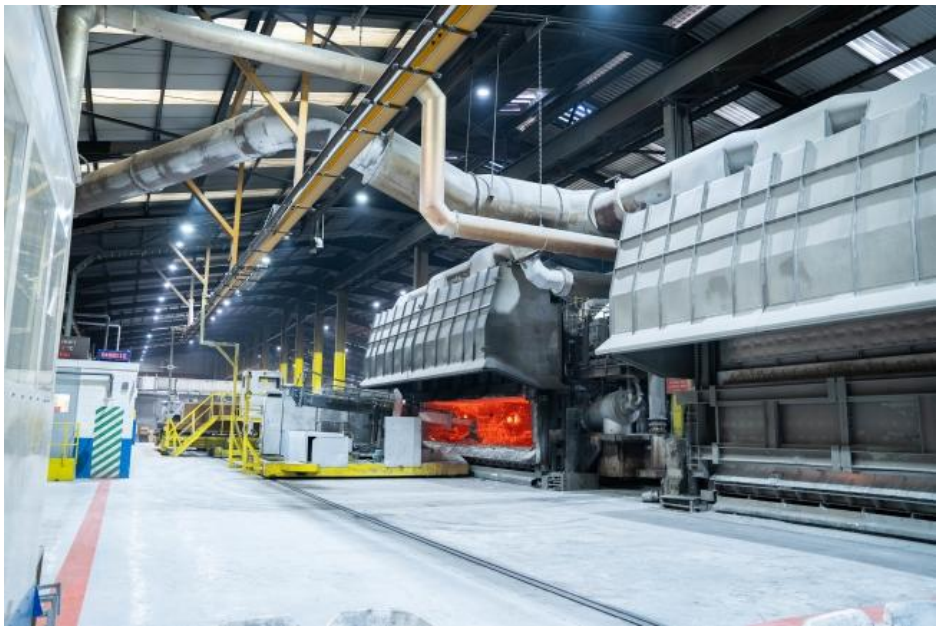
Construction Environmental Management Plan (CEMP)



Hydro Aluminium

Date: 02-03-26
Revision: 002
Issued to: Project Team

Contents

1.0 Introduction 4
1.1 Project Directory 4
2.0 CEMP Masterplan & Project Description 5
2.1 Project Scope 5
2.2 Project Title and Location 5
3.0 General Site Management 6
3.1 Construction Programme & Timetable 6
3.2 Site Clearance & Construction Drainage 6
3.3 Buffer Zones & Containment 6
4.0 Soil Management 7
5.0 Biodiversity Management 8
5.1 Species and Habitats Protection 8
5.2 Invasive Species Management 8
5.3 Landscape/Ecological Clerk of Works (ECoW) 8
6.0 Control of Nuisances 9
6.1 Noise and Vibration 9
6.2 Dust Control 9
6.3 Control of Light Spill 10
7.0 Resource Management 11
7.1 Materials & Waste Generation 11
7.2 Water & Energy Consumption 11
7.3 Fuel and Chemical Storage 11
8.0 Traffic Management 12
9.0 Pollution Prevention & Incident Response 13
9.1 Pollution Prevention Guidelines (PPGs / GPPs) 13
9.2 Emergency Spill Procedures 13
9.3 Ground Contamination and Remediation 13
9.4 Responsible Persons & Contacts 13
10.0 Site Rules (Environmental) 15
Appendix 1: Traffic Management Plan 16
Appendix 2: Ecological Constraints & Controls Plan 16
Appendix 3: Emergency Spill Response Procedure 16
Appendix 4: Site Waste Management Plan (Draft) 16
Appendix 5: Dust Management Plan (Draft) 16

Revision Status		
No.	**Change**	**Date**
1	Initial Draft	22.12.25
2	Inclusion of draft dust management plan (Appendix 5)	02.03.26

1.0 Introduction

The purpose of this Construction Environmental Management Plan (CEMP) is to detail the measures that will be put in place during the construction phase at the Hydro Site to protect the environment and local amenities. This document is submitted to discharge the pre-commencement Planning Condition regarding the CEMP and covers the entire development phase delivered by **UK Engineering**.

This plan outlines the phasing of the development, site access, traffic routes, and compound locations. It is designed to discharge relevant Planning Conditions specified by **Wrexham County Borough Council (WCBC)** and ensures compliance with environmental legislation, particularly given the site's location within the Wrexham Industrial Estate.

This CEMP will be provided to all subcontractors and strictly adhered to during the construction phase.

1.1 Project Directory

Role	Organization
Client	Hydro Aluminium Deeside Limited
Principal Designer	Vextrix
Principal Contractor	UK Engineering
Designer	UK Engineering
Ecologist	[Ecologist Name]

2.0 CEMP Masterplan & Project Description

2.1 Project Scope

UK Engineering will oversee the construction of [Insert Description, e.g., new industrial units/warehousing/associated infrastructure]. The works will include:

- Site clearance and remediation of the brownfield footprint.
- Groundworks, drainage, and attenuation installation.
- Construction of steel-frame industrial structures.
- External service yards, car parking, and S278 highways works (if applicable).

2.2 Project Title and Location

Project Title: Hydro Aluminium Site Redevelopment
Location: The development is situated at the Hydro Site, Wrexham Industrial Estate, approximately 3 miles east of Wrexham.
Site Context: The site comprises brownfield land within an established industrial zone. It is bounded by existing industrial units and infrastructure.
Principal Contractor: UK Engineering, Llay, Wrexham.

2.3 Phasing of Development

The development will be delivered in phases to manage environmental impact and traffic:

- **Phase 1:** Site setup, security fencing, and remediation/clearance.
- **Phase 2:** Groundworks, drainage installation, and formation of attenuation ponds.
- **Phase 3:** Construction of unit steel frames and cladding.
- **Phase 4:** External hardstanding, landscaping, and fit-out.

- **[Requires Input]:** The specific controls and environmental constraints are detailed within Appendix 2: Ecological Constraints & Controls Plan.

2.4 Design Proposals for Integration

The design includes sustainable drainage systems (SuDS) and landscape planting to integrate the industrial units with the surrounding ecology.

3.0 General Site Management

3.1 Construction Programme & Timetable

- **Start Date:** [Date TBC]
- **Duration:** [Duration TBC]
- **Working Hours:**
    - Monday – Friday: 07:30 – 18:00
    - Saturday: 07:30 – 13:00
    - Sunday/Bank Holidays: No work permitted

3.2 Site Clearance & Construction Drainage

- **Clearance:** Site clearance will be undertaken in accordance with the Ecological Appraisal. Vegetation clearance will be timed to avoid bird nesting seasons (March-August) unless supervised by an Ecologist.

- **Construction Drainage:** A temporary drainage strategy will be implemented. Silt fences and cut-off ditches will be used to prevent uncontrolled run-off. No pumped water will be discharged into the live drainage system without filtration through a silt interceptor.

3.3 Buffer Zones & Containment

To protect watercourses and surface drains, strict buffer zones will be enforced:

- **Storage Buffers:** Stockpiles of spoil and construction materials will be stored a minimum of **10m** away from any watercourse or surface drain.
- **Activity Buffers:** Concrete mixing and washing areas will be designated at least **10m** from drains.
- **Protection:** Drains will be protected with straw bales, terram, or gully guards to prevent silt entry.

4.0 Soil Management

Topsoil Stripping & Storage

- **Stripping:** Topsoil will be stripped using the "strip and store" method to preserve soil structure. It will be removed from areas designated for hardstanding and foundations.
- **Storage:** Topsoil will be stored in bunds no higher than **2m** to prevent anaerobic conditions. Bunds will be located away from trafficking areas to prevent compaction.
- **Re-use:** Stored topsoil will be kept weed-free and re-used for on-site landscaping where possible to minimize waste and vehicle movements.
- **[Requires Input]:** *Specific volumes of topsoil to be stripped and final storage locations to be confirmed following the Ground Investigation Report.*

5.0 Biodiversity Management

5.1 Species and Habitats Protection

- **Ecological Constraints:** All works will adhere to the mitigation measures in the Ecological Appraisal.
- **Protection Fencing:** Tree protection barriers and hedge protection fences will be erected prior to works to protect Root Protection Areas (RPAs).
- **Wildlife Safety:** Excavations will be covered overnight or ramped to allow animals to escape.
- **Great Crested Newts (GCN):** If the site is near suitable ponds, works may need to proceed under a European Protected Species License (EPSL) or Reasonable Avoidance Measures (RAMs) including amphibian fencing.
- **Nesting Birds:** Vegetation clearance will occur outside the nesting season (March – August) unless checked by an ecologist.
- **Toolbox Talks:** All operatives will be inducted on the potential presence of GCN, Badgers, and Bats.
- **Root Protection Areas (RPA):** Retained trees and hedgerows will be protected by Heras fencing in accordance with BS 5837:2012.
- **Exclusion Zones:** No storage of materials, fuel, or plant tracking is permitted within the RPA.

5.2 Invasive Species Management

- **[Requires Input]:** *An Invasive Species Survey is required to confirm the presence of Japanese Knotweed or Himalayan Balsam.*
- **Management Plan:** If invasive species are identified, an Invasive Species Management Plan will be drawn up, including exclusion zones and specialist removal protocols, to prevent spread into watercourses.

5.3 Landscape/Ecological Clerk of Works (ECoW)

- An ECoW will be appointed to oversee critical phases (e.g., vegetation clearance, work near watercourses) and ensure construction compliance with environmental regulations and approved plans.

6.0 Control of Nuisances

6.1 Noise and Vibration

- **General:** Works will comply with **BS 5228**. Plant will be throttled down when not in use.
- **Piling:** If piling is required, continuous flight auger (CFA) piling will be preferred over impact piling to reduce vibration.
- **Acoustic Barriers:** Mobile acoustic screens will be used around static plant (e.g., generators/pumps) if located near sensitive receptors.

6.2 Dust Control

6.2.1 Dust Risk Assessment and Monitoring:

- **Meteorological Triggers:** We will consider wind speeds such as those exceeding 15mph or a period of 48 hours without rain to review the damping down frequency, rather than relying solely on "dry or windy conditions."
- **Boundary Monitoring:** While daily visual inspections are noted, consideration to adding a simple, passive dust deposition gauges (like a Frisbee gauge) at key site boundaries, especially if adjacent to sensitive receptors if dust levels are noted as excessive during site setup. This provides an objective, measurable record of dust impact.
- **Public Highway Cleanliness:** Use of a road sweeper to remove tracked mud and debris from site contaminating public highway, this will be carried out twice daily, AM and PM exact timings will depend on peak traffic times of local traffic and muck away vehicle traffic.

6.2.2 Detailed Control Measures:

- **Duration of Stockpile Covering:** For high-risk stockpiles (e.g., contaminated materials or fine aggregates), require netting or impermeable sheeting if they are to be left undisturbed for more than a specified period (e.g., 7 days).

3. Documentation and Training:

- **Formal Communication:** The Site Manager will communicate any dust-related incident (including near-misses) and the subsequent corrective actions to the whole site team at the daily briefing.
- **Worker Training Requirement:** All operatives involved in cutting operations must receive an annual COSHH/RCS awareness briefing. A Toolbox Talk has been developed to cover this requirement.

4. Alignment with Regulatory Bodies:

- **Liaison/Reporting Requirement:** Specify the responsible party and mechanism for liaison with Wrexham County Borough Council (WCBC) or Natural Resources Wales (NRW) in the event of a severe dust incident or the receipt of a complaint, as required by the statutory nuisance legislation.

6.3 Control of Light Spill

- **Directional Lighting:** Temporary site lighting will be directional and downward-facing to prevent light spill into the night sky or onto hedgerows used by bats.
- **Timing:** Lighting will be PIR or timer-controlled to switch off outside of working hours.

7.0 Resource Management

7.1 Materials & Waste Generation

UK Engineering will implement a **Site Waste Management Plan (SWMP)**. See Appendix 4 Site Waste Management Plan (Draft)

- **Materials:** Preference will be given to locally sourced and recycled materials where feasible.
- **Segregation:** Skips will be provided for Wood, Metal, Gypsum, Plastic, and General Waste to maximize recycling.
- **No Burning:** There will be **no burning** of waste on site under any circumstances.
- **Duty of Care:** All waste will be removed by licensed carriers with appropriate Waste Transfer Notes retained on file.
- **No Burning:** There will be **no burning** of waste on site.

7.2 Water & Energy Consumption

- **Monitoring:** UK Engineering will monitor water and electricity usage via site meters.
- **Efficiency:** Energy-efficient plant and cabins (LED lighting, timed heating) will be used to minimize carbon footprint. Water use will be minimized by using trigger guns on hoses.

7.3 Fuel and Chemical Storage

- **Containment:** Fuel and chemicals will be stored on impervious bases within bunded walls capable of holding **110%** of the tank capacity.
- **Drip Trays:** Drip trays will be used under all static plant.
- **Location:** Storage will be located at least 10m away from drains and watercourses.
- **Security:** Valves and hoses will be locked when not in use.

8.0 Traffic Management

- **Deliveries:** Deliveries will be scheduled to avoid peak traffic times on the Industrial Estate. See Appendix 1 Traffic Management Plan.

- **Wheel Wash:** A wheel wash facility (or jet wash station) will be provided at the site exit. All vehicles will be checked for debris before entering the highway.

- **Road Cleaning:** A mechanical road sweeper will be deployed if mud is tracked onto the public highway.

- **Parking:** All contractor parking will be contained within the site boundary.

9.0 Pollution Prevention & Incident Response

9.1 Pollution Prevention Guidelines (PPGs / GPPs)

UK Engineering will strictly adhere to the **Guidance for Pollution Prevention (GPPs),** specifically:

- **GPP 1:** Understanding your environmental responsibilities.
- **GPP 5:** Works and maintenance in or near water.
- **GPP 21:** Pollution incident response planning.

9.2 Emergency Spill Procedures

- **Spill Kits:** Spill kits (absorbent granules, pads, booms) will be stationed at the site compound and all refueling points. See Appendix 3: Emergency Spill Response Procedure.

- **Procedure:**
  1. **Stop:** Stop the source of the spill.
  2. **Contain:** Use spill kits/booms to prevent entry into drains/watercourses.

  3. **Notify:** Inform the Site Manager immediately.
  4. **Clean:** Dispose of contaminated materials as hazardous waste.

9.3 Ground Contamination and Remediation

- **Unexpected Contamination:** If previously unidentified contamination (odours, fibres, discoloration) is found, works will stop in that area immediately.

- **Protocol:** The area will be cordoned off, and a specialist consultant will attend to test the material. NRW and WCBC Environmental Health will be notified if deemed necessary.

9.4 Responsible Persons & Contacts

The following persons are responsible for CEMP activities:

Role	Contact Name	Phone Number
Site Manager	[Name TBC]	[Number TBC]

Ecological Clerk of Works	[Name TBC]	[Number TBC]
Emergency (Spill)	[Name TBC]	[Number TBC]
WCBC Environmental Health	-	[Local Number]
Natural Resources Wales	Incident Hotline	0300 065 3000

10.0 Site Rules (Environmental)

The following rules will be included in the site induction and displayed on the notice board:

- PPE must be worn at all times.
- Report all spills and accidents immediately.
- No refuelling outside of designated bunded areas.
- Respect all exclusion zones (Root Protection Areas / Ecology Buffers).
- Speed limit 10mph on site.
- Respect neighbouring businesses and residents. No shouting or abusive language.

Appendix 1: Traffic Management Plan

Appendix 2: Ecological Constraints & Controls Plan

Appendix 3: Emergency Spill Response Procedure

Appendix 4: Site Waste Management Plan (Draft)

Appendix 5: Dust Management Plan (Draft)

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