Tween Bridge Solar Farm

7.3 Outline Decommissioning Environmental Management Plan

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APFP Regulation 5(2)(q)

Document Reference: 7.3

May 2026

Revision 2

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1 Introduction

1.1. Purpose of this document

1.1.1. RWE Renewables UK Solar and Storage Ltd (hereafter referred to as the 'Applicant') has prepared this Outline Decommissioning Environmental Management Plan (Outline DEMP) in relation to an application for Development Consent Order (DCO) for Tween Bridge Solar Farm (the Scheme).

1.1.2. The main element of the Scheme is the construction, operation, maintenance and decommissioning of a ground mounted solar farm with an intended design capacity of over 50MW, and battery energy storage system (BESS). Once fully operational, the Scheme will export approximately 800MW of electricity to the National Electricity Transmission System (NETS). Flexibility in panel layout design would be required to accommodate expected future technology developments as technology continues to evolve and become more efficient.

1.2. Purpose of this Document

1.2.1. In accordance with the requirements of **Schedule 2** of the **Draft DCO [Document Reference 3.1 Revision 3],** not less than 6 months before the 40th anniversary of the date of final commissioning for any phase of the Scheme, a Decommissioning Environmental Management Plan(s) that sets out the decommissioning and restoration plan for that phase must be submitted to the relevant planning authority for approval. The Decommissioning Environmental Management Plan(s) must be in accordance with this Outline DEMP.

1.2.2. This Outline DEMP provides the proposed structure of the Decommissioning Environmental Management Plan(s). It also indicates additional information or controls which might be included within the Decommissioning Environmental Management Plan(s) to deliver the decommissioning phase of the Scheme. At the time of preparation, the Decommissioning Environmental Management Plan(s) will of course be subject to the relevant standards and legislation at the time of decommissioning.

1.2.3. This Outline DEMP includes a plan (Figure 1) of the identified archaeological assets within the Order Limits. These assets, and any additional assets found during post-consent archaeological investigations, will be considered during the development

of the Decommissioning Environmental Management Plan(s) to ensure they are appropriately protected.

1.2.4. The Principal Decommissioning Contractor will be responsible for working in accordance with the approved Decommissioning Environmental Management Plan(s) which will contain the environmental controls outlined in this Outline DEMP and in line with relevant standards at the time. The overall responsibility for implementation of the Decommissioning Environmental Management Plan(s) will lie with the Principal Decommissioning Contractor as a contractual responsibility to the Applicant.

1.3. Decommissioning Programme

1.3.1. This document does not address measures for the construction or operation (including maintenance) phases, which are provided in the separate **Outline Construction Environmental Management Plan [Document Reference 7.1 Revision 2]** and **Outline Operational Environmental Management Plan (Outline OEMP) [APP-177]** respectively.

1.3.2. The Environmental Statement assumes that construction of the Scheme is built out over up to, a 54 month-period (2028- 2032) in either a single phased approach (development of Land Parcels completed one after another with the potential for breaks between development of Land Parcels) or through multiple phases (development of Land Parcels concurrently). For the multiple phase construction option, no more than two land parcels (within land parcels A-E) would be built out at the same time. ES Environmental Aspect Chapters determine in the methodology 'Assessment Approach' section which of the two options for the construction phasing approach would give rise to the 'worst-case scenario' for the purpose of their assessment. The current connection date for the Scheme, within the NESO Connection Agreement is 2029. As with all electricity generation projects, this date is under review by NESO as part of the ongoing connections reform process.

1.3.3. If the NESO Connection Agreement remains with the connection date of 2029, it would be possible to operate a phased start to operational generation. This phased approach would connect each Land Parcel to the RWE on-site 400kV substation when construction of that Land Parcel was completed. In this operational scenario there would be partial Scheme operation from 2029-2032 (3 years). From 2032 onwards the full Scheme would be generating at full operational capacity. The full

Scheme would operate for 40 years until 2072. If the NESO Grid Connection date varies, which is not within the Applicants direct control, the timeframe where there could be partial operation of the Scheme could reduce or fail to materialise. In this situation the full operational Scheme would operate for 40 years from its new grid connection date. In either connection scenario there will be full operational generation for 40 years, which would be the worst-case scenario operational time period for the Scheme.

1.3.4. Following 40- years of a fully operational Scheme, it is proposed that the Scheme will be decommissioned. This decommissioning with take approximately 24 months and will be in a phased approach.

1.3.5. The Decommissioning Environmental Management Plan(s) will be prepared following the appointment of a Principal Contractor. The Principal Contractor will be responsible for working in accordance with the environmental controls documented in this Outline DEMP.

2 Roles and Responsibilities

2.1. Introduction

2.1.1. The Principal Contractor shall make available sufficient time and resources for the effective management of environmental risks that could arise during construction work. This includes appointing adequately qualified personnel with knowledge and capability in the environmental management of construction site works. Persons having responsibility for environmental site management, and in particular any persons required to undertake and oversee response to any incidents with potential environmental consequences, shall be empowered to make decisions and take appropriate action necessary to avoid or mitigate adverse environmental effects, even when this may lead to delay and/or additional cost to the Principal Contractor.

2.1.2. The Applicant, and all appointed contractors will be responsible for ensuring that the potential risks to the environment are adequately avoided or controlled by the application of measures as documented with the Decommissioning Environmental Management Plan(s), which shall be complied with throughout decommissioning. The main organisations and persons involved in the decommissioning stage works

are set out in **Table 2-1**. The key roles and responsibilities during the construction phase in managing environmental impacts will likely include, but are not limited to:

- **Site Manager –** Overall responsibility for activity onsite and will be based onsite full time.
- **Construction Project Manager –** Overall responsibility for ensuring all elements in the DCO, Decommissioning Environmental Management Plan(s) and all environmental, legal and other requirements are implemented, and appropriately resourced, managed, reviewed and reported.
- **Environment Manager -** Responsible for the overall management of environmental aspects on site, ensuring environmental legislation and best practices are complied with, and environmental mitigation and monitoring measures identified in the Decommissioning Environmental Management Plan are implemented. The Environmental Manager will oversee environmental monitoring on-site and carry out regular environmental site inspections, reporting and responding to any incidents or non-compliance. The Environment Manager will liaise with relevant environmental bodies and other third parties as appropriate.
- **Environmental Advisor –** Oversee the management of and provide advice about environmental and ecological risks during construction including for example, management of protected species, surface water management, air quality and noise.
- **Ecological Clerk of Works (ECoW) –** Management of the risks to biodiversity on site, advising how to protect valued biodiversity features and providing practical solutions.
- **Archaeological Clerk of Works (ACoW) -** Management of the risks to archaeological remains within the site, advising how to protect valued features and providing practical solutions.
- **Health and Safety Manager –** Responsible for the monitoring and controlling of health and safety compliance and related rules and regulations on-site.
- **Community Liaison Officer –** A Community Liaison Group should be set up prior to decommissioning and will continue through to restoration of the Order

Limits as a formal forum for local issues to be raised. A Community Liaison Officer will be appointed to lead discussions with local communities and also act as the primary point of contact should there be any queries or complaints.

2.1.3. These roles and responsibilities are indicative and will be confirmed in the Decommissioning Environmental Management Plan(s).

2.2. Stakeholders

2.2.1. There are several key stakeholders who will be engaged prior to and during decommissioning of the Scheme.

2.2.2. These include:

- City of Doncaster Council
- North Lincolnshire Council
- Lead Local Flood Authorities
- Internal Drainage Board
- Environment Agency
- Historic England
- South Yorkshire Archaeology Service
- Natural England
- National Highways.

3 Decommissioning Environmental Management and Mitigation

3.1. Introduction

3.1.1. This section sets out the general arrangements for the decommissioning phase of the Scheme.

3.2. Decommissioning Activities

3.2.1. Decommissioning activities will involve the removal of above-ground solar infrastructure comprising the solar PV modules and associated mounting structures, inverters, BESS, and ancillary infrastructure, including any on-site compounds.

3.2.2. It is assumed that all the below-ground cables will be left in situ to avoid unnecessary disturbance to the ground or to nearby human or ecological receptors, in accordance with Paragraph 2.10.69 of the National Policy Statement for Renewable Energy Infrastructure (EN-3) **[Ref. 1]**.

3.2.3. The retention or removal of the internal access tracks and highway improvements will be discussed with the relevant stakeholders and landowners.

3.2.4. Public access to Permissive Path would cease upon the start of decommissioning of the relevant phase of development and the land delineated for permissive paths would be returned to the landowners in private ownership upon restoration.

3.2.5. At present, it is not possible to confirm the exact method of uninstalling the solar PV modules and piles during the decommissioning phase of the Scheme, as current techniques may be superseded by alternative techniques during the lifetime of the Scheme. The current method of removing piles is to use a pile driver/extractor which vibrates the piles out of the ground, allowing for a clean extraction with minimal soil disturbance. Details of the methodology used for the above activities will be included in the Decommissioning Environmental Management Plan(s) prior to decommissioning.

3.2.6. Temporary decommissioning compounds would be created to house necessary plant and equipment and provide areas for parking for site staff. These would be removed upon at the end of the decommissioning phase.

3.2.7. At the end of the operational phase, any above-ground infrastructure that is to be removed will be dismantled and removed in accordance with industry best practices. The decommissioned materials will follow the waste hierarchy such that they will be reused where reasonably practicable before recycling and disposal are considered.

3.2.8. It is assumed that all concrete, hardstanding areas, and foundations for the infrastructure (with the exception of any retained access tracks, highways improvements and the two retained on-site substations) will be removed to a depth of up to 1m.

3.2.9. Where infrastructure is removed, land will be reinstated to conditions agreed with the local authorities and in consultation with the landowner.

3.3. Decommissioning Working Hours

3.3.1. The normal hours of working for decommissioning would be: -

- 07:00 hours to 19:00 hours Mondays to Saturdays; and
- 09:00 hours to 13:00 hours on Sundays.

3.3.2. The following controls will also apply to the works:

- No works, including site deliveries and collections, will take place on a Public Holidays unless otherwise agreed with the relevant Local Planning Authority; and
- Where on-site works are to be conducted outside the core working hours, activities will be agreed with the relevant Local Planning Authority.

3.4. Site Security

3.4.1. Site security during decommissioning will be managed by the Principal Decommissioning Contractor. The site security fencing will remain in place throughout the duration of the decommissioning period and will be the last feature to be removed from each part of the Scheme as it is decommissioned. Any storage of materials would be kept secure to prevent theft or vandalism. A safe system for accessing the materials storage areas would be implemented by the Principal Decommissioning Contractor.

3.4.2. Further details of site security and fencing to be installed during the decommissioning phase will be included in the Decommissioning Environmental Management Plan(s).

3.5. Control of Light

3.5.1. Temporary site lighting, in the form of mobile lighting towers will be required in areas where natural lighting is unable to reach (sheltered/confined areas) and during core working hours within winter months. Artificial lighting would be provided to maintain sufficient health and safety on-site and security within the Site, whilst adopting the mitigation principles set out within the **Table 4-1** of this Outline DEMP to avoid excessive glare and minimise spill of light to nearby receptors (including ecology and residents) outside of the Order Limits as far as reasonably practicable.

- All decommissioning lighting will be deployed in accordance with the following requirements to prevent or reduce the impact on human and ecological receptors:
- The use of lighting will be minimised to that required for safe site operations;
- Lighting will conform to best practice guidelines with respect to minimising light spill into adjacent habitats and prevent disturbance to bats and other species during decommissioning;
- Lighting will utilise directional fittings to minimise outward light spill and glare (e.g. via use of light hoods/cowls which direct light below the horizontal place, preferably at an angle greater than 20° from horizontal); and
- Lighting will be directed towards the interior of the Site rather than towards the boundaries.

3.6. Decommissioning Traffic Management and Access

3.6.1. During decommissioning, the Principal Decommissioning Contractor will ensure that the impacts from decommissioning traffic on the local community (including local residents and businesses and users of the surrounding transport network) are minimised, where reasonably practicable.

3.6.2. A Decommissioning Traffic Management Plan will form part of the Decommissioning Environmental Management Plan. The Decommissioning Traffic Management Plan would be drafted to take account of the circumstances prevailing during the period in which decommissioning is to be carried out.

3.6.3. The Applicant plans to maintain the PRoW network during decommissioning, with safety measures similar to those during construction. Temporary diversions of PRoWs Thorne 19 and CROW 21 may be needed to separate the public from vehicles and machinery. If vehicle crossings can't be avoided, a banksman will ensure public safety. PRoW management details will be in the Decommissioning Environmental Management Plan.

3.6.4. In the interests of highway safety, wheel cleaning facilities will be used by vehicles prior to exiting the Order Limits onto the public highway if there is mud or debris from the decommissioning site on the vehicles.

3.7. Parking Provisions

3.7.1. Car parking for site staff during the decommissioning phase will be provided within the temporary decommissioning compounds. These would be removed upon completion of the decommissioning phase.

3.7.2. Details of the temporary decommissioning compounds, including the location and size of parking provisions, loading and unloading areas for plant and materials, storage areas, wheel washing facilities will be confirmed with the Principal Decommissioning Contractor and set out in the DTMP.

3.8. Decommissioning Waste Management

3.8.1. At the end of the operational (including maintenance) phase, all PV modules, mounting poles, cabling above 1m below ground (on and off site) (any cabling buried 1m+ below ground will not be removed at decommissioning), substations, energy storage equipment, inverters, transformers etc. would be removed from site per industry best practices. The decommissioned materials will follow the waste hierarchy such that they will be reused where reasonably practicable before recycling and disposal are considered.

3.8.2. Solar PV modules are made up of several materials, including a metal frame, of which approximately 99% can currently be recycled. The primary choice will be to

reuse materials upon decommissioning. If this is not possible, materials will be recycled to ensure that as much material as reasonably practicable can be diverted from landfills.

3.8.3. In order to control the waste generated on-site and the removal of materials, the Principal Decommissioning Contractor will separate the main waste streams on-site, prior to transport to an approved, licensed third party waste facility for recycling or disposal.

3.8.4. Waste solar PV modules will be classified as a Business to Consumer (B2C) Waste. Waste batteries and solar PV modules will be taken to an approved authorised treatment facility.

3.8.5. Electrical waste will be disposed of per the Waste from Electrical and Electronic Equipment (WEEE) Regulations **[Ref 2.].** A record will be kept of all WEEE waste produced, the weight and the facility it has been disposed at.

3.8.6. Waste estimates, key responsibilities, reporting and auditing requirements and waste recovery targets will be included in the Decommissioning Environmental Management Plan and agreed with the relevant Local Planning Authority prior to decommissioning commencing.

3.8.7. All waste removal from the Site will be undertaken by licensed waste carriers, documented by appropriate waste transfer notes, and taken to licensed waste facilities for recycling or disposal and managed in line with the requirements applicable at the time. The waste hierarchy will be applied, in priority order: prevention, preparation for reuse, recycled, other recovery and disposal.

3.9. Management Plans

3.9.1. The following additional plans are secured by this Outline DEMP and will be prepared as part of the Decommissioning Environmental Management Plan(s): -

- Emergency Response Plan (including Flood Risk). This will be developed in consultation with City of Doncaster Council and North Lincolnshire Council for parts of the Order Limits that fall within their administrative boundaries, emergency services including local fire service, as well as the Environment Agency in relation to responding to flood warnings and events;

- Emergency Spillage Action Plan. This will set out actions that will be taken in an event of a spillage on-site
- Health and Safety Plan. This will set out the health and safety requirements of the Site and how they will be implemented
- Decommissioning Traffic Management Plan

3.9.2. The Decommissioning Environmental Management Plan(s) will detail the procedures for responding to incidents and emergencies on-site, and any reporting.

3.10. Protection of Below Ground Activities

3.10.1. Engagement with utilities companies will be undertaken prior to commencement of decommissioning activities to identify utilities and agree safe methods of working around existing utilities. Protective provisions described in the **Draft DCO [Document Reference 3.1 Revision 3]** will be complied within in relation to this matter.

3.10.2. Offsets around major utilities will be implemented to avoid impacts.

3.11. Housekeeping and Site Maintenance

3.11.1. Good housekeeping is an important part of good environmental practice and helps to maintain a more efficient and safer work environment. The appearance of a tidy, well-managed site can reduce the likelihood of theft, vandalism, complaints and/or specific hazards that could affect the safe operation of the other businesses in the area, such as bird hazards and wind-blown litter.

3.11.2. As outlined in the fourth edition of CIRIA's 'Environmental good practice on-site guide' (C811) **[Ref. 3]**, when considering good housekeeping, the Principal Decommissioning Contractor should implement the following recommendations:

- Adequately plan the Site with designated areas of materials and waste storage;
- Segregate and label different types of waste as it is produced and arrange frequent removal;
- Keep the Site tidy and clean;

- Ensure that no wind-blown litter or debris leaves the Site, use covered skips to prevent wind-blown litter;
- Keep hoarding tidy - repair and repaint when necessary, removing any fly posting or graffiti;
- Frequently brush-clean wheel washing facilities and keep haul routes clean from site derived materials;
- Keep roads free from mud by using a road sweeper; and
- Ensure the Site is secure.

3.12. Best Practice Measures

3.12.1. The Considerate Constructors Scheme **[Ref. 4]** will be adopted to assist in reducing pollution and nuisance from the decommissioning activities, by employing good practice measures which go beyond statutory compliance.

3.12.2. If the Considerate Constructors Scheme has been superseded at the point of decommissioning, the Principal Decommissioning Contractor will apply best practice measures that are current at the time, insofar as appropriate, to ensure pollution and nuisance from the decommissioning stage are minimised.

4 Decommissioning Environmental Management and Mitigation Procedures

4.1.1. **Table 4-1** below sets out a summary of the mitigation and management measures to be included as minimum in the Decommissioning Environmental Management Plan(s), using information presented in the **ES [APP-037 to APP-175].** It also identifies where monitoring is proposed to assess the effectiveness of the mitigation measures. The nature of decommissioning activities and potential for likely significant effects would be similar to construction, and therefore the Decommissioning Environmental Management Plan(s) may include similar measures to those included in the Construction Environmental Management Plan(s).

Table 4-1: Decommissioning Phase Environmental Management and Monitoring Measures

Measure	Monitoring Requirements	Responsibility
Air Quality		
• Display the name and contact details of people accountable for air quality and dust issues with respect to the decommissioning. This may be the environment manager/engineer or the site manager. • Display the head or regional office contact information	Where reasonably practicable commence monitoring at least three months before decommissioning work commences on-site. Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the relevant Local Planning Authority when asked. Monitoring will, where reasonably practicable, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s))
• Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Make the complaints log available to the relevant Local Planning Authority when asked. • Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site and the action taken to resolve the situation in the logbook	agreement with the relevant homeowners/landowners. Carry out regular site inspections to monitor compliance with the Decommissioning Environmental Management Plan, record inspection results, and make an inspection log available to the relevant Local Planning Authority when asked. Increase the frequency of site inspections by the person accountable for air quality and dust issues on-site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions	
Plan site layout so that machinery and dust causing activities are located away from sensitive receptors, as far as is reasonably practicable. • Erect solid screens or barriers around dusty activities or the Order Limits. • Fully enclose site or specific operations where there is a high potential for dust production and the Site is active for an extensive period.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Minimise runoff of water or mud from the Site. • Keep site fencing, barriers and scaffolding clean. • Remove materials that have a potential to produce dust from the Site as soon as possible, unless being re-used on-site. If they are being re-used on-site cover as described below.		
• Ensure all vehicles switch off engines when stationary - no idling vehicles. • Impose and signpost a maximum speed limit of 10mph on internal tracks and work areas. • Produce a Decommissioning Traffic Management Plan to manage the sustainable transit of goods and materials.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Implement a Decommissioning Travel Plan that supports and encourages sustainable travel.		
• Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems. Ensure an adequate water supply on the Site for effective dust/particulate matter suppression/mitigation, using non-potable water where reasonably practicable and appropriate. • Use enclosed chutes and conveyors and covered skips. • Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

water sprays on such equipment wherever appropriate. • Ensure equipment is readily available on-site to clean any dry spillages and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.		
Avoid bonfires or burning of waste material		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where reasonably practicable, to provide a screen against dust). • Ensure effective water suppression is used during demolition operations.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Avoid explosive blasting, using appropriate manual or mechanical alternatives. • Bag and remove any biological debris or damp down such material before demolition.		
• Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable. • Use hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. • Only remove the cover in stages during work and not all at once.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
• Use water-assisted dust sweeper(s) on the access and local roads, to remove, as		Principal Decommissioning Contractor (responsibilities will be confirmed in

necessary, any material tracked out of the Site. • Avoid any dry sweeping of large areas. • Ensure vehicles entering and leaving site are covered to prevent escape of materials during transport. • Inspect on-site haul routes for integrity and instigate necessary repairs to the surface. • Record all inspections of haul routes and any subsequent action in a site logbook. • Use existing access tracks, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.		the Decommissioning Environmental Management Plan(s)).

• Implement a wheel washing system. • Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the Site exit.		
Monitoring for the decommissioning phases is proposed to commence at least three months before work commences on Site.		Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Biodiversity		
Measures to mitigate and manage decommissioning related effects on biodiversity will be included in the Decommissioning Environmental Management Plan(s), including measures to prevent air, water, dust, silt, light and noise pollution and avoid disturbance to sensitive species	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Prior to decommissioning, updated surveys, where required (for example for badgers), would be undertaken in sufficient time in advance of works to ensure that appropriately timed mitigation can be carried out. Appropriate mitigation measures would be based on the results of the updated ecology surveys.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Many of the mitigation measures required for the construction phase are also likely to be required during the decommissioning phase. Further details will be provided in the Decommissioning Environmental Management Plan(s).	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Consultation with appropriate stakeholders and landowners would be undertaken in advance of the decommissioning phase to discuss and secure agreements to maintain and manage the ecological mitigation	No monitoring required for this measure.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

and enhancement beyond the lifespan of the Scheme, as appropriate		
Control measures that would be implemented during decommissioning to reduce the potential risk of disturbance and displacement of Humber Estuary SPA/Ramsar and Thorne & Hatfield Moors SPA site qualifying bird species, such as pre-decommissioning surveys to determine appropriate mitigation, will be included in the Decommissioning Environmental Management Plan(s). Based on the results of the pre-decommissioning surveys, work within areas which are likely to cause disturbance/displacement should be undertaken at an appropriate time of year, such as outside the wintering bird season in proximity to areas	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

which could be used by qualifying bird species of Humber Estuary SPA/Ramsar and outside the breeding bird season within close proximity of the Thorne & Hatfield Moors SPA .		
Control measures that would be implemented during decommissioning to reduce the potential risk of impact to ground nesting birds will be included in the Decommissioning Environmental Management Plan(s). Work within areas which is likely to cause an impact to ground nesting birds, such as within the ecological mitigation and enhancement areas, will be undertaken outside the nesting bird season whilst also avoiding the peak wintering bird season. Appropriate pre-decommissioning nesting bird surveys will be	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

undertaken. A suitably qualified ecologist will supervise all work during the nesting bird season and ensure appropriate measures are undertaken to prevent disturbance, injury and/or death to ground nesting birds.		
Control measures that would be implemented during decommissioning to reduce the potential risk of impact to foraging and commuting bats will be included in the Decommissioning Environmental Management Plan(s), unless otherwise agreed with the relevant Local Planning Authority and directing any lighting away from boundary habitats and areas likely to be used by foraging and commuting bats. Prior to decommissioning, bat monitoring surveys will be undertaken to determine whether bats are using	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

the solar PV module areas for foraging and commuting. The information gathered from these surveys would be used to determine the level of mitigation required to prevent the decommissioning of the Scheme having a significant effect on foraging and commuting bats.		
Climate		
Implement measures to decrease fuel use by maximising energy efficiencies, for example to ensure all vehicles switch off engines when stationary and ensure vehicles are well maintained and conform to current emissions standards.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Promote the use of sustainable fuels in vehicles, and where reasonably practicable making use of electric vehicles to reduce fuel consumption.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Liaise with decommissioning staff to minimise greenhouse gas emissions associated with commute to the Site, including provision of staff minibuses, and promoting of lower carbon modes of travel such as car sharing options and use of public transport.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Actions to accord with the waste hierarchy in accordance with the principles of the Government's Resources and waste strategy for England 2018 will be included in the Decommissioning Environmental Management Plan(s). Promote the reuse and recycling of materials by segregating decommissioning waste.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Cultural Heritage		
Cover decommissioned solar farm infrastructure when in transit to avoid	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in

or reduce the ingress of dust into the listed areas		the Decommissioning Environmental Management Plan(s)).
Ensure that decommissioning staff are made aware on the location of archaeological remains and on measures to minimise the impacts upon below ground archaeological remains.	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Ensure that areas of archaeological remains to be preserved in situ are clearly identified on decommissioning plans and demarked by barrier fencing during decommissioning works	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
All protection measures required to preserve the archaeological resource should remain in place throughout decommissioning.	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Dampen dust created during decommissioning works to avoid or reduce the ingress of dust into the scheduled and listed areas.	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Traffic management measures to reduce or avoid changes to the assets' setting arising from maintenance vehicles will be included in the Decommissioning Environmental Management Plan.	Monitoring to be confirmed with the relevant Local Planning Authority prior to decommissioning commencing	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Measures to reduce or avoid physical impacts to known and potential non-designated heritage assets within the Order Limits, such as by removing the mounting frame for the solar PV modules at the same angle as they were inserted, will be included in the Decommissioning Environmental Management Plan(s).	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Land, Soil and Groundwater		

All internal access tracks would use existing tracks, crossings and/or gaps in the hedgerows where reasonably practicable.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Procedures to manage and mitigate against contaminated land and include emergency procedures to manage accidental spillages and leaks and contaminated land risks during decommissioning will be included in the Decommissioning Environmental Management Plan(s).	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Safety plans to ensure activities and concerns are addressed as far as reasonably practicable will be included in the Decommissioning Environmental Management Plan(s).	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
A mechanism will be included in the Decommissioning Environmental Management Plan(s) for decommissioning workers to report	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in

any suspected contamination during decommissioning will be put in place as per best practice.		the Decommissioning Environmental Management Plan(s)).
Mechanism to manage contamination risk during decommissioning will be included in the Decommissioning Environmental Management Plan(s) as per best practice	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Where aggregates, soil or infill material are brought on-site, they will be sourced by certified clean sources.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Any material removed from the Site for disposal will be documented by appropriate waste transfer note.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Procedures to manage and mitigate against erosion, set out measures for soil management and follow the principles of best practice to maintain	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in

the physical properties of the soil, manage any potential impacts to soil (and agricultural land), details of when soil handling should be avoided, emergency procedures to manage accidental spillages and leaks and contaminated land risks. Details will be included in the Decommissioning Environmental Management Plan.		the Decommissioning Environmental Management Plan(s)).
An Emergency Response Plan will be developed to provide a framework for responding to environmental incidents and emergencies	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Good housekeeping and site maintenance will be required, including management of materials and waste	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Best practice measures will be adhered to in order to reduce pollution	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in

		the Decommissioning Environmental Management Plan(s)).
Records will be maintained relating to routine inspections, investigations, corrective actions and action schedules	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Any potential mitigation measures or remediation works that are determined to be necessary, once an assessment of site investigation results has been completed, will be undertaken.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to safe and responsible fuel storage: • Fuel levels shall be monitored and recorded regularly (sudden changes may be a sign of leaks). • Fuel tanks, secondary containers and storage compounds shall be	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal Decommissioning Contractor to ensure adherence.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

inspected regularly for damage, corrosion, leaks, faults and vandalism. Repair defects/faults immediately and retain records. • The secondary containment system must provide storage for at least 110% of the tanks maximum capacity and ensure that any valves, filters, sight gauges, vent pipes or other ancillary equipment are also situated within the secondary containment system and arranged so that any discharges would be contained. • Fully lockable and labelled 'Fuel Safe Static Tank' will be deployed. • Sufficient spill kits will be provided. Spill kit supply to be monitored regularly to ensure adequate stock remains full.		

• Spill kits will be available within each plant onsite and located close to identified pollution sources or sensitive receptors (fuel storage areas, water course crossings, etc.). • All drains located adjacent or near to refuelling points shall be covered by a drain guard before commencing transfer. All fuel transfers to be supervised. • Drums must be stored in a secure interceptor drum store within the designated refuelling area. • Oil spill and oil impacted water must be collected in a fuel safe container with fuel tags. Fuel spills must be contained using the spill kits provided, spills should be reported to the Principal Contractor's Site Manager immediately.		

• Records must be maintained of all environmental incidents, mitigation works, clean up method and validation. • A suitable container for hazardous wastes must be provided within the waste compound.		
The following measures will be taken, as a minimum, with regard to safe and responsible refuelling: • Where possible, refuelling should only be carried out in a designated area, which will be secured/locked out of hours. • The refuelling area shall be located away from drains and watercourses (>10m from a watercourse and >50 meters from a spring, well or borehole).	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal Decommissioning Contractor to ensure adherence.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Areas of permanent waste oil/fuel/chemical storage will be located 50m away from watercourses or drainage paths. Where this is not possible, advice will be sought from the ECoW and a minimum distance will be agreed with the Applicant. • Refuelling will always be supervised by a competent supervisor. Mobile plant must be refuelled away from surface waters, drains, permeable pavements and open excavations. A fuel drip tray must be used.		
The following measures will be taken, as a minimum, with regard to safe and responsible use and storage of hazardous materials/substances;	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Areas of permeable pavements are not to be used for the temporary storage of cement bags. If unavoidable ensure adequate protection measures are in place to prevent the pavement from becoming blocked. • The Principal Contractor is responsible for carrying out a risk assessment of each substance and ensuring that all appropriate storage, protective equipment and if necessary, emergency procedures are put in place on Site. • All hazardous materials shall be labelled, sealed and stored with their COSHH assessment in a bunded and lockable container away from drains and watercourses when not in use.	Decommissioning Contractor to ensure adherence.	

• COSHH datasheet will be read and understood before using any hazardous materials. • Any spent (contaminated) spill kits, absorbent granules, sheets or fibres must be disposed of in accordance with COSHH regulations and Site Waste Management Plan requirements. • Hazardous liquids shall be transferred using a funnel and drip tray and sealed and returned to the container immediately after use. Damaged containers shall be reported to the Site Manager. • All usages of hazardous liquids shall comply with its requirements for safe handling and storage. • Hazardous liquids must be re-sealed after use. Empty containers are to be disposed of to the		

designated container within the waste compound. Decommissioning workers are required to wear PPE such as gloves and face masks (where appropriate) to prevent dermal contact and inhalation or ingestion.		
The following measures will be taken, as a minimum, with regard to safe and responsible decommissioning: • Minimise the use of builders skips and inspect lifting and locking points, doors and door locks and general condition weekly as minimum. • Provide a suitable and sufficiently sized materials storage compound that is lockable and provides an above-ground covered area, protected from wind and rain. Storage compounds will be	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal Decommissioning Contractor to ensure adherence.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

located away from any identified water features. Surplus materials are to be reused onsite where reasonably practicable. All refuse and recycling to be carried out in accordance with the terms of a valid waste exemption or voluntary codes of practice/protocols. • Excavated material surplus shall be minimised so far as practicable; details of all inert material reuse onsite including composition and disposal location must be mapped and records retained. • If necessary temporary bunding and/or settlement ponds will be installed to allow for isolation and onsite treatment of any sediment laden or contaminated water prior to discharge to the drainage system.		

• Spill kits capable of dealing with hydrocarbon and chemical spills shall be available at all worksites. Each storage location shall be clearly visible to the workforce, for instance by deploying clear signage. • If a compound, fuel storage point or COSHH store is provided then additional spill kits will need to be available at each separate location. • The spill kit contents shall include absorbent pads, absorbent booms, absorbent granules and hazardous waste disposal sacks as a minimum. Regular checks of the spill kits shall be completed to ensure they remain adequately stocked to deal with environmental incidents.		

Spill drills shall be performed periodically to confirm that the workforce can effectively contain and clear up potentially polluting spillages. All drills will be documented and details kept on record for the duration of the works.		
The following measures will be taken, as a minimum, with regard to spillages and leaks: • All pollution incidents should be managed through the STOP – CONTAIN – NOTIFY concept. • STOP: Immediately stop the discharge to prevent further spread to drainage, waterbody or ground. • CONTAIN: Control the spill to prevent environmental impact, such as by stopping works or using containment material.	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal Decommissioning Contractor to ensure adherence.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Personal safety take priority, especially if the spill substance is unknown. • NOTIFY: Promptly inform the appropriate authorities and contacts e.g. Environment Agency and the Applicant. • Oil, Fuel or Chemical Spill to Ground: o Wearing protective clothing, stop release at the source and secure the area. o Create temporary bunds to contain the spill if it is migrating. o Protect nearby drains/ditches using drain seals or spill kit materials. o Absorb the spill with granules or pads from the spill kit.		

○ Notify the Environment Agency with details on time, type/quantity, location, and site contact information. ○ Inform the Applicant and Local Planning Authority if required under Environmental Damage Regulations. ○ Keep containment in place until contamination is assessed and a remediation strategy is developed. • Oil, Fuel or Chemical Spill to Waterbody: ○ Wearing protective clothing, prevent further release at source and contain the spill. ○ Deploy booms from the spill kit across the water to stop spread;		

tie them to banks and add more as needed. ○ Notify the Environment Agency with discharge details and inform the Applicant. • Oil, Fuel or Chemical Spill to Drainage System: ○ Wearing protective clothing, stop further release and deploy drain covers to affected gullies. • Supplement containment with booms around the gully to control migration. ○ Notify the Environment Agency and relevant water company with details on discharge time, type/quantity, specific drain location, and contact information.		

Notify the Applicant and Environment Agency as needed.		
The following measures will be taken, as a minimum, with regard to silt discharge: • Cease dewatering or other activity causing silt release. • Use drain seals, hay bales, silt fencing, or bunds to contain and direct silt away from sensitive areas. If the silt discharge enters drains or surface waters without prior approval, notify the Environment Agency and relevant water company.	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal Decommissioning Contractor to ensure adherence.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to contamination involving waste materials:	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Evacuate the area if necessary, especially if fumes are present. • Assess whether segregation of waste can mitigate the issue. • Conduct a risk assessment including COSHH considerations. • If segregation is unsafe, classify the entire waste volume as hazardous. • Report the incident to the Applicant**.** • Dispose of waste according to standard site procedures.	Management Plan by the Principal Decommissioning Contractor to ensure adherence.	
Should unexpected contamination be discovered, the following measures will be employed: • Halt works immediately upon discovering contamination.	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

• Place removed impacted materials back into the excavation or onto a membrane to prevent further spread. • Report the discovery to the Applicant. • Arrange for fast-turnaround sampling and testing. • Continue work only once contamination is confirmed and a safe working procedure is established. • Do not excavate further without supervision from a geo-environmental engineer	Decommissioning Contractor to ensure adherence.	
The decommissioning will be compliant with the Environment Agency's groundwater protection policies.	The activities undertaken during the decommissioning phase will be audited against the requirements of the Decommissioning Environmental Management Plan(s) and the Soil Management Plan by the Principal	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

	Decommissioning Contractor to ensure adherence.	
Landscape and Visual		
Ecological mitigation and enhancement areas would be handed back to the relevant landowners. Consultation with appropriate stakeholders and landowners would be undertaken in advance of the decommissioning phase to discuss	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Temporary compounds should be maintained with a neat and tidy appearance.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Activities should be undertaken in a sensitive manner with regard to the existing landscape fabric within the Site	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

The soil resource within the Site would be managed during decommissioning in accordance with the principles established in the **Outline Soil Management Plan (Outline SMP) [Document Reference 7.8 Revision 2].**	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Noise and Vibration		
Best Practicable Means as defined by the Control of Pollution Act 1974 will be implemented.	Set up and publicising a contact point with the Principal Contractor and Applicant to log, monitor and address any complaints associated with noise during the decommissioning phases.	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
All engine compartments or acoustic enclosures are closed whilst engines are running.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

All plant, equipment and noise control measures applied to plant and equipment to be maintained in good and efficient working order and operated such that noise emissions are minimised as far as reasonably practicable.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Any plant, equipment or items fitted with noise control equipment found to be defective will not be operated until repaired.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Machines in intermittent use to be shut down or throttled down to a minimum during periods between works.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
As far as is reasonably practicable, the location and orientation of semi-static equipment to be chosen to	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

minimise the noise impact on sensitive receptors.		
A quiet working ethic will be employed to ensure that all members of the workforce have consideration for the nearby residents.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Shouting and use of radios when entering to and from Site, and when working on Site, will be controlled.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Control and limit noise from reversing alarms, using the following hierarchy: • Design Compound layouts to limit and avoid the need for the reversing of vehicles and ensure that drivers are familiar with the worksite layout; • Utilise banksmen to avoid the use of reversing alarms.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Where the use of a banksman is necessary, use reversing alarms incorporating one or more of the features listed in hierarchical order below or any other comparable system: • Highly directional sounders; • Use of broadband signals; • Self-adjusting output sounders; • Flashing warning lights; and • Set reversing alarms to the minimum output noise level required for health and safety compliance.		
Toolbox talks will be carried out by the Principal Contractor to ensure that all members of the workforce are aware of their possible noise impact and of the sensitivities of the vicinity. These will also ensure that Best	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Practicable Means of control are delivered on the Site.		
A programme of community liaison will be carried out, including notification of works and details of the complaints process.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Transport and Access		
Measures with respect to vehicle routing and public right of way management will be set out in a Decommissioning Traffic Management Plan that will form part of the DEMP (and are expected largely to replicate those adopted for the construction phase).	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Water		

Retain damaged land drains if necessary and reasonably practicable. Reinstatement may be required depending on the proposed land use.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Use of low-pressure tyres to limit compaction, where appropriate.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Where required, use of tillage, or similar, to break up compacted soils.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Retain planted watercourse easements and buffers wherever necessary and reasonably practicable to retain benefits in terms of sedimentation and runoff.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Utilise good land management practices such as tillage, crop rotation and maximising grass cover to retain good soil health and percolation benefits.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Appropriate storage of hydrocarbons and other pollutants to reduce the chance for accidental spillage or reduce the chance for entry to water bodies.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Appropriate pollution prevention such as storage of chemicals on bunded impermeable surfaces, provision of spill kits for rapid clean up.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
The re-introduction and use of permeable materials for compounds or lay-down areas.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

Access tracks would remain until late in the programme, or possibly remain in situ with the agreement of the landowners.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).
Major Accidents and Disasters		
To minimise risks to health and safety all works will be undertaken in accordance with relevant Health and Safety legislation and guidance. Details of fire, police, emergency services and hospitals will be publicised and included in the induction. During decommissioning, all works will be subject to relevant risk assessments and will be required and produced by the contractor prior to decommissioning, minimising the risk	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

of major accidents and disasters on site. The perimeter security fence around the Scheme will be the last infrastructure to be removed until the end of the decommissioning phase to secure the site.		
Electric and Electromagnetic Fields		
During the decommissioning phase, the 400kV export connection cable from the RWE on-site 400kV substation to edge of Order Limits will be disconnected to be capped off and left *in situ*, buried underground. The underground cable once disconnected will not produce any significant EMFs or cause microshocks.	If required, monitoring measures will be identified in the Decommissioning Environmental Management Plan(s).	Principal Decommissioning Contractor (responsibilities will be confirmed in the Decommissioning Environmental Management Plan(s)).

5 Implementation

5.1.1. The Decommissioning Environmental Management Plan(s) will set out all roles, responsibilities and actions required in respect of implementation of the measures described within this Outline DEMP, including:

- An organogram showing team roles, names and responsibilities;
- Training requirements for relevant personnel on environmental topics;
- Information of on-site briefings and Toolbox Talks that will be used to equip relevant staff with the necessary level of knowledge to follow environmental control procedures;
- Measures to advise employees of changing circumstances as work progresses;
- Communication Strategy (internal and external);
- Procedures for monitoring, inspections and reporting of site operations;
- Document control; and
- Environmental emergency procedures.

6 Monitoring and Reporting

6.1. Process for Monitoring, Inspections and Audits

6.1.1. Monitoring and reporting will be undertaken for the duration of the decommissioning phase in order to demonstrate the effectiveness of the requirements and measures set out in the Decommissioning Environmental Management Plan(s) and related decommissioning controls and allow for corrective action to be taken where necessary.

6.1.2. As part of the monitoring process the suitably qualified person will be present on-site throughout the decommissioning phase and when new activities are commencing. The suitably qualified person will observe site activities and report any deviations from the Decommissioning Environmental Management Plan(s), along with the action taken and general conditions at the time. The Applicant will be informed of any deviations from the Decommissioning Environmental Management Plan(s) as soon as reasonably practicable following identification of such issues, and if required further follow up will be sought. The suitably qualified person would also act as day-to-day contact with relevant local authorities and other regulatory agencies such as the Environment Agency.

6.1.3. During decommissioning, the suitably qualified person will conduct walkover surveys to ensure all requirements of the Decommissioning Environmental Management Plan(s) are being met. Action from these surveys will be documented on an Environmental Action Schedule, discussed with the Site Manager for programming requirements and issued weekly for actioning.

6.1.4. The suitably qualified person will also arrange regular formal inspections and audits to ensure the requirements of the Decommissioning Environmental Management Plan(s) are being met. Details of monitoring, inspection and audits to be undertaken will be provided in the Decommissioning Environmental Management Plan(s).

6.1.5. After completion of the works, the Environmental Manager will conduct a final review.

6.2. Records

6.2.1. Records will be managed through the Quality and Safety Management Systems (QMS) and the Environmental Management System (EMS) of the Principal Decommissioning Contractor which will be certified in line with the ISO 14001 standards.

6.2.2. The suitably qualified person will retain records of all monitoring, inspections and audits and records related to environmental issues at the Site. This will allow provision of evidence that the Decommissioning Environmental Management Plan(s) are being implemented effectively.

6.2.3. Documents shall be stored in a suitable manner and backups created to safeguard the records. These records will include:

- Results of routine site inspections by suitably qualified person;
- Environmental surveys and investigations;
- Environmental Action Schedule;
- Environmental equipment test records;
- Licenses and approvals; and
- Corrective actions taken in response to incidents, breaches of the approved Decommissioning Environmental Management Plan(s) or complaints received from a third party.

6.2.4. The Decommissioning Environmental Management Plan(s) will be updated if it is necessary to add additional control measures, with a full review as required throughout the decommissioning period. Existing control measures and mitigation will not be amended without prior agreement with the relevant local authority.

7 References

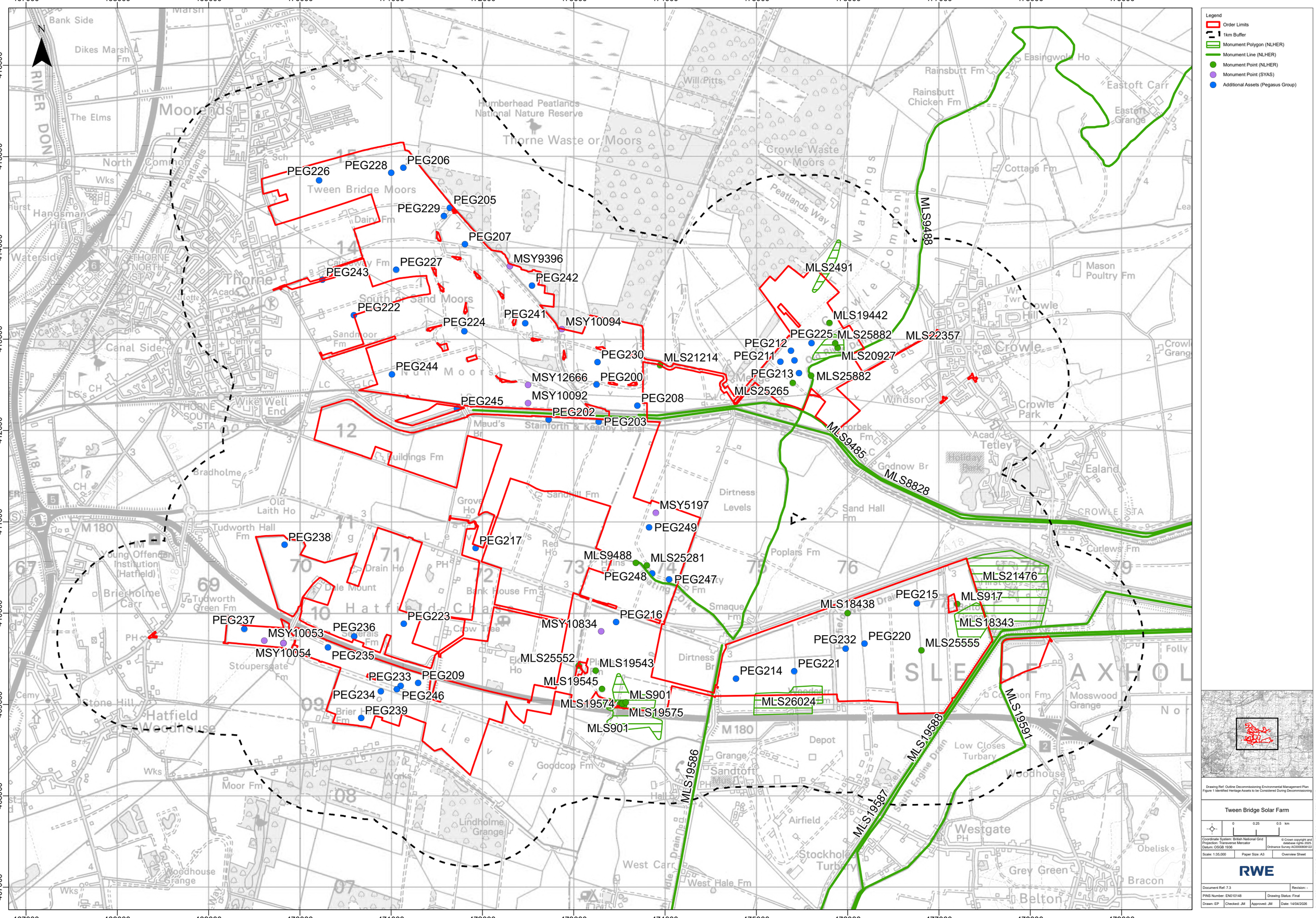
- **Ref 1**: Department for Energy Security and Net Zero (2023). National Policy Statement for Renewable Energy Infrastructure (EN-3). Available online: https://assets.publishing.service.gov.uk/media/65a7889996a5ec000d731aba/nps-renewable-energy-infrastructure-en3.pdf

- **Ref 2.** Department for Environment, Food & Rural Affairs and Office for Product Safety and Standards (2025). *Regulations: Waste Electrical and Electronic Equipment (WEEE)*. Available online: https://www.gov.uk/guidance/regulations-waste-electrical-and-electronic-equipment

- **Ref. 3**: CIRIA (2023) C811 Environmental good practice on site guide (fifth edition)

- **Ref. 4**: Considerate Constructors Scheme. Available online: https://www.considerateconstructors.com/

Figure 1: Identified Heritage Assets to be Considered During Decommissioning


PEG226
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MLS21214
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MSY5197
PEG249
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MSY10834
PEG216
MLS25552
MLS19543
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MLS19574
MLS19575
PEG239
MLS901
MLS2491
MLS19442
PEG225
MLS25882
MLS22357
PEG212
PEG211
MLS20927
PEG213
MLS25882
MLS25265
MLS9488
MLS21476
PEG215
MLS917
MLS18438
MLS18343
PEG232
PEG220
MLS25555
PEG214
PEG221
MLS26024
MLS19586
MLS19588
MLS19591
MLS19587
MLS9485
MLS8828
Legend
Order Limits
1km Buffer
Monument Polygon (NLHER)
Monument Line (NLHER)
Monument Point (NLHER)
Monument Point (SYAS)
Additional Assets (Pegasus Group)
Drawing Ref: Outline Decommissioning Environmental Management Plan
Figure 1 Identified Heritage Assets to be Considered During Decommissioning
Tween Bridge Solar Farm
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
© Crown copyright and database rights 2025.
Ordnance Survey AC0000808122
Scale: 1:35,000
Paper Size: A3
Overview Sheet
RWE
Document Ref: 7.3
Revision: -
PINS Number: EN010148
Drawing Status: Final
Drawn: EP
Checked: JM
Approved: JM
Date: 14/04/2026