecting persons from entering open excavations					
	Risk of drowning	Works to consider all potential risks of drowning. Works have been designed to be carried out by excavator limiting risk of personnel entering the water.					
	Engulfment of Plant	Contractor must consider a recovery plan for engulfment of plant due to ground conditions.					
Construction of peat bunds	Instability of Excavation	Contractor should be aware of the depth of excavation where works are to be completed and the type of soil within the excavation					
	Excavation Collapse	Contractor Risk Assessment to include provisions for preventing persons entering excavations without the necessary safety provisions. Open excavations should be inspected prior to works being carried out to ensure their stability.					
	Persons falling into excavation	Contractor to ensure edge protection is installed around all open excavations. Works have been designed to be carried out by excavator limiting risk of personnel entering the excavation. Contractor Risk Assessment to include provisions for protecting persons from entering open excavations					
	Risk of drowning	Works to consider all potential risks of drowning. Works have been designed to be carried out by excavator limiting risk of personnel entering the water.					
	Engulfment of Plant	Contractor must consider a recovery plan for engulfment of plant due to ground conditions.					
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NPWS	Our Ref:	NPWS-BBRP-03-DRA01		Review by:	OMcG	Sheet no:	4	Revision	
Design Stage:	Draft								
Activity	Key Construction Hazards (or Risks) Identified		Evaluations. Design Decisions Made (or Alternative Actions)						
Drainage									
Deep pipe runs/excavations	Falls from Height, Engulfment		Contractor to note requirement for temporary works for back propping of excavations. Contractor to protect edges of excavations at all times						
Working in and adjacent to water courses	Leptospirosis (Wiels Disease)		Area for welfare facilities has been provided. Wash hands thoroughly before eating or smoking. Report any symptoms to supervisor. Always wear gloves on site.						
Working/Inspections in and adjacent to water courses	Risk of drowning		Works to consider all potential risks of drowning. Works have been designed to be carried out by excavator limiting risk of personnel entering the water. Fencing and Life Buoy to be provided at temporary silt pond.						
Working/Inspections in and adjacent to water courses	Lone Working		Contractor to note the requirement to set out the management procedure for operating lone worker scenarios.						
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NPWS	Our Ref:	NPWS-BBRP-03-DRA01	Review by:	OMcG	Sheet no: 5	Revision
Design Stage:	Draft					
Activity	Key Construction Hazards (or Risks) Identified		Evaluations. Design Decisions Made (or Alternative Actions)			
Plant						
Plant defective or unsafe	Ensure that all plant and equipment is subjected to a planned maintenance schedule and that registers and certification is in order.		Contractor to ensure that Daily/Weekly Plant checklist (GA2 form) to be filled in for each individual item of plant. Do not use any defective equipment and report to supervisor for change over. Ensure that all plant and equipment is subjected to a planned maintenance schedule and that registers and certification is in order.			
Plant Operator	Provide competent plant operators, drivers, banksman and supervision		CSCS card required for item of plant being utilised.			
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NPWS	Our Ref:	NPWS-BBRP-03-DRA01	Review by:	OMcG	Sheet no: 6
Design Stage:	Draft				
Activity	Key Construction Hazards (or Risks) Identified	Evaluations. Design Decisions Made (or Alternative Actions)			
Plant					
Transportation of materials by Helicopter	Falling materials due to sling failure or rigging error Uncontrolled load swing due to wind or pilot manoeuvre Injury to personnel during hook-up / unhooking operations Adverse weather (fog, high winds, heavy rain) leading to unsafe operations Fuel spill during refuelling operations Emergency incident in remote upland location Public access interface (walkers, landowners)	Specify certified lifting gear only. All slings, shackles and lifting frames to have current certification. Lift plans to be prepared by specialist aviation contractor. Exclusion zones to be enforced beneath flight path and drop zone. No personnel permitted beneath suspended loads. Define maximum wind speed limits in method statement. Require experienced mountain flying operator. Use tag lines only where safe and approved by aviation contractor. Select stable load configurations and purpose-designed lifting stillages where possible. Designate trained banksman / marshaller only. Use clear hand-signal protocol agreed with pilot. Establish safe hook-up zone free of loose materials. PPE including helmets with chin straps and eye protection mandatory. Minimise manual handling through pre-slung load preparation. Weather minima to be defined in lift plan. Flights suspended outside defined aviation limits. Allow programme contingency for weather delays (design decision: avoid critical path reliance on helicopter operations). Refuelling to take place off sensitive peat areas wherever possible. Spill kits available. Refuelling under supervision of aviation contractor in accordance with aviation standards. Aviation contractor to provide emergency response plan. Confirm emergency landing areas. Site-specific emergency plan to include helicopter operations. Satellite or reliable communication system required. Temporary exclusion zones and marshals where public rights of way exist. Advance signage and stakeholder notification prior to lift days.			
Other parties please take note: These are designer's risk evaluations of design options carried out in-house for the purpose of our complying with designers' duties under Safety, Health and Welfare at Work (Construction) Regulations 2013. The evaluations relate only to those aspects/elements of the project which we are responsible for designing under the terms of our appointment by our client. Other parties should not rely on these evaluations for their own purposes; in particular, contractors, who must deal with and control all risks arising during construction, must carry out their own definitive risk assessments <i>ab initio</i> for that purpose.					

Designers to consider Schedule 1 of the Safety, Health and Welfare at Work (Construction) Regulations 2013, extract given below.

Where these Particular Risks cannot be designed out of the construction works, they need to be communicated to the PSDP through the Design Risk Assessment

Non-exhaustive List of Work Involving Particular Risks to the Safety, Health and Welfare of Persons at Work

1. Work which puts persons at work at risk of—

- (a)* falling from a height,
- (b)* burial under earthfalls, or
- (c)* engulfment in swampland,

where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or construction site.

2. Work which puts persons at work at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring.

3. Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom⁴.

4. Work near high voltage power lines.

5. Work exposing persons at work to the risk of drowning.

6. Work on wells, underground earthworks and tunnels.

7. Work carried out by divers at work having a system of air supply.

8. Work carried out in a caisson with a compressed-air atmosphere.

9. Work involving the use of explosives.

10. Work involving the assembly or dismantling of heavy prefabricated components.