CONSTANT ENERGY LIMITED

TIRAWLEY WIND FARM CO. MAYO

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP)

MANAGEMENT PLAN 1 EMERGENCY RESPONSE PLAN

September 2025

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CLIENT / JOB NO	Constant Energy Limited 6289		
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CONTENTS

1.	IN	HROD	UCTION	1
1	.1	Why h	ave an Emergency Response Plan?	1
1	.2	Outlin	e of this Environmental (Incident & Emergency) Response Plan	1
1	.3	What	is an Environmental Incident?	1
1	.4	Refere	ence Documents	2
2.	G	ENER/	AL REQUIREMENTS OF AN ERP	2
3.	IN	ICIDEN	IT & HAZARD REPORTING	3
4.	W	ASTE	DISPOSAL AFTER ENVIRONMENTAL INCIDENCES	3
5.	SI	ITE IND	DUCTION AND TOOLBOX TALKS	4
6.	PI	ROCE	DURE AND COMMUNICATION PLAN IN EVENT OF AN INCIDENT	4
6	3.1	Proce	dures to be followed in the event of an incident:	4
	6.	1.1	Spillages/Leaks/Containment Failure	4
	6.	1.2	Contamination of Watercourse	4
	6.	1.3	Land Slide	5
	6.	1.4	Fire	6
	6.	1.5	Blade Throw	6
	6.	1.6	Vandalism	6
6	6.2	Comm	nunication Plan	7
6	3.3	Enviro	nmental Response Plan for Tirawley Wind Farm	8
6	6.4	Exterr	nal Contacts	9
6	6.5	Intern	al Contacts	9
6	6.6	Chem	ical Product & Waste Inventory	10
6	6.7	Polluti	on Prevention Equipment Inventory (On/Off-Site Resources)	11
_			Staff Trained in the Use of Spill kits and Booms	
			nvironmental Incident Report Form	
6	3.10	Site E	nvironmental Audit Form	14



Constant Energy Limited Tirawley Wind Farm

CEMP – Emergency Response Plan

Date: S
Project No:
Document Issue:

September 2025 6289

Final

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 in

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 outline Construction Environmental Management Plan (CEMP) for Tirawley

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 Tirawley 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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1

Constant Energy Limited Tirawley Wind Farm

CEMP – Emergency Response Plan

Date: September 2025 Project No: 6289 Document Issue: Final

- 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, 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.



Constant Energy Limited Tirawley Wind Farm

CEMP – Emergency Response Plan

Date: September 2025
Project No: 6289
Document Issue: Final

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.

*Because of the nature of wind farm construction operations and the nature of works on site, the potential pollutants will vary.

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.

4. WASTE DISPOSAL AFTER ENVIRONMENTAL INCIDENCES

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.



Client: Constant Energy Limited
Project Title: Tirawley Wind Farm

Document Title: CEMP – Emergency Response Plan

Date: September 2025
Project No: 6289
Document Issue: Final

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.

6. PROCEDURE AND COMMUNICATION PLAN IN EVENT OF AN INCIDENT

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

The following procedures are intended as a <u>guide</u> 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 possible, 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.
- 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. All contaminated materials should be placed in sealed polythene bags/containers and disposed of appropriately by an appropriate licensed waste contractor.
- Complete required record of incident and response into reporting system

6.1.2 Contamination of Watercourse

Suspended Solids

If watercourse is at risk of contamination from suspended solids from a slope failure the Site Manager/ Main Contact must be notified, and the following actions must be implemented:



Client: Constant Energy Limited
Project Title: Tirawley Wind Farm
Document Title: CEMP Emergency Popularity

Document Title: CEMP – Emergency Response Plan

Date: September 2025
Project No: 6289
Document Issue: Final

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

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
- c) 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. The failed area and surrounding area 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 rock 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.



Client: Constant Energy Limited Date: September 2025 Project Title: Tirawley Wind Farm Project No: Document Title: CEMP - Emergency Response Plan Document Issue:

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 Mayo County Council or Inland Fisheries Ireland (IFI).

6.1.4 Fire

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

6.1.5 **Blade Throw**

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

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

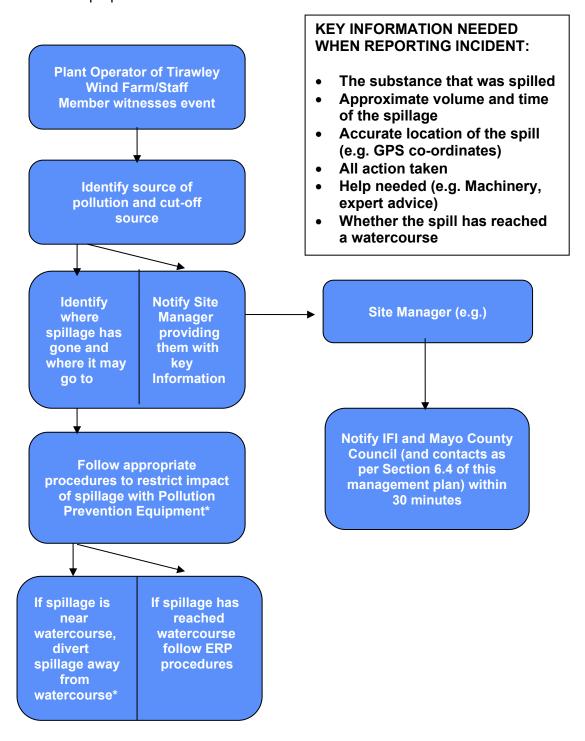


6289

Final

6.2 Communication Plan

A Communication Plan (to be followed in the event of an incident) will be provided by the Contactor, 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:





Constant Energy Limited Tirawley Wind Farm CEMP – Emergency Response Plan Project No: Document Issue: 6289 Final

Date:

September 2025

Environmental Response Plan for Tirawley Wind Farm 6.3

INCIDENT RESPONSE PLAN FOR TIRAWLEY WIND FARM				
Based on template provided in GPP 21 – Pollution Prevention Guidelines.				
Site Address: Tirawley Wind Farm, Co. Mayo	ITM: 515725 E, 834020 N Map references: OSI Discovery Sheet 23 - 24			
Official Company Address: Constant Energy Limited 6th Floor Riverpoint, Lower Mallow Street, Co. Limerick, Ireland.	map references. OSI Discovery Sheet 23 - 24			
KEY HOLDERS FOR SITE – NAME & CONTACT NUMBERS:				
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 envir event of an emergency.				
List of external organisations consulted in the preparation of this plan with contact details				
Distribution list of who has received this plan and which version. Please note that it is recommended that you review and revise this plan regularly:				



Contact	Office Hours	Out of Office
Emergency Services (Fire/Police/Ambulance)	999 or 112	999 or 112
Local Garda Station Killala Garda Station	096 32111	
Local Hospital . Ballina District Hospital	096 21166	
Environment, Climate Action & Agriculture Department	094 9064000	
EPA	053-916 0600	1850 365 121
Inland Fisheries Ireland	01 8842600	1890 347 424 (24 hours a day)
Roads Service (Blocked/Flooded Roads)	0300 2000 100	0300 2000 100
ESB- Electricity Company	01 8529534	
Telecommunications – Eircom	1800 475 475	
6.5 Internal Contacts Names and position of staff authoris Staff to be contacted if need to move		nd co-ordinate the plan.
Other Staff:		
Managing Director		
Site Manager		
Site Manager Environmental Manager		



6.6 Chem	ical Product &	& Waste In	ventory			
Trade name/ substance	Solid/liquid/ gas or powder	UN number	Max amount	Location marked on site plan	Type of Containment	Relevant health & Environme ntal properties



Constant Energy Limited Tirawley Wind Farm Client:

Project Title: Document Title: Project No: 6289 CEMP - Emergency Response Plan Final Document Issue:

6.7 Pollution Prevention Equipment Inventory (On/Off-Site Resources)				
Туре	Location	Amount	Staff contact	

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).



September 2025

Date:

Constant Energy Limited Tirawley Wind Farm CEMP – Emergency Response Plan September 2025 6289 e: Final Date: S Project No: Document Issue:

6.8 List of Staff Tra	ined in the Use of Spill kits and Booms
Name	Date of Training



Date:

Site Environmental Incident Report Form 6.9

Site	Date	
Time	Weather:	
Report By:	Position:	
Tirawley Wind Farm	Position:	
personnel present:		
Contractor Personnel	Position:	
Present:		

Description of Incident			

Item Spilled	
Estimate of Volume of Spillage	

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



Tirawley Wind Farm personnel present:

Contractor personnel

present:

Constant Energy Limited Tirawley Wind Farm CEMP – Emergency Response Plan Date: S Project No: Document Issue: September 2025 6289 Final

Details of Clean-Up cor	ntractor or how conta	amination was remo	oved from site:		
•					
Details of how this coul	d be avoided in				
future:					
Details of review of inte	rnal procedures				
as result of this incident					
DATE REPORT COMPLETED					
6.10 Site Environmental Audit Form					
Site:		Date:			
Time:		Weather			
		conditions:			
Report by:		Position:			

Item	Questions	Yes	No	Corrective Action Required			
				Action	Ву		
1. Misc	1. Miscellaneous						
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?						

Position:

Position:



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 archaeologist?		
2.04	Have all site clearance works been checked by an ecologist prior to works?		



Constant Energy Limited Tirawley Wind Farm CEMP – Emergency Response Plan September 2025 6289 e: Final Date: S Project No: Document Issue:

Item	Questions	Yes	No	Corrective Action Required		
				Action	Ву	
	rial and equipment					
3.01	Is there knowledge of the IFI					
	Guidelines on Protection of Fisheries					
	During Construction Works in and					
	Adjacent to Waters (2016) and OPW					
	Environmental Guidance: Drainage					
	Maintenance & Construction (2019)					
3.02	Are transformers/ generators located					
2.02	in secondary containment bunds?					
3.03	Are all bunds capable of containing					
	110% of the volume of the largest					
0.04	container?					
3.04	Is refuelling carried out in a					
0.05	designated refuelling bay?					
3.05	Does all site drainage on hard					
0.00	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					
3.07	monitor bund integrity and mange					
	bund rainwater levels?					
	build failtwater 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					
0.00	be used first)					
3.09	Are all drums and mobile plant (e.g.					
	generators) placed on drip trays more					
2.40	than 10m from any watercourse?					
3.10	Is all plant maintained in a good state of leaks?					
	Are there records of this?					
3.11	Are there adequate spill kits available					
3.11	and stored in close proximity to					
	potential risks?					
3.12	Are all refuelling browsers double					
J. 1Z	skinned, locked when not in use, and					
	in a good state of repair?					
3.13	Is there evidence of unmanaged/					
5.15	unrecorded fuel / oil spillages on site?					
3.14	Are dry or wet wheel washing facilities	1				
J. 1 -1	fully operational and effective?					
3.15	If wet wheel washing facilities are	1				
5.10	required, are these closed systems					



Item	Questions	Yes	No	Corrective Action Required		
				Action	Ву	
	with no discharge to the water					
0.40	environment?					
3.16	Are there laboratory certificates					
	(accredited by the Irish National					
	Accreditation Board) to confirm that imported material stone aggregate					
	brought onto site is free from any					
	contamination?					
4 Nois	e, Dust and Light	<u> </u>				
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					
5 \\\-	authority?					
5. Was			ı			
5.01 5.02	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					
	designated areas?					
5.04	Does all waste leaving the site have					
	the appropriate duty of care					
	paperwork?					
5.05	Is all waste leaving the site being					
	taken to an appropriately licenced					
F 00	site?					
5.06	Does all special/ hazardous waste					
	(e.g. oil contaminated soils, waste oil) have the appropriate Special Waste					
	Consignment Note?					
5.07	Is material re-used/recycled on site					
0.0.	where possible?					
5.08	Are waste management practices in					
	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					
F 40	create foundation sub-base)?					
5.10	Is there any evidence of burning on site?					
5.11	Is there any evidence of unlicensed					
J. 1 1	burial of waste?					
	Parial Of Wasie:]	1			



Item	Questions	Yes	No	Corrective Action Required		
				Action	Ву	
6. Wate	-					
6.01	Do all discharges to land or					
	watercourses have appropriate					
	authorisation from Local Authorities /IFI?					
6.02	Does all watercourse engineering					
0.02	(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		+			
0.00	necessary?					
6.07	Is adequate treatment (e.g. settlement					
0.07	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					
0.00	unnecessary areas of bare ground?		1			
6.09	Have buffer-strips been left between					
6.10	working area and watercourses? Is plant operating in the watercourse?		+			
6.11	Have all culverts been installed at the					
0.11	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					
J. 1 T	bales in water courses? (this could					
	lead to organic pollution of the water					
	course)					
6.15	Are silt traps regularly maintained?					



Item	Questions	Yes	No	Corrective Action Required		
				Action	Ву	
6.16	Has ease of maintenance been					
	considered in the design of permanent					
	drainage features?					
6.17	Is there evidence of contamination of					
	any watercourse (e.g. with oil,					
	sediment, concrete, waste) in the					
	vicinity of the works?					
6.18	Is monitoring of potential impacts on					
	watercourses carried out on a regular					
	basis and fully recorded?					
6.19	Are dewatering operations being					
	carried out in such a way to minimise					
	sediment contamination?					
6.20	Is drainage and run off in concrete					
0.04	batching areas adequate?					
6.21	Are adequate pollution prevention					
	measures considered and put in place					
	during concrete pours?					
7. Land			ı			
7.01	Have earthworks been designed to					
	promote successful re- instatement of					
7.00	vegetation?					
7.02	Are reinstatement and restoration					
	works being implemented in a timely					
	manner as per the requirements of the Contract?					
9 Eggl						
8. Ecol 8.01	Have storage sites (soil, plant etc.)					
0.01	been sited on areas of lower quality					
	habitat where possible?					
8.02	Is the ECoW a member of the institute					
0.02	of Ecology and /or Environmental					
	management as required by planning					
	conditions?					
8.03	Have buffer zones been constructed					
0.00	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 attendance record been					
	maintained for these?					
	umentation Check	1	1		1	
9.01	Start-up meeting record					



Item	Questions	Yes	No	Corrective Action Required	
				Action	Ву
9.02	Full contacts list in Section 3, Table 3.0 of CEMP				-
9.03	Induction records				
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):				

