# LETTER WIND FARM LTD CO. LEITRIM

# **CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN** (CEMP)

# **MANAGEMENT PLAN 1 EMERGENCY RESPONSE PLAN**

# **DECEMBER 2023**

Letter Wind Farm Ltd, Ballysadare, Co. Sligo, Ireland. F91 XK19.



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# DOCUMENT APPROVAL

PROJECT	Letter Wind Farm	
CLIENT / JOB NO	Letter Wind Farm Ltd.	5969
DOCUMENT TITLE	Construction Environmental Management Plan (CEMP) Emergency Response Plan	

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# Reviewed/Approved by

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# **LETTER WIND FARM, CO. LEITRIM**

# **EMERGENCY RESPONSE PLAN**

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## 1 INTRODUCTION

# 1.1 Why have an Emergency Response Plan?

Many construction and industrial sites intrinsically have the potential to cause significant environmental harm which could threaten water supplies, public health and wildlife in the event of an environmental incident. The aim of this plan is to see that the event of an emergency, quick action will limit any impacts on humans and the local environment.

This response plan forms part of the conditions of work for staff, and for every contractor or sub-contractor at the site.

# 1.2 Outline of this Environmental (Incident & Emergency) Response Plan

The information contained in this plan forms the Emergency Response Plan (ERP), part of the Construction Environmental Management Plan (CEMP) for Letter Wind Farm.

It contains details of:

- Who should be contacted in an emergency?
- Procedures to be followed in an emergency
- Staff responsibilities in an emergency

# 1.3 What is an Environmental Incident?

This plan should be instigated once there has been an emergency or environmental incident on site or elsewhere, linked to the construction of Letter Wind Farm. Such an incident is a discharge to air, land or water that could cause environmental damage. Causes of environmental incidents on this site include:

- Leaking plant or equipment
- Containment Failure
- Fire
- Land Slide
- Vandalism
- Overfilling of containment vessels
- Flooding on site
- Leaking Portaloo
- Discharge of raw or partially treated effluent



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- Wind-blown waste, litter or dust

  Fuel drips or spills during refuelling

  Leak from fuel or chemical containers

  Contaminated water or sediment/silt entering a water course or drain
- Failure of pumps and pipelines
- Blade throw (results from wind turbine failure and may include the splintering of rotor blades and detachment of debris)

Any of these incidents could affect drainage systems, surface waters, aquatic ecosystems, groundwater and soil. These incidents could also affect air quality by producing toxic fumes and airborne pollutants which may damage human health, wild and domestic animals and ecosystems. The emergency procedures to be followed for each of the incidents listed above ae detailed in Section 6.1.

#### 1.4 **Reference Documents**

Current legislation including the Safety, Health and Welfare at Work Act 2005 and the Safety Health and Welfare at Work (Construction) Regulations 2013 to 2021 (as amended), has been taken into account into the production of this Plan and will be accounted for in the further development of the Contractor's Construction Management Plan.

This plan has been developed alongside other Management Plans that form part of the Construction Environmental Management Plan (CEMP) including a:

- Water Quality Management Plan
- Surface Water Management Plan
- Peat and Spoil Management Plan
- Waste Management Plan
- Decommissioning Plan
- Traffic Management Plan

#### 2 **GENERAL REQUIREMENTS OF AN ERP**

As mentioned, environmental incidents may include flooding, spillages (oil and chemicals), contaminated run-off, riverbed disturbance, damage to underground services, damage to habitats, poor waste disposal and storage.



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# This Emergency Response Plan:

- Identifies key staff and 24-hour contact details to be contacted in the event of an emergency (Section 6.5)
- Identifies key external bodies and emergency response numbers who should be contacted in the event of an emergency (Section 6.4)
- Details an Inventory of Chemical Products and Waste Inventory on Site (Section 6.6) \*
- Details an Inventory of Pollution Prevention Equipment (Section 6.7)
- Provides details of staff trained in the use of spill kits and booms etc. (Section 6.8)
- Provides details of reporting requirements (Sections 6.3 to 6.9)
- Provides detailed procedures to be followed in the event of an emergency (Sections 6.1 and 6.2)
- Provides a Communication Plan for operatives outlining key actions in the event of an emergency (Section 6.2). This will be available to all operatives on site.

#### 3 **INCIDENT & HAZARD REPORTING**

A blank Environmental Incident Report Form for reporting environmental incidents or hazards for the site is attached in **Section 6.9**. A blank Site Environmental Audit Form is attached in **Section 6.10** to record audit results. The details recorded in these forms will be regularly reviewed and will form part of the response plan procedural review.

#### WASTE DISPOSAL AFTER ENVIRONMENTAL INCIDENCES 4

If spill kits etc. are used in the event of a pollution incident, operatives need to carefully dispose of used equipment by carefully placing them in a sealed bag or container. They should then be removed from site by a licensed waste contractor as per the Waste Management Plan. Contaminated soil also needs to be disposed of as hazardous waste by a permit holder. This is also further detailed in the Waste Management Plan of this CEMP.



<sup>\*</sup>Because of the nature of wind farm construction operations and the nature of works on site, the potential pollutants will vary.

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#### 5 SITE INDUCTION AND TOOLBOX TALKS

It is imperative that all contractors, sub-contractors and staff on site are fully familiar with this emergency response plan, and it will be detailed regularly in Toolbox Talks. During these talks, they will also receive regular reminders of the importance of the local environment and of the necessary environmental controls that are in place on site.

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#### 6 PROCEDURE AND COMMUNICATION PLAN IN EVENT OF AN INCIDENT

#### Procedures to be followed in the event of an incident 6.1

The following procedures are intended as a guide in dealing with incidents. Health & Safety guidance should be followed at all times applying common sense and ensuring the health & safety of yourself and others:

#### 6.1.1 Spillages/Leaks/Containment Failure

- Identify the source of the spillage and cut off source, if safe to do so, e.g. by closing valve, righting container etc.
- 2. Work on site will cease and all operatives will assist in placing spill mats on the affected area. Site Manager/ Main Contact must be notified.
- 3. Identify where spillage may go. If spillage is near a watercourse (drainage/ditch/ river) divert spillage away from the watercourse through the use of absorbent materials from the spill kit.
- 4. Notify all parties in the order listed in **Sections 6.4 and 6.5**. Notification should be made by one member of staff whilst remainder of staff present deal with the spill/incident.
- 5. Dig up all contaminated ground as soon as possible/immediately. ΑII contaminated materials should be placed in sealed polythene bags/containers and disposed of appropriately by an appropriate licensed waste contractor.
- 6. Complete required record of incident and response into reporting system



# 6.1.2 Contamination of Watercourse

# Suspended Solids

- 7. If watercourse is at risk of contamination from suspended solids from a slope failure the Site Manager/ Main Contact must be notified, and the slowing actions must be implemented:
  - a) Place straw bales wrapped in geotextile or sand/gravel bags with geotextile curtains **immediately** in the watercourse(s) at regular intervals downstream from the incident. These sand/straw bags and bales will be removed and replaced with stone filters once water quality is stabilised.
  - b) Stone check dams faced with a layer of geotextile will be constructed at critical points along the watercourse.
  - c) Small sumps will be formed intermittently between the check dams to reduce the amount of suspended solids contained in the water.

# Oil Spill in Watercourse

- 8. If spill has reached the watercourse the Site Manager/ Main Contact must be notified, and the following actions must be implemented:
  - a) Place flexible absorbent booms across watercourse, ahead of the contamination within a quiet stretch of water.
  - b) Place absorbent cushions in the water immediately upstream of these booms as well as downstream of the booms.
  - c) Remove and replace saturated absorbent material as required. Please ensure removed cushions are placed in sealed polythene bags/containers and disposed of by the principal waste contractor.

# 6.1.3 Land Slide

- Where the onset or actual detachment of peat (e.g., cracking, surface rippling) occurs:
  - a) All activities in the area will cease and all available resources will be diverted to assist in the required mitigation procedures.
  - b) The Site Manager/ Main Contact must be notified.
  - All relevant authorities will be notified if a peat slide event occurs on site and this Emergency Response Plan (ERP) followed.
  - d) Where peat slides do not represent a risk to a watercourse and have stopped moving, they will be stabilised using rock infill, if required (to be confirmed by Geotechnical Engineer). The failed area and surrounding area



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will then be assessed by the engineering staff and a stabilisation procedure implemented. The area will be monitored, as appropriate, until movements have stopped.

- e) Where possible, check barrages (comprises the placement of pock fill across a watercourse which allows the passage of water but will prevent peat debris from passing through) will be constructed on land using rock fill to prevent a peat slide reaching any watercourse.
- f) If peat reaches a watercourse a check barrage will need to be constructed across the watercourse preventing the peat from moving downstream. The check barrage will allow water to flow through it, but the peat will be trapped.
- g) The size of the check barrage will depend on the scale of the peat slide to be contained and the geometry of the watercourse at the location of the barrage.
- h) All measures to contain the peat slide must be approved by the Leitrim County Council or Inland Fisheries Ireland (IFI).

## 6.1.4 Fire

10. In the unlikely event of a fire at a turbine, substation, or battery storage units all personnel on site will meet at a designated fire point and emergency services will be contacted.

## 6.1.5 Blade Throw

11. In the unlikely event of ice throw from blades, all activities in the area will cease and site personnel will stand clear of turbines where possible until they have been shut down completely.

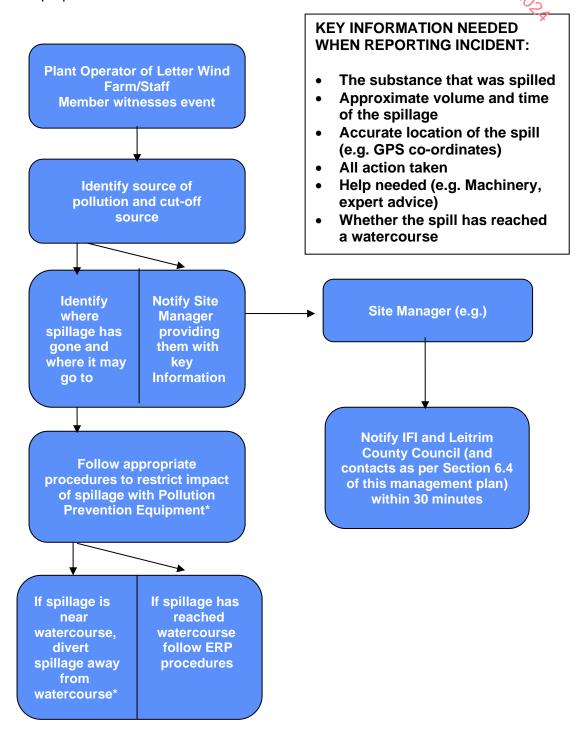
# 6.1.6 Vandalism

12. In the event of a vandalism at the site, all personnel on site will be notified and An Garda Síochána will be contacted.



# 6.2 Communication Plan

A Communication Plan (to be followed in the event of an incident) will be provided by the Contractor, in liaison with relevant stakeholders and will be included in the updated ERP prior to commencement of site development works. An outline Communication Plan is proposed below:



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#### 6.3 **Environmental Response Plan for Letter Wind Farm**

0.5 Environmental Response Flan for Lett	`C <u>\</u>
	N FOR LETTER WIND FARM 21 – Pollution Prevention Guidelines.
Site Address: Letter Wind Farm, Drumkeeran, Co. Leitrim  Official Company Address: Letter Wind Farm Ltd, Ballysadare, Co. Sligo, Ireland. F91 XK19.  KEY HOLDERS FOR SITE – NAME & CONTACT NUMBERS:	ITM: 587,642 E, 824,050 N  Map references: OSI Discovery Sheet 26
Overview of the activities on site: Include number of employees at different time of	the day:
Daylight Hours:	
Dusk to Dawn:	
Weekend Dusk to Dawn:	
Bank Holidays:	
Date & Version of the plan:	Name & position of person responsible for compiling/approving the plan:
Review Date	Date of next exercise:
Objectives of the plan: To limit any potential harmful impact to the local environment of an emergency.	
List of external organisations consulted in the pre	eparation of this plan with contact details  I which version. Please note that it is recommended
that you review and revise this plan regularly:	



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C.A. Fortamed Campage		<b>Ŷ</b> ∧		
6.4 External Contacts		' <sup>©</sup> C <sub>A</sub>		
		PECE/LA		
Contact	Office Hours	Out of Office		
Emergency Services	999 or	999		
(Fire/Police/Ambulance)	112	999 or 112		
Local Garda Station	071 982 0620	×		
Manorhamilton	071 9171111			
Hospital Sligo University Hospital	0719171111			
Environmental Department,	071 9620005			
Aras an Chontae,				
Carrick-on-Shannon,				
Co. Leitrim.	053-916 0600	1850 365 121		
LIA	033-910 0000	1030 303 121		
Inland Fisheries Ireland	01 8842600	1890 347 424 (24 hours a day)		
Roads Service (Blocked/Flooded	0300 2000 100	0300 2000 100		
Roads)				
ESB- Electricity Company	01 8529534			
Telecommunications – Eircom	1800 475 475			
6.5 Internal Contacts				
	sed and trainers to activate and co-or	rdinate the plan.		
Staff to be contacted if need to mov	e or evacuate the site			
Other Staff:				
Managing Director				
Site Manager				
Environmental Manager				
Health & Safety Manager				
Ecological Clerk of Works				
Owner's Engineer				



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6.6 Chem	ical Product 8	& Waste Inv	ventory		P	
Trade name/ substance	Solid/liquid/ gas or powder	UN number	Max amount	Location marked on site plan	Type of Containment	Environmental
						properties

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6.7 Pollution Pr	Pollution Prevention Equipment Inventory (On/Off-Site Resources)			
Туре	Location	Amount	Staff contact	
			• 7	
			0,	
			79 <sub>07</sub> 202 <sub>8</sub>	

# For example:

- Personal protective Equipment (PPE) available that should be worn
- absorbents
- drain mats/covers
- pipe blockers
- booms
- pumps
- sandbags
- silt fencing
- over drums

IF ANY OF THIS EQUIPMENT REQUIRES SPECIALIST TRAINING - STATE WHO HAS BEEN TRAINED IN ITS USE AND DATE OF TRAINING (attach evidence where possible).



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6.8 List of Staff Trained in the Use of Spill kits and Booms			
Name	Date of Training	CIVE AND	
		** 7007 302 A	
		•	

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6.9 Site Environmental Incident Report F	orm
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		<u> </u>
Site	Date	
Time	Weather:	7.
Report By:	Position:	9/0
Letter Wind Farm	Position:	1/2
personnel present:		,02
Contractor Personnel	Position:	**
Present:		

Description of Incident		

Item Spilled	
Estimate of Volume of Spillage	

List of actions						
followed once incident was noted		Action	Ву			
Who first observed incident?						
First action						
Next Action						
Time Pollution Hotline was contacted						
Other						

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	<b>₽</b>
Details of Clean-Up contractor or how con	ntamination was removed from site:
	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
	20-
Details of how this could be avoided in future:	
Details of review of internal procedures as result of this incident:	
DATE REPORT COMPLETED	

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#### **Site Environmental Audit Form** 6.10

Site:	Date:	Chr.
Time:	Weather conditions:	9073
Report by:	Position:	W.C.
Letter Wind Farm personnel present:	Position:	
Contractor personnel present:	Position:	

Item	Questions	Yes	No	Corrective Action Required	n
				Action	Ву
	ellaneous				
1.01	Does the contractor carry out regular				
	internal environment audits on the site?				
	Are recommendations recorded and				
	is corrective action monitored?				
1.02	Have any environment incidents				
	occurred and have these been				
	reported as per on site procedure?				
1.03	Does the site induction contain a				
	section on environmental				
	requirements, including spill				
	procedures, and is this				
	communicated effectively?				
2. Land					
2.01	Are areas of hard standing				
	(excluding bunded and refuelling				
	areas) appropriately drained?				
2.02	Have local roads been inspected				
	and cleaned where necessary?				
2.03	Has all test pitting and soil stripping				
	been monitored by an				
0.04	archaeologist?				
2.04	Have all site clearance works been				
	checked by an ecologist prior to				
	works?				

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Item	Questions	Yes	No	Corrective Action	n	
Item	Questions	163	140	Required	511	
				Action	Ву	
3 Mater	ial and equipment					
3.01	Is there knowledge of the IFI			1907		
3.01	Guidelines on Protection of Fisheries			9/0-		
	During Construction Works in and			1/2	j c	
	Adjacent to Waters (2016) and OPW				9	
	Environmental Guidance: Drainage				×	
	Maintenance & Construction (2019)					
3.02	Are transformers/ generators located					
0.02	in secondary containment bunds?					
3.03	Are all bunds capable of containing					
0.00	110% of the volume of the largest					
	container?					
3.04	Is refuelling carried out in a					
	designated refuelling bay?					
3.05	Does all site drainage on hard					
	standing drain to an oil interceptor?					
3.06	Is the designated area for oil, fuel and					
	chemical storage appropriately sited					
	(i.e. on hard standing at least 10m					
	from a watercourse)?					
3.07	Are there procedures in place to					
	monitor bund integrity and mange					
	bund rainwater levels?					
	Are these followed and recorded?					
3.08	Is there awareness that oil or residue					
	from contaminated water removed					
	from bunds should be disposed of as					
	special waste and not discharged to					
	land or the water environment? (oil					
	absorbent materials (pads etc.) should					
	be used first)					
3.09	Are all drums and mobile plant (e.g.					
	generators) placed on drip trays more					
0.40	than 10m from any watercourse?					
3.10	Is all plant maintained in a good state					
	of leaks?					
0.44	Are there records of this?					
3.11	Are there adequate spill kits available					
	and stored in close proximity to					
2.40	potential risks?					
3.12	Are all refuelling browsers double					
	skinned, locked when not in use, and					
3.13	in a good state of repair?  Is there evidence of unmanaged/					
3.13	unrecorded fuel / oil spillages on site?					
3.14	Are dry or wet wheel washing facilities					
3.14	fully operational and effective?					
3.15	If wet wheel washing facilities are					
0.10	required, are these closed systems					
L	roquirou, are tricae oloaeu ayateilla		<u> </u>			



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Item	Questions	Yes	No	Corrective Action		
		1.00		Required		
				A office	Ву	
	with no discharge to the water			ACION 7.		
	environment?			70		
3.16	Are there laboratory certificates			07		
	(accredited by the Irish National			7		
	Accreditation Board) to confirm that				NA NA	
	imported material stone aggregate					
	brought onto site is free from any					
	contamination?					
4. Noise	e, Dust and Light	_				
4.01	Are there facilities to dampen					
	stockpiles and site working					
	areas/roads to suppress dust?					
4.02	Are vehicles carrying loose material					
	sheeted at all times?					
4.03	Are construction works, or deliveries					
	of materials to and from the					
	development, audible at noise					
	sensitive premises?					
4.04	Has all external construction lighting					
	received the approval of the planning					
	authority?					
5. Waste		1	1	1		
5.01	Is the site tidy and free from litter?					
5.02	Is there evidence of waste beyond the					
	site boundary?					
5.03	Is waste segregated and kept					
	securely in containers in clearly					
<b>5</b> 0.4	designated areas?					
5.04	Does all waste leaving the site have					
	the appropriate duty of care					
5.05	paperwork?					
5.05	Is all waste leaving the site being					
	taken to an appropriately licenced site?					
5.06	Does all special/ hazardous waste					
5.00	(e.g. oil contaminated soils, waste oil)					
	have the appropriate Special Waste					
	Consignment Note?					
5.07	Is material re-used/recycled on site					
0.07	where possible?					
5.08	Are waste management practices in					
5.55	line with the site waste management					
	plan?					
5.09	Are relevant Waste Management					
	Exemptions in place for use of waste					
	on site (e.g. use of waste concrete to					
	create foundation sub-base)?					
5.10	Is there any evidence of burning on					
	site?					



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Item	Questions	Yes	Yes	No	Corrective Act	
				Action	Ву	
5.11	Is there any evidence of unlicensed burial of waste?			`O.		
6. Wate	r			07	_	
6.01	Do all discharges to land or watercourses have appropriate authorisation from Local Authorities /IFI?			7.	NO X	
6.02	Does all watercourse engineering (bank protection, crossing etc.) have the appropriate authorization from Local Authorities / IFI?					
6.03	Do any abstractions from a watercourse or groundwater body have the appropriate authorization from Local Authority / IFI?					
6.04	Has confirmation for the SUDS design for access roads been gained from Local Authority / IFI?					
6.05	Are cut-off ditches installed on the uphill side of the working area to avoid contaminated surface water run-off?					
6.06	Have field drain been diverted where necessary?					
6.07	Is adequate treatment (e.g. settlement tank/lagoons/discharge to land) provided to prevent silt contaminated water entering watercourses and groundwater?					
6.08	Has vegetation removal/ clearance of the site been minimised to avoid unnecessary areas of bare ground?					
6.09	Have buffer-strips been left between working area and watercourses?					
6.10	Is plant operating in the watercourse?					
6.11	Have all culverts been installed at the base of stockpiles situated within close proximity to watercourses?					
6.12	Have silt fences been installed at the base of stockpiles situated within close proximity to watercourses?					
6.13	Are there adequate controls on site construction roads to minimize sediment runoff into watercourses (in particular, are there adequate flow attenuation measures within surface drain)?					
6.14	Are there any sign of decaying straw bales in water courses? (this could lead to organic pollution of the water course)					



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Item	Questions	Yes	No	Corrective Action	on
				Required	
0.45	And pilt trans are gularly receiptein and			Action	Ву
6.15	Are silt traps regularly maintained?			· 7g,	
6.16	Has ease of maintenance been			7	
	considered in the design of permanent drainage features?			`O.	05 V
6.17	Is there evidence of contamination of				
	any watercourse (e.g. with oil,				
	sediment, concrete, waste) in the				
6.18	vicinity of the works?				
0.18	Is monitoring of potential impacts on watercourses carried out on a regular				
	basis and fully recorded?				
6.19	Are dewatering operations being				
0.10	carried out in such a way to minimise				
	sediment contamination?				
6.20	Is drainage and run off in concrete				
	batching areas adequate?				
6.21	Are adequate pollution prevention				
	measures considered and put in place				
	during concrete pours?				
7. Lands		Т		1	
7.01	Have earthworks been designed to				
	promote successful re- instatement of vegetation?				
7.02	Are reinstatement and restoration				
	works being implemented in a timely				
	manner as per the requirements of the Contract?				
8. Ecolo	gy	•			•
8.01	Have storage sites (soil, plant etc.)				
	been sited on areas of lower quality				
	habitat where possible?				
8.02	Is the ECoW a member of the institute				
	of Ecology and /or Environmental				
	management as required by planning conditions?				
8.03	Have buffer zones been constructed				
0.03	and maintained around designated				
	protected species exclusion areas				
	(e.g. red squirrel dreys, water vole				
	habitats, otter holts, badger holts				
	etc.)?				
8.04	Have toolbox talks on the subject of				
	ecology and environmental				
	responsibilities on site been				
	delivered?				
	Have attendence record has				
	Have attendance record been maintained for these?				
	mamiamica for these:				
		l	1	1	1



Client: Project Title: Document Title: Letter Wind Farm Ltd Letter Wind Farm CEMP – Emergency Response Plan December 2023 5969 e: Final Date: L Project No: Document Issue:

Item	Questions	Yes	No 7	Corrective Action	
				Action	Ву
9. Docu	mentation Check	•		````.	
9.01	Start-up meeting record			9	
9.02	Full contacts list in Section 3, Table 3.0 of CEMP			7/2	
9.03	Induction records				X
9.04	Pollution Prevention Measures Register				
9.05	Geotechnical Risk Register				
9.06	Weekly meeting minutes				
9.07	Records of environmental checks and routine monitoring of mitigation measures				
9.10	Water Quality Monitoring Results				
9.11	Safety and Environmental Awareness Reports (SEARs). Filed and entered on database?				
9.12	Safety and Environmental Audit Reports for the site.  (If yes, insert date of last audit )				
9.13	Contractor's Environmental Plans (or Construction Method Statements):				