A46 Coventry Junctions (Walsgrave) Scheme number: TR010066

6.5 First Iteration Environmental Management Plan

APFP Regulations 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6

May 2025

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A46 Coventry Junctions (Walsgrave)
Development Consent Order 202[x]

First Iteration Environmental Management Plan

Regulation Number	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010066
Application Document Reference	TR010066/APP/6.5
Author	A46 Coventry Junctions (Walsgrave), Project Team & National Highways

Version	Date	Status of Version
Rev 0	November 2024	Application Issue
Rev 1	May 2025	Deadline 1

Table of contents

1. Introduction and background to the Scheme

1.1.1. National Highways (the Applicant) has submitted an application under Section 37 of the Planning Act 2008 (the 2008 Act) to the Secretary of State via the Planning Inspectorate (the Inspectorate) for an order to grant development consent (DCO) for the A46 Coventry Junctions (Walsgrave) Scheme (hereafter referred to as 'the Scheme').

1.1.2. The Scheme involves improvements to the B4082 which runs eastwards from Clifford Bridge Road to the existing A46 Walsgrave Junction and the A46 which runs north-south to the east of Coventry.

1.1.3. An Environmental Impact Assessment (EIA) has been undertaken for the Scheme and is reported in the Environmental Statement (**TR010066/APP/6.1**) in accordance with the Infrastructure Planning (EIA) Regulations 2017. The Environmental Statement (**TR010066/APP/6.1)** contains the assessment of the potential impacts on the environment that may arise during construction, operation and maintenance of the scheme and describes the mitigation measures to be provided to avoid, prevent, reduce or, where practical and appropriate, offset the potential environmental impacts associated with the construction of the Scheme. This First Iteration Environmental Management Plan (EMP) brings together these measures and details how they will be delivered.

1.1.4. This EMP for the Scheme and has been developed in support of the DCO to construct and operate the Scheme. It is based on the preliminary design of the Scheme for which development consent is being applied. It has been prepared in accordance with the following:

- The Environmental Statement (ES) (**TR010066/APP/6.1**).
- Design Manual for Roads and Bridges (DMRB) LA 104 Environmental assessment and monitoring (DMRB LA 104)
- Design Manual for Roads and Bridges (DMRB) LA 120 Environmental management plans (DMRB LA 120)
- Asset Data Management Manual (ADMM) v11.0 Parts 2 and 3 (in particular for Environmental Information System (EnvIS) requirements).

1.1.5. For the purposes of the EMP, the following definitions apply:

- The Principal Contractor (PC) means any contractor appointed by National Highways to deliver the construction works (and shall also include any subcontractors appointed by the PC to carry out any part of the main construction works).
- The maintenance authority is a body tasked with the maintenance of the Scheme once operational. Once the Scheme is complete in its entirety, this would be National Highways, in relation to the trunked sections of the

Scheme. Prior to full completion this would be the PC. Some components of the completed Scheme will be maintained by Coventry City Council.

1.1.6. Octavius Infrastructure Limited (OIL) are the Principal Designer and Principal Contractor for the Scheme, as defined under the Construction (Design and Management) Regulations 2015. OIL will hereby be referred to as the PC throughout the First Iteration EMP.

1.2. Purpose of this EMP

1.2.1. The purpose of the First Iteration EMP is to detail how mitigation and management measures would be implemented to manage the environmental effects of the Scheme as identified within the ES (**TR010066/APP/6.1**).

1.2.2. The First Iteration EMP takes due consideration of the documents submitted to the Planning Inspectorate and assessments undertaken on behalf of National Highways, as well as the draft DCO for the Scheme itself. It identifies mitigation and environmental issues associated with the construction and operation phases of the Scheme. The First Iteration EMP sets out the control of environmental effects through all lifecycle stages from the design stage. Table 1-1 outlines the requirements as stated in DMRB LA 120 Table 2.2.

Table 1-1: Delivery schedule and update requirement of EMP

Project Stage	EMP iteration	Responsibility
Design	First Iteration EMP produced during the preliminary design stage for the Scheme.	The Applicant
Construction (refined for the consented project)	Second Iteration EMP is refined based on the First Iteration EMP during detailed design for use during construction of the consented project. During construction the Second Iteration EMP will be reviewed on a regular basis by the Ecological Clerk of Works (ECoW).	Principal Contractor
Maintenance	Third Iteration of EMP building on the construction EMP refined at the end of the construction stage to support future management and operation.	Maintenance Authority

1.2.3. The Second Iteration EMP (and any other document that forms part of it) would be a live document that would be maintained by the Principal Contractor (PC) throughout the construction phase of the scheme.

1.2.4. As a minimum, the Second Iteration EMP would be reviewed every six months to ensure that it is maintained and up to date, particularly to take account of the following:

- Changes in external factors such as regulations and standards
- Any unforeseen circumstances as they arise such as new protected species or new archaeological finds
- The results of inspections and audits
- Learning points from environmental near misses and incidents

1.2.5. On completion of construction, the PC would prepare a Third Iteration EMP for the operational and maintenance phase of the Scheme. The indicative contents of a Third Iteration EMP are set out in DMRB LA 120 Environmental Management Plans (Highways England, 2020) and would be developed from the Second Iteration EMP. The Third Iteration EMP would be implemented by the maintenance authority responsible for the maintenance of the Scheme during the operational phase.

1.2.6. The purpose of the First Iteration EMP is to:

- identify roles and responsibilities
- identify risks, their associated control measures, compliance and corrective actions
- establish procedures for communication, monitoring, audit mechanisms and reporting of control measures
- would be reviewed regularly to ensure it is achieving the environmental protection required
- provides a clear audit trail outlining the modifications from any previous iteration
- document all environmental actions and commitments that are required to manage and minimise the environmental effects of the Scheme as identified in the ES (**TR010066/APP/6.1**)
- provide the equivalent of a Code of Construction Practice (CoCP) containing the control measures and standards to be implemented by the Scheme, including those to avoid or reduce environmental effects. The CoCP is a suggested item for inclusion within the DCO application (see the Planning Inspectorate's Advice Note Six: Preparation and submission of application documents ((The Planning Inspectorate, 2021)). The scope of the First Iteration EMP is such that it includes all those measures that would be expected within a CoCP
- form the basis for the more detailed iterations of the EMP (Second and Third Iterations) that will follow.
- enable the Examining Authority and the Secretary of State for Transport to identify those mitigation measures proposed within the Scheme which are secured within the First Iteration EMP

Preparation of the EMP

1.2.7. The Second Iteration EMP will be developed ahead of construction by the PC for the construction phase of the Scheme once the detailed design and construction plans have been finalised. The Second Iteration EMP would be based on the requirements of the First Iteration EMP relevant to the construction works and the PC's contractual scope. This would include any further requirements identified during detailed design, the implementation of appropriate industry standard practices and control measures for environmental impacts arising during construction, in addition to more detailed management plans and methodologies on the design and construction of the Scheme.

1.2.8. Construction works would be undertaken with appropriate environmental controls in place, in line with the Second Iteration EMP. This First Iteration EMP outlines the 'essential mitigation' developed as part of the EIA (refer to ES Chapter 4 (Environmental Assessment Methodology) (**TR010066/APP/6.1**), for more details). Essential mitigation measures are captured within the Register of Environmental Actions and Commitments (REAC) included in Appendix A of this First Iteration EMP.

1.2.9. Environmental constraints are shown on the ES Figures (**TR010066/APP/6.2**) and are referenced throughout the First Iteration EMP. Mitigation measures included in the Scheme design are shown on the Environmental Masterplan (ES Figure 2.4 (**TR010066/APP/6.2**)).

1.2.10. Management plans are key documents which ensure that the construction related mitigation measures and actions set out in the REAC are successfully implemented onsite. The relevant management plans inform the works and the development of associated task specific Risk Assessments and Method Statements (RAMS).

1.2.11. This First Iteration EMP contains several outline management plans to be developed into full management plans, and also identifies additional plans and method statements that will need to be developed by the PC prior to construction commencing to be incorporated into the Second Iteration EMP.

1.2.12. The following specific management plans have been prepared, at this stage, for the Scheme in outline format:

- EMP Appendix B.1 Outline Construction Air Quality and Dust Management Plan
- EMP Appendix B.2 Outline Construction Noise and Vibration Management Plan
- EMP Appendix B.3 Outline Site Waste Management Plan
- EMP Appendix B.4 Outline Landscape and Ecology Management Plan

- EMP Appendix B.5 Outline Construction Communication Strategy
- EMP Appendix B.6 Unexpected archaeological finds protocol
- EMP Appendix B.7 Historical Building Recording Written Scheme of Investigation
- EMP Appendix B.8 Outline Carbon Management Plan

1.2.13. Following the Secretary of State's approval of the DCO for the Scheme, the First Iteration EMP will be updated, as detailed in Table 1-1, to reference specific requirements relating to the various phases of construction. The following management plans will be prepared or refined as part of the Second Iteration EMP.

- Site Waste Management Plan (SWMP)
- Materials Management Plan (MMP) (if required)
- Soil Handling Management Plan
- Construction Noise and Vibration Management Plan
- Construction Air Quality and Dust Management Plan
- Construction Communication Strategy
- Landscape and Ecology Management Plan (LEMP)
- Water Monitoring and Management Plan
- Detailed Historical Building Recording Written Scheme of Investigation
- Invasive Non-Native Species (INNS) Management Plan
- Operational UXO Emergency Response Plan (if required)
- Carbon Management Plan
- Unexpected Archaeological Finds Protocol
- Traffic Management Plan
- Scheme Asbestos Management Plan
- Pollution Incident Control Plan

1.2.14. In addition to the specific management plans listed above the Second Iteration EMP will, as a minimum, include the following appendices:

- Environmental constraints map
- Environmental method statements – where required and where commitments have been made to produce specific method statements including:
- Arboricultural Method Statement which would be prepared during the detailed design phase, refined following final design agreement and in place prior to works affecting trees commencing

- Copy of Evaluation of Change Register – to identify changes to the Scheme that have occurred during the detailed design phase
- Final Environmental Investigation and Monitoring Reports – to include copies of or reference to the location of relevant survey reports (e.g. protected species) and environmental monitoring reports

1.2.15. The First Iteration EMP will be updated by the PC once the design and construction plans have been finalised and prior to commencement of construction. This will align with the following documents and requirements:

- ES (**TR010066/APP/6.1**))
- DMRB LA 104 Environmental assessment and monitoring
- DMRB LD 117 Landscape design
- DMRB LD 118 Biodiversity design
- DMRB GG 182 Major Schemes: Enabling handover into operation and maintenance
- Asset Data Management Manual (ADMM) v13.0 Parts 2 and 3 (in particular for Environmental Information System (EnvIS) requirements)
- Manual of Contract Documents for Highways Works (MCHW)

1.2.16. Early survey works and later stage construction works will be required to comply with applicable environmental legislation together with any additional environmental controls imposed prior to or included within the DCO, and the requirements of the Second Iteration EMP.

1.3. The Scheme

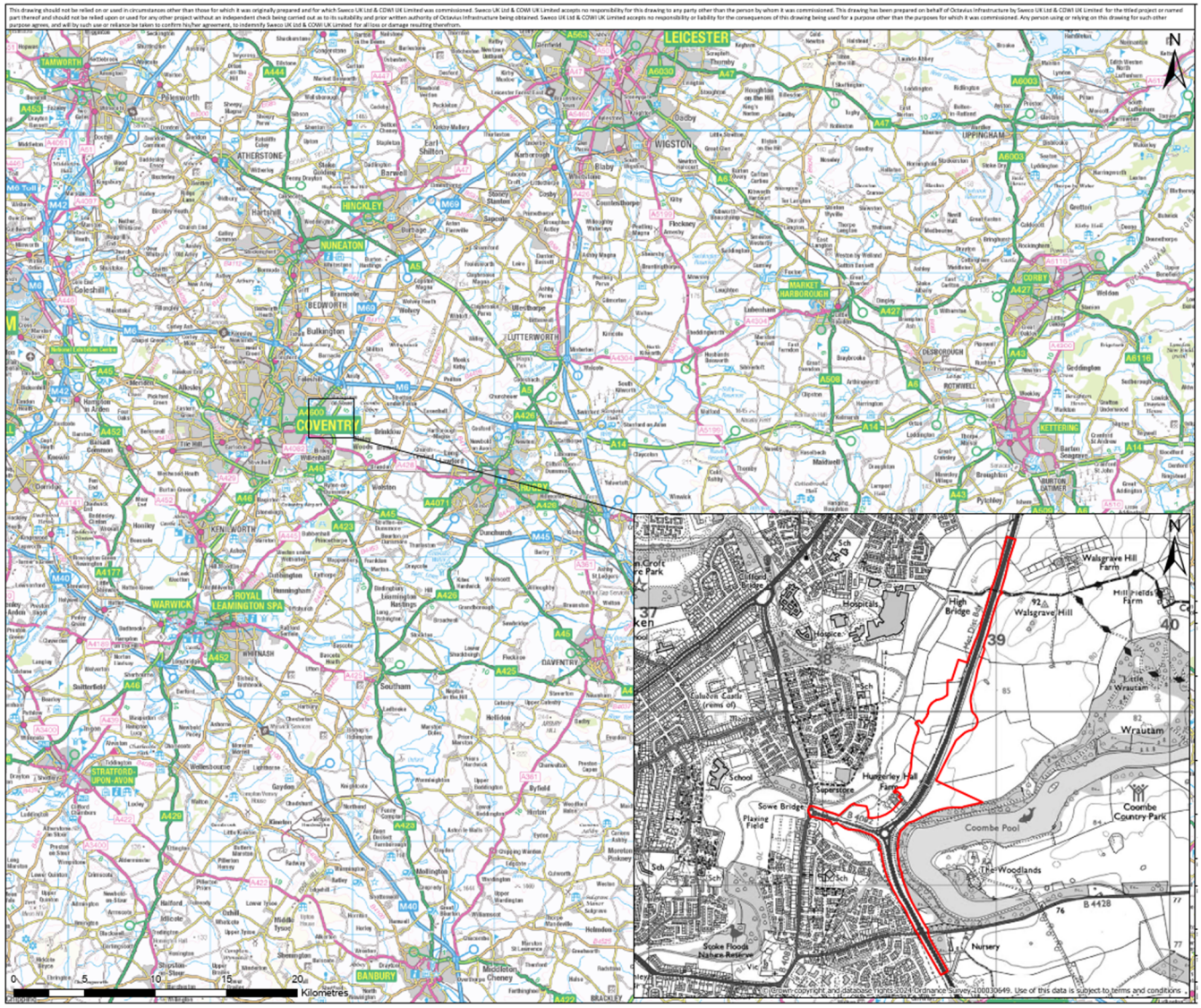
Location

1.3.1. The location of the Scheme is illustrated on ES Figure 2.1 (Location Plan) (**TR010066/APP/6.2**) and Plate 1. The Order Limits of the Scheme are illustrated on ES Figure 2.2 (Order Limits) (**TR010066/APP/6.2**).

1.3.2. The Scheme is located in the West Midlands, approximately 5km to the east of Coventry city centre. Binley Junction, located on the A46, is approximately 1.7km to the south of the existing Walsgrave Junction and the M6 and M69 junctions are approximately 2.5km to the north of the existing Walsgrave Junction.

1.3.3. The Scheme is situated within the Coventry City Council and Rugby Borough Council administrative areas. The boundary between these two administrative areas is along the western side of the A46. Rugby Borough Council's administrative area also forms part of Warwickshire County Council's administrative area, which shares the same border with Coventry City Council.

Plate 1 – Location Plan



Description of the existing A46 Walsgrave Junction

1.3.4. The A46 is currently owned, maintained and operated by National Highways. The existing B4082 from Clifford Bridge Road to the existing Walsgrave roundabout is owned by National Highways with occupier rights granted to Coventry City Council, up to the give way markings on the Walsgrave roundabout. Coventry City Council currently maintain it.

1.3.5. The existing A46 is a dual carriageway within the Scheme extents. South of the existing Walsgrave Junction the road is generally elevated, and north of the existing roundabout, it is generally in cutting. Parking laybys are located on the northbound and southbound carriageways of the A46 mainline between the existing Walsgrave Junction and the M6/M69 junction. Two gantries are present on the northbound carriageway within the Order Limits.

1.3.6. The existing junction comprises of a three arm at-grade roundabout connecting the A46 to the B4082 local network, shown on the Location Plan (ES Figure 2.1 (Location Plan) (**TR010066/APP/6.2**)).

1.3.7. The B4082 is a two-lane single carriageway road that provides a link between the A46 and Clifford Bridge Road. The B4027 Brinklow Road passes under the A46 mainline approximately 600m south of the existing Walsgrave Junction.

1.3.8. Hungerley Hall Farm accommodation overbridge, located approximately 400m north of the existing Walsgrave Junction, is owned by National Highways with access rights granted to Hungerley Hall Farm. The overbridge provides private access between Hungerley Hall Farm to the west of the A46 and the agricultural land to the east of the A46.

1.3.9. The Farber Road overbridge is located is located approximately 1.6km north of the existing Walsgrave Junction, and carries the 156/R75x/1 bridleway over the A46 and provides vehicular access to Walsgrave Hill Farm.

Scheme proposals

1.3.10. A detailed description of the Scheme is provided within ES Chapter 2 (The Scheme) (**TR010066/APP/6.1**). To summarise the Scheme consists of the following principal elements:

- Realignment of the existing A46 dual carriageway through the existing at grade roundabout (which will be removed), for approximately 880m to improve the road geometry and allow for a 50mph speed limit.
- Earthworks on the eastern side of the A46 mainline to facilitate the realignment through the existing at grade roundabout.
- A new grade separated junction over the A46 mainline, approximately 800m north of the existing Walsgrave Junction to connect the B4082 with the A46.

- A new overbridge structure across the existing A46, between the dumbbell roundabouts forming the grade separated junction.
- New merge and diverge slip roads at the grade separated junction for both northbound and southbound movements.
- Realignment of the B4082 to form a single carriageway link road, for approximately 900m, to connect the local road network to the new A46 grade separated junction with a proposed 40mph speed limit.
- Road assets and street furniture such as traffic signs and lines, relocated variable message sign (VMS), street lighting columns, vehicle restraint systems, fences, retaining walls and kerbs.
- Drainage systems including a dry detention basin and two ponds that will be designed to be permanently wet.
- Proposed new maintenance accesses to the drainage features and VMS.
- Retention of the Hungerley Hall Farm accommodation overbridge (the existing bridge that provides farm vehicle access over the A46 mainline).
- Farm access track to the north of Hungerley Hall Farm to provide gated access to the B4082 link road.
- Improvements to facilities for walkers, cyclists and horse-riders (WCH) through provision of a signalised pedestrian crossing on the B4082; and providing enabling works, including the retention of Hungerley Hall Farm accommodation overbridge, for a potential future WCH route to be provided by others.
- Replacement vegetation planting to compensate for the vegetation that needs to be removed to facilitate the Scheme.
- Replacement and installation of new highway boundary fencing.

Existing baseline

1.3.11. All of the environmental designations located within 2km of the Scheme extent are shown on the Environmental Constraints Plan in Appendix A of this First Iteration EMP. Notable statutory and non-statutory environmental designations and additional environmental constraints are as follows:

- Coombe[1] Pool Site of Special Scientific Interest (SSSI) is within the Order Limits and Herald Way Marsh SSSI (1.6km south of the existing Walsgrave Junction).
- Herald Marsh Way Local Nature Reserve (LNR) (approximately 1.45km to the south) and Stoke Floods LNR (approximately 900m south-west of the existing Walsgrave Junction).

[1] Coombe is also spelt as Combe in some databases. For consistency, hereafter the spelling of Coombe will be used.

- Seven locally designated non-statutory Local Wildlife Sites (LWS) including Gainford Rise LWS (approximately 80m south of existing Walsgrave Junction).
- The River Sowe and Withy Brook are Main Rivers. Smite Brook and Birchley Beck are Ordinary Watercourses. The River Sowe and Smite Brook are classified under the Water Framework Directive (WFD).
- Coombe Pool is classified under the Reservoirs Act 1975.
- The nearest noise important areas (NIA) in relation to road noise are over 1km from the existing Walsgrave Junction.
- Coventry City-Wide Air Quality Management Area (AQMA) is within the Order Limits.
- Agricultural land within the Order Limits is classified as a mixture of grade 2 and grade 3.
- Designated heritage assets include two scheduled monuments: Caludon Castle (approximately 880mwest of the Scheme, and a moated site 190m south of and relating to Caludon Castle.
- Coombe Abbey Registered Park and Garden/Conservation Area is within the Order Limits.
- There are numerous listed buildings within 2km including Coombe Abbey, grade II* listed building and three grade II listed buildings at Hungerley Hall Farm.
- There are no veteran or ancient trees listed within the Order Limits however, one tree was recorded of veteran condition during the tree survey due to its age, size and condition, which is adjacent to the Order Limits. Part of the woodland between the A46 and Coombe Abbey Park is protected by Rugby Borough Council's TPO No.82 (23 September 1985), and also falls within the Order Limits.
- Nearby residential communities which are sensitive to change include Walsgrave on Sowe and Binley, Isolated properties including Hungerley Hall Farm and those located off Brinklow Road to the east of the A46.

Scheme objectives

1.3.12. In order to resolve the congestion and safety issues on the A46 to the east of Coventry the following objectives have been identified for the Scheme:

- A Strategic Road Network (SRN) that supports and facilitates economic growth, supporting employment and residential development opportunities.
- An SRN that is maintained to safe and serviceable condition.
- Improve the operation and efficiency of the existing transport network, delivering capacity enhancements to the SRN.

- An SRN that minimises its negative impacts on users, local communities and the environment.
- An SRN that balances the need of individuals and businesses that use and reply upon it.
- Reducing/minimising the impact on the wider environment, whilst seeking to bring enhancement.
- Operational maintenance to be considered holistically during the design stage and at a balance of cost versus disruption.

1.3.1. Full details of the need for the Scheme are provided in the Case for the Scheme (**TR010066/APP/7.1**) and ES Chapter 2 (The Scheme) (**TR010066/APP/6.1**).

Construction programme

1.3.2. Construction is scheduled to commence in 2026. The Scheme would take approximately 23 months to construct, with an assumed opening year of 2028. Key dates are shown in Table 1-2.

1.3.3. A delivery programme has been developed for the Scheme based upon an anticipated DCO decision in May 2026 which influences the project's ability to pursue the land purchases required. The dates representing the key milestones for the Scheme are presented in Table 1-2.

Table 1-2: Key milestones and targeted dates

Milestone	Targeted start date	Targeted completion date
Anticipated DCO decision	**May 2026**	
Pre-commencement works	August 2026	October 2026
Start of main works	October 2026	June 2028
Full proposed scheme open to traffic	**May 2028**	

1.3.4. To minimise the disruption caused by construction of the Scheme, certain works (referred to as pre-commencement works) would be undertaken ahead of the main construction works to allow these works to proceed, and to optimise the overall delivery programme for the Scheme.

1.3.5. Pre-commencement works cover activities associated with site preparation, creation of access points, and the installation of facilities like security fencing, temporary ramps, and placing of signs as well as ecological mitigation with seasonal timing constraints. A Pre-Commencement Plan (**TR010066/APP/6.7**) has been prepared and submitted as part of this application. The Pre-commencement Plan sets out the relevant works, controls and mitigation

required for all pre-commencement works and is secured by Requirement 13 of the draft DCO (**TR010066/APP/3.1**). The pre-commencement activities have been assessed within the ES.

1.3.6. The main construction works would commence following on from the pre-commencement works.

1.3.7. Further details of the construction programme and details on pre-commencement works are provided in ES Chapter 2 (The Scheme) (**TR010066/APP/6.1**).

2. Scheme team roles and responsibilities

2.1. Competent Expert Statement

2.1.1. The environmental specialists who have authored this report are committed environmental professionals who are appropriately qualified and have a demonstrable knowledge, experience, and competence in the environmental management field. They have worked in close collaboration with designers and engineers through the various stages of the Scheme's development to maximise the opportunity to avoid or reduce adverse environmental effects early in the design process and identified mitigation measures to address those effects that cannot be avoided or reduced at source. Further details on competent expert statements are included in the ES chapters 5 to 15 (**TR010066/APP/6.1**).

2.2. Site roles and responsibilities

2.2.1. This section outlines the roles and responsibilities of those individuals and organisations involved with the delivery of the Second Iteration EMP, including the development of the EMP itself and implementation of it, as detailed in Table 1-1.

2.2.2. Names and contact details for each role will be provided by the PC within this section (Table 2-1) as part of the Second Iteration EMP along with relevant competent expert statements where necessary, as required by DMRB LA 120.

2.2.3. The PC is responsible for producing the Second Iteration EMP once the design and construction plans have been finalised. The PC is responsible for ensuring that all site environmental permissions are obtained, and site activities conform with the conditions defined within these permissions. The PC will identify the environmental requirements within method statements and ensure that they are produced, reviewed on time, and communicated to the necessary persons. The PC is responsible for ensuring that environmental risk assessments are effectively monitored, reviewed and communicated.

2.2.4. The Applicant and delegated consultants acting on their behalf, PC and subcontractors are all responsible for complying with the Scheme's environmental policies, relevant environmental legislation and regulations. It is a requirement that all persons on site will be made aware of their duty of care to the environment and will be provided with sufficient training, supervision or instruction through Site Inductions, toolbox talks (TBTs), watching briefs, audits and specific Method Statements as necessary.

2.2.5. Responsibilities for the site environmental management will be delegated to key personnel by the PC who will manage all reporting and monitoring of environmental mitigation during the contract period.

2.2.6. Where required, environmental specialists will be consulted to provide advice on specific issues or site activities, in consultation with the PC.

2.2.7. The key site-based roles and the organisation of responsibilities in relation to environmental management are shown in Table 2-1. The PC will be required to delegate responsibilities to onsite personnel within key areas of the site and compounds. The delegation of responsibility will be clearly identified within relevant documents and site files and will be allocated to a suitably qualified person. Key role personnel will be approved by the Applicant.

Table 2-1: Roles and responsibilities relating to the EMP

Role	Responsibilities
The Applicant Project Manager	Oversee implementation of Scheme and the individuals undertaking specific roles and duties. To ensure the final version of each EMP Iteration (First, Second and Third) are approved by the Secretary of State for Transport through the discharge of requirements process set out in the draft DCO (**TR010066/APP/3.1**) Set the framework and policy for environmental requirements and objectives for the Scheme. To monitor the PCs' performance against the contract including any environmental commitments and targets agreed for the Scheme. Primary responsibility for all matters under the draft DCO (**TR010066/APP/3.1**), its requirements and the Second Iteration EMP.
PC Project Manager	Responsible for management of all construction activities. Overall responsibility for ensuring control measures in the Second Iteration EMP are complied with, in coordination with the PC Environmental Manager. Responsible for environmental performance delivery and delivery of the contract requirements Must be aware of the environmental statutory requirements affecting site activities and seek further advice, if necessary. Ensure that all site environmental permissions are obtained, and site activities conform with the conditions defined within these permissions. Identify the environmental requirements within method statements and ensure that they are produced, reviewed on time, and communicated to the necessary persons. Ensure that environmental risk assessments are effectively monitored, reviewed and communicated. Ensure adequate supplies of environmental control equipment (for example spill response equipment) are available and are appropriately used. Ensure all new employees, contractors and visitors, including delivery drivers, are instructed on site specific environmental requirements.

Role	Responsibilities
	Ensure site specific environmental training needs are identified and training programmes are undertaken for all levels of site staff and contractors and ensure that records are maintained by the environmental manager. Report any significant environmental incidents, disciplinary action or enforcing bodies' visits to the health and safety manager and the Applicant at the earliest possible opportunity. Monitor the performance of personnel and activities under their control and ensure arrangements are in place so that all personnel can work in a manner which reduces risks to them and to the environment. Assist and support the environmental manager and statutory bodies in the investigation of any incidents. Undertake a programme of regular project environmental inspections in liaison with the environmental site representatives. Complete any corrective actions identified and provide status report to the employer's project manager. Any updates to the Second Iteration EMP whether routine or triggered by events should be approved by the PM by way of sign off.
PC Environmental Manager	Responsible for overseeing the environmental components of the Scheme including the production, development and implementation of the Second Iteration EMP. Review all Method Statements for environmental considerations. Maintain and update site specific Method Statements. Coordination of specialists and site environmental management compliance for all staff. Monitor compliance of construction activities in line with the Second Iteration EMP and the relevant environmental legislation, consents, and permissions throughout the construction period. Manage the delivery of the monitoring required under the Second Iteration EMP alongside relevant specialists, and reporting to relevant stakeholders at a frequency to be defined in the Second Iteration EMP. Provide site induction on environmental issues and prepare toolbox talks, and deal with queries and correspondence on environmental issues including liaison with relevant consultees/stakeholders. Organise specialist surveys and undertake day to day monitoring and compliance checks. Monitor control of dust, noise and vibration. Hours of working to meet accepted noise and vibration limits set in consultation with Environmental Health Officer (EHO).

Role	Responsibilities
	Develop with PC Site Health & Safety Officer an Emergency Spillage Response Plan and associated protocols for incidents. Ensure any environmental consents, licenses and agreements are obtained in advance of works. Ensure that the environmental elements of the Scheme have been created and maintained in accordance with the First Iteration EMP and Second Iteration EMP to the appropriate standard. The EM should approve this by way of sign off. Investigate environmental incidents and implement follow-up corrective actions to ensure compliance with UK regulations and legislation.
PC ECoW	Responsible for ensuring that all ecological elements of the Second Iteration EMP are complied with. Responsible for ensuring that the Scheme complies with all ecological legislation and consents, including the draft DCO (**TR010066/APP/3.1**) and those arising from the ES (**TR010066/APP/6.1**) throughout the construction phase. Monitor ecological compliance of construction activities in line with the management plans and the relevant environmental legislation, consents, and permissions throughout the construction phase. Monitor and supervise construction activities (e.g. watching briefs during site clearance activities) to ensure that any unanticipated discoveries of notable flora and fauna, including invasive species, are appropriately dealt with. Identify any new ecological constraints on site and appropriate mitigation measures for them in accordance with the draft DCO (**TR010066/APP/3.1**). Prepare of deliver toolbox talks, where required, to inform all site personnel of the ecological constraints on site. Provide appropriate professional and practical advice to contractors, consultants and project team members associated with ecological issues and where appropriate resolve issues in a practical and efficient way. Approve by way of sign off, that the ecological elements of the Scheme have been created and maintained in accordance with the Second Iteration EMP to the appropriate standard.
PC Archaeological Clerk of Works	Responsible for ensuring that the Scheme complies with all archaeological and heritage legislation and consents, including the draft DCO (**TR010066/APP/3.1**) and those arising from the ES (**TR010066/APP/6.1**) throughout the relevant project phase. Liaise with and provide guidance for contractors in relation to the requirements of the Historic Building Reporting Written

Role	Responsibilities
	Schemes of Investigation (WSI) to be provided in the Second Iteration EMP. Monitoring the works and implementation of construction mitigation measures as required by the Historic Building Reporting WSI. Provide archaeological Toolbox talks to site staff as the PC Environmental Manager requires. Liaise with heritage stakeholders.
PC Environmental Specialists[2]	Such specialists could be required to input into the management plans and could relate to landscape, ecology, road drainage, geo-environmental engineers, and hydrologists. Responsible for ensuring that all relevant elements of the Second Iteration EMP are complied with. Responsible for ensuring that the Scheme complies with all relevant legislation and consents, including the draft DCO (**TR010066/APP/3.1**) and those arising from the ES (**TR010066/APP/6.1**) throughout the relevant project phase. Provide technical input as defined by the PC Environmental Manager including but not limited to contamination and remediation, ecology and landscape works.
PC Health and Safety Manager	Ensure necessary incident, processes and control measures in relation to health and safety are incorporated into the Second Iteration EMP. Ensure compliance of site work with health and safety regulations and guidelines. Ensure appropriate health and safety training given to staff before any works start and that necessary risk assessments are completed. Undertake health and safety audits and site visits to ensure compliance as necessary.
Community Liaison Manager	Maintain and develop Community Relations Strategy. Coordinate the Community Liaison team's communications with the public and interested parties, including outreach

[2] Other environmental specialists not covered by the roles above, but needed to provide the PC with necessary advice or expertise to fulfil the requirements of the First, Second or Third Iteration EMP. It will be for the PC Environmental Manager to coordinate and/or procure such inputs.

Role	Responsibilities
	activities and education, as appropriate. Ensure a project 24-hour reporting system (e.g. hotline number) is established prior to construction works commencing. Assist the Applicant with responses to public concerns or complaints about the works received by the Applicant correspondence team and the out-of-hours 'phone service. In collaboration with the PM and Environmental Manager, addressing landowner or occupier (if applicable) and community concerns relating to the works and liaising directly with concerned parties in conjunction with the Applicant, as required. Keeping the PM and the Environmental Manager informed of any environmental complaints received. Keeping the public informed of project progress and any construction activities that may cause inconvenience to local communities.
All Site Staff	Adhere to all environmental policies, requirements and procedures set out in the Second Iteration EMP and supporting management plans, with the objective of reducing impacts to the environment as far as possible Site personnel to receive briefings, inductions and toolbox talks to ensure awareness of and that correct environmental procedures are followed. In the case of an incident or if any environmental issues identified on site, implement control measures strictly in accordance with the Second Iteration EMP and immediately report to the PC Environmental Manager and/or any other personnel as required. All staff are to be appropriately trained to carry out their respective tasks. Adhere to legislation and where appropriate codes of practice and guidance notes relevant to their work.

3. Register of environmental actions and commitments

3.1. Introduction

3.1.1. The Register of Environmental Actions and Commitments (REAC) is contained in Appendix A and identifies the environmental commitments included within the ES (**TR010066/APP/6.1**) to address the potential environmental effects of the Scheme. As part of this, specific actions and control measures which individual ES Chapters relied upon as part of their assessments have been defined and presented in the REAC. These measures must be implemented and complied with in full.

3.1.2. The measures outlined in the REAC have been determined to ensure compliance with different regulations such as the EIA Regulations, which require an ES to include '*a description of any features of the proposed development, or measures envisaged in order to avoid, prevent or reduce and, if possible, offset likely significant adverse effects on the environment*'.

3.1.3. The REAC will be updated by the PC as part of the Second Iteration EMP where required however any alterations must be in accordance with the principles and procedures defined in the draft DCO (**TR010066/APP/3.1**) and this First Iteration EMP. The REAC table will be updated as required, as the Scheme progresses to track progress of the commitments and record outcomes and evidence of the actions taken, as well as recording and addressing any additional environmental issues that arise during construction.

3.1.4. The REAC table would be finalised at the end of construction, on completion of the Scheme, where it would inform the development of, and be included within the Third Iteration EMP. The Third Iteration EMP would be the mechanism for passing essential environmental information to National Highways and to the bodies responsible for the future maintenance and operation of the Scheme.

3.2. Guide to the REAC

3.2.1. Table 3-1 provides a summary of the purpose of each column within the REAC table.

Table 3-1. Guide to the REAC table

Column	Explanation
Reference	A unique reference given for each action or commitment relating to the discipline of relevance.
Source of Objective, Document reference	Documents of relevance to the action or commitment that should be referred to.

Column	Explanation
Objective	The objective of the action or commitment
Action / commitment (including specific location if applicable)	The necessary action or commitment needed to avoid or minimise environmental effects, as required by the ES. This includes specific references to locations as and where necessary. Where no location is given, the measure is normally one which is relevant across the Scheme (e.g. working hours).
Assumption (on which the action is based)	Any assumptions on which the action or commitment is based,
Achievement criteria or reporting/monitoring requirements	Relevant documents, consultation or other actions needed to ensure the commitment is carried out correctly, and in full.
How is the action to be implemented	How the relevant action will be secured including contractually and through the draft DCO (**TR010066/APP/3.1**)
Responsible person(s)	The person or body responsible for implementing the action or commitment.
When P = Pre-construction C = Construction O = Operation A = All	Expected timescale for when the relevant action or commitment will be adhered to and/or implemented either pre-construction, during construction, during operation or throughout the project.
Completion record	Column to be filled in by PC Project Manager once the action or commitment has been implemented in full.

3.2.2. Unless otherwise stated, the REAC table does not typically define how the action is to be implemented or achieved, other than beyond a contractual obligation, and does not consider the risk management of individual items, unless these elements are implicit within the action.

3.2.3. The REAC table does not include a column to define the ‘source of the action’, since this is generally clear from the Source Reference. However, in preparing a Second Iteration EMP, the PC would include within this column confirmation of commitments agreed with stakeholders.

3.2.4. When preparing the Second Iteration EMP, the PC would include a new column for approval and sign off of actions in accordance with DMRB LA 120 Environmental Management Plans (Highways England, 2020).

3.2.5. The references to guidance documents within the REAC tables are not intended to be exhaustive and in preparing the Second Iteration EMP, the PC would have

due regard to any relevant technical guidance in individual subject areas and draw upon and reference these as appropriate.

Delivery of environmental actions and commitments

3.2.6. The REAC tables present the environmental actions and commitments for the Scheme (i.e., the essential mitigation measures). The PC would deliver the actions and commitments with the application of standard best practice or methods presented within this First Iteration EMP and mitigation measures included in the Scheme design as shown on the Environmental Masterplan (ES Figure 2.4 (**TR010066/APP/6.2**)).

3.2.7. In the event that the PC is able to:

- Define an alternative measure, or
- Refine measures included in the REAC, which would achieve the same environmental outcome at the relevant location

The PC would have to provide evidence to the Applicant that any use of alternative measures would not lead to any materially new or materially different environmental effects compared to those as presented in the ES (**TR010066/APP/6.1**).

4. Consents and permissions

4.1. Consents and agreements position statement

4.1.1. A Consents and Agreements Position Statement (**TR010066/APP/3.3**) for the Scheme sets out the Applicant's intended strategy for obtaining consents and agreements (including any licences, permits and other approvals) needed to implement the Scheme. It identifies at a high-level what consents and agreements are expected to be necessary for the Scheme together with how those consents will be obtained.

4.2. Consents and permissions

4.2.1. As outlined in the Consents and Agreements Position Statement (**TR010066/APP/3.3**), the principal consent for the Scheme will be the DCO. The DCO process provides development consent for the works and enable land acquisition, along with other consents and powers to be dealt with at the same time. It is likely that there will be a number of requirements in Schedule 2 of the draft DCO (**TR010066/APP/3.1**) that would need discharging in consultation with other bodies as required, and approved of by the Secretary of State for Transport in the prescribed durations outlined in the draft DCO (**TR010066/APP/3.1**).

4.2.2. A number of the consents included in the draft DCO (**TR010066/APP/3.1**) are prescribed in The Infrastructure Planning (Interested Parties and Miscellaneous Provisions) Regulations 2015. As a result, under section 150 of the Planning Act 2008, the relevant consenting body must agree to the inclusion (i.e. disapplication) of these consents within the DCO. Discussions between the Applicant and the consenting bodies are ongoing. The aim is that agreement for inclusion of disapplication would be provided during the examination of the DCO application.

4.2.3. Several additional consents and permissions that may also need to be sought separately from the DCO are outlined in the Consents and Agreements Position Statement (**TR010066/APP/3.3**).

4.2.4. Additional consents to be obtained are dependent on finalisation of the detailed design, the detailed construction site set up and methodologies, and discussions with stakeholders, for example the Environment Agency and local authorities. These are not sufficiently developed at this stage to confirm the requirements and therefore it is not practicable to include them within the DCO.

4.2.5. The PC shall update the Consents and Agreements Position Statement (**TR010066/APP/3.3**) and include environmental consents and agreements within the Second Iteration EMP to cover developments through the Scheme detailed design phase and throughout the construction phase, to ensure all relevant consents and permissions are captured.

5. Environmental asset data and as built drawings

5.1. National Highways environmental information system

5.1.1. The National Highways Environmental Information System (EnvIS) consists of specific environmental data supplied by service providers, National Highways and other bodies which is collated and displayed in the Highways Agency Geographic Information System (HAGIS). This data is used to assist in managing the environment, within and surrounding the strategic road network, and in the review and reporting of the environmental performance of both service providers and National Highways.

5.1.2. The requirements for EnvIS for the Scheme are identified in the Asset Data Management Manual (ADMM) version 13 part 2 Requirements and additional information October 2021. This document specifies requirements for asset data management, detailed guidance, information and descriptions of each highway asset type including environmental assets. The data within EnvIS identifies the asset, location, condition and broad management requirements.

5.1.3. The aim of EnvIS is to assist National Highways and service providers, in designing and managing the SRN in an accurate, consistent and environmentally sound manner. Specifically, it aims to achieve the following key strategic and operational objectives:

- Enable consistent and accurate recording and retrieving of specific environmental data about the strategic road network.
- Assist in the review and reporting of environmental performance of both National Highways and service providers.
- Improve understanding of the environmental issues and opportunities that must be considered at different stages of trunk road and motorway management.
- In line with ensuring a value for money approach, assist in the prioritisation of environmental management actions based on an understanding of the condition of the Element and environmental objectives.
- Assist in the handover of environmental data from designers to network management agents (and vice versa) and the transfer of environmental data from an outgoing network management agent to its successor.
- Assist designers and network management agents in the collection of environmental data and use this information to develop specific environmental management programmes and strategies, including EMPs.

5.2. Collection and submission of EnvIS data

5.2.1. The ADMM states that environmental data will be collected and amended over time in a cycle of continual improvement. Achieving this continual improvement requires adherence to regular and specific data submission milestones. The two key milestones for delivery of environmental data are as part of the First Iteration EMP and Third Iteration EMP.

5.2.2. For the First Iteration EMP it's identified that for major projects such as this Scheme that new environmental data particularly for protected species, habitats and cultural heritage assets should be submitted through the EnVIS process, if any previously unknown assets are identified during surveys.

5.2.3. This section should be updated by the PC in advance of the Third Iteration EMP, which will not be signed off by National Highways without confirmation that environmental data has been submitted and fully validated.

5.3. Environmental surveys

5.3.1. The following species surveys have been undertaken to inform the ES (**TR010066/APP/6.1**).

- Habitat and update survey (2022, 2023) – ES Appendix 8.1 (Biodiversity Net Gain Report) (**TR010066/APP/6.3**)
- Great crested newts (2022) – ES Appendix 8.9 (Update Great Crested Newt Report (following eDNA survey 2024)) (**TR010066/APP/6.3**)
- Reptiles (2022)
- Birds – breeding; migratory; and wintering (2022, 2023 – 2024) – ES Appendix 8.3 (Breeding Bird Report) and ES Appendix 8.11 (Wintering Bird Report) (**TR010066/APP/6.3**)
- Barn owl (2022, 2023) – ES Appendix 8.4 (Barn Owl Survey Report) (**TR010066/APP/6.3**)
- Bats (2022, 2023, 2024) – ES Appendix 8.5 (Bat Roost Report), ES Appendix 8.6 (Bat Activity Report), ES Appendix 8.7 (Bat Crossing Point Report) and ES Appendix 8.8 (Bat Hibernation Report) (**TR010066/APP/6.3**)
- Otter and water vole (2022, 2023) – ES Appendix 8.10 (Otter and Water Vole Report) (**TR010066/APP/6.3**)
- Badger (2022, 2023) – ES Appendix 8.2 (Badger Report) (**TR010066/APP/6.3**)

5.3.2. Other environmental surveys undertaken include:

- Agricultural Land Classification survey – ES Appendix 9.2 (Soil Resource Plan and Agricultural Land Classification) (**TR010066/APP/6.3**)

- Archaeological geophysical survey for below ground archaeology – ES Appendix 6.2 (Geophysical Survey Report) (**TR010066/APP/6.3**)
- Archaeological trial trenching for below ground archaeology – ES Appendix 6.4 (Archaeological Trial Trenching Survey Report) (**TR010066/APP/6.3**)
- Arboricultural survey – ES Appendix 7.4 (Arboricultural Impact Assessment) (**TR010066/APP/6.3**)
- Landscape photography surveys – ES Appendix 7.3 (Representative Viewpoints) (**TR010066/APP/6.3**)
- Groundwater monitoring – ES Appendix 9.3 (Ground Investigation Report) (**TR010066/APP/6.3**)
- Noise monitoring survey – ES Appendix 11.3 (Baseline Noise Survey Report) (**TR010066/APP/6.3**)

5.3.3. Additional surveys to be undertaken

- groundwater monitoring (ongoing)
- Pre-construction species surveys

5.3.4. Further additional surveys will be identified as detailed design progresses.

Record of condition

5.3.5. A record of condition or precondition survey will be undertaken prior to taking possession of temporary land from landowners and occupiers (if applicable) and would include the following where applicable:

- Existing crop regimes and the condition of crops (if at a stage this can be assessed).
- The position and condition of existing boundaries
- The condition of existing access arrangements
- The location and type of existing utility assets (e.g. private water supplies)
- The type of land use taking place
- The quality of grazing land
- The existing weed burden
- Soil resource survey report
- The condition of structures and/or buildings
- Weather conditions
- Date of survey
- Grid reference
- Any other relevant detail

5.3.6. Where practicable, photographs, drone and/or video footage including where applicable section drawings/plans should be included in the record of condition, alongside the soil resource survey report and should be provided to the landowner and occupier, for agreement, prior to taking possession of temporary land.

6. Details of maintenance and EMP monitoring activities

6.1. Introduction

6.1.1. This section lists systems of recording and inspections that will be required so as to maintain an audit trail of the environmental obligations, detailed in Table 2-2 of this First Iteration EMP. This will be managed through the Quality and Safety Management Systems (QMS) and the Environmental Management System (EMS) of the PC, meeting the International Organisation for Standardisation (ISO) 14001 standards.

6.1.2. The system will include methods for monitoring, recording and implementing environmental management on site, and for responding to any noted areas of non-compliance. This will ensure that a high standard of environmental control is maintained for the Scheme through the corrective action system managed by the PC.

6.2. Environmental records inspections

6.2.1. The PC's Scheme Quality Administrator will ensure there is a central filing system in place for any checklists, reports and monitoring consistent with the Project QMS and EMS. Records of compliance with the requirements of the Second Iteration EMP, derived from audits and other inspections, will be held at the PC's site office. These will be available for inspection by representatives of any internal or external audit team and the Environment Agency in their statutory role.

6.3. Daily inspection check list

6.3.1. The PC as site owner will ensure environmental mitigation and staff responsibilities are made clear to Site Managers, sub-contracted staff and Site Supervisors. This will be managed through site inductions and specialist training as required. The PC shall make key staff aware of their responsibilities for undertaking routine checks of the site and equipment when necessary. It will be essential that the PC has processes and protocols in place for environmental aspects to be checked. The PC will insert their standard inspection forms and checklists that are associated with their internal EMS into the Second Iteration EMP Appendices for information.

6.3.2. On completion of inspection and checks these will be logged and corrective actions implemented by the delegated Site Manager in discussion with the PC. The log will be reviewed as part of the Applicant's reviewing and audit role.

6.4. Procedures to monitor compliance

6.4.1. An overall Scheme Record will be required as part of the Second Iteration EMP for formal and auditable records associated with implementation of the EMP.

Administration

6.4.2. The PC will be responsible for maintaining site based environmental records including coordination of environmental site checks/inspection records, monitoring (sampling, recording and subsequent actions), consents, permits, and waste transfer notes. The Appendices of the Second Iteration EMP will be live. The environmental records are to be scanned and filed electronically or filed in a hard copy of the live Second Iteration EMP (subject to the PC internal filing systems). In the case of overlap with Health, Safety, Environment and Quality (HSEQ) files, these will be cross referenced within the updated Second Iteration EMP back to HSEQ files held by the PC for any formal auditors to track and monitor compliance. This will be most likely in the case of handling and disposal of hazardous or contaminated waste and any chemicals and specialist materials subject to Control of Substances Hazardous to Health (COSHH) regulations.

Quality Management - Environmental Audit

6.4.3. As part of Quality, Environmental and Safety management systems it will be necessary for an audit to record environmental compliance. The Applicants' Project Manager will instigate regular audits to report on compliance with the contract specification, environmental best practice and site-specific method statements. This will include the review of the monitoring, recording and reporting procedures being maintained by the PC throughout the Scheme.

6.4.4. For completeness, an auditor can only review and take account of the environmental information available at the time of the audit. The outcome of an audit is to identify environmental progress of the Scheme and to issue a formal record in the form of an audit report. Any issues will be raised and dealt with at the time or a Corrective Action Request will be made for actions to be undertaken within a reasonable and timely manner.

Environmental Management Systems

6.4.5. EMS requirements will need to be maintained by contractors associated with the Scheme for the duration of their respective contracts. Contractors are required to be accredited or seeking to be accredited under ISO14001 as this indicates an understanding and implementation of an EMS for recording, monitoring and managing a Scheme.

6.4.6. The level of environmental management will be monitored to assess compliance with the Contract and environmental standards through inspections, and audits. Subject to the contract arrangements, the responsibility for maintaining correspondence and day to day records will rest with the individual organisations

and their internal systems. This includes original copies of correspondence and record copies of issued documentation together with records of subsequent changes. Copies are to be kept on site and circulated to appropriate personnel for action or information only.

Control Documents

6.4.7. All the PC Risk Assessments, Method Statements and COSHH forms must consider environmental impacts and sensitivities in addition to health and safety concerns.

6.4.8. This section will be updated prior to construction by the PC to additionally include:

- Full details of monitoring and reviewing compliance with the Second Iteration EMP, for example daily / weekly / monthly inspections and audit reports.
- Assessment criteria to identify success.
- Procedures for rectification of breaching or failings of the Second Iteration EMP measures

6.5. Maintenance and monitoring activities

Landscape and ecology

6.5.1. As stated in Requirement 4 in Schedule 2 of the draft DCO (**TR010066/APP/3.1**) a LEMP will be produced as part of the Second Iteration EMP which will outline management requirements for landscape and ecology aspects for the Scheme. The LEMP will also specify monitoring requirements for landscape and ecology during the aftercare period to ensure the successful establishment of essential mitigation.

7. Induction, training and briefing procedures for staff

7.1. Environmental training

7.1.1. The PC will be responsible for site inductions and training of all personnel including visitors, full time staff and supply chain providers. The PC will ensure that all personnel conducting environmental tasks are suitably qualified and experienced for the roles and responsibilities that they are employed to undertake.

7.1.2. The PC will work in accordance with their business management system to ensure compliance with the ISO 14001 requirements.

7.1.3. The PC environment policy statement will be clearly displayed, and all personnel will be made aware of it, along with the relevant environmental legislation and the contents of the REAC.

7.1.4. In accordance with DMRB LA 120 Environmental management plans, when prepared this section of the Second Iteration EMP is required to refine the following aspects of induction, training and briefing:

- A summary of the environmental aspects of the Scheme
- Awareness of Second Iteration EMP contents
- Site induction
- On-site training

7.2. Site induction

7.2.1. Prior to commencing work on site, all personnel will be required to attend a site induction where the PC will communicate the environmental objectives and requirements of the Scheme, as well as the responsibilities of the workforce.

7.2.2. The site induction will cover the topics relating to the environment to a level of sufficient detail for the workforce and appropriate to the work being undertaken. Topics would include but are not limited to:

- A summary of the environmental aspects of the Scheme
- An introduction to the Second Iteration EMP
- Environmental site rules
- Preventing nuisance (noise, dust, vibration and odours)
- Communication with road users, affected landowners and stakeholders
- Earthworks and excavations
- Site traffic protocols

- Spill kit use and locations
- Refuelling, mechanical repairs and site maintenance
- Chemical handling and storage
- Emergency spill procedures
- Tree root protection areas
- Waste and energy management
- Reporting of environmental observations and suggestions
- Biodiversity protection and enhancement
- Works in the vicinity of the watercourse
- Heritage and archaeology assets

7.3. On-site training

7.3.1. Those undertaking any activities that could result in an adverse environmental impact will receive additional training which shall be led by the Environmental Manager or EcoW. This training will include reference to the importance of adhering to the contents of the Second Iteration EMP and the potential consequences of departure from any specified method statements. The PC will establish a regime of toolbox talks in agreement with the supply chain. There will be a target of a minimum of one toolbox talk on an environmental topic per month with records of the attendance kept.

7.3.2. An indicative and not exhaustive list of appropriate toolbox talks is provided below. More topics will be added to the list as necessary as for the Second Iteration EMP.

- Archaeology
- Invasive species
- Protective species
- Nesting birds
- Spill control
- Soil planning and management
- Dust and air quality
- Vibration nuisance
- Waste management
- Water pollution

8. Acronyms and glossary

Table 8.1: Acronyms

Terms or abbreviation	Definition
ADMM	Asset Data Management Manual
CoCP	Code of Construction Practice
DCO	Development consent order
DHWSI	Detailed Heritage Written Scheme of Investigation
DMRB	Design Manual for Roads and Bridges
EcoW	Ecological clerk of works
EA	Environment Agency
EHO	Environmental health officer
EMP	Environmental management plan
EnvIS	National Highways environmental information system
ES	Environmental Statement
ISO 140001	International Organisation for Standardisation Standard for Environmental management systems
LEMP	Landscape and Ecology Management Plan
MCHW	Manual of Contract Documents for Highways Works
MMP	Materials management plan
PC	Principal Contractor
RAMS	Risk Assessments and Method Statements
REAC	Register of environmental actions and commitments
SoCG	Statement of Common Ground
SRN	Strategic road network
SSER	Site safety and environmental records
SWMP	Site waste management plan

Terms or abbreviation	Definition
TBT	Toolbox talk – A short presentation to the workforce on any aspect pf the Scheme including health, safety, wellbeing or environment.
UXO	Unexploded Ordnance
VMS	variable message sign
WCH	Walkers, cyclists and horse-riders
WSI	Written Scheme of investigation

Table 8.2. Glossary

Terms	Definition
Applicant	The organisation submitting the application for development consent to the Planning Inspectorate. In this case National Highways.
Application Document	A document submitted to the Planning Inspectorate as part of the application for development consent.
Development Consent Order (DCO)	A DCO is the means of obtaining permission for developments categorised as Nationally Significant Infrastructure Projects (NSIP). This includes energy, transport, water and waste projects.
Code of Construction Practice	Contains control measures and standards to be implemented by the Scheme, including those to avoid or reduce environmental effects.
Environment Agency	The Environment Agency is responsible for environmental protection and regulation in England and plays a central role in implementing the government's environmental strategy. The Environment Agency is the main body responsible for managing the regulation of major industry and waste, treatment of contaminated land, water quality and resources, fisheries, inland river, estuary and harbour navigations, and conservation and ecology. They are also responsible for managing the risk of flooding from main rivers, reservoirs, estuaries and the sea.
Examining Authority	The person(s) appointed by the Secretary of State (SoS) to assess the Development Consent Order application and make a recommendation to the SoS.
Historic England	The public body that looks after England's historic environment. Championing historic places and helping people understand their value and care for them.
ISO 14001 Environmental Management Systems (EMS)	An ISO 14001 environmental management system (or commonly referred to as an EMS) is a structured system designed to help organisations manage their environmental impacts and improve environmental performance caused by their products, services and

Terms	Definition
	activities.
Materials Management Plan	The Materials Management Plan (MMP) identifies materials to be generated and clarifies how they will be reused. The Materials Management Plan must be approved by an independent Qualified Person (registered with CL:AIRE).
Mitigation	Measures intended to avoid, reduce and, where possible, remedy significant adverse environmental effects.
Natural England	Natural England are responsible for: • Helping land managers and farmers protect wildlife and landscapes. • Advising on the protection of the marine environment in inshore waters (0 to 12 nautical miles). • Improving public access to the coastline. • Managing 140 National Nature Reserves and supporting National Trails. • Providing planning advice and wildlife licences through the planning system. • Managing programmes that help restore or recreate wildlife habitats. • Conserving and enhancing the landscape. • Providing evidence to help make decisions affecting the natural environment.
Operation	The functioning of a project on completion of construction.
Order Limits	The land needed to carry out the proposed development.
Planning Inspectorate	The Planning Inspectorate deals with planning appeals, national infrastructure planning applications, examinations of local plans and other planning-related and specialist casework in England.
Principle Contractor	Contractor appointed to coordinate the construction phase of a project where it involves more than one contractor.
Principle Designer	A principal designer is a designer who is an organisation or individual (on smaller projects) appointed by the client to take control of the pre-construction phase of any project involving more than one contractor.
Second Iteration Environmental Management Plan	A Second Iteration EMP includes the specific measures that will be taken to control and manage the environmental impacts whilst the project is under construction that may otherwise occur for each of the environmental topics, such as noise, air quality, water resources and ecology. In addition, a description of the planned works and the general site arrangements should be included in the Second Iteration EMP. The Principal Contractor will be responsible for ensuring the measures specified within the Second Iteration EMP are implemented.
Site Waste Management Plan	SWMPs encourage the effective management of materials and ensure waste is considered at all stages of a project - from design through to completion. Although no longer a regulatory requirement in England, SWMPs are still considered to be good practice.

Terms	Definition
Soils Management Plan (SMP)	An SMP is an important part of ensuring soil sustainability during construction projects.
Third Iteration Environmental Management Plan	A management plan that contains essential environmental information needed by the body responsible for the future maintenance and operation of the asset.
Written Scheme of Investigation (WSI)	A WSI outlines known and potential archaeological features and deposits or built heritage elements on a site and suggests a structure for exploring them using the latest, most appropriate and cost-effective archaeological techniques.

9. References

Asset Data Management Manual (ADMM) v13.0 Parts 2 and 3 (in particular for Environmental Information System (EnvIS) requirements) [online] available at: https://nationalhighways.co.uk/media/biadxgzb/admmv13_part_1_data_principles_and_governance_final.pdf (accessed July 2024

Highways England (2020) Design Manual for Roads and Bridges LA 104 Environmental assessment and monitoring [online] available at: https://www.standardsforhighways.co.uk/search/0f6e0b6a-d08e-4673-8691-cab564d4a60a (accessed July 2024).

Highways England (2020) Design Manual for Roads and Bridges LA 120 Environmental management plans [online] available at: https://www.standardsforhighways.co.uk/dmrb/ (accessed July 2024).

Appendix A - Register of Environmental Actions and Commitments

Provided as a separate document

Appendix B - Relevant management plans

Outline management plans have been included in this First Iteration EMP in Appendices B.1 to B.5. These will be developed into full management plans as part of the Second Iteration EMP.

- Appendix B.1 Outline Construction Air Quality and Dust Management Plan
- Appendix B.2 Outline Construction Noise and Vibration Management Plan
- Appendix B.3 Outline Site Waste Management Plan
- Appendix B.4 Outline Landscape and Ecology Management Plan
- Appendix B.5 Outline Construction Communication Strategy
- Appendix B.6 Unexpected Archaeological Finds Protocol
- Appendix B.7 Historical Building recording Written Scheme of Investigation
- Appendix B.8 Outline Carbon Management Plan

9.1.1. The following management plans will be prepared or refined as part of the Second Iteration EMP.

- Site Waste Management Plan (SWMP)
- Materials Management Plan (MMP) (if required)
- Soil Handling Management Plan
- Construction Noise and Vibration Management Plan
- Construction Air Quality and Dust Management Plan
- Construction Communication Strategy
- Landscape and Ecology Management Plan (LEMP)
- Water Monitoring and Management Plan
- Detailed Heritage Written Scheme of Investigation (DHWSI) (Mitigation Strategy)
- Invasive Non-native Species (INNS) Management Plan
- Operational UXO Emergency Response Plan (if required)
- Unexpected Archaeological Finds Protocol
- Carbon Management Plan

9.1.2. The Outline Traffic Management Plan (**TR010066/APP/7.5**) is a separate document as part of the DCO submission. This will be developed as part of the Second Iteration EMP in parallel with the appendices listed above.

Appendix C - Environmental method statements

To be produced prior to construction by the Principal Contractor. This section will be developed during detailed design and will include:

- Arboricultural method statement
- Protected species method statements

Appendix D - Emergency procedures and record of any environmental incidents

To be produced prior to construction by the Principal Contractor. This section will include:

- Confirmation of procedures in the event of an environmental emergency.

A record of environmental incidents (in table format) if occurred to include the following information:

- Date and location of the incident
- Details of the reporting procedure followed
- Description of the incident and relevant legislation
- Remedial actions
- Lessons learnt
- Details of any contact with enforcing bodies.

Appendix E - Copy of evaluation of change register

To be produced during DCO examination by the design team. This section should include:

- A record of any design changes after the completion of the Environmental Statement.
- A description as to how these design changes have been assessed and any environmental actions required as a result of these changes (e.g. further environmental survey required).

Appendix F - Final environmental investigation and monitoring reports

To be produced prior to construction by the Principal Contractor. This section should include:

- Copies of relevant reports (relating to protected species/ habitats and cultural heritage investigations, and any environmental monitoring reports) or cross reference to the locations of these easily if accessible elsewhere.