

Appendix O-1

Framework Construction
Environmental Management
Plan (CEMP)



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JERSEY FUTURE HOSPITAL PROJECT

Appendix 0-1

FRAMEWORK CONSTRUCTION
ENVIRONMENTAL MANAGEMENT
PLAN (CEMP)

QUALITY ASSURANCE

Sign off: Mike Penny

Position: Director

Gleeds Management Services Ltd
1400 Bristol Parkway North, Newbrick Road, Bristol
BS34 8YU

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ENVIRONMENTAL IMPACT STATEMENT – FRAMEWORK CEMP

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1 Introduction

This document is a Framework Construction Environmental Management Plan (CEMP), which outlines how a CEMP is used along with the procedures and responsibilities associated with its implementation. The CEMP will form part of the Environmental Management System (EMS) established by the contracting organisation which will be required to set out how they would meet their environmental, economic and social goals.

This section is a general overview of the CEMP only; details of measures that would be included in the CEMP and associated documents for the Jersey Future Hospital project are set out in the mitigation sections of each specific technical chapter of this Environmental Statement.

2 Policy

The Contractor's senior management team will develop an Environmental Policy for the project. The environmental policy is a statement by the organisation of its intentions and principles in relation to its overall environmental performance that provides a framework for action and for the setting of its environmental objectives and targets. It is communicated to all employees and sub-contractors via site inductions and toolbox talks and will be displayed on various notice boards throughout the construction sites. The policy should also be available to the public.

3 Planning

A core document of the EMS is the CEMP which is the lead environmental management document that defines the procedures for achieving the objectives set out in the Environmental Policy and identified environmental performance targets for the project.

The CEMP provides the framework for commitments made in the EIS or any requirements of planning conditions to be implemented. The CEMP outlines the contractors approach to environmental management throughout the construction phases with the primary aim of reducing any adverse impacts from construction on local sensitive receivers.

4 Contents of the CEMP

The CEMP will identify the project management structure and clearly identify the roles and responsibilities with regard to managing and reporting on the construction phase environmental aspects. More detail on roles and responsibilities is provided later in this document.

An Environmental Risk Assessment will be undertaken when developing the CEMP. The risk assessment identifies all aspects of construction that could have an environmental impact and assesses the potential risk and impact of that activity on the environment. Management controls are devised to eliminate and/or minimise those identified impacts.

The assessment would address the potential impacts created during the temporary construction period (e.g. construction dust and noise) and any permanent impacts (e.g. disturbance to

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vegetation) that are influenced by construction methods. Specific environmental issues would be addressed in the CEMP and strategic details on how these would be controlled across the project would be provided. A list of potential issues that will need to be addressed in the plan are provided below based on information provided in the Environmental Impact Statement.

- Construction noise and vibration management
- Air quality including dust management
- Sustainable waste management
- Traffic management
- Archaeology and heritage management
- Water management (surface and groundwater)
- Management and protection of ecological resources (particularly relating to timing of certain works)
- Contaminated land management

The CEMP would set out objectives and targets for the project that are realistic and relevant for maintaining or improving environmental performance.

A programme of monitoring, reporting and auditing of compliance in accordance with any obligations of the planning consent, licences and approvals should also be contained in the CEMP to ensure that identified and appropriate control measures are effective.

5 Roles and responsibilities

Descriptions of the key individuals with environmental responsibilities are described in the following paragraphs.

Client's project environmental manager

The Client's Environmental Manager would be responsible for monitoring the performance of the project against statutory requirements and the agreed objectives and targets. Duties would include:

- Review and approve the CEMP, prepared by the contractor, and specialist procedures and identify any areas for improvement

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- Identify the environmental competence of all contractors (and sub-contractors) working on the project
- Review method statements for environmental aspects and advise of any suggested improvements prior to work starting
- Monitor construction activities to ensure that identified and appropriate control measures are effective and in compliance with the CEMP
- Act as a main point of contact between the contractor and the client's project team on environmental issues

Contractor's project environmental manager

The project environmental manager would be responsible for coordinating and managing all the environmental activities during the construction phase. The project environmental manager would carry out the following duties:

- Develop and review the CEMP, Construction Method Statements (CMS's), work instructions (WIs) and other specialist procedures
- Identify environmental competence requirements for all staff working on the project and ensure delivery of environmental training to personnel within the project team
- Review and improve method statements for environmental aspects prior to work starting
- Monitor construction activities performance to ensure that identified and appropriate control measures are effective and ensure compliance with the CEMP
- Act as main point of contact between the regulatory authorities and the project on environmental issues in conjunction with the site environmental representatives, overall monitoring of the programme for the environmental works, and provision of status reports as necessary
- Provision of advice and liaison with the construction teams to ensure that environmental risks are identified and appropriate controls are developed and included within method statements assistance in the development and delivery of environmental training for site personnel and subcontractors
- Liaison with the clients environmental manager
- Liaison with the project's public liaison officer
- Management of the environmental monitoring programme, including noise, vibration and dust.

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- Review of the routine reports
- Environmental audit of subcontractors and suppliers

Contractor's site environmental representative

The site environmental representative would report to the project environmental manager and would be directly involved in managing and co-ordinating environmental activities on-site. These would include:

- Assist environmental manager in developing and maintaining the CEMP, CMS, WIs and various registers and checklists
- Monitor construction activities to ensure that identified and appropriate control measures are effective and in compliance with the CEMP
- Undertake weekly site inspections, initiate actions, complete a weekly environmental inspection report
- Maintain training register, identify training needs and provide training where required
- Provide advice and assistance to site personnel on environmental matters
- Assist in investigating and resolving complaints
- Undertake monitoring when required
- Ensure correct procedures are followed in the event of an environmental incident
- Dissemination of waste reduction and waste management procedures to all relevant personnel on site
- Implement and maintain environmental controls on site
- Attend to any spills or environmental incident that may occur on site
- Report any activity that has resulted, or has the potential to result, in an environmental incident immediately to the site environmental representative/environmental manager
- Complete daily environmental log
- Maintain waste register and ensure correct waste management procedures are being implemented

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6 Implementation

Construction Method Statements (CMS)

The CEMP provides the overall project strategy for management of environmental issues, however, a Construction Method Statement (CMS) will address environmental management issues at a site level. The CMS provides an environmental manual for use by management and construction staff involved in the works.

It addresses the environmental issues that are specific to an activity and/or site. CMS's should be produced for all major construction activities and/or major construction sites.

Work Instructions (WIs)

Environmental work instructions (WI's) are the most detailed form of environmental controls and provide "hands on" directions for on-site staff. They are related to specific environmental aspects on-site and provide clear and concise instruction to site personnel in dealing with situations such as:

- Environmental incidents
- Adverse weather conditions
- Complaints
- Controls and commitments detailed in the EMP and CMS's
- A trigger point contained in the environmental inspection checklist or log
- General good site practice

Monitoring and reporting

Monitoring is an integral part of the EMS as it establishes how the project is performing against objectives and targets set in the CEMP. A schedule and procedures for monitoring and reporting should be developed at the outset in order to:

- Identify any negative impacts from construction activities
- Assess the effectiveness of control measures
- Demonstrate compliance with regulatory conditions and objectives and targets set in the EMP
- Identify if further controls/corrective action is required

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- Regular monitoring and reporting of dust, the regulatory authority will require noise, vibration, and water quality.

Environmental inspections, audits, and registers

In addition to the routine monitoring detailed above a schedule of regular inspections, audits and reporting will be required by the contractor. These inspections etc will provide a record of site conditions and activities and provide a mechanism by which the contractor can establish the effectiveness of its CEMP.

These checklists and reports should be kept at each site office and should be updated and used in the day-to-day operation of the site.

The client will also develop a schedule of inspections and auditing of the contractors EMP in order to ensure that the contractor is maintaining established standards of environmental controls.

Compliance and non-conformance/corrective action report

If criteria within the CEMP are not fulfilled and appropriate and corrective action is not taken, a non-conformance may be raised by the environmental manager. Examples of circumstances where this may arise include:

- Receipt of a complaint regarding pollution or other environmental impacts caused by the project
- Departure from approved or agreed procedures
- Non-conformance identified because of any self-assessment, formal audit or other environmental survey or inspection
- Corrective action may include changes to work instructions (frequency of testing, test method etc.), alterations to the CMS, further staff training etc. The environmental manager as part of construction meeting agendas should review non-conformances.
- In addition, the client can issue non-conformance/corrective action report to the contractor.

7 Management review

Review triggers will be set in order to maintain the suitability and effectiveness of the CEMP. A review would be carried out when triggers such as the following are met:

- As a minimum annually

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- If required as a corrective and/or preventative action in response to an environmental incident or the outcomes of an environmental audit
- If required by a statutory body

8 Suggested Layout of the EMP

- 1.0 Introduction
- 2.0 Project description
- 3.0 Environmental Policy
- 4.0 EMP preparation
 - Consultation
 - Project management structure
 - EMS
 - CMS
- 5.0 Environmental legislation, regulations, and guidelines
 - Planning consent
 - Legislation and guidelines register
 - Any permits required
- 6.0 Environmental aspects and risk assessment
- 7.0 Objectives and targets
- 8.0 Environmental issues
 - List as identified by EIS
- 9.0 Roles and responsibilities
- 10.0 Sub-contractor management
 - Selection
 - Inductions
 - Supervision
- 11.0 Communication
- 12.0 Reporting requirements
- 13.0 Complaint handling procedure
- 14.0 Environmental Training

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- Site induction training
- Specialist environmental training
- Toolbox talks

15.0 Environmental audits

16.0 Non-conformance & corrective action

17.0 Environmental incidents and emergency response

18.0 Review of the Environmental Management Plan

- Review triggers
- Quality system improvements