

GLENBARROW LIMITED

Environmental Management Plan



**Asbestos Removal, Demolition
Crushing of Suitable Arisings**

Yale Campus Phase 2, Grove Park Road, Wrexham

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REVISION No.:		
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DRAFTED BY: Mike Knight	Date: 9 th June 2002	
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CHECKED BY:		
DATE:		
ACCEPTED: (Please circle)	Yes	No
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ACCEPTED: (Please circle)	Yes	No

All operatives working on the site shall sign a **record sheet** to verify that they have read and understood this document and that they shall work in accordance with the procedures and rules herein.

DOCUMENT AMENDMENT RECORD

This table details the date and description of amendments made to the Environmental Management Plan. The document will be reviewed on a regular basis, revised and reissued when required. The site team will be initially briefed on the content of the plan and further amendments will be confirmed within toolbox talks.

Amendment No	Details	Date	Client Signature	Glenbarrow Limited Signature

CONTENTS

1. Purpose

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1. PURPOSE

The purpose of this plan is to define the way in which **Glenbarrow Limited** will manage the impact of the contract works on the environment including assessing, monitoring and managing environmental risks.

2. SCOPE

This plan will detail the procedure for taking all the necessary precautions required to minimise the environmental impact during decontamination, decommissioning and demolition works during the project.

3. ENVIRONMENT, HEALTH & SAFETY

Failure to understand the requirements for environmental protection could result in an environmental incident. **Glenbarrow Limited** will ensure that decontamination, decommissioning and demolition works are carried out in accordance with the Construction Phase Health & Safety Plan, **Glenbarrow Limited** Environmental Policy and Safety & Environmental Management Systems; Control of Noise at Work Regulations; Best Practice Guide for The Control of Dust and Emissions from Construction and Demolition; Environmental Permitting (England and Wales) Regulations.

4. INFORMATION

The following sources will be used to assist with the producing the Environmental Management Plan and to manage the impact of the contract works on the environment:

- Client Pre-Construction Information.
- Tender Pack
- Site Visit with the Client's team.

5. RESPONSIBILITIES

Glenbarrow Limited Contracts Manager will be responsible for producing and maintaining the Environmental Management Plan and will ensure that **Glenbarrow Limited** employees and sub-contractors are fully aware of the contents of the Plan.

Glenbarrow Limited Site Manager will ensure that procedures detailed in the plan are followed at all times and that all **Glenbarrow Limited** operatives and sub-contractors are able to demonstrate understanding of its contents.

6. TRAINING

Staff have undertaken Environmental Awareness & Best Practice training.
External Consultant hold NEBOSH
Site Management trained to CCDO Gold card
Site Staff trained to CCDO

7. INSTRUCTIONS

Glenbarrow Limited will be responsible for controlling the following:

- Pollution of air, land and water courses
- Damage to flora and fauna
- Damage to adjacent properties
- Disposal of materials

7.1 Air Pollution

Dust

Demolition activities may generate dust and light demolition debris which could affect the surrounding areas. Mitigation to reduce the impact will be through water spraying, covering and screening and by utilising appropriate systems of work;-

At source:

- By using a 1000L bowser/pressure washer;
- By using jets of water sprayed onto the demolition face to suppress dust release;
- By using jets of water sprayed onto all materials being handled by mechanical plant;
- By using jets of water (spray bars) on the demolition plant.
- A dust cannon machine at the site boundary.

A dust cannon machine (see Annex 1 attached) will be used for the duration of the works at the site boundary to ensure that any dust arising from the demolition works is contained within the site, due to working in a live environment. The dust cannon will be used at the site perimeter whilst works are ongoing and moved to different locations around the site in line with where the demolition activity is taking place. At source during the demolition works, in addition to the dust cannon, a heavy duty pressure washer and hose system will be utilised by an operative working at the source of where the excavator is working to dampen down any dust immediately to mitigate any dust from escaping from where the demolition activity is taking place. The dust cannon will be a secondary dust suppression piece of equipment located at the site boundary of the site to eliminate any dust that the pressure washer is unable to contain at source.

Dust monitoring will be carried out by the Site Manager throughout the project. During periods of dry and windy weather additional monitoring will be carried out if required.

Noise

Demolition activities and demolition plant equipment generate noise that may be detrimental to the health of the workforce and site neighbours as well as being a particular nuisance to local residents. Mitigation to reduce the impact of noise will be through regular noise monitoring, distance and shielding, and the fitting of appropriate silencers on plant equipment. Work will also be restricted to the agreed contract hours.

Noise monitoring will be carried out at the commencement of the demolition works (with small hand held meters by the Demolition Supervisor) to provide baseline measurements. Monitoring will be carried out at the site boundary where it must not exceed the limits below. Monitoring will be carried out weekly throughout the duration of the works however during activities being carried out close to the site boundary monitoring will be carried out as required.

Monitoring results will be collated along with monitoring locations and work activities being carried out. **Glenbarrow Limited** will comply with the following permitted noise levels outside the site boundary as follows:

Permitted Levels	Noise	Hours of Work	Days	Max Level
Leq (13.5hrs) 75 dB (A)		08.30 to 18.00	Weekdays	L max 75 dB (A)
Leq (5 hrs) 75 dB (A)		08.00 to 13.00	Saturdays	L max 75 dB (A)

Emissions

Demolition plant machinery and diesel driven generators/vehicles contribute to local air pollution, to mitigate this **Glenbarrow Limited** will work in accordance with Best Practice Guide for The Control of Dust and Emissions throughout the duration of the project.

Glenbarrow Limited will ensure that all plant, equipment and vehicles owned by the company or on hire is of a good condition and that all plant and machinery have engines compliant with EU Stage 3 Emission Regulations; and that all exhaust gases are mixed with intake air to reduce particle matter and nitrogen oxide emissions.

Local companies for deliveries/collections/disposals will be procured to reduce vehicle mileages wherever possible.

7.2 Land Pollution

Refuelling

Refuelling and storage of fuels and oils has a potential to contaminate land. To mitigate this **Glenbarrow Limited** will ensure that the demolition excavator will be refuelled within the designated refuelling area in strict accordance with **Glenbarrow Limited** refuelling procedure. The same process will apply to access booms and all other similar plant. Refuelling areas will be fully bunded and will be totally secure from fuel spillage onto adjacent surfaces or into adjacent drains.

Fuel bowzers will be fully bunded and spill kits will be available at all fuelling areas. All generators or standing vehicles will have drip trays or plant nappies positioned underneath. **Glenbarrow Limited** Site Manager will monitor and ensure that all equipment has the required drip trays available.

Road Cleaning

The need for road cleaning will be reviewed throughout the works.

7.3 Water Resources

Water used for dust suppression and wheel cleaning will be monitored and controlled by the site manager. Assessments will be made in regards to suitable suppression systems to ensure that water usage is minimised. The water supply point will be agreed with the utility supplier and connected via licensed metered standpipes fitted with non-return valves.

7.4 Water Courses – Drainage Systems

Glenbarrow Limited will implement measures to prevent arising's from surface water hosing-down or light demolition debris.

7.5 Flora and Fauna

During the strip out and demolition works **Glenbarrow Limited** will make every effort to minimise the effects of work activities on the flora and fauna within and around the project site. Advice and guidance will be obtained from qualified Arboriculture Consultants and protection methods implemented.

Wildlife

Advice and guidance will be obtained from qualified Ecological Consultants and working methods implemented in relation to bats, birds and other wildlife likely to be encountered during the works.

7.6 Disposal of Materials

Site Waste Management Plan will be completed by the Client to identify assumed and actual waste quantities.

Material movements will be monitored and recorded daily by the site manager.

Salvage of materials will be a high priority to reduce the use of natural resources.

Consignment notes will be issued for all materials removed from site.

Reuse/Recycle

Materials will be assessed prior to the works commencing and separated into categories.

These include, but not limited to;

Reuse, i.e. roof slates, timber purlins, timber/steel joists.

Recycle i.e. oils, steel, clean waste timber, UVPC plastics, glass, brick, concrete, soil.

Hazardous/Special Waste

Waste materials will be assessed and separated into categories.

These include, but not limited to;

Asbestos Containing Materials, chemical, fuel, gas, biological, electrical, light bulbs.

The materials will be transported in suitable containers to licensed disposal facilities.

Waste Materials

These include, but not limited to;

Asphalt roof felts, domestic waste, paper, cardboard, plastic, garden waste.

Glenbarrow Limited aims to recycle/reuse 95% of the materials generated during the works, the remaining waste materials will be transported to a licensed recycling facility where they will be separated further.

This will ensure that the percentage of waste sent to landfill is reduced as low as possible.

ENVIRONMENTAL MANAGEMENT PLAN REF NO: EMP-

ACKNOWLEDGEMENT

This is to certify that I have read the Environmental Management Plan and fully understand its contents and have had the opportunity to raise any concerns or ideas with regards to the plan.

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