

OUTLINE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Appendix 5: Outline Materials Management Plan (Clean)

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 –
Regulations 8(1)(c)

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1. INTRODUCTION

1.1. PROJECT OVERVIEW

- 1.1.1. This document has been prepared on behalf of Liverpool Bay CCS Limited ('the Applicant') and relates to an application ('the Application') for a Development Consent Order (DCO) that has been submitted to the Secretary of State (SoS) for the Department of Energy Security and Net Zero (DESNZ) under Section 37 of the Planning Act 2008 ('the PA 2008'). The Application relates to the Carbon Dioxide (CO₂) pipeline which constitutes the DCO Proposed Development.
- 1.1.2. The DCO Proposed Development will form part of HyNet North West ('the Project'), which is a hydrogen supply and Carbon Capture and Storage ('CCS') Project. The goal of the Project is to reduce carbon dioxide (CO₂) emissions from industry, homes and transport and support economic growth in the North West of England and North Wales. The wider Project is based on the production of low carbon hydrogen from natural gas. It includes the development of a new hydrogen production plant, pipelines, and the creation of CCS infrastructure. CCS prevents CO₂ entering the atmosphere by capturing it, compressing it and transporting it for safe, permanent storage.
- 1.1.3. The DCO Proposed Development is a critical component of the Project which, by facilitating the transportation of carbon dioxide, enables the rest of the Project to be low carbon. The hydrogen production and CO₂ capture and storage elements of the Project do not form part of the DCO Proposed Development and will be delivered under separate consenting processes.
- 1.1.4. A full description of the DCO Proposed Development is detailed in **Chapter 3 – Description of the DCO Proposed Development** of the Environmental Statement (ES) (**Document Reference: D.6.2.3**).

1.2. PURPOSE OF THE DOCUMENT

- 1.2.1. This Outline Materials Management Plan (MMP) will act as a control plan which sets out indicative methods to avoid, minimise and mitigate likely environmental effects during the construction stages of the DCO Proposed Development in the ES and **Register of Environmental Actions and Commitments (REAC) (Document reference: D.6.51)** submitted with the DCO Application. It includes the minimum protocols to be followed in implementing these measures in accordance with environmental commitments during the detailed design (to be delivered by the Construction Contractor(s)), pre-construction and construction stages.
- 1.2.2. The Outline MMP provides guidance on appropriate materials management practices and requirements for the development of the Detailed MMP(s) that will be completed by the appointed Construction Contractor(s) as secured through Requirement 5 of the draft DCO (**Document reference: D.3.1**).
- 1.2.3. This Outline MMP should be read in conjunction with the Outline Construction Environment Management Plan (OCEMP) and its associated appendices.

2. MATERIALS MANAGEMENT

2.1. CL:AIRE DEFINITION OF WASTE CODE OF PRACTICE

- 2.1.1. To comply with the requirements of Chapter 14 of the ES (**Document Reference: D.6.2.14**) and commitment **D-MW-006** of the **REAC (Document reference: D.6.5.1)**, in production of the Detailed MMP(s) the Construction Contractor will implement, and follow guidance within the CL:AIRE Definition of Waste: Code of Practice (CoP) (**Ref 1**). This Outline MMP provides the framework to be used and from which future, more detailed site based MMPs will be developed.
- 2.1.2. The CL:AIRE CoP requires the preparation of a MMP, which is then verified and signed off by a Qualified Person (QP) and a Declaration made to confirm that the materials are to be dealt with in accordance with the MMP. The QP must be chartered through a relevant professional body and be registered with CL:AIRE.
- 2.1.3. The object of this Outline MMP is to provide a framework to ensure that the principles for the use of site-won materials as 'non waste' are met. In order to comply with the CL:AIRE CoP in this regard, the excavated materials must:
- Not be a risk to human health;
 - be suitable for their intended use without further processing (chemically and geotechnically); or
 - be suitable for use following treatment under an appropriate Environmental Permit;
 - have a certainty of use (specified in planning, remediation strategies); and
 - be only the quantity that is absolutely necessary.
- 2.1.4. The MMP will include the above information, together with details of planning, site ownership, contractor details, consultations with statutory consultees, tracking systems and verification.
- 2.1.5. The Construction Contractor(s) will undertake additional ground investigation works in relation to re-use of material at the detailed design stage as required.

2.2. REQUIREMENTS OF THE MMP

- 2.2.1. In accordance with the CL:AIRE CoP a MMP must be produced that documents how all of the materials to be excavated are to be dealt with. The MMP must be followed throughout the execution of the works.
- 2.2.2. The MMP must be produced prior to excavation. In summary the MMP is required to provide:
- Details of the parties that will be involved with the implementation of the MMP;
 - A description of the materials in terms of potential use and relative quantities of each category;

- The specification for use of materials against which proposed materials will be assessed, underpinned by an appropriate risk assessment related to the place where they are to be used;
- Details of where and, if appropriate, how these materials will be stored;
- Details of the intended final destination and use of these materials;
- Details of how these materials are to be tracked;
- Contingency arrangements that must be put in place prior to movement of these materials; and
- Verification Plan.

2.3. QUALIFIED PERSON ASSESSMENT

2.3.1. To comply with the CL:AIRE CoP a QP must be appointed and fulfil their duties including;

- review of the evidence relating to the proposed use of materials on a specific site; and
- Completion of Declarations to regulators;

2.4. MINERAL MANAGEMENT

- 2.4.1. The Minerals Resource Assessment (MRA) (**Document Reference: D.6.3.11.3**) identifies where the DCO Proposed Development intersects Mineral Safeguarding Areas (MSAs). MSAs have been identified along each section of the DCO Proposed Development and comprise Sand & Gravel and brick clay mineral resources.
- 2.4.2. The MRA concluded that the mineral resources located within the MSA do not present workable or viable mineral prospects, due to poor quality resources and / or numerous constraints adversely impacting workability, resulting in partial or complete sterilisation of the existing resource (e.g., existing infrastructure / development, protected areas etc).
- 2.4.3. Any incidental extraction of mineral resource will be managed by the Construction Contractor(s) using the Detailed MMP(s). This will enable the reuse of excavated material without it being classified as a waste and outline a cut / fill balance to reduce the amount of material permanently removed during the construction of the DCO Proposed Development. Where possible, mineral resources will be reused within the DCO Proposed Development (e.g., backfilling of the pipeline trench where viable).
- 2.4.4. Mineral resources recovered during construction of the DCO Proposed Development are not envisaged to be removed off-site.
- 2.4.5. The Detailed MMP(s), that will be produced by the Construction Contractor(s), will include a mineral assessment and must be produced in accordance with the Mineral

Resources Assessment (**Document Reference: D.6.3.11.3**). This will assess mineral resources for each part of the DCO Proposed Development and include:

- An assessment of the potential mineral resource quality throughout the DCO Proposed Development Newbuild Infrastructure Boundary;
- Design, implementation and reporting of further intrusive investigation if required;
- An estimate of the total mineral resource volume which may be incidentally extracted during construction of the DCO Proposed Development; and,
- A methodology for how incidentally extracted mineral resource recovered during construction will be managed, processed (if required) and incorporated into the DCO Proposed Development.

3. MITIGATION AND INCIDENT MANAGEMENT

- 3.1.1. This section of the Outline MMP sets out the mitigation and management measures and any incident management and reporting requirements during the detailed design and construction stages.

Table 3.1: Management and Mitigation: During Detailed Design, and Construction Stages

Unique ES Reference	Action/Commitment/Mitigation (including Monitoring Requirements)	Objective	Organisation/Individual Delivering Measure
D-MW-001	<p>The Construction Contractor will ensure that the application of circular economy Principles will be followed, as implemented in the detailed CEMP, including:</p> <ul style="list-style-type: none"> • Designing solutions to prevent the generation of waste where feasible, and to send waste for recovery, wherever possible. • Considering all stages of construction, operation and decommissioning in a lifecycle approach. • Identification of resource streams that might be considered by-products (i.e. not wastes, as per applicable legislation) and reused or recycled. 	Effective design for the future.	Construction Contractor
D-MW-002	The Waste Management Plan will adhere to the highest tiers of the Waste Hierarchy, all relevant legislation and the Applicant's waste management procedures.	To identify opportunities to further reduce any waste. To reduce associated impacts such as potential harm to the environment. To monitor waste generation and disposal methods.	Construction Contractor
D-MW-003	Waste storage areas will be incorporated into the Detailed Design. Waste segregation measures will be put in place by the Construction Contractor as implemented in the detailed CEMP and WMP.	To maximise the potential for highest value reuse and recycling.	Construction Contractor
D-MW-004	The Construction Contractor will ensure that the backfilling of earthworks generated through trenching activities (subject to suitability of material) will be undertaken.	Construction methods with the potential to	Construction Contractor

Unique ES Reference	Action/Commitment/Mitigation (including Monitoring Requirements)	Objective	Organisation/Individual Delivering Measure
		reduce adverse material asset and waste impacts	
D-MW-005	The use of trenchless installation techniques (such as horizontal directional drilling or auger boring) will prevent additional material resource consumption and waste generation and disposal through the avoidance of infrastructure removal and replacement.	Construction methods with the potential to reduce adverse material asset and waste impacts	Construction Contractor
D-MW-006	The Construction Contractor will implement, and follow guidance within, the Materials Management Plan (MMP) in accordance with the CL:AIRE Definition of Waste: Code of Practice.	To monitor the maximum reuse of both natural soils and Made Ground (contaminated or otherwise).	Construction Contractor

4. SUMMARY

- 4.1.1. This Outline MMP has been produced as part of the suite of measures designed to minimise the environmental impact of the construction of the DCO Proposed Development. It provides an outline of the requirements for the Detailed MMP(s) to be produced by the Construction Contractor(s) in accordance with the CL:AIRE CoP, and in relation to minerals.

5. REFERENCES

Ref.1- CL:AIRE. (2011). The Definition of Waste: Development Industry Code of Practice. Retrieved from <https://www.claire.co.uk/projectsand-initiatives/dow-cop/28-framework-and-guidance/111-dow-cop-main-document>