CONSTRUCTION PHASE PLAN

CONSTRUCTION PHASE PLAN (CPP) AND SUPPORTING SAFE WORKING PROCEDURES (SWP'S)

ISSUING OFFICE:

Project Name: Awel y Mor Offshore Windfarm – Onshore Geotechnical Site Investigation (Foreshore Work)

Project Number: PN234604

Project Address and Postcode:

Site Compound:	**Northern Satellite Compound:**
Mini Muckshift **Cae'r Delyn,** **Glascoed Rd,** **Saint Asaph** **LL17 0LG**	**Thomas E L Farm** **Rhydorddwy Fawr/Dyserth Rd,** **Rhyl** **LL18 4DY**

Date: January 2024

Prepared by Geotechnics Limited in the role of Principal Contractor.

Issue:	Date:	Description	Prepared by	Reviewed by
01	29/01/2024	CPP	C Bradley	D Pickles
02	29/02/2024	CPP Rev01	C Bradley	D Pickles
03	06/03/2024	CPP Rev02	C Bradley	D Pickles

It is essential that you have access to the relevant CoSHH assessments and Safe Working Procedures via one of the following methods:	
1	Company laptop with up to date downloaded version of the field work manual.
2	Company laptop with remote access to Templates.
3	Electronic device with access to the field work manual via www.geotechnics.rocks/fieldworkmanual
4	Hard copy included within on-site project documentation folder.

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(xvii) Other Site Specific significant safety risks.

* The sections marked with an asterisk have been removed from the body of the Plan unless they specifically apply to the specific works / project.

(b) Health Risks.
- (i) Asbestos.
- (ii) Dealing with Contaminated Land
- (iii) Manual Handling
- (iv) Hazardous Substances
- (v) Reducing noise and vibration.
- (vi) Work with ionising radiation.
- (vii) Exposure to UV radiation.
- (viii) Any other significant health risks.

4. The Health and Safety File.

Appendices:

Appendix A	Risk Assessments, Existing Plans and records of the site provided by the Principal Designer / Client / Client's Representative
Appendix B	Company Generic Site Rules & Any Site Specific Rules
Appendix C	Emergency Information and Accident and Emergency Unit Location Plan
Appendix D	Other Site Specific Significant Safety Risks
Appendix E	Environmental Considerations – Site Specific Environmental Risk Assessment
Appendix F	Specific Processes or Specific unfamiliar substances to be used on site
Appendix G	List of applicable Safe Working Procedures (SWPs).
Appendix H	Site Induction and Briefing Record

1. DESCRIPTION OF PROJECT:

This Construction Phase Plan (CPP) and supporting Safe Working Procedures (SWP's) has been produced by Geotechnics Ltd (known from herein as the Company), to describe the proposed Foreshore ground investigation works involving Cable Percussion Boreholes and Cone Penetration Tests (CPTs) on behalf of Awel Y Mor Offshore Wind Farm Limited (known from herein as the Client).

(a) Project Description (Scope of works):

- PAS 128 Type B Utility survey of all exploratory hole locations to clear for buried utilities.
- 3 no. Cable percussive boreholes (30m, 25m, 10m deep).
- 3 no. CPT positions (30m, 20m, 10m deep).

The study area is the East Rhyl coastal frontage, Denbighshire, North Wales

Cable Percussion Drilling

The light Cable Percussion technique of soft ground boring, typically at a diameter of 150mm (with oversize 200mm casing for depth and "clean drilling" in contaminated ground), is a well-established simple and flexible method of boring vertical holes and generally allows data to be obtained in respect of strata conditions other than rock. A tubular cutter (for cohesive soils) or shell with a flap valve (for granular soils) is repeatedly lifted and dropped using a winch and rope operating from an "A" frame. Soil which enters these tools is regularly removed and either sampled for subsequent examination or test,or laid to one side for backfilling. Steel casing is used to prevent collapse of the borehole sides where necessary (in addition to above benefits). In cohesive soils cylindrical samples are retrieved by driving or pushing in 100mm nominal diameter tubes. In granular soils and often in cohesive materials, in situ Standard Penetration Tests (SPT's) are performed. The SPT records the number of standard blows required to drive a 50mm diameter open or cone ended probe for 300mm after an initial 150mm penetration. A modified method of recording is used in more dense strata. Small disturbed samples are obtained throughout.

The following procedure will be undertaken during the sampling:

1. Cable Percussion crew to receive site inductions and to review operations and RAMS prior to mobilisation.
2. On site review of the utility clearance.
3. Marking out of the borehole locations to be determined with the Client.
4. PAS 128 Type B survey around each borehole location.
5. Appropriate clothing and PPE will be worn commensurate with the weather conditions and work being undertaken, ensuring that the Company minimum requirements are always met.
6. Move equipment to borehole location, ensuring banksman in place to control plant movement.
7. Upon reaching the borehole location, place safety fencing (Chapter 8 or similar) around the works before commencement.
8. Permit to Dig procedure to be carried out:
    - surface to be scanned using CAT and Genny to locate any possible services
    - service inspection pit to be dug using hand tools to 1.20mbgl
    - the base of the inspection pit to be scanned using a CAT scanner
9. The Cable Percussion rig will be set up and commence drilling and testing to the scheduled depth.
10. On completion the borehole will be backfilled and reinstated appropriately.

Cone Penetration Tests

Utilizing a 20 tonne hydraulic ram, a 33mm diameter rod is forced into the ground at a constant rate measuring the resistance and strength of the ground as it progresses. The equipment is mounted in the centre of a tracked rig specialised for low bearing pressure ground conditions.

1. Technician using the equipment to receive site inductions and to review operations and RAMS prior to mobilisation.
2. On site review of the utility clearance and the tidal conditions.
3. On site review of the utility clearance.
4. Marking out of the borehole locations to be determined with the Client.
5. PAS 128 Type B survey around each borehole location.
6. Appropriate clothing and PPE will be worn commensurate with the weather conditions and work being undertaken, ensuring that the Company minimum requirements are always met.
7. Move to the locations of the CPTs and scan the area using a CAT scanner and Genny.
8. The CPT rig will be set up and commence testing to the scheduled depth.
9. On completion the borehole will be backfilled and reinstated appropriately.

To accomplish this, the following activities will be carried out which are detailed in the relevant **Safe Working Procedures (SWP'S) or specific method statements** as indicated below:

Activity (title)	**SWP Number**
Cable Percussion Boring	SWP01
Trial Pitting – Hand and Machine Excavation	SWP03
Dynamic Sampling / Dynamic Probing	SWP04
Safe Use of Mobile Plant	SWP06
Safe Work Near or Adjacent to Over-Head Services	SWP07
Underground Services	SWP08
Use of Cable Avoidance Tools and Signal Generator	SWP09
General Site Safety	SWP11
Housekeeping	SWP12
Standard Emergency Procedures and Notification	SWP13
Soft Ground Conditions	SWP14
Manual Handling and Lifting	SWP15
Provision and Use of Work Equipment (PUWER)	SWP16

Commencement Date:

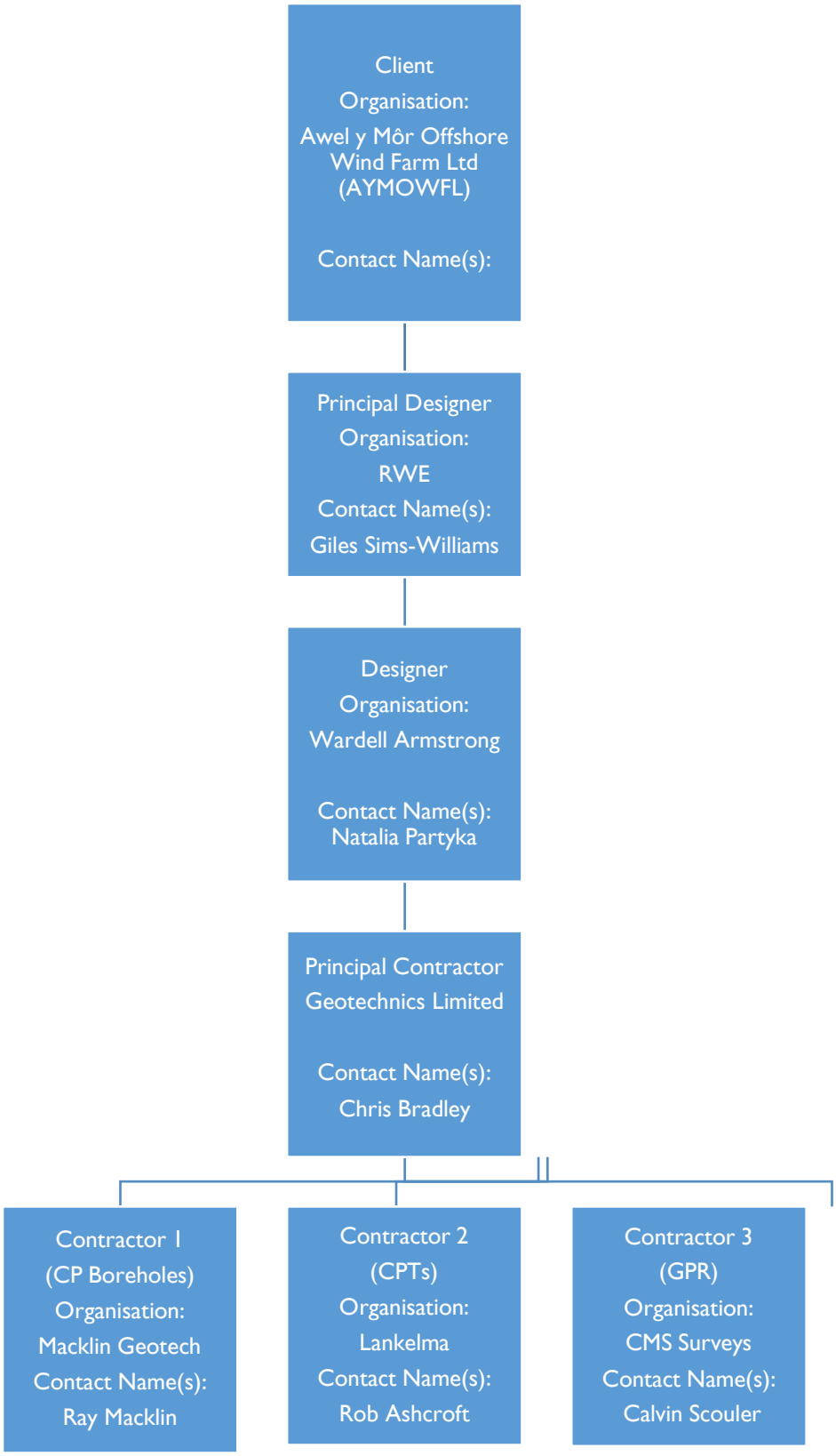
The works are scheduled to commence on 2nd April 2024 for 4 Days.

The project has been notified to the Health and Safety Executive on XXXX 2024

by the Client identified in 1(b) overleaf.

The F10 (rev) shall be displayed within the site compound office.

1(b) Contract Details, Management Structure and Supervisory Arrangements:



Duty Holder	Name	Organisation	Address	Other Contact Details	
Client	TBC	AYMOWFL		Tel:	
				Mob:	
				Email:	
Principal Designer	Giles Sims-Williams	RWE		Tel:	
				Mob:	
				Email:	giles.sims-williams@rwe.com
Designer	Natalia Partyka	Wardell Armstrong Limited		Tel:	
				Mob:	07576 449509
				Email:	npartyka@wardell-armstrong.com
Health & Safety Manager	Gerald Fox			Tel:	
				Mob:	
				Email:	Gerald.Fox@rwe.com
Land access co-ordinator	Annabel Nicholas	Dalcour MacLaren		Tel:	
				Mob:	07774 671568
				Email:	Annabel.Nicholas@dalcourmaclaren.com
Land access co-ordinator	Emma Thomas	Dalcour MacLaren		Tel:	
				Mob:	
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Principal Contractor	Chris Bradley	Geotechnics Limited	Unit 1 Borders Industrial Estate River Lane Saltney, CH4 8RJ	Tel:	
				Mob:	07827 576240
				Email:	cbradley@geotechnics.co.uk
Site Supervisor	Jonathan Gray	Geotechnics Limited	Unit 1 Borders Industrial Estate River Lane Saltney, CH4 8RJ	Tel:	
				Mob:	07810 838371
				Email:	jgray@geotechnics.co.uk
Contractor 1	Ray Macklin	Macklin Geotech	Unit 1 Borders Industrial Estate River Lane Saltney, CH4 8RJ	Tel:	
				Mob:	07778 373957
				Email:	rmacklin@geotechnics.co.uk
Contractor 2	Rob Ashcroft	Lankelma	Coldharbour Lane Iden, East Sussex TN31 7UT	Tel:	
				Mob:	07444 188571
				Email:	RobAshcroft@lankelma.co.uk
Contractor 3	John MacDougall	Bob Francis Crane Hire	Rhyl Road, Rhuddlan, Rhyl, LL18 5UE	Tel:	01745 591753
				Mob:	07733 327713
				Email:	john@bobfranciscranehire.co.uk
Contractor 4	Calvin Scouler	CMS Surveys	Waddicar Ln, Liverpool L31 1DU	Tel:	
				Mob:	07426 632211
				Email:	calvin.scouler@cmssurveys.co.uk

(c) The Extent and Location of existing records and plans available:

Drawings of all known buried services will be supplied for the relevant site by the Client and in particular, prior to any excavation works commencing.

These should be included in Appendix A

(c)(i) Breaking Out / Permit-to-Dig / Drill:

A Permit to Drill / Dig is to be filled in for each position.

Prior to undertaking any breaking out, each respective location shall be checked for buried services via the use of a Ground Penetrationg Radar (GPR) Survey, Cable Avoidance Tool (CAT) and where appropriate, Signal Generator (Genny). The breaking out of the existing surfaces will be using hand tools as soft ground is expected at all locations.

The location will then be hand dug to a depth of 1.20metres below ground level to ensure the location is free from buried services.

Where the person who is trained and competent in the use of the CAT and Genny is on site at the material time, the bottom of the hand dug pit will be checked with the CAT prior to continuing with any drilling work.

Underground Services	Yes ✓	No ✓
Are Underground Services likely to be present?	✓	
If yes, Consideration must be given to the Company Health, Safety and welfare Manual and relevant SWP's .		

Over-Head Services	Yes ✓	No ✓
Are Over-head Services likely to be present? (Additional reference may be required in respect to Rail / Tramway Operators and their Overhead Powerlines, i.e. Possession / Isolation requirements etc. If applicable, insert information in (c)(i) below.	✓	
If Yes, Consideration should be given to relevant SWP. (Additional reference my be required in respect to Rail / Tram overhead powerlines, i.e. Possession / Isolation requirements)		

(c)(ii) Rail / Tramway Operator requirements:

Not required.

2. MANAGEMENT OF THE WORK

(a) Management Structure

The Management Structure for the project shall be in accordance with 1(b) above. It shall be the responsibility of the **Site Supervisor** to coordinate and manage the day-to-day activities. In the event that the **Site Supervisor** is unable to deal with or address any particular issue(s) that may arise, liaison in accordance with 1(b) shall be undertaken.

Health and Safety Advice

Any Health and Safety issues that cannot be resolved on site by the **Site Supervisor** shall be communicated to the **SHEQ Director** or **Regional Manager** for action.

(b) Health and Safety Goals

The Health and Safety Goals set by the Client are communicated in the pre construction information and are:

- The Principal Contractor will co-ordinate its activities and those of Client direct appointed contractors, so as to ensure the health and safety of all persons carrying out the works and those affected by those works. The Principal Contractor must demonstrate how this will be achieved.
- The Principal Contractor must be aware of the requirement to coordinate and contact parties who have an interest in the activities associated with this contract.
- Effort and support must be provided by the Principal Contractor in determining and eliminating areas of risk and hazardous activities when carrying out their works.
- Co-ordination between all parties shall be implemented through communication, cooperation, operational procedures and meetings. Principal Contractor method statements and risk assessments are to be reviewed by the Client prior to the associated works commencing. When required by the Client additional associated documents will, if requested, be produced for the Principal Contractor in support of method statements and risk assessments.

Monitoring and Review of Health and Safety Performance

The **Site Supervisor** will be responsible for monitoring the day-to-day site health and safety requirements and shall make a record of any shortfalls in the standards required, within the site diary. To assist the **Site Supervisor**, each respective **Contractor** working on or involved in the project shall be responsible for monitoring their individual health and safety on site.

On completion of the project, the Site Supervisor shall complete the project close out form which will allow for the provision of any comments in relation performance and any shortfalls or recommendations in relation to training and competence.

The **Project Engineer**, a member of the **Company Management** and / or the **SHEQ Director** shall undertake a Site Inspection or Site Audit if requested to do so by the **Site Supervisor**, or if any of the aforementioned deems it necessary.

(c) ARRANGEMENTS FOR:

(i) Regular liaison between parties on site

The **Site Supervisor** shall ensure that there is regular liaison between all parties involved within the construction work. This will be in the form of a daily communication with all parties working on site under the control of the Company.

Where requested by the **Principal Designer or Client**, regular progress meetings shall be implemented. These are currently scheduled for every Thursday at 3pm.

(ii) Consultation with the workforce

Involving the workforce, including Sub-Contractors in identifying and controlling risks is crucial in the way that the Company considers its protection arrangements. Comments and suggestions put to the Company by any party carrying out work on its behalf will be welcomed and considered.

Prior to the planned works commencing on site, the **Site Supervisor** shall carry out a 'Point of Work Risk Assessment' in order to ensure that all the foreseen hazards are controlled adequately in order to ensure the Health, Safety and Welfare of all personnel working on site.

All workers on site shall be provided with a suitable site-specific induction in order to inform them of the arrangements in place at the work site (see (c)(viii) below), which will include arrangements for serious and imminent danger, and the requirements and methodology for the cooperation and consultation of the workforce.

Clarification with all **Contractors** utilised on site shall be undertaken to ensure that all workers understand their responsibilities.

COVID 19: Geotechnics have developed a safe working procedure (SWP20, Covid-19), this is based on the Construction Leadership Council Site Operating Procedures.

(iii) Exchange of Design Information

Given the iterative natures of ground investigation works, it is expected / it is not expected (delete accordingly) that design changes may be required. Design changes to Ground Investigation works include:

1. Significant changes to investigation locations,
2. Significant changes in depth / size of bore hole.

Site correspondence between Geotechnics Ltd **Site Supervisor** and the **Client or Designer or Principal Designer** .will be permitted to accommodate minor changes in scope. Major design changes will require the issue of revised design information by the **Client or Designer**, and in consultation with the **Principal Designer.**

Where major changes are identified or deemed necessary, the **Project Engineer** shall liaise directly with the **Principal Designer**. Likewise, it is expected that the **Principal Designer** shall bring to the attention of the **Project Engineer** any information or changes that the **Project Engineer** should be expected to be notified on.

(iv) Handling design changes through the project

It is anticipated that any such changes shall be communicated through the **Principal Designer/Designer** to the **Project Engineer.**

(v) The Selection and control of Contractors

All Drilling contractors to be used on site have completed the Company's internal approval process and are listed on the approved register.

All hired plant operators shall have valid CPCS cards in their personal possession at all times, and these shall be inspected prior to the plant and operator being allowed to commence work on site.

(vi) Exchange of Health and Safety Information between Contractors

All **Contractors** shall be required to attend an Induction programme prior to commencing work on site and undertake regular liaison with the **Site Supervisor** in accordance with **(c)(i)** above.

A record of the Induction shall be kept on site by the Suite Supervisor.

(vii) Site Security

The Site Security shall consist of mobile PID security units supplied by DeterTech within the compound area. No equipment is to be left on the beach between shifts.

(viii) Site Induction and Briefing

The Site Supervisor shall ensure that each member of the team will receive an induction on the salient points of the Project Method Statement, relevant Safe Working Procedures, Company Guidance and Information Sheets, any specific Method Statements, any Environmental considerations and Site Rules prior to undertaking any work on site. A record of the Induction will be held in **Appendix H.**

Site Induction shall be undertaken prior to the start of the Construction work, and as and when required as additional personnel attend or visit site. The Site Supervisor should must also make it clear when working on site, mobile phones are only to be used in identified designated areas, to prevent any distraction to the user or others. Only in times of emergency should a mobile phone be used outside these areas. In addition, any personnel or visitor to site who has a medical condition which could be affected, or have an impact on the work, must inform the Site Supervisor so they are aware should an incident arise.

All Personnel who are working on site, including occasional visitors, shall be expected to undertake appropriate induction in accordance with the reasons for their presence on site.

(ix) On site training & Competency of Personnel on Site.

The Company approval process requires evidence of training and competence of all personnel working on site under the control of the Company.

The Company and Site Supervisor shall also ensure that other personnel under the control of the Company are trained and competent to undertake the tasks they are assigned.

The Site Supervisor shall check the training records of all personnel as relevant to the activities that are being undertaken.

In addition to the induction training, on going site training shall be delivered where any shortfall in knowledge is identified. Tool-box talks are available and shall be delivered as required. In the event that an Accident, Incident or Near-Miss is reported, an evaluation of the training needs shall be undertaken by the **Site Supervisor, Project Engineer**, and /or the **SHEQ Director.**

Appropriate refresher training shall then be delivered.

All personnel working on site under the control of the Company shall be in a possession of a valid and current CSCS or CPCS card in their name.

(x) Welfare Facilities and First Aid Provision

Welfare facilities shall comprise of the following: Welfare Units, drying room and Offices located at the main compound and a mobile welfare located on hardstanding adjacent to the beach access.

First Aid:

The Site Supervisor shall ensure that an appropriate First Aid kit provision is available for use and kept in the van/office/welfare unit.(delete as appropriate) In the event that additional first aid treatment or facility is required, the Site Supervisor shall ensure that the Emergency Services are called, or the casualty is transported to the nearest Accident and Emergency Unit, details of which are recorded in **Appendix C**.

The first aid trained person(s) on site shall be advised to all personnel working on site and shall be displayed in the Site Office where applicable.

The Geotechnics First Aider on Site will be: **Name:** Jonathan Gray **Mobile:** 07810 838371

(xi) Reporting and Investigation of Accidents, Incidents and Near Misses

All Accident, Incidents and Near Misses shall be reported in accordance with the Company Accident, Incident and Near-Miss Reporting Procedures.

In addition to any requirements of the **Client,** the **Site Supervisor** shall verbally report all Accidents, Incidents and Near-Misses to the **Project Engineer** and **SHEQ Director** in the first instance, followed by a written report..

The **SHEQ Director** shall determine the extent of any investigation to be carried out, and shall ensure that any statutory reports are compiled and submitted in accordance with the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR). Details of any such report, shall be communicated to the **Client.**

Accident and Incident/Near-Miss report forms are held by each **Site Supervisor / Employee** within their individual Health, Safety and Environmental Information and Guidance file.

(xii) Production and approval of Risk Assessments and CPP

Relevant Risk Assessments and the CPP shall be reviewed by either: the **Engineer** formulating the CPP, the **Project Engineer, Checking Engineer** or the **SHEQ Director,** and shall be confirmed via a signature on the front cover sheet. The **Site Supervisor** shall monitor the work and subsequent Risk Assessments throughout the project.

(d) Site Rules & Personal Protective Equipment (PPE) and Clothing requirements.

The **Site Supervisor** shall ensure that all personnel working on the site comply with the Company's Generic Site Rules and any additional site specific rules. A copy of any Company Generic Site Rules is attached in **Appendix B.**

The **Company** does not condone illegal drug taking or alcohol abuse in any manner. All personnel working on any site under the control of the **Company** shall do so in accordance with the **Company's** Drugs and Alcohol Policy.

The following PPE shall be worn at all times:

- High visibility waist-coat or jacket
- Safety helmet (c/w ear defenders and ICE tag), safety glasses and gloves
- Safety boots or safety wellingtons (dependent on dynamic risk assessment)

Note: Hearing protection shall be required to be worn in instances such as when using a hydraulic breaker, operating the window sampling rig or rotary percussion drilling.

(e) Fire and Emergency Arrangements

Fire Safety:

The arrangements in relation to fire are as follows:

Site Compound:

Means of raising the alarm: Shout **"Fire Fire"**

Assembly point is located at : **Front of Compound Area, adjacent to Glascoed Road.**

On Site:

Means of raising the alarm: Shout **"Fire Fire"**

Means of fighting a fire: The Site Supervisor shall ensure that appropriate types and numbers of fire extinguishers are provided in relation too, and located near to the perceived risk. These shall be checked by the Site Supervisor to ensure that they have a current service and maintenance record, and appear to be operational.

Only trained and competent personnel shall use a fire extinguisher, and shall only do so if their immediate safety or exit route is not compromised.

In the event that the Fire Emergency Services are required, these will be contacted by either the Site Supervisor or Lead Driller.

Fire Assembly point: The fire assembly point shall be located at agreed location for each work area.

Site Fire Safety:

In the event that any equipment or machinery causes a fire, the **Operator** shall deal with the fire accordingly, whether that be by tackling the fire if safe, competent and confident to do so, or by calling the emergency services.
If the fire becomes out of control, the operator shall contact the emergency services via 999. A verbal report shall be made to the **Site Supervisor**, followed by the completion of the Company Incident / Near Miss Report form (see (xi) above)

All vehicles and equipment operating on site under the control of the **Company** shall carry appropriate fire extinguishing agents in order to combat the foreseeable risks that may be posed by the equipment and its operation.

As a minimum, each vehicle shall carry one appropriate fire extinguisher. The **Site Supervisor** shall check the fire extinguisher during the initial induction.

Emergency information and Accident and Emergency Unit Location Plan are documented in **Appendix C** Additional standard Emergency Procedures are documented in the Company's SWP - Standard Emergency Procedures and Information.

3. ARRANGEMENTS FOR CONTROLLING SIGNIFICANT RISKS:

(a) Safety risks, including

(i) Delivery and removal of materials and work equipment including access and egress

Extreme caution will be exercised when gaining access to the work site with respect to third parties. Particular access routes and instructions will be observed. Access to each exploratory hole position will be made via routes agreed with the Client**, Landowner and Access Co-ordinators (Dalcour Maclaren),** on site with consideration to ground conditions and any known.

(ii) Dealing with Services – water, electricity, gas, telecommunications or other

The **Client** shall provide relevant pre construction information on the services that are present on the work site – *Indicate which services are known to be present and the controls required in order dealing with their presence.*

Services Identified

Electricity	Yes (✓)	No ( )	Control Measures to be implemented
Water	Yes (✓)	No ( )	Control Measures to be implemented
Gas	Yes (✓)	No ( )	Control Measures to be implemented
Telecommunications	Yes (✓)	No ( )	Control Measures to be implemented

All services information will be provided, and will be with the site supervisor during the investigation. This can be accessed by anyone requiring to see it on site.

The exact location of services, plant and equipment is not guaranteed from utility plans and no warranty as to the accuracy or completeness of this information can be provided.

Prior to braking ground, a GPR Survey will be carried out at all exploratory hole locations.

A Permit to Drill / Dig is to be filled in for each position.

Prior to undertaking any breaking out, each respective location shall be checked for buried services via the use of a GPR Survey, Cable Avoidance Tool (CAT) and where appropriate, Signal Generator (Genny).

If a service strike occurs then all work is stop immediately. The working area is to be cordoned off and made safe and first aid applied and/or medical help called for. The site supervisor (or engineer) is to then call the Company Health and Safety Manager immediately for help and guidance. Once safe to do so the Client shall be informed to allow the STW to take appropriate action.

Below states the emergency procedures in the event that a cable or pipe is damaged (please see SWP13 for further details).

Procedure for Live Cable Strikes:

- Do not touch the excavator/drilling rig.

- If the driller/driver is unhurt he must jump off / out without coming into simultaneous contact with the drilling rig or excavator and the ground. This will avoid the electrical power passing to earth through him.

- If the driller/driver is injured do not assist until the electrical power has been switched off.

- Maintain guard on site whilst the electrical authority is being notified.

Procedure for Fractured Gas Main:

- Extinguish all naked flames.

- Shut off all plant (except certain electrical items where the action of switching off could give rise to sparking that could cause ignition).•Evacuate the area.

- Contact the Gas Board.

Procedure for Fractured Water Main:

- Notify the Water Authority.

- Take any action necessary to minimise a risk of instability of the pit as result of flow of water.

- Use excavator to create drainage channels to minimise damage to property.

(iii) Accommodating adjacent land use

Consideration has / will be given to adjacent land use during the site inspection / commencement of the works and based on the information provided in the Pre-Construction Information by the **Client.**

The beach and Foreshore will be open to the public during the ground investigation.

All vehicles are to only use agreed access routes.

All vehicles are to maintain a 5mph speed limit on site.

All personnel will wear High Visibility clothing conforming to BS EN471:1994 Table 1, Class2 or 3. PPE on the high speed roads will conform to EN471 Class 3, consideration should be given to the wearing of high visibility over-trousers as an additional aid to the visibility of the employees.

Rotating beacons to be illuminated whilst moving vehicles on site.

If required to use a mobile phone, members of staff are to stand still when making a call to prevent them from accidentally "walking and talking" within the car park.

Regardless of the above, prior to commencing the proposed works, the Site Supervisor shall carry out a visual 'Point of Work Risk Assessment' in order to ascertain if there has been any significant changes in the perceived or known site hazards. In the event that anything is identified, the Supervisor shall liaise with the Client's Supervisory presence.

All members of staff should act in a polite and courteous manner and address all queries from the public to the Client.

(iv) Stability of structures, temporary structures and/or existing structures

The Pre-Construction Information has identified the presence of the above.

The hazard identified in the pre-construction information is the footprint of a historical building adjacent to the beach access. This area is to be avoided so the building remains are not disturbed.

(v) Preventing falls

The Significant risk of falls is deemed applicable during the use of Cable Percussion Drilling Rigs and Machine Excavated trial pits. This is addressed further and specifically in the respective the Company SWP - Cable Percussion Boring and SWP - Trial Pitting - Hand and Machine Excavation

In the event that long grass and other obstacles are encountered on site, the site shall be organised in such a manner that safe and appropriate walk/traffic routes are identified.

In the event that working at height (other than the aforementioned) is required, a specific risk assessment shall be undertaken.

(vi) Work on or near fragile roofs

Not applicable.

(vii) Control of Lifting Operations

Not applicable.

(viii) Maintenance of Plant and Equipment

The Drilling Contractors to be used on site have provided evidence that their equipment to be used on site will be inspected, maintained and tested in accordance with PUWER and LOLER.
Prior to allowing the equipment to be used on site, the Site Supervisor shall check that the relevant documents and certification held by the contractor is valid and in date, and that the equipment is furnished with the relevant safety protection devices, that they operate efficiently, and that the equipment appears to be in an appropriate and suitable state of repair for use.

Additional information can be found in the Company Health, Safety and Welfare Manual, and SWP - Safe Use of Mobile Plant and SWP – Provision and Use of work Equipment.

(ix) Work on excavations and work near where there are poor ground conditions

Refer to SWP - Trial Pitting - Hand and Machine Excavation, and SWP - Soft Ground Conditions.

It is expected that the hand dug inspection pits will be in soft ground.

(x) Work on wells, underground earthworks and tunnels

Not applicable.

(xi) Work on or near water where there is a risk of drowning

Work is being carried out on the beach in low tide conditions.

If applicable, a specific Risk Assessments will be required. If not applicable, indicate as such.

(xii) Work involving diving,
(xiii) Work in a Caisson or compressed air working, and
(xiv) Working involving explosives.

Not Applicable.

(xv) Traffic routes (including access to site(s)), and segregation of vehicles and Pedestrians

Access to the site will be through agreed access to the beach at Ffrith Beach via Ferguson Avenue. Vehicle use and access to be kept to a minimum in order to maintain access to beach car park and bowls centre.

The transport to the site and around the site will be by the use of Land Rovers and Transit type vans. The CPT rig will be delivered to site on a low loader. All vehicles shall be driven / operated in accordance with the site rules at all times and have hi-viz chevrons and amber beacons.

The Drilling equipment shall be transported by Land Rovers and Transit type vans towing trailers. Once on site the Cable Percussion rig will be towed by a 3.5T dumper. The CPT rig will be a low bearing pressure "Bogskipper" rig and will be self-propelled to its work areas.

Where applicable, vehicles that are not used on site shall be parked in the area / car park designated by the Client, this being adjacent to the beach access.

An assessment on the requirements for Traffic Management (TM) has indicated that traffic management is not required, but signs and a constant supervisory presence may be required on the beach to keep members of the public away from vehicle movements and work areas.

All staff must be aware that the route used to access the beach is fully open to and used by the public including as a cycle route and that the route is adjacent to a Children's Play Area and Sports Court. Temporary signs and a supervisory presence will be required for all vehicle movements and a speed limit of 5mph be maintained when using the access route.

(xvi) Storage of materials and work equipment

All substances and equipment shall be stored in the site compound area, or within vans.

Where any equipment has to be left on site over the borehole, it shall be secured and herras fenced off in order to prevent access to unauthorised personnel (so far as is reasonably practicable).

(xvii) Other site specific significant safety risks

Following a site visits, the following site specific hazards have been identified, and are documented in **Appendix D.**

1. Tidal Works

The Boreholes and CPTs will be carried out in intertidal regions of the beach. As such, care must be taken to ensure that the state of the tide is considered when trial pit operations commence. The predicted tides are presented in separate document (to be included with site information)**.**

Previous ground investigation works on this site, carried out 2027-2020, did not encounter any issues concerning quicksand in the intertidal areas. A tracked CPT rig and tracked dumpers towing the cable percussion rig (fitted with wide floatation tyres) will be the only type of plant machinery permitted on the beach, and will impose lower ground pressures than wheeled plant. In addition, as operations will be carried out at low tides only, plant and machinery can traverse the foreshore around the end of the groynes and no section of groyne should be removed. If any circumstances are presented in which the presence of quicksand environments are demonstrated on site, a dynamic risk assessment will be carried out and relevant mitigations put in place.

Some of the exploratory holes are located beyond the ends of the groynes which are positioned approximately 40m apart. Due to the presence of these, it must be noted that the effective time windows available between tides is considerably reduced. The programme of works is presented in Appendix A and shows the tide times for the days on site.
Below is an action plan to be implemented in the event that the plant becomes stuck on the beach or suffers mechanical breakdown.

Should the excavation plant become stuck or suffer mechanical breakdown, it is imperative that the plant is recovered rapidly before the tide advances and cuts off egress.

Machinery stuck on beach

1. Use the tracked dumper or standby excavator to pull the affected rig from the beach. If the excavator will be used to assist a rig, the following practices must be upheld:
    - Use certified and suitably rated strops or chains for towing and pulling.
    - Ensure that no persons are within close proximity of the plant.
    - Maintain constant communication between the machinery using a radio (if present) or a banksman, who will employ hand signals whilst remaining at a safe distance from the operation.

Machinery cut off by tide

1. If the water line has advanced to the end of the groynes, it may be possible to track carefully through the surf if the water depth remains shallow. However, extreme care must be taken to ensure that hydraulic forcing has not generated weak and unsupportive areas of beach sediment in the newly submerged zones.
2. Constant vigilance and adherence to the daily tide times are required to ensure that sufficient time is allowed so that machinery has sufficient safe time to leave the beach each day.

Additional Generic Risk Assessments have been carried out for 'day-to-day' activities applicable to the **Company's** undertakings. Refer to Generic Risk Assessments

(b) Health Risks:

(i) Asbestos

The Company has provided appropriate asbestos awareness training to its employees.

Where any Asbestos Containing Material (ACM) is identified within the Pre Construction Information as being present, it is expected that all of the respective risks related to its presence will be assessed by the **Person** in **Control of the Premises** in which it is identified. The Asbestos Register will form part of the Pre Construction Information and will be communicated by the **Principal Designer** or **Client.**

In the event that any suspect ACM is encountered in areas where it is not known, and would not reasonably be expected to be known, the **Company** shall work in accordance with its Asbestos Policy. As the works progress, any suspected ACM will be immediately brought to the attention of the **Principal Designer** or **Client** for resolution.

It is not the policy of **Geotechnics** to remove or knowingly work with an ACM other than what may be within samples of ground.

If any ACM is suspected or discovered, work should cease and the area will be isolated whilst the problem is discussed with **Client/Principal Designer and Designer**.

(ii) Dealing with Contaminated Land and additional Environmental Considerations

The site category is often classified within the Tender / Pre-Construction Information. Consideration has been given to the guidelines for the safe investigation by drilling of landfills and contaminated land, issued by the Site Investigation Steering Group (SISG), the BDA Guidance for Safe Intrusive Activities on Contaminated or Potentially Contaminated Land in conjunction with a Company Internal Assessment based on available information. The site has been classified as a ……. site. The procedures to be implemented to each respective site correspond to an SWP as indicated below:

Type of Site	**Guidance & Information Sheet (GIS) Number**	✓ as appropriate
Green Site	01	
Yellow Site	02	
Red Site	03	

This assessment will be continually reviewed at each particular location as work proceeds. If more severe levels of contamination are encountered, work will cease until such times as a revised safe working system is established.

Appropriate PPE will be provided for use by all operatives in accordance with the relevant GIS and Risk Assessment.

Additional Environmental Considerations:

This affects of the proposed works on the environment and the controls to mitigate those effects are recorded on the Company document EN301B. A copy of the relevant section of this document is inserted into **Appendix E.**

(iii) Manual Handling

Refer to the Company Health, Safety and Welfare Manual and the Manual Handling and Lifting, SWP.

(iv) Hazardous Substances
Refer to the Company Health and Safety Manual and the Generic COSHH Assessments. Any Site Specific COSHH Assessments required after consideration is given to **(b)(ii) Dealing with Contaminated Land,** and any specific processes or specific use of unfamiliar substances, are documented in **Appendix G.**

(v) Reducing noise and vibration
Refer to the Company Health, Safety and Welfare Manual.

(vi) Work with Ionising Radiation
Not Applicable.

(vii) Exposure to UV radiation (sun)
Refer to the advice for Working Outdoors Guidance and Information Sheet - Advice for Working Outdoors - UVA/ UVB (Sun Protection)

(viii) Any other significant health risks
• Leptospirosis (Weil's Disease) • Lyme Disease • Psittacosis, • Tetanus

4. THE HEALTH AND SAFETY FILE:

(a) layout and format, (b) arrangements for the collection and gathering of information, and (c) storage of information.
The above requirements shall be coordinated by the **Principal Designer**. The **Principal Designer** has identified the format and requirements of the information for the Health and Safety File in the pre construction information. The information provided by the **Company** shall be in the form of documents from the Company Sitework Procedures Manual, Daily Activity Briefings, and any reports generated during the ground investigation (accidents, near miss forms etc…)

Appendices

Appendix A	Risk Assessments, Existing Plans and records of the site provided by the Principal Designer / Client / Client's Representative
Appendix B	Company Generic Site Rules & Any Site Specific Rules
Appendix C	Emergency Information and Accident and Emergency Unit Location Plan
Appendix D	Other Site Specific Significant Safety Risks
Appendix E	Environmental Considerations – EN301B – Risk Assessment
Appendix F	Specific Processes or Specific unfamiliar substances to be used on site
Appendix G	List of applicable Safe Working Procedures (SWPs).
Appendix H	Site Induction and Briefing Record

APPENDIX A

RISK ASSESSMENTS, EXISTING PLANS AND RECORDS OF THE SITE

HEALTH & SAFETY - Risk Assessment - General Site Work

Project	Awel y Mor Offshore Windfarm – Onshore Geotechnical Site Investigation (Foreshore Work)	Project No.	PN234604
		Date	29 January 2024
Client	AYMOWFL	Compiled by	CPB

Risk (R) = Likelihood x Severity			Likelihood (L)	Severity (S)				
				Negligible=1	Minor=2	Absence=3	Major=4	Fatal=5
1 to 6	Low	Ensure control measures are maintained.	Remote=1	1	2	3	4	5
8 to 10	Medium	Unacceptable risk - implement control measures	Unlikely=2	2	4	6	8	10
12 to 25	High	Unacceptable risk - Specialist knowledge required to implement control measures	Possible=3	3	6	9	12	15
NOTE: The following PPE is mandatory and shall be worn at all times: High Visibility Waist-Coat or Jacket, Safety Helmet, Safety Glasses, Gloves and Safety Boots or Safety Wellingtons			Probable=4	4	8	12	16	20
			Certain=5	5	10	15	20	25

			Initial Risk						Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
All site Work	Interaction with the Public	Employees, Sub Contractors	3	4	12	•Consideration has / will be given to adjacent land use during the site inspection / commencement of the works and based on the information provided in the Pre-Construction Information by the Client. •The beach and Foreshore will be open to the public during the ground investigation. •All vehicles are to only use agreed access routes. •All vehicles are to maintain a 5mph speed limit on site. •All personnel will wear High Visibility clothing conforming to BS EN471:1994 Table 1, Class2 or 3. PPE on the high speed roads will conform to EN471 Class 3, consideration should be given to the wearing of high visibility over-trousers as an additional aid to the visibility of the employees. •Rotating beacons to be illuminated whilst moving vehicles on site. •If required to use a mobile phone, members of staff are to stand still when making a call to prevent them from accidentally "walking and talking" within the car park. •Regardless of the above, prior to commencing the proposed works, the Site Supervisor shall carry out a visual 'Point of Work Risk Assessment' in order to ascertain if there has been any significant changes in the perceived or known site hazards. In the event that anything is identified, the Supervisor shall liaise with the Client's Supervisory presence. •All members of staff should act in a polite and courteous manner and address all queries from the public to the Client.	1	4	4

			Initial Risk				Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
All site Work	Working Near water with tidal conditions, Drowning, Contaminating water courses	Employees, Sub Contractors	3	5	15	• The Boreholes and CPTs will be carried out in intertidal regions of the beach. As such, care must be taken to ensure that the state of the tide is considered when trial pit operations commence. The predicted tides are presented in separate document (to be included with site information). • Degradable lubricants required for working on Foreshore. • Constant vigilance required by all staff on site to timings of the tide so that safe access and egress from site to be maintained. • Emergency action plan to be included with site information.	1	5	5
All site Work	Weils Disease (leptospirosis)	Employees, Sub Contractors	3	4	12	•Weils can be spread from urine, blood and bodily tissue from infected rats, cattle, pigs and dogs. Extra care should be taken when working near any of these animals. •Wear gloves for all site activities. •Wash hands before smoking and eating food. •Monitor yourself for up to 3 months after site work for possible flu-like symtoms.	1	4	4
All site Work	Lymes Disease	Employees, Sub Contractors	3	4	12	•Lymes disease is spread by ticks and extra care should be taken when working on grassland where these may be present. •Long trousers must be worn at all times on site. •Check yourself intermittently for ticks. If a tick is found do not attempt to remove it without the appropriate tick removal tools. If in doubt, seek medical advise. •Monitor for signs of infection, such as an expanding area of redness on the skin that appears at the site of the tick bite about a week after it occurred.	1	4	4
All site Work	Wild animals, invasive plant species	Employees, Sub Contractors	3	4	12	•Wild animals may be dangerous (eg snakes, badgers) or protected (eg bats, newts) and reference should be made to individual species within site procedures Section 2.3 (Environmental Data Sheets) regarding their identification and restrictions. •Invasive Species (eg Knotweed, Himalyan Balsam, Giant Hogweed) should not be approached or transported and reference should be made to individual species within site procedures Section 2.3 regarding their identification and restrictions. •If invasive species are identified adjacent to work areas or along access routes then work should be stopped in the these areas and advice taken from Geotechnics Environmental Champion on how to safely proceed without spreading the species identified.	1	4	4

HEALTH & SAFETY - Risk Assessment - Hand dug Inspection Pits

Project	Awel y Mor Offshore Windfarm – Onshore Geotechnical Site Investigation (Foreshore Work)	Project No.	PN234604
		Date	29 January 2024
Client	AYMOWFL	Compiled by	CPB

Risk (R) = Likelihood x Severity			Likelihood (L)	Severity (S)				
				Negligible=1	Minor=2	Absence=3	Major=4	Fatal=5
1 to 6	Low	Ensure control measures are maintained.	Remote=1	1	2	3	4	5
8 to 10	Medium	Unacceptable risk - implement control measures	Unlikely=2	2	4	6	8	10
12 to 25	High	Unacceptable risk - Specialist knowledge required to implement control measures	Possible=3	3	6	9	12	15
NOTE: The following PPE is mandatory and shall be worn at all times: High Visibility Waist-Coat or Jacket, Safety Helmet, Safety Glasses, Gloves and Safety Boots or Safety Wellingtons			Probable=4	4	8	12	16	20
			Certain=5	5	10	15	20	25

			Initial Risk						Residual Risk
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Hand Digging	Buried services / structures.	Employees Sub Contractors General Public	3	5	15	• Prior to any trial pit being commenced, reference should be made to SWP 03-Trial Pitting - Hand and Machine Excavation, SWP 08-Underground Services and SWP 09-Use of Cable Avoidance Tool and Signal Generator. •A GPR Survey is to carried out at all Exploratory Hole Location. • If any services or structures are encountered, these should be recorded along with their depth and orientation and the location backfilled. The borehole position will then be re-sited. • A Permit to dig / drill shall be issued prior to breaking ground and excavating to a minimum depth of 1.2 metres. •The bottom of each hand dug pit shall be CAT scanned prior to any drilling work commencing.	1	5	5
Hand Digging	Working Near water with tidal conditions, Drowning, Contaminating water courses	Employees, Sub Contractors	3	5	15	• The Boreholes and CPTs will be carried out in intertidal regions of the beach. As such, care must be taken to ensure that the state of the tide is considered when trial pit operations commence. The predicted tides are presented in separate document (to be included with site information). • Degradable lubricants required for working on Foreshore. • Constant vigilance required by all staff on site to timings of the tide so that safe access and egress from site to be maintained. • Emergency action plan to be included with site information.	1	5	5

			Initial Risk						Residual Risk
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Hand Digging	Slips / Trips & Fall.	Employees Sub Contractors	3	3	9	• Care should be taken when accessing work site observing any wet and uneven surfaces on the beach. • The work site should be kept clean and tidy as far as possible at all times. • Agreed access routes should be used. • All personnel working on site should maintain vigilance and report any concerns that they cannot readily rectify.	2	3	6
Hand Digging	Contact with sharps, contaminated soils or water	Employees Sub Contractors	3	3	9	• Appropriate gloves should be worn if contact with soils or water is likely. • Personnel undertaking the activity should be observant for any potential sharps, i.e. broken glass or discarded hypodermic needles. If hypodermic needles are encountered then all works on site shall be stopped until they have been dealt with accordingly. Staff are not to remove items. • Good hygiene practices should be observed ensuring that hands are washed prior to eating or smoking. • You must be sure you have had the full course of Tetanus vaccinations, if you are unsure contact your GP. • Reference should be made to SWP 11- General Site Safety, SWP 12 -Housekeeping.	2	3	6
Hand Digging	Open excavation	Employees Sub Contractors General Public	3	3	9	• A hand dug excavation pit should not be left open and unattended without appropriate barriers & signage or cover in place so as to prevent persons from falling into it. • If the aforementioned control measures are not practical, the pit should be backfilled.	1	3	3
Hand Digging	Contaminated Land	Employees Sub Contractors	4	2	8	• Contaminated arisings to be placed on suitable membrane / containment to prevent spread of contamination and if not replaced back into the hole should be disposed of in a separate skip marked for containing contaminated arisings only. • In areas classified as "Yellow" or "Red" suitable protective clothing shall be worn. • Further advice and guidance should be sought from the Environmental Champion, Health and Safety Manager or other suitably qualified personnel.	3	2	6

HEALTH & SAFETY - Risk Assessment - Cable Percussive Boring

Project	Awel y Mor Offshore Windfarm – Onshore Geotechnical Site Investigation (Foreshore Work)	Project No.	PN234604
		Date	29 January 2024
Client	AYMOWFL	Compiled by	CPB

Risk (R) = Likelihood x Severity			Likelihood (L)	Severity (S)				
				Negligible=1	Minor=2	Absence=3	Major=4	Fatal=5
1 to 6	Low	Ensure control measures are maintained.	Remote=1	1	2	3	4	5
8 to 10	Medium	Unacceptable risk - implement control measures	Unlikely=2	2	4	6	8	10
12 to 25	High	Unacceptable risk - Specialist knowledge required to implement control measures	Possible=3	3	6	9	12	15
NOTE: The following PPE is mandatory and shall be worn at all times: High Visibility Waist-Coat or Jacket, Safety Helmet, Safety Glasses, Gloves and Safety Boots or Safety Wellingtons			Probable=4	4	8	12	16	20
			Certain=5	5	10	15	20	25

			Initial Risk					Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Drilling through contaminated land	Exposure risk to hazardous substances	Employees Sub Contractors General Public	3	3	9	• Reference should be made to Geotechnics Limited Guidance Information Sheets 01, 02 or 03 depending on the BDA (British Drilling Association) site categorisation. • In the event that the site is classified as 'Red', a specific Risk Assessment and procedures shall be required prior to commencing any work on site. • Further advice and guidance should be sought from the Environmental Champion,	2	3	6
Breaking ground	Buried Services	Employees Sub Contractors	3	5	15	• A check for buried services must be made prior to commencing hole. • Reference must be made to SWP's 01-Cable Percussion Boring, SWP 03-Trial Pitting - Hand and Machine Excavation, SWP 08-Underground Services and SWP 09-Use of Cable Avoidance Tool and Signal Generator. • GPR Survey to be carried out at all exploratory hole locations. • A Permit to dig / drill shall be issued prior to breaking ground and excavating to a minimum depth of 1.2 metres.	1	5	5
Set up and operation of cable percussion drill rigs	Stability of drill rig during operation	Sub Contractors	3	5	15	• Ensure that only operators with the necessary skills, knowledge, training and experience operate cable percussion drill rigs. • Ensure that the stay bars are connected and secured with bolts or retaining pins at all times once the rig has been erected. • Ensure that the footprint of the rig is in firm, three point contact with the ground surface before commencing operation. • Throughout the drilling operations periodically check the stability of the rig, if required stop work and adjust to level.	1	5	5

Initial Risk							Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Transporting on site and Setting up / bringing down the rig.	Entrapment with overturning cable percussion drill rig due to uneven ground, slopes, collapse during transportation, erection and striking down.	Sub Contractors	3	5	15	• Determine the route prior to travelling to the borehole location(s), select the most appropriate routes to avoid obvious soft spots and minimise avoidable damage; If drilling is required on slopes, benching or scaffold platforms may be required. • Consideration should also be given to the additional weight that may be generated by the drilling operation i.e.. the pull down forces used to extract casing and the overall stability of the rig whilst moving. • When reversing, utilise the second man to act as a banks-man. (banks-man to wear upper-body Hi-Vis clothing). Additional timbers maybe required to enable the levelling of the rig. Care should be taken whilst travelling the route maintaining vigilance for trip / slip hazards and other moving vehicles or machinery. • The rig should be set up and operated in accordance with SWP 01 – Cable Percussion Boring. Additional timbers maybe required to enable the levelling of the rig. All drilling equipment should be compliant with current LOLER and PUWER legislation and be accompanied by in date certificates. • Equipment must be inspected before commencement of works to check for any defects or potential failure. Any equipment found to be unserviceable must be reported, destroyed/withdrawn and replaced if required.	1	5	5
Operation of cable percussion drill rigs	Contact or entrapment with moving parts	Sub Contractors	3	4	12	• Maintain safe distance from the tool whilst in operation. • Ensure people not involved in the drilling operations remain outside of the danger zone. If required erect Heras fencing to form secure work area around the drill rig. • The winch guard must be in place whilst the rig is in operation. • In the event of an emergency during operation the controls must be released, the brake applied and the engine stopped. Activate the emergency stop or switch off ignition. • Soft ground may lead to shifting of the rods/casing. Fully assess hazards prior to taking remedial action. • Do not allow hands to enter danger areas. • Ensure that the key is removed at all times when the drill rig is left unattended. • Do not work beneath suspended overhead tools. Always lower tools to ground level before conducting other operations below the crown wheel.	1	4	4

			Initial Risk				Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Operation of cable percussion drill rigs	Noise	Employees Sub Contractors General Public	4	3	12	• Cable percussion drilling equipment can exceed the upper action level of 85 dB which requires hearing protection to be worn as mandatory. • In order to minimise noise exposure, adequate hearing protection shall be readily available and worn as required. • The lead driller should monitor the noise levels from the rig and shall wear, and instruct the second man to wear, hearing protection as required. • Ear protection MUST be worn at all times during SPT testing works. • Area of cordon to be set up around the work area to prevent access by unauthorised people.	2	3	6
Operation of cable percussion drill rigs	Vibration	Sub Contractors	4	3	12	• It is not envisaged that any vibration generated by the drilling operation will exceed the permitted exposure level.	2	3	6
Operation of cable percussion drill rigs	Exhaust Fumes	Employees Sub Contractors	4	3	12	• Consideration should be given to the direction of the prevailing wind during the set up of the rig. • Where possible, the rig should be set up so as to allow the fumes being emitted from the exhaust to blow downwind from the driller. In the event that wind direction changes, or it is not possible to position the rig appropriately, the driller should try to take steps to minimise the fumes from being emitted into the breathing zone of the drilling crew. • Regular maintenance should minimise the degree of the fumes being emitted.	2	3	6
Operation of cable percussion drill rigs	Fire	Employees Sub Contractors	2	5	10	• Keep combustible materials clear from sources of heat (engine & exhaust) and utilise drip trays as required. • Foam, Dry Powder or Co2 fire extinguishers to be available on site. Fire extinguishers to be serviced and maintained in good working order. • The drill site to be kept clear of combustible materials that could assist fire in spreading. • Smoking is prohibited at the work site.	1	5	5
Operation of cable percussion drill rigs	Flying particles / dust	Employees Sub Contractors General Public	3	3	9	• In the event that excessive dust is generated, this should be dampened down with water. • Safety goggles and dust masks should be readily available and worn as required. • Readily available clean water or eyewash should be provided. • Any dust or debris should be kept to a minimum where practicable. The lead driller to continually monitor for any changes.	1	3	3

			Initial Risk						Residual Risk
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Housekeeping	Slips, trips and falls	Employees Sub Contractors	4	3	12	• The run out route should be monitored as location will be on soft beach ground and conditions will deteriorate with repeated trafficking of the same route. • Borehole location to be kept clear of debris. • Borehole location to be laid out in an orderly manner to minimise contact with ancillary equipment and consumables. • Work should be carried out in accordance to SWP - 12 Housekeeping. Rod trestles to be placed to allow for passage around the work site, trestles to be levelled such that rods do not roll and apply uneven load to one side. • The lead driller and second man to continually monitor for any changes to underfoot conditions. Where conditions deteriorate additional measures such as bog matting or ground protection boards may be required.	2	3	6
Accessing cable percussion rig components at the summit of the cable percussion drill rig	Working at Height	Sub Contractors	3	5	15	• Prior to any drilling works being carried out, the drilling equipment and drilling crew are to be checked to have suitable arrangements to prevent the need to work at height, as per AGS guidance. • The rig should be fitted with an ancillary winch which allows the machine to be lowered without the need for persons to climb the mast. • If for any reason the mast needs to be lowered or raised using the electric winch, the driller must check the condition of the drum, steel wire rope and rope guide to mitigate any chance of snagging or any issues with defects. • The Site Supervisor is to ensure all necessary checks of equipment have been made.	1	5	5
Removal of detached or stuck tooling in the bore hole	Impact with tooling	Sub Contractors	3	4	12	• Reference should be made to SWP 01A – Cable Percussion - Retrieval of detached or stuck tooling. • The retrieval of tooling should only be carried out in accordance with SWP 01A unless an alternate method is discussed and agreed with the Regional Office Manager or Health and Safety Manager.	1	4	4

			Initial Risk				Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Moving of drilling ancillary equipment	Manual Handling	Sub Contractors	4	3	12	• All Manual handling activities should be carried out safely and with reference to SWP 15 – Manual Handling and Lifting. • The drill site to be well organised with ancillary equipment set up in an orderly manner. • Drilling and SPT rods should be laid down and not left stood upright. The hammer and anvil is usually stood up and leant against the rig frame. (The potential risk of the hammer falling is outweighed by the more likely manual handling injury when picking up or laying down.) • Hands kept clear of all 'nipping or trapping' points on tooling when moving it. Care and attention should be continually restated so as to continue to work safely and cautiously. • In the event that additional help is required, this should be sought as opposed to taking risks. • Where possible, mechanical handling aids / assistance should be used at all times when undertaking manual handling activities.	2	3	6
Maintenance of cable percussion drill rigs	Failure of cable percussion rig components	Sub Contractors	3	4	12	• All plant and machinery must be in serviceable condition and checked to be so before commencing works. • All equipment must be accompanied by relevant LOLER and PUWER certification on site, which must reference any serial numbers and identifying numbers. • Daily checks must be carried out on all equipment and recorded, and the equipment must be monitored throughout the shift. If any faults are identified on site which cannot be rectified immediately, the machinery must not be used until equipment is repaired or replaced. • The Site Supervisor is to ensure equipment has relevant LOLER and PUWER certification prior to work commencing on site and ensure that daily check lists are completed prior to each shift. Checks lists are to be maintained for the duration of the project.	1	4	4

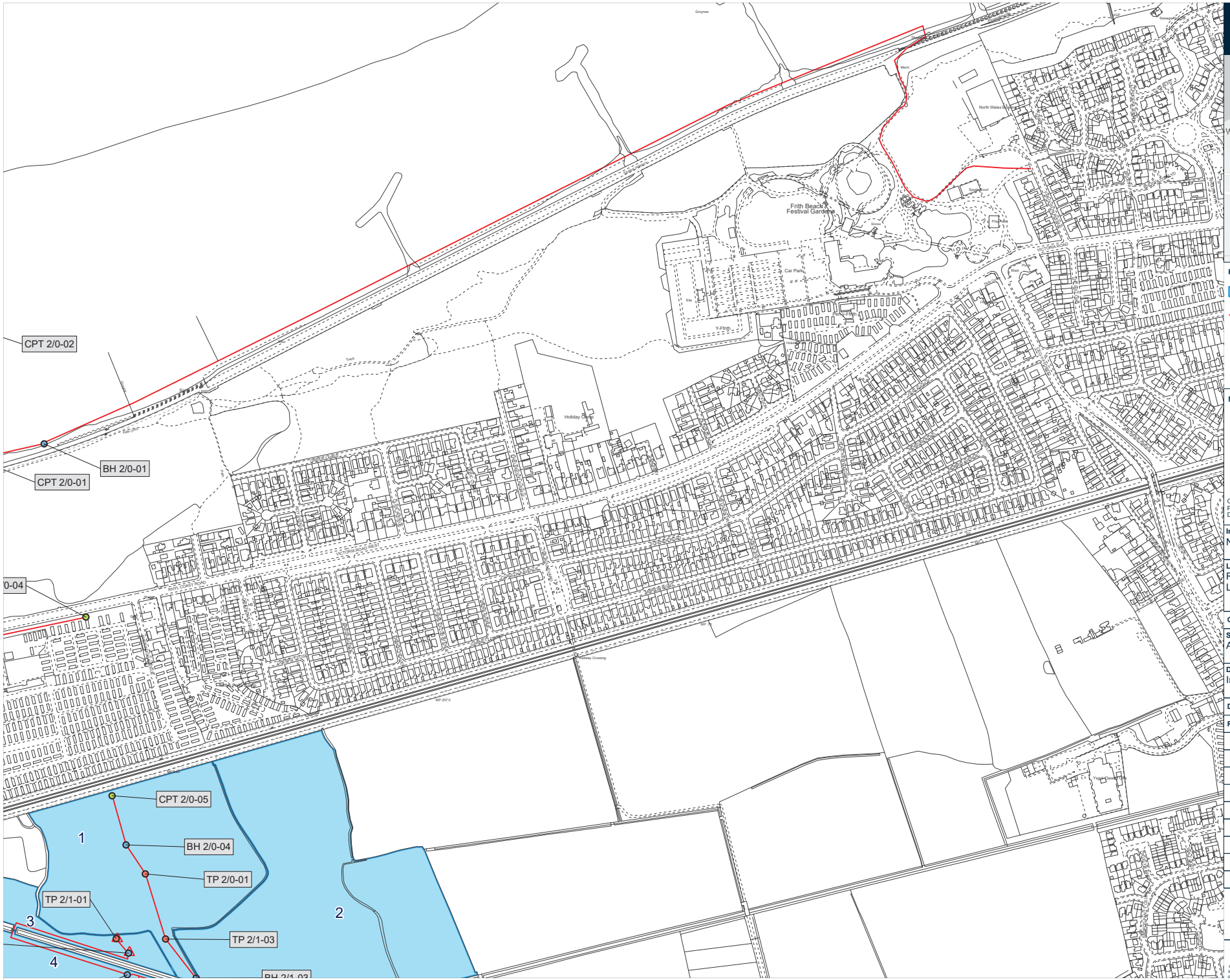
HEALTH & SAFETY - Risk Assessment - Dynamic Sampling and Probing

Project	Awel y Mor Offshore Windfarm – Onshore Geotechnical Site Investigation (Foreshore Work)	Project No.	PN234604
		Date	29 January 2024
Client	AYMOWFL	Compiled by	CPB

Risk (R) = Likelihood x Severity			Likelihood (L)	Severity (S)				
				Negligible=1	Minor=2	Absence=3	Major=4	Fatal=5
1 to 6	Low	Ensure control measures are maintained.	Remote=1	1	2	3	4	5
8 to 10	Medium	Unacceptable risk - implement control measures	Unlikely=2	2	4	6	8	10
12 to 25	High	Unacceptable risk - Specialist knowledge required to implement control measures	Possible=3	3	6	9	12	15
NOTE: The following PPE is mandatory and shall be worn at all times: High Visibility Waist-Coat or Jacket, Safety Helmet, Safety Glasses, Gloves and Safety Boots or Safety Wellingtons			Probable=4	4	8	12	16	20
			Certain=5	5	10	15	20	25

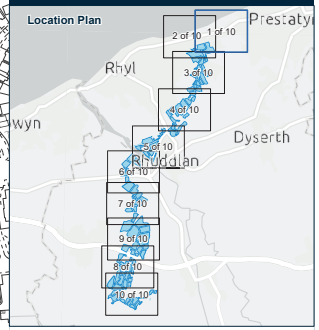
			Initial Risk					Residual Risk		
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Drilling through contaminated land	Exposure risk to hazardous substances	Employees Sub Contractors General Public	3	3	9	• Reference should be made to Geotechnics Limited Guidance Information Sheets 01, 02 or 03 depending on the BDA (British Drilling Association) site categorisation. • In the event that the site is classified as 'Red', a specific Risk Assessment and procedures shall be required prior to commencing any work on site. • Further advice and guidance should be sought from the Environmental Champion, Health and Safety Manager or other suitably qualified personnel.	2	3	6
Breaking ground	Buried Services	Employees Sub Contractors	3	5	15	• A check for buried services must be made prior to commencing hole. • Reference must be made to SWP's 04-Dynamic Sampling and Probing, SWP 03-Trial Pitting - Hand and Machine Excavation, SWP 08-Underground Services and SWP 09-Use of Cable Avoidance Tool and Signal Generator. •GPR Survey to be carried out at all exploratory hole locations. • A Permit to dig / drill shall be issued prior to breaking ground and excavating to a minimum depth of 1.2 metres.	1	5	5
Transporting on site and Setting up / bringing down the rig.	Entrapment with overturning drill rig due to uneven ground or slopes during transportation.	Sub Contractors	3	5	15	• Ensure propietary ramps are available for unloading Dynamic sampling drill equipment from vans. • Determine the route prior to travelling to the borehole location(s), select the most appropriate routes to avoid obvious soft spots and minimise avoidable damage.	1	5	5

			Initial Risk						Residual Risk
Activity	**Hazard**	**Persons who might be harmed**	**L**	**S**	**R**	**Control Measures**	**L**	**S**	**R**
Siting of Dynamic sampling drill rigs	Collision with vehicles using site	Employees Sub Contractors	3	5	15	• Locations to be in safe areas. • Working areas to be delineated where necessary. • As required area of cordon to be set up around the work area to prevent access by unauthorised people. • Risks to be continually assessed by the Site Supervisor.	1	5	5
Operation of Dynamic sampling drill rigs	Entrapment with moving parts	Employees Sub Contractors	3	3	9	• The drop weight guards shall be securely bolted into position. • All Guards shall be securely fitted in place at all times during drilling activities.	1	3	3
Operation of Dynamic sampling drill rigs	Noise	Employees Sub Contractors General Public	4	2	8	• Dynamic sampling drill equipment can exceed the upper action level of 85 dB which requires hearing protection to be worn as mandatory. • In order to minimise noise exposure, adequate hearing protection shall be readily available and worn as required. • The lead driller shall monitor the noise levels from the rig and shall wear, and instruct the second man to wear, hearing protection as required. • Ear protection MUST be worn at all times during SPT and Dynamic Probing works. • Area of cordon to be set up around the work area to prevent access by unauthorised people.	1	2	2
Operation of Dynamic / Continuous sampling drill rigs	Vibration	Employees Sub Contractors	2	3	6	•Operation of the rig does not require any holding or contact with vibrating parts and therefore it is not envisaged that any vibration generated by the drilling operation will exceed the permitted exposure level.	2	3	6
Operation of Dynamic sampling drill rigs	Exhaust Fumes	Employees Sub Contractors	3	2	6	• Consideration should be given to the direction of the prevailing wind during the set up of the rig. • Where possible, the rig should be set up so as to allow the fumes being emitted from the exhaust to blow downwind from the driller. In the event that wind direction changes, or it is not possible to position the rig appropriately, the driller should try to take steps to minimise the fumes from being emitted into the breathing zone of the drilling crew. • Regular maintenance should minimise the degree of the fumes being emitted.	2	2	4



DALCOUR MACLAREN

Location Plan



Key:

- Field Boundary
- GI Access Routes
- CP
- CPT
- TP

Notes:

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936

Interest: N/A

Location: Rhyl Coast Road, Rhyl, Denbighshire, LL18 3YE

Coords: 304329, 382609

Scheme Name: Awel y Mor Offshore Wind Farm

Drawing Name: Information Plan

Drawing No: 197212_PLN_INFO_134.1

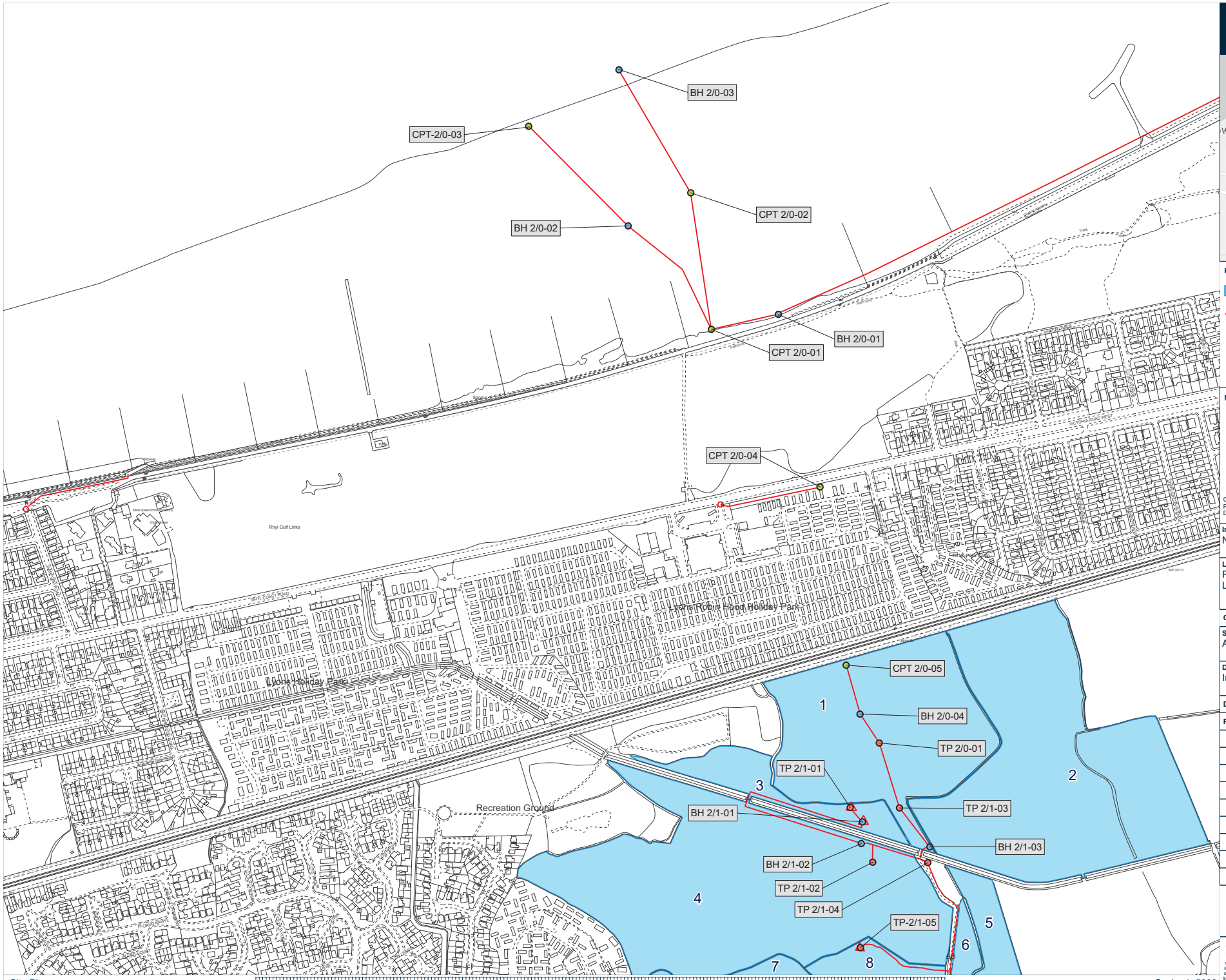
Rev	Date	Description
-	06.02.2024	First Issue

Drawn:	RT
Approved:	AN
Sheet No:	1 of 10
Sheet Size:	A3

Fferm Wynt Alltraeth
AWEL Y MÔR
Offshore Wind Farm

Scale: 1: 5000

Drawing Location: C:\Users\rachel.turner\Dalcour Maclaren\Awel y Mor Offshore Wind Farm 197212 - Geomatics\02 Working Data\Information_Plans\2024-02-06\20240206_197212_PLN_INFO_134.1.aprx



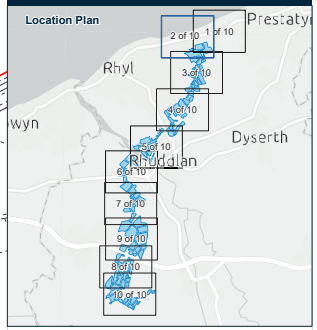
Site Plan

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 Metres

Scale: 1: 5000

DALCOUR MACLAREN

Location Plan



Key:

- Field Boundary
- GI Access Routes
- CP
- CPT
- TP

Notes:

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936

Interest: N/A

Location: Rhyl Coast Road, Rhyl, Denbighshire, LL18 3YE

Coords: 303264, 382424

Scheme Name: Awel y Mor Offshore Wind Farm

Drawing Name: Information Plan

Drawing No: 197212_PLN_INFO_134.2

Rev	Date	Description
-	06.02.2024	First Issue

Drawn:	RT
Approved:	AN
Sheet No:	2 of 10
Sheet Size:	A3

Fferm Wynt Alltraeth
AWEL Y MÔR
Offshore Wind Farm

APPENDIX B

COMPANY GENERIC SITE RULES & ANY SITE SPECIFIC RULES

ALL OF OUR SAFETY RULES **MUST** BE OBEYED.

Failure to do so may result in Disciplinary and Criminal action being taken.

1. All personnel working on site under the control of the Company must comply with the requirements of the Health and Safety at Work etc Act 1974 at all times, and all other relevant statutory provisions applicable to the work being carried out.
2. These Site Safety Rules are a minimum requirement and must be read in conjunction with any relevant CDM Construction Phase Plan or Project Method Statement. Any divergence between the two should be referred to the Site Supervisor.
3. Keep your mind on your work at all times. No horseplay on the job.
4. Personal Protective Equipment (PPE) and clothing must be worn as prescribed for each job and as necessary as works progress. Do not enter any area that is a designated Mandatory PPE zone without first putting on the appropriate PPE or clothing.
5. Watch where you are walking. Don't run.
6. The use of illegal drugs or alcohol, or being under the influence of the same on site shall be cause for termination of employment. You **must** inform your Supervisor or Manager if you are taking strong prescription drugs that warn against driving or using machinery.
7. Do not distract the attention of fellow workers. Do not engage in any act which would endanger another employee.
8. If you observe or experience any Near-Miss, Incident or Accident, report it immediately to the Site Supervisor. The Site Supervisor should ensure that a relevant record is made of the occurrence and submitted to the SHEQ Manager at the first available opportunity.
9. Sanitation and welfare facilities have been or will be provided for your use. Defacing or damaging those facilities is forbidden.
10. A good job is a clean job, and a clean job is the start of a safe job.
11. Keep your work area free of debris and rubbish and ensure that the area is left in a clean and safe state on completion.
12. Know where the fire fighting equipment is located and the arrangements to take in the event of an emergency including the location of the designated assembly point(s).
13. Do not use fire extinguishers unless you are trained to do so.
14. Know where the first aid provision is kept, who the first-aid trained personnel are, and how they can be contacted.
15. Lift correctly – with legs, not your back. Use mechanical aids where possible. If the load is too heavy or awkward, GET HELP!
16. Do not ride on machinery or equipment unless proper seating is provided.
17. Do not use power tools and equipment unless properly instructed and trained in the safe work methods.
18. All power tools shall be 110 volt supply unless a specific dispensation to use 240 volt equipment has been granted by the Client.

19. In the event that 240 volt equipment is used on site, this will also require the use of a suitable circuit breaker / residual current device between the equipment and source of supply.
20. Never oil, lubricate, or refuel equipment or machinery whilst it is running or in motion.
21. Before servicing, repairing, or adjusting any powered tool or piece of equipment, disconnect or isolate it from the source of power.
22. Be sure that all guards are in place. Do not remove, displace, damage, or destroy any safety device or safeguard furnished or provided for use on the job, or interfere with the use thereof.
23. Never enter any excavation regardless of depth with the exception of CBR, Plate load or similar testing. Only in these instances will controlled access be allowed. Even under these circumstances, specific requirements will be required, for example, maximum depth of 500mm and the excavation side walls assessed prior to entry for their stability. In the event that the side walls are considered unstable, the excavation shall either be widened or have adequate supports installed.
24. Never use or permit use by another, any defective tools or equipment. The defective tools or equipment should be taken out of use and reported to the responsible person in control of the stores at each respective office. The responsible person shall ensure that the defective tools or equipment are either repaired or replaced accordingly.
25. Any ground penetration will require a "**Company Permit to Dig/Drill**" and works should not proceed unless the person undertaking the works is in receipt of a copy of said permit.

"NO PERMIT = NO DIG OR DRILL"

26. Adhere to site traffic rules including speed limits at all times.
27. Adhere to all on site safety signs and instructions at all times.
28. Never use a compressor to clean down equipment, clothing or personnel.

APPENDIX C

EMERGENCY INFORMATION AND ACCIDENT & EMERGENCY UNIT LOCATION PLAN

I.1 Emergency Telephone Numbers

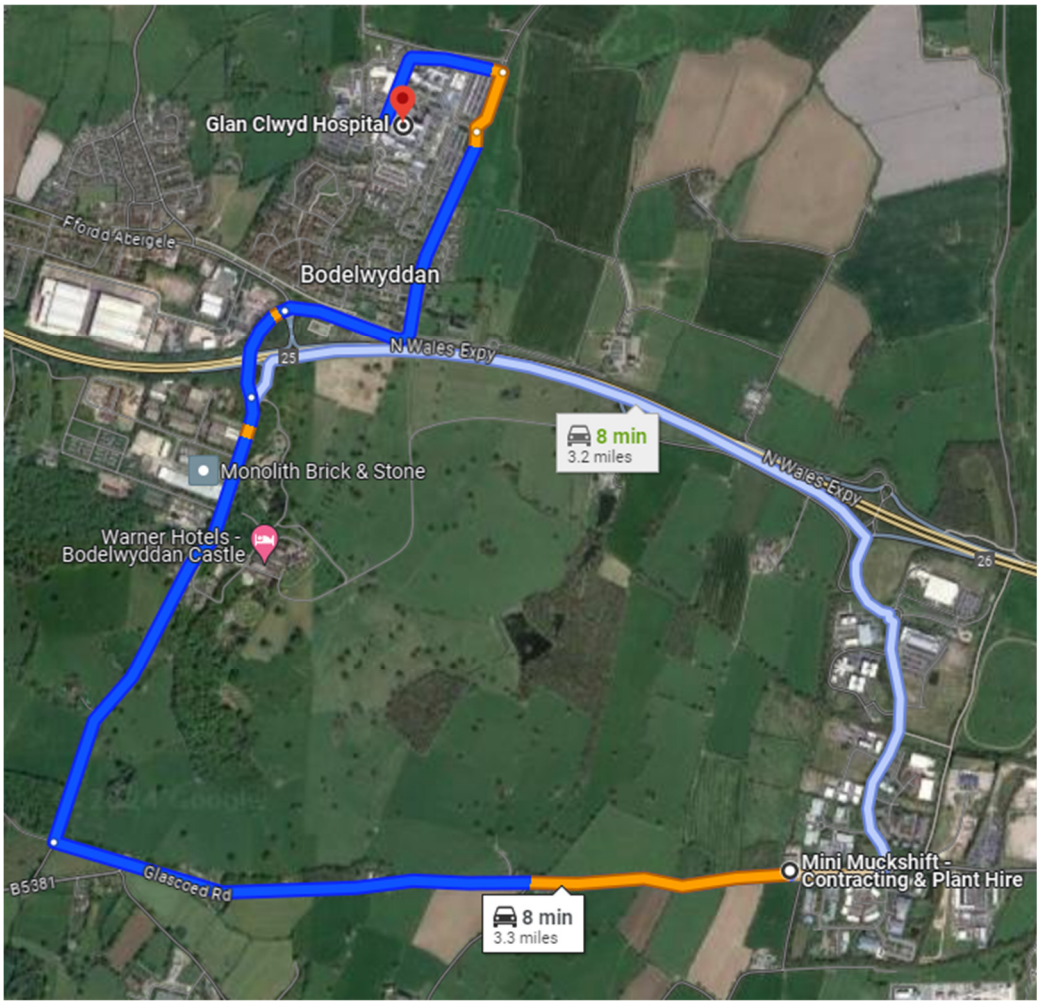
Police }
Ambulance } 999
Fire Brigade }

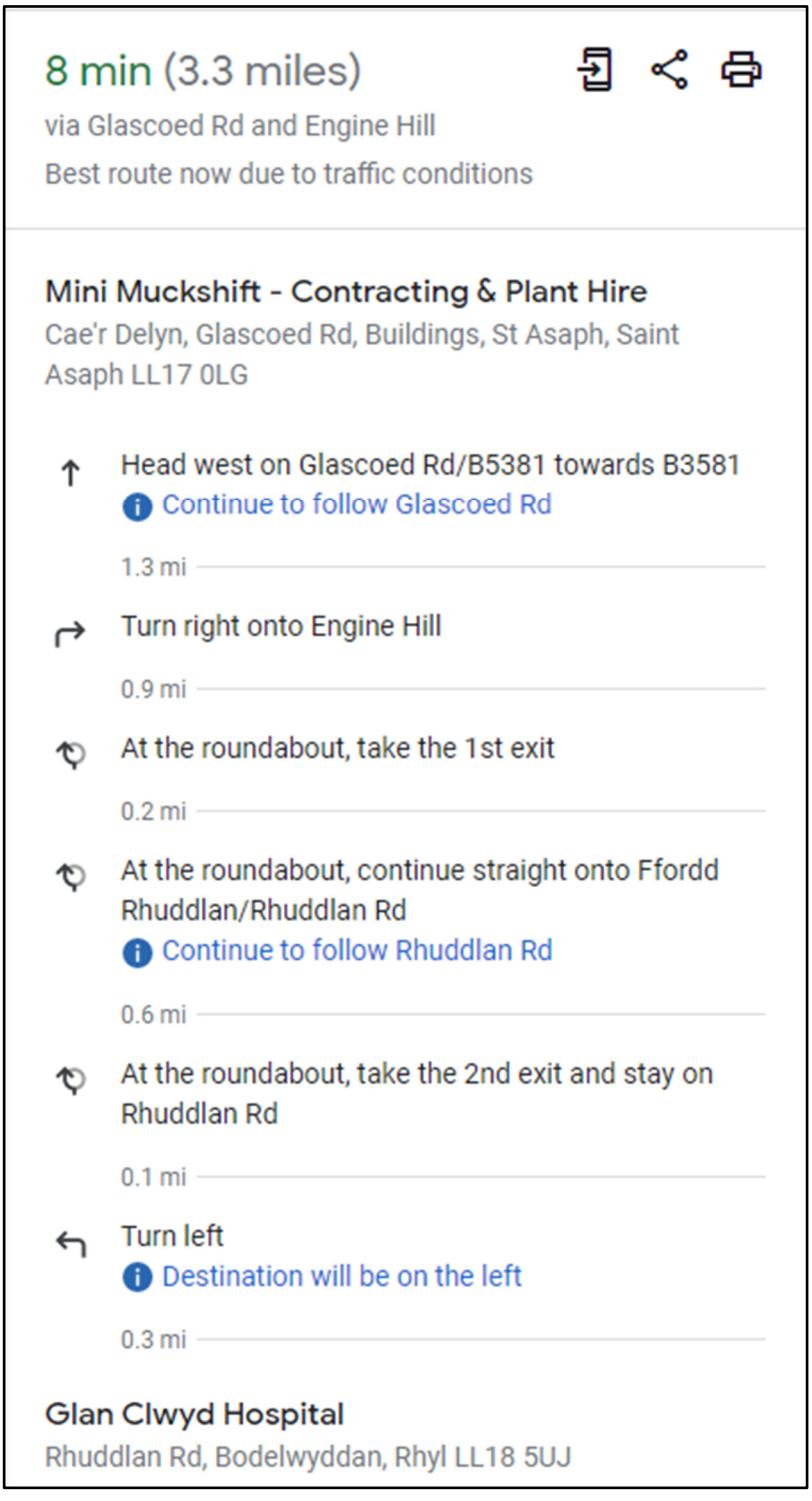
I.2 Accident and Emergency Unit (A&E)

The nearest A&E department is situated at:

Glan Clwyd Hospital,
Sarn Lane,
Bodelwyddan
Rhyl,
LL18 5UJ

A location Plan and Directions to the A&E inserted below.





8 min (3.3 miles)

via Glascoed Rd and Engine Hill

Best route now due to traffic conditions

Mini Muckshift - Contracting & Plant Hire
Cae'r Delyn, Glascoed Rd, Buildings, St Asaph, Saint Asaph LL17 0LG

Head west on Glascoed Rd/B5381 towards B3581
Continue to follow Glascoed Rd

1.3 mi

Turn right onto Engine Hill

0.9 mi

At the roundabout, take the 1st exit

0.2 mi

At the roundabout, continue straight onto Ffordd Rhuddlan/Rhuddlan Rd
Continue to follow Rhuddlan Rd

0.6 mi

At the roundabout, take the 2nd exit and stay on Rhuddlan Rd

0.1 mi

Turn left
Destination will be on the left

0.3 mi

Glan Clwyd Hospital
Rhuddlan Rd, Bodelwyddan, Rhyl LL18 5UJ

I.3 Utility Services Emergency Contact Numbers: (correct as of March 2013)

Please ensure that you have ascertained the correct Emergency Numbers for the locality in which the work is to be carried out. In the event that the Emergency number is not listed, please advise the SHEQ Director.

Company	Emergency Number	Company	Emergency Number
Environment Agency (incident hot line)	0800 807 060	United Utilities (Northwest & Lake district)	0800 195 4141
Virgin Media (dial before you dig)	0845 454 1111	East Midlands - Central Networks	0800 0568 090
British Telecom (dial before you dig)	0800 017 3993	Eastern Region - EDF Energy:	0800 783 8838
		London – EDF Energy	0800 028 0247
Yorkshire Water Services Ltd	0800 573 553	Manweb – Scottish Power	0845 272 7999
Severn Trent Water plc	0800 783 4444	Midlands – Central Networks	0800 328 1111
United Utilities Water Ltd	0800 330 033	Northern Electric - NEDL	0800 668 877
Southern Water	0845 278 0845	Scottish power	0845 272 7999
South West Water Ltd	0800 169 1144	Scottish Hydro-Electric	0800 300 999
Scottish Water	0845 600 8855	Southern Electric – S&SE	08457 70 80 90
Northumbrian Water	0800 393 084	South Wales – Western Power	0800 052 0400
Anglian Water Services Ltd	0800 771 881	South West – Western Power	0800 365 900
Thames Water Utilities Ltd	0800 714 614	Yorkshire Electricity - YEDL	0800 375 675
		National Grid UK (GAS)	0800 111 999

APPENDIX D

OTHER SITE SPECIFIC SIGNIFICANT SAFETY RISKS

APPENDIX E

ENVIRONMENTAL CONSIDERATIONS - Site Specific Environmental Risk Assessment

Geotechnics Ltd Environmental Policy Statement

Geotechnics Limited provides a wide range of Geotechnical and Geoenvironmental services to the Construction Industry, landowners, developers, and to any stakeholders concerned with ground quality. It has offices in Coventry, Chester, Exeter and Yorkshire.

The Company is committed to the protection and enhancement of the environment. Its aim is to achieve this through the development, delivery and continual improvement of high quality professional and client-focussed services which consider the environmental impacts of its decision-making in all aspects of its activities. Procedures embrace both ISO 14001 Quality Management and Health and Safety considerations together with environmental issues. Geotechnics Limited will:

- Operate and maintain an Environmental Management System to meet the requirements of ISO 14001.
- Continually improve its environmental performance and, by identifying and targeting any significant adverse Environmental Aspects of its activities, seek to reduce their impacts on the environment and prevent pollution.
- Identify the significant Environmental Aspects of the Company's activities including the use of resources and materials, non-renewable energy, potential noise and dust emissions, hydrocarbon emissions, waste production, and the potential to cause discharges of untreated water to land and controlled waters.
- Be committed to the protection of the environment by compliance with all environmental legislation, regulations and other requirements in carrying out its activities and in providing advice to enable clients to do likewise.
- Provide a strong framework for setting and reviewing environmental objectives, ensuring that targets are met and ensuring that its environmental programme is consistent with EMS commitments through regular auditing and reviews.
- Communicate this Policy to staff, clients, suppliers, and sub-contractors using its Website, the Intranet and internal memoranda and newsletters.

This Policy is a public statement and will be made freely available on request to any interested parties.

Basic Environmental Site Rules

To prevent damage and pollution to the environment and ecology, always please observe the following rules:

- Do not allow the spread of contaminated soil or arisings onto 'clean' areas of the site.
- Ensure that the site is kept clean and tidy and that wastes are disposed of appropriately and immediately.
- Be considerate to other site users and local residents – keep nuisance to a minimum.
- Respect wildlife and wildlife habitat.
- Minimise waste and be energy efficient.
- If in doubt, call your office or talk to a member of the Environmental Team. There is also an expanding range of Environmental Data Sheets which you may find useful.

Environmental Notes

To ensure our commitment to avoid damage and pollution to the environment please observe the following rules:

- At all times please try to ensure that no potentially contaminative material enters adjacent ground or waters
- Please ensure the site is kept tidy and that wastes are disposed of appropriately and immediately
- Please consider the potential for local nuisance and be considerate at all times
- Always wear appropriate protective equipment and ensure it is in good working condition
- Please report any unusual finds immediately to the engineer
- When in doubt, please ask

Site Specific Environmental Risk Assessment

Note: See Guidance Note ENV007 as an aid to completion

BDA Site Classification (Circle) **Green** **Yellow** **Red**

Ensure any special precautions for YELLOW and RED sites are STRICTLY observed and communicated to all site personnel.

1) Is there potential for contaminated soil on site? If so, describe any special methodologies that are required (e.g. ground/water protection, containment, disposal, clean drilling etc.)
None

2) Is there potential for contamination of Controlled Surface Waters? If the site contains or is in close proximity to water bodies such as rivers, streams, canals, lakes, estuaries, coastal waters etc. then special measures may be required to prevent contamination and should be described here.
None

3) Is there potential for contamination of Controlled Ground Waters (aquifers). If the site is over or adjacent to an aquifer then special measures may be required to prevent contamination and should be described here.
None – but degradable lubricants required for working on Foreshore.

4) Are there any ecological considerations on site (e.g. sensitive wildlife/habitat, invasive plants etc)? If so, identify the habitat or species present on site any special methodologies to mitigate the effects of the investigation on them or vice versa.
None

5) Has Geotechnics Ltd been advised that special precautions will be necessary to mitigate nuisance caused by its operations (e.g. noise, dust, smoke, odour, visual etc)? If so, describe any special mitigation measures.
None advised

6) Waste. Describe how waste soils, other solids and liquids are to be stored, transported and disposed of.
Transported using tracked dumper to vans at beach access, then taken to skips in site compound for disposal.

7) Have you been advised that the site has archaeologically significant structures or deposits? If so, describe any methodologies in place to protect them.
Footprint of historical building advised near the beach access point. Location of building to be confirmed on site using co-ordinates given by the Client and avoided.

8) Other things to consider (e.g. special considerations or instructions outlined by the client or regulatory authority, fuel storage, spill procedure, fire, resource use etc.)
None.

APPENDIX F

SPECIFIC PROCESSES OR SPECIFIC UNFAMILIAR SUBSTANCES TO BE USED ON SITE

APPENDIX G

LIST OF APPLICABLE SAFE WORKING PROCEDURES (SWPs).

Activity (title)	SWP Number
Cable Percussion Boring	SWP01
Trial Pitting – Hand and Machine Excavation	SWP03
Dynamic Sampling / Dynamic Probing	SWP04
Safe Use of Mobile Plant	SWP06
Safe Work Near or Adjacent to Over-Head Services	SWP07
Underground Services	SWP08
Use of Cable Avoidance Tools and Signal Generator	SWP09
General Site Safety	SWP11
Housekeeping	SWP12
Standard Emergency Procedures and Notification	SWP13
Soft Ground Conditions	SWP14
Manual Handling and Lifting	SWP15
Provision and Use of Work Equipment (PUWER)	SWP16

APPENDIX H

INDUCTION & BRIEFING RECORD

Geotechnics Employees do not need to enter CSCS/CPCS card details as these are controlled by the training matrix on Geocentric please enter N/A in the box.
This form should be completed and signed on every occasion that the Induction is provided.
This includes visitors to site and any additional site labour.

Project Name: ..... Project Number:.....

Name:	Position:	CSCS/CPCS Card No:	Company:	Contact No:	Signature:	Time & Date:

Briefed on site by Geotechnics Limited Site Supervisor.

The above have been briefed on the Salient points of the Project Method Statement, Site Specific Risk Assessments, POWRA, relevant Safe Working Procedures, Company Guidance and Information Sheets, any Specific Method Statements, Site Rules and associated Environmental Considerations, and are aware of the issues and required considerations associated with the site.

Briefed by: Print Name: ..... Signature: .....

Date and Time: .....

Point Of Work Risk Assessment

Project number		**Project name**	
Geotechnics supervisor		**Date**	
Completed by		**Signed**	

Part 1. Think

Before you start	**Yes**	**No**	**N/A**
Do you have the right documentation for the job ?			
Do you have the right PPE for the job ?			
Are all power tools, lights and leads PAT tested ?			
Has all plant been PUWER inspected ?			
Has lifting equipment been LOLER inspected ?			
Are sub- contractors being used on site ?			
If yes to above name of sub-contractors.			
Are all sub-contractors to be used on the Geocentric approved list.			
Do they have LOLER certificates and PUWER maintenance records for all drilling rigs to be used on site ? (obtain copy)			
Are all cable percussion rigs proposed for use on site fitted with an ancillary winch ?			
If you answered no to the above is a suitable harness fitted with a personal rescue device available on site.			
Do all sub-contractors due to attend site hold a relevant CSCS card ? (obtain copy)			
Do all Lead Drillers proposed for use on site have relevant NVQ training ? (obtain copy)			

If you have answered 'no' to any of the above, take the required action or report to your supervisor.
If in doubt always ask!

Details of any actions taken as a result to a 'no' answer to any of the above:

Point Of Work Risk Assessment

Part 2. Assess

Unforeseen hazards that require further considerations *(if the hazard is present tick the box)*					
Falls from height		***Entry into a confined space***		Poor lighting	
Falling or flying objects		Dust		Temperature (high/low)	
Chemicals or harmful substances		Fumes		Adverse weather	
Heat, fire or explosion		Noise		Uncertified equipment	
Asphyxiation or drowning		Vibration		Risk to you from your work	
Risk to plant		Electricity		Risk to others from your work	
Contact with stationary object		Unstable slopes		Stored energy or insecure load	
Object overturning or collapse		Asbestos/ACM's		Traffic or moving vehicles	
Slips, trips or falls on the same level		Manual handling		Livestock	
Discarded syringes		Invasive plants		Other (state)	

If required, you must have a rescue plan in place (hazards highlighted *blue* will require a rescue plan). Provide brief details.
(You must always be able to provide a way of safe escape in the event of something going wrong)

If no control measure are in place for the hazards identified above, then appropriate control measures need to be included in Part 3 before work commences.

Part 3. Go

Additional safety assessment required		Yes		No	
Hazard	**Control measures or precautions**	**Remaining risk**			
		H	**M**	**L**	

Go to work safely today and go home safely tonight

Part 4. Review

End of job review					
Are there any lessons for next time ?		Yes		No	
Has the work created any new hazards ?		Yes		No	

If you have answered 'Yes' to either of these questions, make a brief note below and document on the Geocentric close out record

Engineer's Aide-Memoire for Site Induction

Project Name		**Project Number**	
Project Address and Postcode			
Site Supervisor		**Client**	

Description of project	Reason for ground investigation
Programme	Proposed programme of ground investigation
Scope	Scope of site works including any specific sampling and installation requirements
Roles and responsibilities	Include details of CDM duty holders particularly on Main Contractor sites
Permit to Dig	Include details of known underground and overhead services
Communication/Coordination	Include arrangements for daily activity briefings and weekly meetings
Security policy	Details of site security and signing in & out requirements
Competence cards	Include requirements for CSCS, CPCS cards and relevant NVQ requirements. Details of CSCS cards to be recorded on the induction and briefing record.
Welfare facilities	Include details of on site welfare facilities.
First Aid	Include details of First Aider and location of First Aid kits.
Accident, Incident and Near Miss Reporting	Detail requirements and procedures for reporting of on site incidents.
Site Rules	Include company policy on drugs & alcohol, use of mobile phones on site, smoking policy.
Personal Protective Equipment	Include details of mandatory PPE requirements and task specific PPE requirements
Fire and Emergency arrangements	Include details on how to raise the alarm, fire assembly point and on site means of fighting a fire (include the requirement for only trained operatives to use fire extinguishers)
Deliveries	Include details of access arrangements for deliveries of materials and equipment
Working at Height	Detail Geotechnics policy and requirements for working at height during the use of cable percussion drilling rigs and machine excavated trial pits
Maintenance of plant and equipment	Detail the requirements for all drilling rigs brought to site to have up to date LOLER and PUWER certification. Confirmation that this has been checked to be recorded on the POWRA.
Site traffic management	Speed limit, traffic routes, parking, designated footpaths etc
Storage of materials and equipment	Include on site arrangements for storage of materials and equipment both within the site compound and at the work location.
Asbestos	Provide details on companies procedures in the event that any suspected ACM's are encountered on site.
Environmental Considerations	Include the BDA category for the site and any specific procedures to be implemented. Cover requirements for invasive plants/protected species/protection of surface and groundwater bodies as appropriate
CoSHH	Provide details on any hazardous substances to be sued on site and the requirements of the relevant CoSHH assessments.
Waste facility/transfer	Detail waste disposal arrangements on site
Nearest A&E	Quickest and safest route. Display map and directions
Slips, trips and falls	Keep to designated paths and roads, keep off unmade ground
Hypodermic needles/sharps	Do not touch, if observed identify to client or office for safe removal to be arranged
Weils disease	Individuals are responsible for following standard good hygiene practices (hand washing before eating, wearing gloves as per site rules, covering exposed areas of broken skin with water proof plasters etc)
Other site specific safety risks	Provide details of any additional significant risks and hazards identified in the CPP/method statement/risk assessment

Inductee's Declaration - All inductees are to sign the Site Induction and Briefing Record in the CPP/Method Statement

POL001 Health & Safety Policy Statement

Geotechnics Limited (from herein known as "The Company") is committed to continuous improvement of its Health, Safety and Welfare Management System, and is committed to Policies and Procedures which are designed to ensure the health, safety and welfare, of all its employees, contractors, visitors and others likely to be affected by its undertakings, so far as is reasonably practicable.

Every employee is required to assist with the prevention of accidents and incidents and maintenance of a safe and healthy working environment.

The Company expects employees, contractors, visitors or other employers who work at any premise or on any site under the control of the Company, to share and adopt this commitment.

To achieve its commitment, the Company will provide appropriate information, instruction, training and supervision at all levels to ensure that employees are aware of the hazards at their workplace, together with the appropriate measures to be taken to protect against these hazards and prevent in so far as reasonably practicable work-related injury or ill health.

Additionally, the Company in so far as is reasonably practicable, shall ensure it is:

- Operating and maintaining a Health & Safety Management System to the requirements of ISO 45001:2018,
- Managing and maintaining safe work environments, and in which risks to health are eliminated,
- Providing adequate and appropriate facilities and arrangements for welfare at work,
- Providing, managing, and maintaining plant and equipment so that it is safe, and that risks to health and safety are eliminated,
- Ensuring that the use, handling, storage and transport of items and substances are done safely and that risks to health are eliminated,
- Implementing systems of work that are safe and where risks to health and safety are eliminated,
- Consulting with, and involving employees in matters that may affect their health, safety and welfare,
- Ensuring that all contractors employed by the Company possess the necessary skills, knowledge, experience, and training and that the contractor carries out risk assessments for all the work they control, ensuring any plant and equipment provided or used by them is serviced, maintained, and tested in accordance with the relevant statutory obligations.

The Company will ensure adequate resources are provided to carry out regular assessments, inspections, auditing, and reviews to implement the Company Policy of continuous improvement.

The Company will set and review objectives against which its performance is monitored and reported.

Every employee is required to assist with the prevention of accidents and incidents and maintenance of a safe and healthy working environment. To achieve this everyone should take care of their health, safety and welfare, and that of any person who could be affected by their acts or omissions.

Delegated responsibilities, procedures and arrangements developed to implement this Policy and to comply with current legislation and other requirements are detailed in the Company's Health, Safety and Welfare Procedures Manual and supporting Safe Working Procedures.

These procedures apply to all employees of the Company and all contractors working on its sites or under its control or employ.

Paul Hayes

Managing Director

Revision: 3.0

Issue date: 01st Oct 2023

Review date: 30th Sept 2024

Changes since last issue:

- Rebrand