Cambridge Science Park Station Interchange

GRIP 3 Project Environment Strategy

Network Rail

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ATKINS

Plan Design Enable

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1. Project Overview

The development is expected to include the items listed below, following demolition and clearance of existing features and capping of redundant sidings:

Railway Station and Network Rail Infrastructure

- 450m2 building (passenger waiting facilities, toilets, staffed ticket office, retail, amenity space, rail staff accommodation and facilities)
- Two main line platforms bay platform
- Pedestrian/cycle bridge linking station building and platforms over the main line (lift and stair access).
- Associated rail infrastructure works to facilitate the operation of the Railway Station.

Interchange Facility

- Landscaped 450 space car park; 1000 space cycle parking
- New pedestrian and cycle links to the surrounding area including Discovery Way, Pippin Drive, Ribston Way, Long Reach Road and through Bramblefields Local Nature Reserve, and Nuffield Road industrial estate. No links are currently intended to be provided east of the station/railway to the existing development located along Fen Road
- Extension of a bus lane and cycle route from the Cambridgeshire Guided Busway into the site along the alignment of the former St Ives Branch Line
- Highway access from Cowley Road/Milton Road (new junction to station and limited works to Cowley Road/Milton Road junction). It is anticipated that the necessary upgrade works to the existing junctions and road will be minor.
- Multi-modal choice of train, bus, cycle pedestrian and car routes.

1.1. Purpose of this Document

This Project Environment Strategy (PES) describes in greater detail the environmental management arrangements and activities needed in order to reduce or eliminate any environmental risks to an acceptable level and inform the production of the necessary environmental documentation. This is to ensure that environmental issues are managed in a way that is satisfactory to the client and any stakeholders.

This document aims to define a high level strategy to deal with the environmental risks identified at the feasibility stage. This PES should be updated regularly throughout all subsequent stages of the GRIP process and amended as necessary to take account of any changed circumstances or additional knowledge.

2. Environmental Risks

This PES defines a high level strategy to identify, quantify and qualify any environmental risks which should be included in the Environmental Risk Register which is part of the overall Project Risk Register.

3. Environment Strategy

The Project Environment Strategy is outlined below.

It covers the different studies, surveys, information gathering and design management activities that will be required to facilitate the development of the environmental risk registers: Environmental Management Plan (EMP); the Environmental Appraisal/ Action Plan; Waste Management Plan (WMP); and the Environmental Impact Assessment (EIA).

3.1. Initial Screening and Desk Study

The project is to be screened for environmental constraints using the available resources which should include the following:

- Environmental Agency Website
- English Heritage Website
- Ordnance Survey maps and aerial photographs
- Google maps
- Local Council Plan Map
- BGS

3.2. Site Walkovers/Surveys

Site walkovers/Surveys should be carried out in order to:

- identify potential areas of contaminated land
- identify the presence of, or potential habitat for, legally protected species (bats, badgers, breeding birds, otters, water voles, great crested newts and reptiles), and terrestrial plant species subject to legal control (including Japanese knotweed and giant hogweed), within the footprint of works and immediate surrounds
- identify any ecological constraints to the proposed works arising from the presence of legally protected species and identify the requirement for any development licences for such species.
- and obtain sufficient information to recommend appropriate measures to avoid, or practically reduce, any adverse ecological effects arising from the proposed works, and recommend measures to reduce the risks of wildlife offences being committed

At this stage the following site surveys are to be carried out:

- Ecology
- Ground Investigation including water & gas monitoring and contamination of soil and water.
- Noise
- Traffic
- Archaeology (trenches)
- Utilities
- Bomb search

It is recommended that during subsequent GRIP stages the need for any further surveys should be investigated and assessed.

3.3. Register of Aspects and Impacts

A Risk and Opportunity Register should be compiled using desk study information, and the site surveys/walkovers.

Aspects should be grouped in the following categories:

- air quality;
- archaeology and cultural heritage;
- contaminated land;
- ecology;
- energy;
- landscape;
- lighting;
- materials;
- noise and vibration;
- waste;
- water;
- traffic and access;
- site boundaries;

This register should also identify the necessary environmental management controls required throughout the duration of the project.

3.4. Documentation to be Produced

The project is at GRIP 3 Stage AiP and the following documents require to be produced:

- Environmental Risk Registers,
- Environmental Management Plan (EMP), which will include the Environmental Appraisal/Action Plan as one of the Appendices.
- Environmental Appraisal/ Action Plan (EA), which should sets out how Designers will address each relevant issue identified.
- Waste Management Plan (WMP)
- Environmental Impact Assessment (EIA) and associated documents

The works are deemed to be permitted development, and the development will require planning permission and an Environmental Impact Assessment (EIA). The EIA will be carried out as part of the planning process.

The Chapters to be included in the EIA are as follows:

1. Development Programme and Construction
2. Air Quality (including dust)
3. Ecology
4. Flood Risk and Drainage
5. Ground Conditions
6. Heritage
7. Landscape and Visual Impact
8. Lighting
9. Noise and Vibration
10. Socio Economic
11. Transport and Access
12. Waste

3.5. Environmental Design Management

All design team leaders, CREs and CEM shall review the Environmental Appraisal/Action Plan and ensure that the proposed designs reflect the environmental aspects identified, minimise any environmental impacts, and identify benefits where possible.

Actions that have been taken at GRIP 3 AiP design stage have been summarised in the "Action Taken" column in the Register. Where mitigating designs will be developed at GRIP 5 design stage, this is stated in the Register.

Circulation of the EMP and associated environmental documentation amongst the design discipline leads, and ongoing consultation between members of the environment team, will ensure that this is achieved.

3.5.1. Non-compliance, Corrective and Preventative Action

Project specific non-compliances and corresponding corrective and preventative actions will be identified through the monitoring and audit regimes at all stages of the project. The Client's Representative will take corrective and preventative action following any non-compliance identified.

4. Legislation, Regulation, Permissions and Consents

The environmental legislation, regulations, standards, permissions and consents, relevant to this project, need to be identified and recorded in the Environmental Register.

Network Rail's Contract Requirements – Environment (NR/L2/ENV/015), refers to the following legislation as particularly important:

- Control of Pollution Act (1974);
- Environmental Protection Act (1990);
- Water Framework Directive (2000/60/EC);
- Wildlife and Countryside Act (1981);
- The Conservation of Habitats and Species Regulations (2010); and
- Environment Act (1995).

The likely requirement for permissions and consents is to be identified in the Environmental Register.

4.1. Environmental Objectives and Targets

The over-riding environmental objectives will be to discharge all responsibilities relating to relevant environmental legislation and Atkins' and the client's Environmental Policies. If further environmental issues become apparent during the course of the environmental study process, the design process, and the construction stage, relevant objectives should be developed and action taken to address them.

For example, a preliminary WMP will be used to identify opportunities for improving environmental performance via waste reduction.

The following objectives have been identified at GRIP 3 design:

- identify opportunities to minimise waste creation and the use of raw materials, by re-using site-won material where possible; and
- identify opportunities to improve biodiversity where significant vegetation removal and earthworks are to be undertaken.

5. Structure and Responsibilities

5.1. Project Roles at GRIP 3 AiP Design Stage

Responsibilities for environmental management throughout the project are listed in Table 5.1 and Table 5.2 and defined below.

Table 5.1 Project Roles

Organisation	Role
Cambridgeshire County Council	Client
Atkins	Designer
Network Rail	Approving Authority

Table 5.2 Contact Details for Project Team

Name	Position/Organisation	Telephone Number
Stan Doyle	Project Director/Atkins	+44 141 220 2075
Victor Francisco-Suarez	Project Manager/Atkins	+44 141 220 2482
Clive Sheppard	QSE Manager/Atkins	+44 121 483 5225
Gary McCann	Environmental Coordinator/Atkins	+44 141 220 2305
Craig MacFarlane	Civils CRE/Atkins	+44 141 220 2414
Angus Malloch	E&P CRE/Atkins	+44 141 220 2238
Kasmir Lota	Telecoms/Atkins	+44 141 220 2235
Ken Stewart	OLE CRE/Atkins	+44 141 220 2412
John Bell	PWay/Atkins	+44 141 220 2419
Steven Stark	Signalling CRE/Atkins	+44 141 220 2345
Rob McGowan	Project CEM/Atkins	+44 141 220 2240

5.2. Training, Awareness and Competence

Project Managers/Client's Representative at GRIP 3 Design Stage will ensure that all individuals employed on the project have the appropriate training and experience required to undertake any duites. Compliance with these requirements will be monitored by line management and through audit where appropriate.

Employee training requirements at Atkins must be managed in accordance with the BMS procedures for appraisal, training, recruitment, induction, and competence. Records of staff training, awareness and competence are to be held in accordance with departmental procedure. Training requirements and awareness will be considered in accordance with the requirements of Network Rail. Project staff and contractors will be briefed on the EA and controls arising from it. Where required, training and advice will be provided:

- to enable the project team to be responsible for the environmental management issues of the project;
- to identify new environmental management issues generated by the project; and
- to identify any changes to the register.

The Principal Contractor and their Sub-Contractors will be expected to demonstrate their own systems for training and competence and this will be reviewed through the tender review stage.

At all future stages, prior to the commencement of work on site, all staff must be briefed on the contents of the EMP and any other relevant environmental information and required actions, along with any site-specific mitigation required. This information shall be contained in the Task Briefing Sheet. Each briefing will be recorded and each individual will be required to acknowledge receipt and understanding of the briefing. It is expected that the Principal Contractor and their Sub-Contractors will refer to this EMP when preparing their briefings.

Environmental competence will be reviewed throughout the project.

6. Project Management Procedures

6.1. Communications

Communication between the various levels within Atkins is controlled in accordance with the BMS procedure for internal communication.

Communication, including environment-related information for the project, will be by means of the following: project induction, environmental briefings/toolbox talks, written environmental briefs, memos, publications, COSS packs, and information posted on safety notice boards.

An effective communication programme will be established with Network Rail and relevant Contractors and will include: regular progress reports, formal reporting methods, and a system for establishing and maintaining effective communication channels both internally and externally.

6.2. Communicating with the Public

Due to the high profile of this project within the local community public consultations will be required. This is expected to be led by Cambridgeshire County Council.

6.3. Environmental Management System Documentation

The Atkins Project Manager is responsible for identifying standards, regulations, and procedures applicable to the project, and for communicating requirements to the Atkins project team. The Information Co-ordinator notifies each Project Manager of revisions and changes to standards, and the Project Manager is responsible for briefing project staff on changes applicable to the Project.

Incoming and outgoing project-specific documentation and data are controlled and reviewed by the Atkins Project Manager in accordance with the BMS procedure for project documentation. The use of computer software is controlled by the BMS procedure for software control.

The Principal Contractor will be expected to demonstrate similar suitable systems for managing documentation within their organisation and their Sub-Contractors.

6.4. Records

The Atkins Project Manager will establish and maintain a project filing and referencing system in accordance with the BMS procedure for filing. Records are to be maintained in a secure environment to prevent damage, deterioration, or loss.

The Atkins Project Manager will identify and establish any special requirements for the types of records and retention periods, including records that are to be supplied to Network Rail and/or the Principal Contractor and their Sub-Contractors.

The Atkins Group Information Services provide security and backup facilities to prevent the loss of electronic data.

The final version of this PES and all relevant documents, work package plans and risk registers will be provided to the client on completion of the works to ensure that any information or advice that might be relevant to subsequent works on the site is recorded and communicated.

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