



REGISTER OF ENVIRONMENTAL ACTIONS AND COMMITMENTS (TRACKED)

Drax Bioenergy with Carbon Capture and Storage

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - 5(2)(q)

Document Reference Number: 6.5

Applicant: Drax Power Limited

PINS Reference: EN010120



REVISION: 065

DATE: March~~February~~ 2023

DOCUMENT OWNER: WSP UK Limited

AUTHOR: L Ives

APPROVER: N Ashworth

PUBLIC

TABLE OF CONTENTS

1. REGISTER OF ENVIRONMENTAL ACTIONS AND COMMITMENTS 1

TABLES

Table 1.1 Register of Environmental Actions and Commitments 3

APPENDICES

Appendix A – CEMP Watercourse Pollution Prevention Plan

1. REGISTER OF ENVIRONMENTAL ACTIONS AND COMMITMENTS

- 1.1.1. The Register of Environmental Actions and Commitments (REAC) contained in **Table 1.1 below** identifies the environmental actions and commitments that have been identified during the environmental impact assessment (EIA) and reported within the **ES Chapters** (APP-041 – APP-054) and the **Proposed Changes Application Report** (PCAR) (AS-045) in order to mitigate the potential environmental effects of the Proposed Scheme.
- 1.1.2. The REAC contains measures that will be implemented during design, construction, operation and decommissioning of the Proposed Scheme. It will enable the Applicant to communicate environmental actions and commitments to its own organisation and to designers, contractors, operators and users of the Proposed Scheme.
- 1.1.3. Where measures are refined and / or updated as the Proposed Scheme progresses, it shall be ensured that the implementation of such measures does not lead to materially new or materially different effects to those reported in the ES.
- 1.1.4. Where measures will be included in the Construction Environmental Management Plan (CEMP) for the Proposed Scheme this is detailed within the Achievement Criteria and Reporting Requirements column in **Table 1.1** below. It is proposed that approval and implementation of the CEMP will be secured via a requirement in Schedule 2 of the DCO. The CEMP for the Proposed Scheme will include the following plans:
- a. Materials Management Plan (as an appendix to the CEMP);
 - b. Stakeholder Communication Plan;
 - c. Invasive Species Strategy;
 - d. Soils Handling Management Plan;
 - e. [Construction Phase](#) Surface Water Management Plan;
 - f. [Site Waste Management Plan](#) – the SWMP will be produced and updated throughout the construction of the Proposed Scheme and will be part of the CEMP. It is usual that the SWMP will be in electronic format; [and](#)
 - [f.g. Watercourse Pollution Prevention Plan including a contingency plan in case of an accident / pollution incident.](#)
- 1.1.5. Plans that will be produced for the Proposed Scheme but that will not be included in the CEMP include the following, and their approval and implementation is proposed to be secured by a requirement in Schedule 2 of the draft DCO:
- a. Lighting Strategy developed from the **Draft Lighting Strategy** (APP-184)
 - b. Construction Traffic Management Plan (CTMP) developed in accordance with the **Outline CTMP** (REP-011, to be updated at Deadline 2)

- c. Construction Worker Travel Plan (CWTP) developed in accordance with **Framework CWTP** (REP-013, to be updated at Deadline 2)
- d. Landscape and Biodiversity Strategy (LBS) which will be developed from the **Outline LBS** (AS-094, APP-181 to APP-183)

- 1.1.6. Given that it is not currently possible to predict the activities that will be involved in the decommissioning of the Proposed Scheme, specific detail for the DEMP has not been included in this REAC. Those measures that are detailed below that apply to pre-construction and construction stages of the Proposed Scheme will however be considered in the production of the DEMP and the DEMP will be approved by the LPA prior to commencing decommissioning.
- 1.1.7. The Applicant recognises that some effects (including those as a result of noise, fugitive emissions, secondary containment and waste) arising from the Proposed Scheme may be difficult to delineate from permitted activities carried out at Drax Power Station Site in the normal course of events. In the event of an issue or complaint arising, the Applicant would facilitate discussions between the LPA and the EA to determine the appropriate next steps.

Table 1.1 Register of Environmental Actions and Commitments

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
Design						
D1	<p>Design principles, described within Section 4 of the Design Framework (APP-195) for soft and hard landscaping within the Drax Power Station Site, that will be followed in the detailed design, are set out below:</p> <ol style="list-style-type: none"> The inclusion, where reasonably practicable, of landscape elements which reinforce the original intents of the Weddle Strategy for the Drax Power Station Site, notably: <ol style="list-style-type: none"> To create an attractive and positive working environment for site users within the confines of the Power Station; and To provide a landscape structure capable of incorporating continuing development of ancillary industry. Planting measures which seek to enhance any new or modified public realm: <ol style="list-style-type: none"> clear definition of pedestrian/vehicular circulation; sub-division of larger spaces (such as new parking area provision); introducing a “human scale” as a benefit of planting measures; reducing the sense of imposition from adjacent large-scale infrastructure; and Landscape measures where practicable to screen and soften the effects of installed artificial light sources. Improving the biodiversity value of amenity planted areas within the Power Station Site: <ol style="list-style-type: none"> Increasing species-rich grassland areas, with reduced amenity grassed areas (subject to function); Incorporating species-rich amenity hedges where introduced; and Reducing the use of ornamental shrub species in favour of species selection for biodiversity and habitat creation, while maintaining an amenity function. Enhancement opportunities resulting from any necessary replacement of aged, over-mature amenity planting, where its appearance and function is now heavily compromised. Design principles, described within Section 4 of the Design Framework (APP-195) for the colour palette associated with the Proposed Development that will be followed in the detailed design, are set out below: <ol style="list-style-type: none"> ‘Goosewing Grey’ (BS10A05) will be used for storage tanks and pipework; ‘Ash Grey’ BS9093 will be used for buildings over 15 m. ‘Dark Camouflage Brown’ (BS381C-436) will be used for buildings up to 15m in height. 	<p>6.1.9 - para 9.10.6</p> <p>6.9 – para 4.1.10, 4.1.11 and 4.2.21</p> <p>APP-038</p>	Detailed Design	<p>DCO, Schedule 2: Requirement 6 (Detailed Design Approval) for parts 1, 2 and 5</p> <p>DCO, Schedule 2: Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) for parts 3 and 4.</p>	<p>Detailed Design.</p> <p>This will be recorded on as built drawings.</p> <p>Landscape mitigation and planting will occur in line with the LBS which will be approved by the LPA.</p>	Main Designer

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
D2	The current firewater system in place on site will be extended to contain and mitigate fires on the BECCS plant to minimise the risk of spread to the other Control of Major Accident Hazards (COMAH) installations. An additional dedicated firewater tank will be installed for the process area.	6.3.17.2 - Table 1.1	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design This will be recorded on as built drawings.	Designer
D3	During the preliminary design, and to avoid and mitigate adverse impacts from material resources consumption, and the generation and disposal of waste, a proportion of aggregate imported to site for temporary piling platforms will be retained for reuse as structural fill on the Proposed Scheme (55,600 tonnes).	6.1.13 - para 13.9.4	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval) DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) to secure the SWMP.	The details of the reuse of materials will be included in the SWMP Detailed Design This will be recorded on as built drawings.	Designer Main Contractor
D4	<p>A Draft Lighting Strategy (APP-184) has been produced which outlines the mitigation measures for the project. The following specific design requirements will be followed in the lighting design for the Proposed Scheme:</p> <ol style="list-style-type: none"> 1) BS EN 12464-2:2014 provides recommendations and lighting levels for the majority of areas that make up the Proposed Scheme. It is likely that some areas of the site where specific tasks require alternative levels, will require illuminating appropriately but may not be covered by the standard and should be discussed as part of the detailed design phase to determine appropriate levels of illumination and suitable mitigation measures, particularly if levels are required to be high. 2) The extent of lit sections will be constrained to the minimum required for safety; 3) Selected lighting levels will be reduced to the minimum required for safety; 4) LED luminaires will be specified so that light distribution is easily controllable to reduce spill light and other obtrusive parameters; 5) Luminaires will be specified so that no light is emitted directly upward above the horizontal where practicable; 6) Luminaires with a minimum luminous intensity class of G4 (refer to (BSI, 2015)) will be utilised, to remove any light emission above the horizontal and to reduce source intensity over greater distances where practicable; 	<p>6.1.8 – para 8.10.21, para 8.10.29,</p> <p>6.7 – para 5.2.8 to 5.3.13</p> <p>6.1.9 – para 9.10.10</p> <p>6.9 – para 4.1.27</p>	Design Operation	DCO, Schedule 2, Requirement 8 (External lighting during operation)	Lighting Strategy approved by the LPA. This will be recorded on as built drawings .	Designer The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>7) Luminaires will be installed at 0° to the horizontal to preserve their luminous intensity class;</p> <p>8) Luminaires with maximum colour temperatures of 3,000 Kelvin (K) will ideally be used, to minimise the blue-light component and the Proposed Scheme's impact on fauna populations;</p> <p>9) Other colour temperatures up to 5,000 K where higher colour rendering is required for specific visual tasks, can be utilised but will be kept to a minimum where practicable;</p> <p>10) A more limited range of spectral power distribution will be used, with predominance in the longer wavelength end of the spectrum, to aid environmental mitigation;</p> <p>11) A system of control and operation will be considered that allows:</p> <ul style="list-style-type: none"> a) Dimming of lighting to a lower level during periods of low use or switch-off when areas are not in use; b) The use of detection-operated lighting will be considered where appropriate and / or zonal switching i.e., lighting is only operational when tasks are being performed and is activated locally by the operative or via the site control room; <p>12) Shield and baffles will be used where levels of obtrusive light cannot be limited through good design and where issues may arise post-installation;</p> <p>13) The choice of luminaire with the right distribution at the right height will be made to minimising light spill and obtrusive light effects whilst providing the right lighting performance on the task area. It should be noted that a lower mounting height is perhaps not better. A lower mounting height can create a higher level of light spill and require more columns.</p> <p>14) Light spill onto confirmed, suspected or introduced bat roosts, boxes and the like is prohibited and will be avoided primarily through good design and secondarily by physical shields where necessary;</p> <p>15) Light spill onto trees and hedgerows will be minimised through good design, with physical shields installed where necessary;</p> <p>16) A 'buffer zone' of very low illuminance (if any) will be created adjacent to established or proposed key habitats, such as adjacent to treelines. In accordance with ILP GN08 (Institution of Lighting Professionals, 2018) a wider system of zoning may be employed to mitigate against artificial lighting;</p> <p>17) Landscaping measures in the form of shrubs and tree planting to further act as secondary mitigation to screen and soften the effects of installed artificial light sources will be considered;</p> <p>18) To minimise effects on foraging and commuting bats, otters (and other nocturnal species) as a result of light spill, the lighting design will incorporate measures to reduce the effects of lighting on fauna and flora. This will be reviewed by a suitably qualified ecologist to ensure that effects on sensitive habitats are avoided. The</p>					

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	Lighting Strategy will be informed by Lux modelling of any proposed lighting. This will support achieving a maximum increase of 1 lux onto habitats beyond the northern boundary of the Power Station Site (habitats in and adjacent to the Habitat Provision Area) arising from Proposed Scheme operational lighting.					
D5	In order to reduce the potential effects for flooding from sea level rise of the Carbon Capture Plants and supporting infrastructure is creation of additional floodplain capacity (a minimum floodplain area of 880 m ² will be created) through the lowering of ground currently outside the floodplain on land controlled by the Applicant.	6.1.12 - para 12.10.35 6.1.14 - para 14.10.4	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design This will be recorded on as built drawings.	Main Designer
D6	When the new distribution voltage infrastructure equipment has been defined as part of detailed design, an electric and magnetic fields assessment will be carried out.	5.1 - Table 7.2	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Electric and magnetic fields assessment completed.	The Applicant
D7	Surface water runoff from new impermeable areas will be limited to the pre-development greenfield runoff rate or 1.4l/s/ha, whichever is the least. New outfalls will be: 1) Set back from the existing bank and not protrude into the watercourse. 2) Erosion protection will be provided in the existing bed and banks if required. 3) A marker post will be provided at the top of the bank at all new outfalls. 4) The invert levels of any new outfalls are designed in relation to existing watercourses (or receiving watercourse) and that outfalls will not be below existing watercourse bed levels and not submerged below 'normal' water levels. 5) Any variation to the above will be discussed with the IDB.	Requested by the IDB during Pre-Examination	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design.	Designer / Main Contractor
D8	Should detailed design require foundations to be constructed within the 7m buffer from IDB watercourses/culverts, they will be designed in such a manner so that they would not extend into the culvert / channel (i.e. impact flow conveyance) or prevent maintenance to the culvert / channel from being undertaken.	Requested by the IDB during Pre-Examination	Detailed design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design	Designer / The Applicant
D9	It may be mutually beneficial (for the Applicant and the IDB) for the Habitat Provision Areas to be located within 7m of the watercourse. This will be discussed with the IDB during detailed design.	Requested by the IDB during Pre-Examination	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design	Designer / The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
D10	<p>New culverts or crossings will be no smaller than those immediately upstream or downstream so as not to change flood risk. The access crossing culverts will be of box shape or bridge type structure, connecting top of bank to minimise impact on watercourses. If a pipe culvert is unavoidable, it will be sized to be no smaller than a downstream culvert.</p> <p>Following construction, temporary culverts or crossings will be reinstated.</p> <p>Should surface water drainage need to cross the culverted section of Carr Dyke, suitable measures will be in place to enable maintenance to the culvert, and to ensure that the surface water drainage does not go through the culvert.</p>	Requested by the IDB during Pre-Examination	Detailed Design / Construction	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed Design	Designer / Main Contractor
General						
G1	<p>A CEMP will be approved by the Local Planning Authority (LPA) (Selby District Council (SDC)), prior to construction works commencing on site.</p> <p>The measures contained in the CEMP will be reviewed and updated by the Main Contractor in consultation with the LPA on a regular basis. The measures contained in the CEMP will be used to manage and mitigate the potential environmental impacts that could result from the construction and decommissioning of the Proposed Scheme respectively.</p> <p>As a minimum the CEMP will provide that the Applicant will review and update the measures as follows:</p> <ol style="list-style-type: none"> 1) Every six months; 2) To incorporate changes to legislation, policy or other requirements; 3) To incorporate the outcomes of environmental audits and inspections; 4) Following the outcome of environmental incident investigation on site; and 5) In response to near miss and good practice reporting. <p>The CEMP will also provide that the Applicant must provide copies of the updated CEMPs to the LPA accompanied by a confirmation that any revisions within the updated CEMP do not lead to any materially worse environmental effects arising from the Proposed Scheme than those assessed in the ES'.</p>	<p>6.1.2 - para 2.3.33</p> <p>6.1.17 - para 17.11.2 (f)</p>	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	<p>The CEMP will be approved by the LPA.</p> <p>Copies of updated CEMP provided to the LPA.</p>	Main Contractor
G2	<p>Arisings will be suitably stockpiled to maximise reuse. The East Construction Laydown Area has been identified for storage of topsoil from the area and for laydown of plant and materials. The redundant limestone and gypsum storage buildings will be used for covered laydown and fabrication of materials. Stockpiles will be designed to minimise quality degradation, damage and loss of resource.</p> <p>The CEMP will include the following measures to minimise quality degradation, damage and loss of stockpiled resources:</p>	<p>6.1.6 – para 6.10.3</p> <p>6.3.6.2 – para 1.3.1</p> <p>6.1.12 – para 12.10.24</p>	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<ol style="list-style-type: none"> 1) Stockpiles will be located a minimum of 10m from surface water features, a minimum of 10m of water bodies and drainage lines and as far as possible from sensitive properties, taking account of the prevailing wind direction (where practicable); 2) Topsoil and other construction materials (including hazardous materials and plant and equipment) will not be stored in the northern and southern parts of East Construction Laydown Area, which is shown to be at risk of flooding in the breach scenario; 3) The methods for prevention of erosion and leachate generation, such as using jute matting to mitigate the release of sediment load; 4) Appropriate signage will be used to identify contents of stockpiles; 5) To reduce area of surfaces exposed to wind pick-up, stockpile surface areas will be minimised (subject to health and safety and visual constraints regarding slope gradients and visual intrusion); 6) Appropriate stockpile segregation, locations and containment measures, e.g. covering stockpiles with tarpaulins, to minimise the exposure of surface water and groundwater from contaminated run-off and local neighbours from windblown dusts, vapours and asbestos fibres; 7) To prevent wind whipping, stockpiles will be covered, seeded or fenced (where practicable); 8) To stabilise surfaces earthworks and exposed areas / soil stockpiles will be revegetated as soon as practicable. Otherwise, hessian, mulches or tackifiers will be used where re-vegetation is not possible; 9) To provide a physical barrier between the Site and the surroundings windbreak netting / screening will be positioned around material stockpiles and vehicle loading / unloading areas, as well as exposed excavation and material handling operations (where practicable); 10) During dry or windy weather, material stockpiles and exposed surfaces will be dampened down using a water spray to minimise the potential for wind pick-up; 11) Sand and other aggregates will be stored in bunded areas that are not allowed to dry out, unless this is required for a particular process, in which case other appropriate additional control measures will be put in place; and 12) Bulk cement and other fine powder materials will be delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. 	6.1.13 – para 13.10.3				

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
G3	<p>A Materials Management Plan (MMP) will be produced as part of the CEMP, if necessary, following the Contaminated Land: Applications in Real Environments (CL:AIRE) 'Definition of Waste: Development Industry Code of Practice' (CL:AIRE, 2011) and / or exemptions / environmental permits, to ensure that soil re-use and imported materials are suitable for their intended use and will not significantly affect human health or the environment. It will also drive performance in the highest tiers of Waste Hierarchy as required by the Site environmental permit, thereby maximising reuse, recycling and recovery. This includes testing site arisings to determine suitability of reuse. If it is determined that an MMP is not required when the CEMP is submitted for approval, the CEMP will detail the conditions under which an MMP will have to be produced, in addition to details on the timing of its production.</p> <p>The MMP requires answers to a series of questions including:</p> <ol style="list-style-type: none"> 1) The parties involved; 2) Suitably for use criteria; 3) Certainty of use; 4) Quantity of use; 5) Contingency arrangement; and 6) Tracking and document control and a verification plan. 	<p>6.1.11 - para 11.10.12</p> <p>6.1.13 - para 13.10.9</p> <p>6.1.15 - para 15.10.2</p>	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The MMP will be approved by a Qualified Person with a declaration sent to the EA.	Main Contractor
G4	A Piling Risk Assessment will be produced to outline measures to protect the underlying aquifers during construction and mitigate risk of creating preferential pathways for potential contamination. Additionally, risk assessments will be undertaken for any construction proposals entailing significant groundworks (especially those which are proposed to include excavations).	<p>6.1.11 - para 11.10.10</p> <p>6.1.12 - para 12.10.28</p>	Pre-construction Construction	DCO, Schedule 2, Requirement 12 (Ground Conditions)	Piling Risk Assessment will be approved by the EA. Completed risk assessments.	Main Contractor
G5	<p>The following general measures will be included in the CEMP for the Proposed Scheme (taking account of the fact that the Drax Power Station site is operated under an Environment Permit (VP3530LS) and a significant proportion of these requirements are regulated in accordance with the Environmental Permit):</p> <ol style="list-style-type: none"> 1) Construction working hours will be as follows: <ol style="list-style-type: none"> a) During the construction phase, standard working hours will be Mondays to Friday 07:00 to 19:00; b) On Saturdays, working hours will be 07:00 and 14:30; c) Start-up and shutdown activities will take place on the Drax Power Station Site during a one hour window either side of standard working hours; and d) Start-up activities consist of: opening of the site, arrival of workers, changing into work wear and pre-work briefings; and 	<p>6.1.8 - para 8.10.4 - 8.10.7</p> <p>6.1.9 - para 9.10.13</p> <p>6.1.11 - para 11.10.3</p> <p>6.1.12 - para 12.10.17 - 12.10.25</p> <p>6.1.6 - para 6.10.3</p>	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA. Environmental inspection and audit results.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>e) Shutdown activities consist of: changing out of work gear, departure of workers, post-work briefings, closing and securing the site.</p> <p>2) Delivery or removal of materials, plant and machinery must not take place on Sundays, bank holidays nor otherwise outside the hours of:</p> <p>a) 08:00 to 18:00 hours on Monday to Friday; and</p> <p>b) 08:00 to 13:00 hours on a Saturday.</p> <p>3) Restrictions on working hours above do not apply to construction work or the delivery or removal of materials, plant and machinery, where these:</p> <p>a) Are carried out within existing buildings or buildings constructed as part of the authorised development;</p> <p>b) Are carried out with the prior approval of the relevant planning authority; or</p> <p>c) Are associated with an emergency.</p> <p>4) A stakeholder communications plan that includes community engagement before work commences on site will be developed and implemented and which will include a commitment to keep the IDB informed of the timing, duration and progress of temporary works within 7m of an IDB watercourse;</p> <p>5) Working hours outside of these periods, including bank holidays, will be agreed in advance with Selby District Council (SDC) and North Yorkshire County Council (NYCC).</p> <p>6) Regular site inspections will be undertaken to monitor compliance. Inspections will be recorded, and the inspection log made available to the local authority, as required;</p> <p>7) Upon completion, laydown areas and site compounds will be returned to their original use;</p> <p>8) Construction compounds and working areas will be kept in a tidy condition (e.g., free of litter and debris);</p> <p>9) Surrounding roads (New Road) and pavements will be maintained free of excessive dust and mud via wheel washers and water-assisted dust sweepers to prevent “track out” from vehicles. Wheel wash facilities will be appropriately contained to ensure that silt laden water will not reach surface water features. Rumble grids will be used to dislodge accumulated dust and mud prior to leaving the Site where reasonably practicable;</p> <p>10) Appropriate management plan (e.g., COSHH plans) for polluting substances that are being brought on Site and used as part of the construction process. The CEMP will also describe the procedures in the event of an environmental emergency such as a fuel or chemical spillage;</p> <p>11) Appropriate management of sediments in surface water runoff generated in construction area and laydowns;</p>	<p>6.1.5 - para 5.9.17</p> <p>6.3.5.1 - para 3.2.1</p> <p>6.3.5.2 - para 3.5.1 - 3.5.4</p> <p>6.3.6.2 - para 1.3.1</p> <p>6.6 - para 1.4.4, 3.2.2</p> <p>Following consideration of Relevant Representation and for consistency with Drax Re-Power, where this was agreed.</p> <p>Requested by the IDB during Pre-Examination</p> <p>Requested by the EA during Pre-Examination</p>				

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>12) Procedures will be put in place in the case of accidental leakage and / or spillage incidents of oils / hazardous substances including the provision of appropriate spill containment and clean up materials;</p> <p>13) Hydrocarbon interceptors will be incorporated into the Site drainage system at high risk areas, such as parking, unloading and refuelling areas, to remove hydrocarbons and oils from surface water prior to discharge;</p> <p>14) All fuel, oil and chemicals will be stored in a designated secure area, with secondary containment provided;</p> <p>15) All refuelling will be supervised and carried out in a designated area with appropriate cut-off drainage and located away from watercourses;</p> <p>16) Construction method statements and work instructions will be produced that include instructions on dealing with adverse weather conditions, including snow and ice, and environmental incidents and complaints;</p> <p>17) Vegetation will only be removed when necessary and gradients kept as shallow as possible to prevent large amounts of earth being washed away during periods of heavy rainfall;</p> <p>18) Areas of ground that have been exposed will be reseeded or surfaced as soon as practicable;</p> <p>19) Surface water run-off and excavation dewatering will be captured and settled out prior to disposal. Any contaminants will be removed prior to disposal;</p> <p>20) Construction compounds and laydown areas will be surrounded by hoardings to reduce impacts on sensitive receptors due to the construction activities. The hoardings will create an orderly appearance to the edge of the Site and will be a minimum of 2.4 m high, and will be maintained in good condition for the duration of the relevant construction/decommissioning activity. Solid hoardings will be provided on the eastern, northern, and southern boundaries of the East Construction Laydown Area. They will also be provided around the western, northern, and eastern boundaries of the Woodyard, Drax Power Station Site and Construction Laydown Area;</p> <p>21) If the Carbon Dioxide Delivery Terminal Compound is constructed as part of the Proposed Scheme, it will be fenced by using minimum 2.4 m high hoarding, if screening of this is not achieved by the proposed hoarding around the Woodyard, Drax Power Station Site and Construction Laydown Area; and</p> <p>22) Trees and their roots that are within or enter the construction areas will be protected in accordance with BS5837:2012 Trees in relation to design, demolition and construction, and the National Joint Utilities Group (NJUG) Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees. Fencing will be erected prior to construction activities and will remain in place for the entire construction period.</p>					

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>23) Working areas for demolition and construction activities will be offset from existing and retained landscape features and associated habitats (where they fall within or adjacent to the Order Limits) to minimise the risk of accidental damage. This will include offsets to hedgerows, woodland and existing ditches (where these are not Internal Drainage Board (IDB) drains) and buildings to allow maintenance access.</p> <p>24) Selby IDB require a 7 m offset from the landward toe of the ditch for maintenance of all IDB drains. All woody planting in proximity to IDB drains such as hedgerows and trees will be planted outside of this 7 m offset where this is in proximity to an IDB drain. Planting near drains will be undertaken by workers on foot or by small agricultural machinery with the planting undertaken by hand.</p>					
G6	<p>The current environmental management system (EMS), which is certified to ISO14001, will be updated to incorporate any new procedures and update current procedures in order to control environmental impacts as a result of the operation of the Proposed Scheme. Drax Power Station Site will update (prior to construction / operation, as appropriate) operational control procedures, Environment Management System and Drax Management Instructions to incorporate the additional risks and requirements of the Proposed Scheme including, but not limited to:</p> <ol style="list-style-type: none"> 1) Ensuring safe operation of the site and the ability to safely shut down and evacuate the site, if required. 2) Monitoring of the climate risks and impacts to ensure that the Proposed Development can continue to be resilient to climate change. 3) Operational maintenance / improvements to address climate vulnerability as required. 	<p>6.1.12 - para 12.10.33</p> <p>6.3.12.3 - para 6.4.3</p> <p>6.3.14.1 - Table 1.1</p>	Operation	Environmental Permit	<p>Environmental Permit variation approved by the Environment Agency.</p> <p>Records of updates to operational control procedures, Environment Management System and Drax Management Instructions.</p>	The Applicant
G7	<p>A Draft Lighting Strategy has been produced which outlines the mitigation measures for the Proposed Scheme; for construction these measures will be included in the CEMP and will include the following:</p> <ol style="list-style-type: none"> 1) The correct levels of lighting will be provided to ensure the safety of workers and other users of the site; 2) Construction lighting will be designed such that, where practicable, all luminaires are installed internal to the Site (such as on the inside of hoarding where used) and are directed towards the working area; 3) Cranes, where required, may be lit for safety and lighting may be provided within buildings during internal fit-out activities. 4) The lighting will be operational only during construction works, except where lighting is required for out-of-hours security or safety reasons; and 5) Construction lighting will adhere to industry best practice, including guidance from industry bodies (such as the Construction Industry Research and Information Association (CIRIA)). CIRIA guidance, for example, notes that lighting on 	<p>6.1.2 - para 2.3.12</p> <p>6.7 - para 5.2.7</p> <p>6.1.9 - para 9.10.7 - 9.10.9</p>	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The construction lighting measures will be included in the CEMP which will be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	construction sites is typically required for security and safety, while at the same time being required to minimise impact on surrounding receptors.					
G8	<p>A Landscape and Biodiversity Strategy will be developed at the detailed design stage for the Proposed Scheme that will include the measures contained within the Outline Landscape and Biodiversity Strategy (document reference 6.6). It will outline the key principles required to avoid, mitigate and compensate for effects on biodiversity and landscape. The strategy will be developed at each stage of the Proposed Scheme. During pre-construction, construction and operation. Where planting and the creation of new habitats is undertaken the following principles will apply:</p> <ol style="list-style-type: none"> 1) Measures for the retention of existing vegetation are detailed within the Outline Landscape and Biodiversity Plan (APP-180) and illustrated on Figure 3 (Vegetation Retention) (APP-183). Areas of existing amenity planting will be retained wherever practicable. Where the loss of such planting is unavoidable, the detailed design will seek to reinstate those landscape elements that are temporarily lost, or to incorporate new amenity planting measures in-keeping with the original aspirations as set out within the Weddle Strategy for Drax Power Station, where reasonably practicable. 2) Consultation will take place pre-construction with NYCC and SDC to agree the indicative planting palette including seed mixes and sourcing of material; 3) The planting palette for each area within the Order Limits and the Off-site Habitat Provision Area will be drawn from the species outlined in Tables 3.1 to 3.3 of the OLBS, and be informed by updated ecological walkovers, Weddle's Landscape Management Report 1987 / Revised 1990, and consultation with NYCC, SDC and Yorkshire Wildlife Trust. 4) All seed mixes and planting stock will be ordered as early as possible prior to planting, to ensure that the supply does not risk substitution; 5) All seed mixes and tree stock will be sourced from a specialist producer of British native plants; 6) Native trees and shrubs will be sourced from a supplier which follows the Forestry Commission's Voluntary Identification Scheme for British Native trees and Shrubs; 7) Grassland wildflower mixes will be approved by Defra under the Seed (Registration, Licensing and Enforcement) (England) Regulations 2002; and 8) Terms of supply will include a condition that no part of the order shall be substituted with alternative species or of unapproved origin and that any change must be mutually agreed. 9) All new habitat creation and enhancement works will be subject to a long term (30 year) management, maintenance and monitoring plan, detailed in the LBS, to ensure the full and successful establishment of the planting. The LBS will prescribe the maintenance regimes for all different landscape / habitats considering the aims, 	<p>6.1.9 - para 9.10.12 and 9.10.19</p> <p>6.1.8 - para 8.10.16 - 8.10.19</p> <p>6.6</p> <p>6.6.1</p>	<p>Detailed Design</p> <p>Pre-construction</p> <p>Construction</p> <p>Operation</p>	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	<p>Detailed Design</p> <p>Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.</p>	<p>Designer</p> <p>Main Contractor</p>

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>objectives and functions of each area of planting / habitat. The LBS will also set out proposals for monitoring the condition of landscape and habitat creation areas, to assess how these develop post-construction.</p> <p>10)The LBS (in line with the OLBS) will prescribe the maintenance regimes for all different landscape planting and habitats considering the aims, objectives and functions of each area of planting / habitat. The LBS will also set out proposals for monitoring the condition of landscape and habitat creation areas, to assess how these develop post-construction.</p> <p>11)If areas of planting are seen to be failing, soil samples will be taken to identify potential soil issues affecting plant health and soil remediation considered and / or alternative more suitable plants chosen to maintain proposed features. An approved contractor will undertake a number of operations including weed control, checking plants, pruning and replacement planting as well as watering.</p>					
G19	A Decommissioning Environmental Management Plan will be implemented for the decommissioning phase of the Proposed Scheme. It will be produced in line with the relevant legislation in force at the time of cessation of operations and agreed with the Environment Agency as part of the Environmental Permit and site surrender process. Given that it is not currently possible to predict the activities that will be involved in this process, the principle of the measures that are detailed in this REAC that apply to pre-construction and construction stages of the Proposed Scheme will be considered in the production of the DEMP. The DEMP will be approved by the LPA prior to commencing decommissioning.	6.1.2 - para 2.5.6	Decommissioning	DCO, Schedule 2, Requirement 18 (Decommissioning Environmental Management Plan)	The DEMP will be approved by the LPA.	Main Contractor
G20	A trenchless solution will be used for Work No. 8A (for the section where it oversails the carriageway and for the existing landscaping belt to the west of the A645 at 'Tanglewood'). This will avoid impact of the works on the carriageway and established vegetation.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
G21	The Applicant will commit to continuing discussions on the detailed design of the works to take place as part of planning application 22/01930/STPLF with the landowner, in relation to the OHL2 works, alongside ongoing discussions with the asset owner Northern Powergrid.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
Chapter 5 (Transport)						

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
T1	<p>An Outline Construction Traffic Management Plan (OD-009) has been produced to support the DCO Application. It will be updated by the Main Contractor and form part of the CEMP. The following measures will be implemented for the Proposed Scheme:</p> <ol style="list-style-type: none"> 1) Construction workers will park within the existing 500 carparking spaces available within the Drax Power Station Site. However, provision for 300 overflow car parking spaces will be provided within the East Construction Laydown Area. The combined capacity of 800 carparking spaces across the two areas will not be required throughout the entire construction programme, but is included to ensure operational resilience throughout the construction phase as the existing operational units will still require maintenance and outages. The Applicant will monitor parking across the Drax Power Station Site to ensure the cumulative activity does not exceed the total number of parking spaces available and to ensure no indiscriminate parking takes place outside the site.; 2) Site access to the East Construction Laydown Area will be provided in accordance with CD 123 Geometric design of at-grade priority and signal-controlled junctions, Design Manual for Roads and Bridges (DMRB) (2021), or other locally agreed design guidance; 3) Construction traffic (HGVs) will access the site via J36 of the M62, then the A614, A645 and New Road. Access routes for AILS and HGVs are shown in Figure 5.5 and Figure 5.6 (APP-066 and APP-067) respectively. A Highways Condition Survey will be undertaken prior to commencement of construction from the M62 Junction 36 to Drax Power Station Site.; 4) Appropriate signage to ensure sufficient guidance for construction traffic will be provided, and to ensure that the traffic does not deviate from a specified route. Permanent signage will be designed, installed and maintained in accordance with the Traffic Signs Regulations and General Directions (Department for Transport, 2016). For temporary traffic management, the Traffic Signs Manual Chapter 8 (Department for Transport, 2009) will be followed. All proposed signage will be submitted to the Local Highway Authority and National Highways for approval before being placed on the highway; 5) The CTMP will be updated once the final route and logistics are confirmed following consultation for the transportation of AILs; 6) In order to facilitate the delivery of AILs, it will be the responsibility of the haulage company to contact and inform the following key stakeholders: <ol style="list-style-type: none"> a) Emergency services; b) Highway Authorities; c) Local residents; d) Local services, including bus services, refuse collections and regular goods deliveries; and 	<p>6.1.5 - para 5.10.3</p> <p>6.1.6 - para 6.10.5</p> <p>6.3.5.1</p> <p>6.2.5.5</p> <p>6.2.5.6</p> <p>PCAR Table 6-2</p>	Pre-construction Construction	DCO, Schedule 2 Requirement 15 (Construction Traffic Management Plan)	The CTMP will be approved by the LPA after consultation with National Highways.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	e) Local councils. 7) The working areas for Work No. 8 will include sufficient space to enable vehicles to enter and exit each work area in a forward gear.					
T2	<p>A Construction Worker Travel Plan (CWTP) will be produced for the Proposed Scheme which will include measures to minimise the traffic impacts associated with construction workers travelling to and from Drax Power Station. The following measures will be implemented for the Proposed Scheme:</p> <ol style="list-style-type: none"> 1) A member of staff working for Drax will be appointed to the role of Travel Plan Coordinator (TPC) as part of their overall responsibilities. This will be a senior person within the organisation to demonstrate senior management buy in and leadership. They will be responsible for the delivery of the Action Plan (see Table 7.1, in Appendix 5.2 Outline Construction Worker Travel Plan (REP-013, to be updated at Deadline 2)) along with senior management; 2) The TPC will be responsible for establishing and coordinating a Travel Plan Steering Group (TPSG) with appropriate terms of reference. The TPSG will be focused on progressing implementation and delivery of the Travel Plan objectives and measures, as well as approval of monitoring and targets. A meeting frequency of every three months is suggested. The TPC will be responsible for producing a report and presentation reviewing the past 12 months, key achievements and way forward, to be shared with all parties; 3) Construction worker travel surveys will be used to gather information to assess which of the proposed measures are most effective. The TPC will work with senior management in order to ensure that as much information can be collated early on in the recruitment process; the overall aim here is to have a positive influence on construction worker travel pattern. Paragraph 7.4.5 of Appendix 5.2 provides some examples of the types of questions that will be asked in the survey; 4) A strategy for the use of minibuses will be informed by the travel surveys undertaken by the TPC. Minibuses will be coordinated to manage demand at key locations such as Selby train station and local hotels. 5) A dedicated Travel Plan page will be added to the Drax BECCS project website and provide up to date travel plan information, links to transport resources and public transport information and relevant travel policies. The website will serve as a central point for the most up to date travel regulations and advice; 6) Key information and travel options available will be explained to construction workers during their induction, and any contractual requirements will also be communicated at this stage; 7) Sustained and targeted marketing of car sharing and group travel will be delivered before and during the construction phase in order to ensure that construction workers have a good understanding of the CWTP including the objectives, 	<p>6.1.5 - para 5.10.3</p> <p>6.1.6 - para 6.10.6</p> <p>6.3.5.2</p>	Pre-construction Construction	DCO, Schedule 2, Requirement 16 (Construction Worker Travel Plan)	<p>The CWTP will be approved by the LPA.</p> <p>TPC and TPSG are responsible for monitoring and producing an annual report to be shared with all parties.</p>	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>sustainable travel measures, and there role and responsibilities in minimising the effects of the construction phase;</p> <p>8) In order to achieve the vehicle occupancy targets for daily car journeys in the construction phase, the construction site will have a capped number of parking spaces, at no more than 450 spaces. A car parking management scheme will be implemented which provides favourable parking locations for those that travel to the Site with two or more passengers; this will discourage single vehicle occupancy where possible. In addition, a car parking management strategy will be developed by the TPC, and agreed by senior management and the local planning authority prior to the construction period;</p> <p>9) The Applicant will provide electric vehicle charge points and the TPC will ensure all charge points are maintained and in working order. Details on the number and location of the charge points will be agreed with the Local Highway Authority.</p> <p>10) A construction worker registration process will be integrated into the induction process to ensure that all construction workers are registered on a car sharing database and encouraged to assess car sharing to site with other construction workers, either by private car or contractor minibuses;</p> <p>11) In conjunction with the preferential parking offering, those who car share will also benefit from financial savings which will be actively promoted to construction workers;</p> <p>12) Shower and changing facilities will be provided for construction workers, including lockers for personal storage equipment and heated drying areas for clothing;</p> <p>13) To reduce trips off-site, a mess facility will be provided which will be open to all staff to use;</p> <p>14) Convenient, sheltered, well-lit and secure parking provision will be made available for cycle and motorcycles. Additional cycle or motorcycle parking provision will be provided as needed by construction workers and identified through monitoring of this CWTP. To assist cyclists with bike repairs, a dedicated bike maintenance facility will be provided close to the parking shelters;</p> <p>15) Senior management working at, or visiting, the Site who are not part of the construction workforce, should demonstrate a high level of commitment to the CWTP, and follow the same rules and policies to lead by example and encourage wider engagement in the programme; and</p> <p>16) National Highways have requested the monitoring of construction traffic. The TPC and senior management will agree the arrangements for the monitoring of construction traffic with National Highways and review the data at the proposed TPSG to understand and agree if additional measures are required to support the management of the construction phase traffic impacts.</p>					

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	17) In the unlikely event that a peak outage period is planned to overlap with the peak period of construction of the Proposed Scheme, the Applicant will draw upon the travel planning measures contained within the CWTP for the Proposed Scheme.					
T3	A Decommissioning Traffic Management Plan (DTMP) will be provided prior to decommissioning to reflect the changes in transport patterns and travel demand at the time of decommissioning.	6.1.5 – para 5.1.7 6.3.5.2 – para 3.6.3	Decommissioning	DCO, Schedule 2, Requirement 19 (Decommissioning Traffic Management Plan)	The DTMP will be approved by the LPA.	Main Contractor
T4	Work Nos. 7 and 8 will be programmed outside the peak construction periods.	PCAR Tables 5-2 & 6-2	Construction	DCO, Schedule 2 Requirement 15 (Construction Traffic Management Plan)	The CTMP will be approved by the LPA.	Main Contractor
T5	Public Right of Way (PRoW) AIRMF03 is located adjacent to the Order Limits for the Work No.8 but sits just outside the Order Limits. Any works for the OHL will be fenced off to ensure the safety of all users of PRoW AIRMF03, however, given the proximity of the PRoW to the fencing, and the lack of any delineating features to guide the public along the definitive route of the PRoW, powers for a temporary diversion of a short section of the PRoW have been included in the DCO, to ensure interference with the fencing is avoided. The Applicant will seek to avoid diverting the footpath if at all possible. The position, and details of the management measures put in place, will be set out in the CTMP.	6.3.5.1 2.4	Construction	DCO, Schedule 2 Requirement 15 (Construction Traffic Management Plan)	The CTMP will be approved by the LPA.	Main Contractor
Chapter 6 (Air Quality)						
AQ1	The following mitigation measures will be implemented for the Proposed Scheme: 1) The name and contact details of person(s) accountable for air quality and dust issues will be displayed on the construction site boundary e.g. perimeter fence / hoarding at appropriate intervals. This may be the environment manager / engineer or the site manager. The head or regional office contact information will also be displayed; 2) All dust and air quality complaints will be recorded, and causes identified. Appropriate remedial action will be taken in a timely manner with a record kept of actions taken, including of any additional measures put in place to avoid	6.1.6 - para 6.10.3 6.3.6.2 - para 1.1.3 6.1.8 - para 8.10.9 - 8.10.12, para 8.10.34	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>reoccurrence. The complaints log should be made available to the local authority on request. Any exceptional incidents that cause dust and / or air emissions, either on- or offsite will be recorded, and then the action taken to resolve the situation recorded in the logbook;</p> <p>3) When there is a risk of dust from construction activities, daily on-site and off-site inspections will be undertaken, where receptors (including roads) are nearby to monitor dust. The inspection results should be recorded and made available to the local authority when asked.</p> <p>4) Where deemed applicable, dust deposition, dust flux, or real-time PM10 continuous monitoring locations will be agreed with the Local Authority. Where possible baseline monitoring will start at least three months before work commences on site or, if it a large site, before work on a phase commences;</p> <p>5) The frequency of site inspections will be increased when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions;</p> <p>6) The Site layout will be planned so that machinery and dust causing activities are located away from receptors, as far as is practicable;</p> <p>7) Where practicable, solid screens or barriers will be erected around dusty activities or the construction site boundary that are at least as high as any stockpiles on site, if practicable;</p> <p>8) All vehicle operators will switch off engines when stationary - no idling vehicles;</p> <p>9) All construction plant and equipment will be maintained in good working order and not left running when not in use;</p> <p>10)The use of diesel- or petrol-powered generators will be avoided and mains electricity or battery powered equipment used where practicable;</p> <p>11)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.</p> <p>12)An adequate water supply on the Site for effective dust / particulate matter suppression / mitigation will be made available, using non-potable water where possible and appropriate;</p> <p>13)Drop heights from loading or handling equipment will be minimised and fine water sprays used on such equipment as appropriate;</p> <p>14)Vehicles entering and leaving the Site will be covered to prevent escape of materials during transport;</p> <p>15)Enclosed chutes and conveyors and covered skips will be used;</p>	6.1.12 - para 12.10.26				

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>16) It will be ensured that 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;</p> <p>17) Bonfires or burning of waste materials will be prohibited;</p> <p>18) Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being in frequent use;</p> <p>19) Avoid dry sweeping of large areas; and</p> <p>20) Access gates will be located at least 10 m from sensitive receptors.</p>					
AQ2	<p>Operational changes to the Main Stack emissions parameters will include:</p> <p>1) Reducing SO₂ emissions by 40%, applied to the BECCS Biomass Units; and</p> <p>2) Increasing exit temperature of flue gases from the BECCS Units from 80°C to 103°C.</p>	<p>6.1.6 - para 6.10.8</p> <p>6.1.8 - para 8.10.11</p>	Operation	Environmental Permit	Environmental Permit variation approved by the Environment Agency.	The Applicant
Chapter 7 (Noise and Vibration)						

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation																																																																											
NV1	<p>Once details of the new equipment are known, and before the operation of the Proposed Scheme commences, a noise mitigation scheme will be submitted to the LPA to demonstrate via noise modelling that the rating noise levels for normal mode of operation predicted at 1m from the façade of noise sensitive receptors will not exceed the following values in the following table:</p> <table><tr><th>Receptor</th><th>Easting</th><th>Northing</th><th>Rating Level, L_{Ar,Tr} dB</th></tr><tr><td>R1, Wren Hall</td><td>467273.9</td><td>427168.2</td><td>30</td></tr><tr><td>R2, Long Drax</td><td>468163.8</td><td>428107.5</td><td>25</td></tr><tr><td>R3, Old Lodge</td><td>467515.8</td><td>428113.3</td><td>24</td></tr><tr><td>R4, Drax Abbey Farm</td><td>467042.9</td><td>428281.2</td><td>26</td></tr><tr><td>R5, Foreman's Cottage</td><td>466842.8</td><td>428479.7</td><td>26</td></tr><tr><td>R6, 2 Forest Grove Barlow</td><td>465213.8</td><td>428417.7</td><td>34</td></tr><tr><td>R7, Brigg Lane</td><td>465054.1</td><td>426248.0</td><td>33</td></tr><tr><td>R8, Station Cottage</td><td>466671.9</td><td>426399.0</td><td>23</td></tr><tr><td>R9, Briden Bungalow</td><td>467759.4</td><td>426857.7</td><td>27</td></tr><tr><td>R10, Weston House</td><td>466922.8</td><td>426331.1</td><td>24</td></tr><tr><td>R11, Rose Cottage</td><td>468427.5</td><td>426135.4</td><td>24</td></tr><tr><td>R12, Brigg Farm Court</td><td>465207.2</td><td>426066.8</td><td>24</td></tr><tr><td>R13, Camela House</td><td>464868.2</td><td>426604.7</td><td>36</td></tr><tr><td>R14, Low Farm</td><td>464211.5</td><td>427351.1</td><td>35</td></tr></table> <p>The assumed noise levels presented in the table below, or a similar configuration of values as appropriate to comply with the DCO requirement on operational noise, will be achieved through mitigation defined during detailed design.:</p> <table><tr><th>Plant</th><th>Location</th><th>Noise Level L_{Aeq,T} dB(A)</th></tr><tr><td>Flue Gas Booster Fans</td><td>5 m from equipment</td><td>69</td></tr><tr><td>Carbon Dioxide Compressor Buildings</td><td>5 m from building</td><td>53</td></tr><tr><td>Pumps</td><td>1 m from each pump</td><td>80</td></tr><tr><td>Combined Power Turbine Buildings</td><td>5 m from building</td><td>63</td></tr></table>	Receptor	Easting	Northing	Rating Level, L _{Ar,Tr} dB	R1, Wren Hall	467273.9	427168.2	30	R2, Long Drax	468163.8	428107.5	25	R3, Old Lodge	467515.8	428113.3	24	R4, Drax Abbey Farm	467042.9	428281.2	26	R5, Foreman's Cottage	466842.8	428479.7	26	R6, 2 Forest Grove Barlow	465213.8	428417.7	34	R7, Brigg Lane	465054.1	426248.0	33	R8, Station Cottage	466671.9	426399.0	23	R9, Briden Bungalow	467759.4	426857.7	27	R10, Weston House	466922.8	426331.1	24	R11, Rose Cottage	468427.5	426135.4	24	R12, Brigg Farm Court	465207.2	426066.8	24	R13, Camela House	464868.2	426604.7	36	R14, Low Farm	464211.5	427351.1	35	Plant	Location	Noise Level L _{Aeq,T} dB(A)	Flue Gas Booster Fans	5 m from equipment	69	Carbon Dioxide Compressor Buildings	5 m from building	53	Pumps	1 m from each pump	80	Combined Power Turbine Buildings	5 m from building	63	6.1.7 - para 7.5.51 to 7.5.53 and Tables 7.14, 7.25 and 7.26	Pre-Operation	DCO, Schedule 2, Requirement 17 (Control of Noise during Operation)	Noise Mitigation Scheme including noise modelling outputs to be submitted to the LPA. Reporting of the noise levels at each of the sensitive receptors.	The Applicant
Receptor	Easting	Northing	Rating Level, L _{Ar,Tr} dB																																																																														
R1, Wren Hall	467273.9	427168.2	30																																																																														
R2, Long Drax	468163.8	428107.5	25																																																																														
R3, Old Lodge	467515.8	428113.3	24																																																																														
R4, Drax Abbey Farm	467042.9	428281.2	26																																																																														
R5, Foreman's Cottage	466842.8	428479.7	26																																																																														
R6, 2 Forest Grove Barlow	465213.8	428417.7	34																																																																														
R7, Brigg Lane	465054.1	426248.0	33																																																																														
R8, Station Cottage	466671.9	426399.0	23																																																																														
R9, Briden Bungalow	467759.4	426857.7	27																																																																														
R10, Weston House	466922.8	426331.1	24																																																																														
R11, Rose Cottage	468427.5	426135.4	24																																																																														
R12, Brigg Farm Court	465207.2	426066.8	24																																																																														
R13, Camela House	464868.2	426604.7	36																																																																														
R14, Low Farm	464211.5	427351.1	35																																																																														
Plant	Location	Noise Level L _{Aeq,T} dB(A)																																																																															
Flue Gas Booster Fans	5 m from equipment	69																																																																															
Carbon Dioxide Compressor Buildings	5 m from building	53																																																																															
Pumps	1 m from each pump	80																																																																															
Combined Power Turbine Buildings	5 m from building	63																																																																															
NV2	Best Practicable Means will be used to minimise the potential for significant effects during construction. The following measures will be implemented for the Proposed Scheme:	6.1.7 - para 7.5.25	Construction	DCO, Schedule 2, Requirement 14	The CEMP will be approved by the LPA.	Main Contractor																																																																											

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	1) The appropriate selection of plant, construction methods and programming: Only plant conforming with, or that is better than, relevant national or international standards and directives will be used; 2) Construction plant will be maintained in good condition with regards to reducing noise output; and 3) Design and use of Site hoardings and screens, where necessary, to provide acoustic screening at the earliest opportunity. Gates to the Site will not be located opposite buildings containing noise sensitive receptors.			(Construction Environmental Management Plan)		
NV3	The following noise monitoring will be carried out for the Proposed Scheme: 1) Noise monitoring during the construction phase, which will be included within the CEMP, at locations representative of sensitive receptors R1, R4 and R13, shown in Figure 7.1 (Baseline Noise Survey and Sensitive Receptor Locations) (APP-089), to demonstrate that the noise levels do not exceed the SOAEL for construction; and 2) Noise monitoring during commissioning within short distance to the main operational post combustion technology, namely, compressors, pumps, pumps and flue gas blowers, to verify the mitigated predicted noise levels shown in Appendix 7.2 (Operational Noise Assessment Assumptions) (APP-131).	6.1.7 - para 7.14.1 6.2.7.1 6.3.7.2	Construction Operation	Noise monitoring secured through DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plant)	Construction noise monitoring records demonstrating the noise levels do not exceed the SOAEL for construction. The CEMP will be approved by the LPA. Noise monitoring during commissioning verifying that noise levels are in accordance with the noise levels shown in NV1 .	Main Contractor The Applicant
Chapter 8 (Ecology)						
E1	Where existing mature vegetation will be avoided and retained, this is identified on the Landscape Mitigation Plan contained within the Outline Landscape and Biodiversity Strategy (OLBS) (APP-180).	6.1.9 - para 9.10.13 (a) 6.6.1	Pre-construction Construction Decommissioning	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) S106 Agreement (outside of Order limits)	Landscape mitigation and planting will occur in line with the LBS to be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
E2	<p>Bats</p> <p>Compensatory habitat will be provided for bats (refer to Outline Landscape and Biodiversity Strategy (APP-180)) and will include:</p> <ol style="list-style-type: none"> 1) Additional trees and hedgerows within the East Construction Laydown Area; 2) Provision of scrub, waterbodies and other suitable habitats for foraging and commuting bats within the Habitat Provision Area; 3) Reinstatement and strengthening of potential bat commuting routes through the local landscape including within the Habitat Provision Area and border habitats within the East Construction Laydown Area; 4) Provision of new woodland, scrub, grassland and hedgerows within the Habitat Provision Area; and 5) A five-metre offset along the eastern hedgerow and southern woodland parcel within the East Construction Laydown Area will protect commuting and foraging habitats within this area. 	<p>6.1.8 - para 8.10.20 - 8.10.21</p> <p>6.6 - Section 3 6.6.1</p>	Construction Operation	<p>DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) (in Order limits)</p> <p>S106 Agreement (outside of Order limits)</p>	<p>Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	<p>Main Contractor</p> <p>The Applicant</p>
E3	<p>Badgers</p> <p>A pre-construction badger survey will be carried out at least seven months in advance of site clearance in areas of potential badger habitat commencing to ensure any new information is obtained. A further survey will be completed one week prior to site clearance commencing. These surveys will reconfirm levels of badger activity in advance of site clearance commencing. This will allow identification of any additional mitigation required, in the unlikely event that levels of activity have increased or locations have changed in the six months prior to site work commencing.</p>	<p>6.1.8 - para 8.10.23</p>	Pre-construction Construction	<p>DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) in respect of surveys</p> <p>DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) in respect of any on-site badger mitigation to be delivered</p> <p>Requirement 7 and S106</p>	<p>Pre-construction badger surveys and site clearance will be carried out under a Precautionary Method of Works (PMoW), secured via a CEMP. The CEMP will be approved by the LPA.</p> <p>Mitigation in line with LBS which will be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	<p>Main Contractor</p>

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
				Agreement (in respect of any badger mitigation outside of Order limits)		
E4	<p>Otters:</p> <p>The following specific mitigation measures for otters will be implemented for the Proposed Scheme:</p> <ol style="list-style-type: none"> 1) Pre-construction surveys to reconfirm the status of otter habitat usage of the Site and surrounding watercourses up to 250 m from the Proposed Scheme; 2) Avoidance of any obstructions to established otter paths and access to open water; 3) The marking of, and adherence to, 30 m exclusion zones around any holts and shelters identified as a result of updated survey prior to site clearance and construction activities occurring. If otters are known or suspected to be breeding, the exclusion zone will be extended to a 200 m radius. However, it could be reduced to 100 m depending on the nature of the works, topography and natural screening. This will require judgement from a suitably qualified ecologist; and 4) If breeding was confirmed and exclusion zones of the size set out above were not possible, works will be undertaken in accordance with a European Protected Species (EPS) Mitigation licence to derogate the legislation protecting otter (except during periods of active breeding). Works that could lead to significance disturbance will not be able to commence prior to a licence being in place. As part of the licence, appropriate compensation will be provided to ensure that alternative habitat is provided in advance of the impact occurring. This would ensure no net loss in available habitat that may be considered to provide functional linkage for the SAC. 	6.1.8 - para 8.10.24 - 8.10.29	Construction	<p>DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) in respect of surveys and the EPS licence. DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) in respect of any on-site otter mitigation to be delivered.</p> <p>Requirement 7 and S106 Agreement in respect of any otter mitigation (outside of Order limits)</p>	<p>The CEMP will be approved by the LPA.</p> <p>EPS licence (if required)</p> <p>Mitigation in line with LBS which will be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	Main Contractor
E5	<p>Breeding and Wintering Birds</p> <p>If carried out during the breeding season, vegetation and site clearance could cause the destruction or damage of active nests and any eggs or live young present. The following measures will therefore be implemented:</p>	6.1.8 - para 8.10.30 - 8.10.35 6.6 - Section 3	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental	Vegetation and site clearance will be carried out under a Precautionary Method of Works	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>1) Vegetation and site clearance will take place between September and February inclusive, i.e. outside the main bird breeding season, wherever practicable. If it is necessary to remove habitats suitable for breeding birds during the nesting season, these will be subject to a pre-clearance check by a suitably qualified ecologist.</p> <p>2) In the event that any active nests are found, clearance works will be halted within a minimum distance of 5 m from the nest. This buffer distance will be varied on the advice of a suitably qualified ecologist and will be dependent on the nature of affected habitats and the species of bird involved. Clearance works will not recommence until any young had fledged and left the nest, with a re-inspection by a suitably qualified ecologist to confirm the absence of active nests.</p>			Management Plan) Requirement 7 and S106 Agreement (in respect of any site clearance outside of Order limits)	(PMoW), secured via a CEMP. The CEMP will be approved by the LPA.	
E6	<p>Breeding and Wintering Birds</p> <p>The proposals for reinstatement, enhancement and compensatory habitat as set out in the Outline Landscape and Biodiversity Strategy will provide replacement habitat for breeding and wintering birds. This will include:</p> <p>1) New woodland planting, hedgerows within the farmland area to the north of the East Construction Laydown Area;</p> <p>2) New and enhanced hedgerows within the Habitat Provision Area and border habitats of the East Construction Laydown Area;</p> <p>3) Provision of scrub within the farmland area to the north of the East Construction Laydown and reinstated farmland habitats within the East Construction Laydown Area;</p> <p>4) Enhancement of field margins around the East Construction Laydown Area;</p> <p>5) Provision of new and enhanced woodland, scrub and species-rich grasslands within the Off-site Habitat Provision Area in Arthur's Wood and Fallow Field.</p>	<p>6.1.8 - para 8.10.32</p> <p>6.6 - Section 3</p>	Construction Operation	<p>DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) (in Order limits)</p> <p>Requirement 7 and S106 Agreement (in respect of any breeding and wintering bird mitigation outside of Order limits)</p>	<p>Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	<p>Main Contractor</p> <p>The Applicant</p>
E7	<p>Reptiles and Amphibians</p> <p>Vegetation clearance in areas that may support reptiles and amphibians will be carried out under a PMoW. The areas to be cleared are shown in Figure 3 of the Outline Landscape and Biodiversity Strategy (APP-180).</p>	<p>6.1.8 - para 8.10.36 and para 8.10.39</p> <p>6.6 - Section 3</p> <p>6.6.3</p>	Construction Operation	<p>DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) for the PMoWDCO, Schedule 2, Requirement 7 (Provision of Landscape and</p>	<p>Vegetation and site clearance will be carried out under a Precautionary Method of Works (PMoW), secured via a CEMP. The CEMP will be approved by the LPA.</p> <p>Landscape mitigation, planting and design will be</p>	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
				Biodiversity Mitigation and Enhancement) for the areas to be cleared in line with the LBS Requirement 7 and S106 Agreement (for site clearance outside of Order limits)	carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	
E8	Reptiles The proposals for reinstatement, enhancement and provision of compensatory habitat as set out in the Outline Landscape and Biodiversity Strategy , will provide replacement habitat for local reptile populations, which will include: <ol style="list-style-type: none"> 1) Enhancement of field margins around the East Construction Laydown Area; 2) Creation of a waterbody, species rich grassland and scrub within the Habitat Provision Area; and 3) Provision of new and enhanced woodland, scrub and species-rich grasslands within the Off-Site Habitat Provision Area. 	6.1.8 - para 8.10.37 6.6 - Section 3.3 6.6.1	Construction Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) Requirement 7 and S106 Agreement (in respect of any reptile mitigation outside of Order limits)	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA. Section 106 will require approval of details of Off-site Provision area and any reporting requirements.	Main Contractor
E9	Great Crested Newts A District Level Licence will be secured to implement strategic mitigation for great crested newts within Selby. This will address the effects of the Proposed Scheme on great crested newt habitats.	6.1.8 - para 8.10.39	Pre-construction	District Level Licence	The District Level Licence already exists. Use of the Licence will be secured through an application to Natural England.	Main Contractor
E10	Terrestrial Invertebrates	6.1.8 - para 8.10.40	Construction	DCO, Schedule 2, Requirement	Landscape mitigation, planting	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>As terrestrial invertebrate habitat in the Woodyard will be lost permanently during the operational phase, the following methods will be used implemented to mitigate impacts on terrestrial invertebrates as set out in the Outline Landscape and Biodiversity Strategy (APP-180).</p> <p>Habitat creation in the Off-Site Habitat Provision Area will include suitable habitat features for a range of terrestrial invertebrate species, including those recorded during the terrestrial invertebrate surveys of the Woodyard.</p> <p>Habitat compensation for terrestrial invertebrates using habitat features from the existing Woodyard will be used to create new habitat within the Order Limits in the Habitat Provision Area and the Off-Site Habitat Provision Area.</p>	6.6 - Section 3 6.6.1	Operation	7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) S106 Agreement (in respect of terrestrial invertebrate mitigation outside of Order limits)	<p>and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA..</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	The Applicant
E11	<p>Vascular Plants</p> <p>Mitigation for the green-winged orchids will include the translocation of individual orchids to a receptor site (provisionally located within Fallow Field in the Off-site Habitat Provision Area). The receptor site will be prepared with translocated soils from the Woodyard. Individual orchids will be carefully removed from the existing site and replanted at the receptor site. The details of the orchid translocation will be included in the LBS.</p>	6.1.8 - para 8.10.42 and 8.10.43 6.6 - para 3.3.33 - 3.3.36	Pre-construction	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) to secure methodology through LBS (in Order limits) S106 Agreement to secure land delivery (outside of Order limits)	<p>Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	The Applicant
E12	An invasive species strategy will be produced and included within the CEMP which will address the risk of spreading invasive non-native species. This will apply to areas where invasive species are recorded.	6.1.8 - para 8.10.45 - 8.10.47 6.6 - para 3.3.38	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
E13	<p>A suitably qualified ecologist will complete a pre-construction / site clearance walkover at least three months ahead of commencement (for relevant work numbers) where there could be an impact on the biodiversity interest of the Site. The aim of this advanced site visit will be to re-assess the ecological baseline conditions and to determine if any additional ecological mitigation is required beyond that specified in the OLBS and the ES. The scope of the walkover will be defined in consultation and with the agreement of the Applicant, North Yorkshire County Council and SDC. The results of the pre-construction walkover will inform the detailed delivery of construction phase ecological mitigation and will consider the following elements:</p> <ol style="list-style-type: none"> 1) Badger activity including new setts; 2) Nesting birds; 3) Invasive non-native species; 4) Trees with features suitable to support protected and notable species; 5) Changes in habitat composition and condition. 	<p>6.1.8 - para 8.10.46</p> <p>6.6 - Section 3.2</p>	Pre-construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) Requirement 7 and S106 Agreement (for site clearance and pre construction walkover outside of Order limits)	<p>The CEMP, which will be informed by the ecology walkover, will be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	The Applicant Main Contractor
E14	<p>The following monitoring surveys will be required to assess the efficacy of mitigation:</p> <ol style="list-style-type: none"> 1) A walkover survey of landscape and habitat creation areas including reinstated, created, and enhanced habitats will be completed in years 1, 3, 5, and 10 following completion of the construction phase. This will assess the success of habitat mitigation measures; 2) Walkover surveys of reinstated, created and enhanced habitats on and off-site to assess suitability for foraging and commuting bats will be completed. In addition bat activity transect surveys will be completed to assess any evident changes in bat populations. Surveys will be completed between May and September in years 3 and 10 following completion of the construction phase; 3) Targeted otter surveys of watercourses and waterbodies within the Order Limits will be completed in years 1 and 3 following completion of construction. The proposed surveys will ascertain if otters are still inhabiting the features where they have been previously recorded. 4) Walkover surveys of reinstated, created and enhanced habitats within on and off-site areas to assess suitability of these for breeding and wintering birds will be completed. Targeted breeding bird surveys of landscape and habitat creation areas will also be completed. These surveys will be completed between April and July in years 3 and 10 following completion of construction; 5) Targeted wintering bird surveys of habitats in the Habitat Provision Area and East Construction Laydown Area will be completed between September and March of years 3 and 10 following completion of construction. These will confirm the distribution and abundance of wintering bird species and identify whether any changes could be linked to changes arising from the Proposed Scheme; 	<p>6.1.8 - para 8.14.2 - 8.14.9</p> <p>6.6 - Section 5</p>	Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) Requirement 7 and S106 Agreement (for monitoring of mitigation measures outside of Order limits)	<p>Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.</p> <p>Section 106 will require approval of details of Off-site Provision area and any reporting requirements.</p>	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>6) Walkover surveys of reinstated, created and enhanced habitats including areas of plug planted and seeded areas to assess suitability and success, will be carried out in years 3 and 10 following completion of construction within the Habitat Provision Area and Off-Site Habitat Provision Areas. Targeted terrestrial invertebrate surveys will be undertaken in years 3 and 10 to ascertain the level of colonisation of each area by terrestrial invertebrates following completion of construction. In particular, surveys will seek to re-establish the presence of the Red Data Book species identified during surveys carried out to date for the Proposed Scheme.</p> <p>7) Targeted surveys to assess the presence of green-winged orchid will be completed within the receptor site within the Off-site Habitat Provision Area. Surveys will be undertaken in years 3 and 10 following completion of construction.</p>					
E15	<p>The 10% net gain for BNG will be achieved through the Bowers Mills Black Brook Habitat and Restoration Project, in collaboration with the Calder and Colne Rivers Trust. This scheme will:</p> <ol style="list-style-type: none"> 1) Remove the right bank retaining wall and re-profile the bank to restore floodplain connectivity 2) Expand the footprint and improve the quality of existing floodplain wetland habitat 3) Divert and improve the field boundary ditch to feed floodplain wetlands 4) Remove a weir to restore sediment flow and habitat connectivity within the river. 	<p>6.1.12 - 12.10.36</p> <p>6.6 - para 1.4.7</p>	Detailed design	S106 Agreement (outside of Order limits)	<p>Demonstration of 10% net gain for biodiversity being achieved for Drax BECCS.</p> <p>Section 106 will deal with the mechanisms for delivering and reporting on the delivery of these works.</p>	The Applicant
E16	<p>As part of Work No.7, the excavated material will remain within this grassland and be suitably sited. This relocated material will form part of habitat creation and enhancement proposals in this area, in the form of an enhanced grassland strip. Upon completion of the works, the FCA will be reinstated as grassland.</p> <p>A planting scheme will be implemented and the creation of naturalistic contours will integrate the proposed FCA with the existing landscape.</p>	PCAR Table 5-2	Construction Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	<p>Main Contractor</p> <p>The Applicant</p>
E17	All natural habitats modified as part of Work No. 8 would be reinstated following construction to their pre-existing condition, these measures will be included within the Outline Landscape and Biodiversity Strategy.	PCAR Table 6-2	Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
				Mitigation and Enhancement)	accordance with the OLBS, to be approved by the LPA.	
E18	Work No. 8 will be carried out in accordance with the recommendations contained on Figure 4 of the Proposed Changes Application Report submitted during Examination (AS-049).	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
Chapter 9 (Landscape and Visual Impact)						
LVIA1	Landscape mitigation planting, for the purpose of visual screening is proposed along the eastern boundary of the East Construction Laydown Area. The existing hedgerow will remain in place and be enhanced along its length, to include the thickening and gapping up of the hedge and the planting of frequent broadleaved tree species. Some older planting stock will be used to provide more immediate screening, alongside younger stock to ensure successful establishment and relatively quick growth. Feathered trees (planted as transplants) will also be used as these will be trimmed back to encourage growth. The intention is to provide additional filtering of views towards the East Construction Laydown for footpath users east of the Drax Power Station Site and for occupiers of nearby residential properties during construction. Measures to achieve this mitigation are provided within the Outline Landscape and Biodiversity Plan (APP-180).	6.1.9 - para 9.10.12 6.6	Detailed Design	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	Main Contractor
LVIA2	The Construction Environmental Management Plan (CEMP) will include the following measures: 1) Fencing will be erected prior to construction activities and will remain in place for the entire construction period; 2) No works (including temporary) will be carried out within the canopy of the spread of existing retained trees; and 3) Where existing vegetation is removed by the construction of the Proposed Scheme, appropriate planting in the form of hedgerows, arable field margins and tree planting will be planted in line with the landscape mitigation design (refer to Landscape Mitigation Plan) in order that the vegetative framework of the landscape is replaced / restored. This planting will be carried out in March to	6.1.9 - 9.10.17 6.6 6.6.1 6.6.2 6.6.3	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) in respect of Part 1. DCO, Schedule 2, Requirement 7 (Provision of Landscape and	The CEMP will be approved by the LPA. Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be	Main Contractor The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	minimise the potential effects of loss and disturbance of FLL on wintering/passage SPA and Ramsar bird species.			Biodiversity Mitigation and Enhancement) in respect of Parts 2 and 3	approved by the LPA.	
LVIA3	The construction programme would be no longer that is reasonably necessary to construct the Proposed Scheme, and as such, would limit the duration of any landscape and visual impacts. Areas required to be cleared to enable the Proposed Scheme to be built will be cleared as close as possible to works commencing and topsoiling, seeding and planting will be undertaken during the next available season after works are complete.	6.1.9 - para 9.10.14	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
LVIA4	To protect soil for landscape planting: 1) Uncontaminated topsoil for re-use will be stored in un-compacted mounds no more than 2 m high and stored separately from subsoil material; 2) Stripped topsoil will be used in areas of similar proposed vegetation type to utilise the existing natural seed bank; and 3) Where necessary subsoil in planting areas will be replaced following construction and appropriately treated, this may include being ripped to reduce compaction (depending on underlying soil type and conditions), before topsoiling and planting. A minimal topsoil depth of 300 mm will be achieved across all planting areas unless otherwise agreed with the landscape architect. Topsoil depth will be reduced to a minimum depth of 100 mm in areas of amenity grassland. Topsoil will not be used for species rich grassland areas.	6.1.9 - para 9.10.16	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
LVIA5	The LBS will set out the landscape mitigation replacement planting beyond the 5-year establishment period (years to 6 to 30). From year 6, monitoring surveys will be undertaken to review the success of the landscape mitigation and identify any areas where mitigation commitments have not been met. The reviews should identify any management works required to ensure the longer-term success of the landscape elements and identify measures or develop proposals to rectify any areas where a commitment is not being met, such as through any replacement planting.	6.1.9 - para 9.14.2 and 9.14.5 6.6	Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
LVIA6	<p>Maintenance inspections will be undertaken (by an appointed landscape architect) on a regular basis during the maintenance period following the completion of the Proposed Scheme, to review the effectiveness of the proposed Landscape Elements in meeting their Environmental Functions as set out within the Outline Landscape and Biodiversity Strategy.</p> <p>Inspection visits will review planting maintenance and establishment as set out within the Outline Landscape and Biodiversity Strategy. During each inspection, records will be made of the standard of work undertaken, general plant health and obvious signs of disease or plant stress. At the autumn inspection the number of plant failures will be recorded, and the extent of replacement planting agreed with the main contractor. Where plants have failed, replacement planting will be carried out in the following planting season.</p>	<p>6.1.9 - para 9.14.3 to 9.14.4</p> <p>6.6</p> <p>6.6.1</p>	Operation	DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	Landscape mitigation, planting and design will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	The Applicant
LVIA7	Landscape mitigation planting in relation to the East Construction Laydown Area will be implemented prior to the commencement of the construction phase. This will occur during tree planting season, which will be between November and March prior to construction commencing.	6.6	Pre-construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
Chapter 10 (Heritage)						
H1	Avoidance through design of known below ground HAs and areas of high potential will be used in the first instance. Any planting in the Habitat Provision Area will avoid the boundary of the Drax Augustinian Priory (NHLE1016857).	<p>6.1.10 - para 10.10.2</p> <p>6.2.10.1</p> <p>6.6</p> <p>6.6.1</p>	Detailed Design	<p>DCO, Schedule 2, Requirement 6 (Detailed Design Approval)</p> <p>DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement) in relation to the planting scheme.</p>	<p>Detailed Design</p> <p>This will be recorded on as built drawings.</p> <p>Planting completed in line with Figure 1: Landscape and Biodiversity Mitigation Plan of the OLBS.</p>	<p>Main Designer</p> <p>The Applicant</p>

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
H2	An Archaeological Clerk of Works (ACoW), who will be responsible for the design and implementation of the archaeological works, will oversee all heritage aspects for the Proposed Scheme. Roles and responsibilities for the ACoW will be included in the CEMP.	6.1.10 - para 10.10.5	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology) DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan).	The CEMP will be approved by the LPA.	Main Contractor The Applicant
H3	An archaeological Watching Brief to an approved archaeological Written Scheme of Investigation (WSI) will be agreed with the Local Planning Authority for any major ground disturbance to ensure that archaeological remains are not removed without record. This will need to be programmed with adequate time for the recording of archaeological remains. Any archaeological work will be undertaken in consultation with the relevant Archaeological Advisor, and in accordance with an archaeological WSI approved by the relevant planning authority outlining the scope and method of investigation, along with the post-excavation reporting and dissemination strategy. The level of archaeological attendance will depend on the nature of the works taking place.	6.1.10 - para 10.10.4 and 10.10.5	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology)	WSI approved by the LPA.	Main Contractor The Applicant
H4	Following consultation on the Watching Brief, it is recognised additional targeted site-based archaeological investigations may be required, the scope and form of which is to be agreed with LPA archaeological officers. Dependant on the results of this investigation, further mitigation may be required.	6.1.10 - para 10.10.7	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology)	WSI approved by the LPA.	Main Contractor The Applicant
H5	If impacts do occur on currently unknown but nationally important Below-Ground HAs (related to Drax Augustinian Priory (1016857)) within the Habitat Provision Area, preservation in-situ will be explored, where practicable.	6.1.10 - para 10.10.9	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology)	WSI approved by the LPA.	Main Contractor The Applicant
H6	The WSI will set out how public benefits will be achieved by means of engagement, participation and / or dissemination, as appropriate, to the scale and circumstances of the work.	6.1.10 - para 10.10.11	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology)	WSI approved by the LPA.	Main Contractor The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
H7	No further mitigation for Historic Assets is recommended for Work No. 8, but this will be agreed with the Local Planning Authority before construction commences.	PCAR Table 6-2	Pre-construction Construction	DCO, Schedule 2, Requirement 13 (Archaeology)	WSI approved by the LPA.	Main Contractor The Applicant
Chapter 11 (Ground Conditions)						
GC1	<p>The CEMP will include the following measures which will be implemented to mitigate risks to human health (site visitors / workers, construction / demolition workers and, third party neighbours), Controlled Waters and GWDTE and agricultural soils:</p> <ol style="list-style-type: none"> 1) This will include the use of hoardings around excavations, construction compounds and laydown and demolition areas. 2) A protocol for managing unexpected ground contamination that may be encountered during construction will be implemented. This will include additional investigations, sampling, risk assessment and remediation to ensure the protection of sensitive receptors; and 3) Construction workers will be required to wear PPE such as gloves and face masks (where appropriate) to prevent dermal contact and inhalation or ingestion. Appropriate site hygiene facilities will be put in place and the presence of contaminants, and the associated risks will be explained to ground workers before they begin work. 	6.1.11 - para 11.10.3	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
GC2	<p>A Soil Handling Management Plan, which will be included in the CEMP, will be produced prior to any enabling or construction works commencing. This will include best practice measures to reduce impacts to soil during handling and will be informed by site-specific soil and climatological data. Appropriate measures in the SHMP will include:</p> <ol style="list-style-type: none"> 1) Site specific soil management considerations which will be informed by the detailed ALC Survey (refer to Appendix 11.2, (APP-158)) and available Post-1988 ALC survey information; 2) The SHMP will demonstrate the sustainable, beneficial soil re-use of potential surplus soil resources; 3) The SHMP will include the principles outlined within the DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites; 4) The SHMP will include the type and volume of each soil type to be handled and stockpiled and the location of soil storage and restoration. These activities will be determined by the nutrient status of the soils and the ALC grade. 5) For areas of temporary development, the SHMP will outline actions for appropriate methods for the stripping, handling and storage of the soils. 	6.1.11 - para 11.10.3	Pre-construction Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	<p>The CEMP will be approved by the LPA.</p> <p>The SHMP, which will form part of the CEMP, will be approved by the LPA, following consultation with Natural England.</p>	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>6) The methods which will be used to restore affected areas to agricultural use after works will be outlined using the ALC survey as a baseline and will aim to return the soil to the same quality as far as practicable to minimise potential loss.</p> <p>7) Land to be restored for agricultural use after construction will require an agreed aftercare plan with the landowner / farmer and aim to return the land to the same agricultural capability as before construction.</p> <p>8) The SHMP will be prepared in consultation with Natural England.</p>					
GC3	<p>A ground investigation will be undertaken prior to the construction phase. This is likely to be led by geotechnical requirements but will include geo-environmental sampling of soil, groundwater, and surface water. The scope of the geo-environmental investigation will be underpinned by the Conceptual Site Model presented in the Preliminary Risk Assessment (Appendix 11.1) (APP-156). The analytical data will be screened for risks to human health and controlled waters and the results used to refine the contaminant linkages identified. The soils will also be analysed for the purposes of waste classification and to determine suitability for re-use.</p> <p>The ground investigation will also confirm preliminary hydrogeological conditions and will obtain information associated with ground aggressivity, including sulphates, sulphides (especially in pyritic ground), water-soluble magnesium and acids (indicators are pH, chloride and nitrate ions). The results will be used to determine an appropriate concrete specification for the design stage.</p> <p>The results of the ground investigation will be interpreted and assessed within a Generic Quantitative Risk Assessment (GQRA) which will be provided for regulatory approval. If the ground investigation identifies contaminant linkages a Remediation Strategy will be produced which will specify protective measures during construction which will be agreed with the regulators prior to implementation. Any remediation undertaken will be validated and a Verification Report produced to provide confidence that it has been undertaken with the agreed strategy. The ground investigation will be undertaken in accordance with the following:</p> <ol style="list-style-type: none"> 1) BS 10175:2011+A2:2017: Investigation of Potentially Contaminated Sites. Code of Practice. British Standards Institute (British Standard, 2017); and 2) Land Contamination Risk Management, Environment Agency (Environment Agency, 2020) 3) The results of the ground investigation will be interpreted and assessed within a Generic Quantitative Risk Assessment (GQRA) which will be provided for regulatory approval. 4) If the ground investigation identifies contaminant linkages a Remediation Strategy will be produced which will specify protective measures during construction which 	<p>6.1.11 - para 11.10.4 - 11.10.11</p> <p>6.3.11.1 (Part 1) - Section 7</p>	Pre-construction	DCO, Schedule 2, Requirement 12 (Ground Conditions)	<p>Ground Investigation specification.</p> <p>Ground Investigation completed in accordance with specification.</p> <p>Generic Quantitative Risk Assessment</p> <p>Remediation Strategy</p> <p>Verification Report</p> <p>Earthworks Specification to be approved by the LPA after consultation with the EA.</p>	The Applicant's Ground Investigation Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>will be agreed with the regulators prior to implementation. The Remediation Strategy will include measures to remove or decommission any below ground services, tanks, structures and / or pipework encountered during construction to ensure that contaminants do not enter the ground and no preferential pathways remain.</p> <p>5) Any remediation undertaken will be validated and reported on within a Verification Report to provide confidence that it has been undertaken with the agreed strategy.</p> <p>6) An Earthworks Specification will be produced that will include protocols for testing and limiting values to ensure that imported materials are suitable for their intended use in terms of their chemical and geotechnical quality.</p>					
Chapter 12 (Water Environment)						
WE1	<p>The Proposed Scheme will include a system of containments to mitigate the potential risk of pollution. These will be designed in accordance with the COSHH / COMAH / HSE guidance / GPP requirements at the detailed design stage. Where the water meets discharge criteria the surface water will be discharged in line with the Drax Power Station discharge consent. If the surface water does not meet consent conditions it will either be transferred to the Carbon Capture Waste Water Treatment Plant for treatment or, if contaminant levels are such that they cannot be treated on site, to a storage tank prior to removal and treatment off site under a waste transfer licence to a suitable licensed wastewater treatment facility.</p> <p>The following areas will include containment measures to collect potentially contaminated surface water runoff:</p> <ol style="list-style-type: none"> 1) Solvent Storage and Make-up System; 2) Chemicals for Carbon Capture Waste Water Treatment Plant; 3) Chemicals for Quench Column; and 4) Chemicals for Absorber Column. <p>These areas will be kerbed or bunded to collect surface water runoff. These will be designed in accordance with the COSHH / COMAH / HSE guidance / GPPs requirements at the detailed design stage. Consideration will be given to any additional requirements to prevent damage to the sensitive infrastructure from the debris during flood events. Discharge valves will be kept closed and water collected would be tested to identify if contaminants are present. Where the water meets discharge criteria the surface water will be discharged in line with the Drax Power Station discharge consent. If the surface water does not meet consent conditions it will either be transferred to the Carbon Capture Waste Water Treatment Plant for treatment or, if contaminant levels are such that they cannot be treated on site, to a storage tank prior to removal and treatment off site under a waste transfer licence to a suitable licensed wastewater treatment facility. The environmental controls to operate these areas will be included in</p>	<p>6.1.12 - para 12.10.3 - 12.10.5</p> <p>6.3.12.3 - para 6.4.3</p> <p>6.1.8 - para 8.10.3</p>	Detailed Design	DCO, Schedule 2, Requirement 10 (Surface Water Drainage) Environmental Permit	<p>This will be recorded on as built drawings</p> <p>Approval of Surface Water Drainage Strategy (SWDS) by LPA in consultation with LLFA, EA and IDBs.</p> <p>Approval under Environmental Permit Regulations (EPR) by the EA as part of permit variation.</p>	Designer

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	the Drax Power Station environmental management system (EMS) certified in accordance with the ISO 14001.					
WE2	Oil Storage for the Flue Gas Booster Fans, CO ₂ compressor and air compressor unit will be designed in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001. All potentially oil contaminated storm water in these areas will be collected into the oil water drain pit and transferred to the existing oily wastewater system.	6.1.12 - para 12.10.6	Detailed Design	DCO, Schedule 2, Requirement 10 (Surface Water Drainage)Environmental Permit	This will be recorded on as built drawings Approval of SWDS by the LPA, in consultation with LLFA, EA and IDBs. Approval under EPR by the EA as part of permit variation.	Designer
WE3	Rich Solvent / Lean Solvent Heat Exchangers will be individually bunded. The bunds will be designed in accordance with the COSHH / COMAH / HSE guidance / GPP requirements at the detailed design stage.	6.1.12 - para 12.10.7	Detailed Design	DCO, Schedule 2, Requirement 10 (Surface Water Drainage) Environmental Permit	Detailed Design This will be recorded on as built drawings. Approval of SWDS by the LPA, in consultation with LLFA, EA and IDBs. Approval under EPR by the EA as part of permit variation.	Designer
WE4	Tanker / chemical unloading bays dependant on risk / impact will either be designed as fully bunded areas or with suitable protection measures to prevent any spillages to Drax Power Station on-site surface water drainage systems. The bunds, if required, will be designed in accordance with the COSHH / COMAH / HSE guidance / GPPs requirements at detailed design stage.	6.1.12 - para 12.10.8	Detailed Design	DCO, Schedule 2, Requirement 10 (Surface Water Drainage) Environmental Permit	This will be recorded on as built drawings Approval of SWDS by the LPA, in consultation with LLFA, EA and IDBs. Approval under EPR by the EA as part of permit variation.	Designer
WE5	Control measures in accordance with the ISO 14001 certified EMS for the Proposed Scheme will be implemented in order to control surface water runoff that could become contaminated by chemicals and oil. These will include, but not be limited to, the following: 1) Daily checks will be carried out to inspect for chemical and oil leakage;	6.1.12 - para 12.10.9 - 12.10.11	Detailed Design Operation	DCO, Schedule 2, Requirement 10 (Surface Water Drainage)Envir	Approval of SWDS by the LPA in consultation with LLFA and IDBs.	The Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	2) Drip trays, or similar, will be installed under pumps to capture any potential leaks; 3) Contaminant trays and / or shrouds will be installed for Plate Heat Exchanger (PHE); and 4) Leakage detection systems will be considered for high risk areas during detailed design. 5) The surface water drainage network for the Proposed Scheme will include oil separators, as required, during detailed design.			onmental Permit	Environmental Permit variation approved by the Environment Agency. Records of updates to operational control procedures, Environment Management System and Drax Management Instructions.	
WE6	As set out in the Existing Drainage Systems and Proposed Surface Water Drainage Strategy (APP-162), the Proposed Scheme will include a new arrangement whereby surface water will be directed to a new sump and pump arrangement which will direct the waters to the Northern Cooling Water Reservoir. The collected runoff will then be utilised as cooling water. Current operations at Drax Power Station use water abstracted from the River Ouse for cooling and surface water is discharged to Carr Dyke and the River Ouse. As set out in the Existing Drainage Systems and Proposed Surface Water Drainage Strategy , the following hierarchy will be followed: 1) Reducing and eliminating additional runoff; 2) Reuse of runoff and harvesting; 3) Discharge into the ground (infiltration); 4) Discharge to a surface water body; 5) Discharge to a public / third-party surface water sewer (e.g. highway drain, or another drainage system); and 6) Discharge to a combined sewer.	6.1.12 - para 12.10.13 6.3.12.3 - para 6.1.3	Detailed Design	DCO, Schedule 2, Requirement 10 (Surface Water Drainage) Environmental Permit	Approval of SWDS by the LPA, in consultation with LLFA, EA and IDBs. Approval under EPR by the EA as part of permit variation.	Designer
WE7	The sensitive equipment (equipment which is required to maintain the operation of the Proposed Scheme and could be adversely impacted by flood waters) within the floodplain will be set a minimum of 800 mm above the design event (FT2) flood levels. For elements located outside of the design and sensitivity floodplains a minimum freeboard of 300mm will be incorporated. Raising the sensitive infrastructure will provide 380mm for the sensitivity scenarios and 250 mm freeboard allowance between the level of the sensitive equipment and the modelled breach flood levels.	6.1.12 - para 12.10.15 6.3.12.1 - para 5.4.2 and 5.4.9 6.1.14 - para 14.10.4	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval) DCO, Schedule 2, Requirement 11 (Flood Risk Mitigation) to comply with	This will be recorded on as built drawings in line with the FRA.	Designer

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	The increase in flood risk will be mitigated by creating additional floodplain (a minimum floodplain area of 880 m ² will be created) through the lowering of ground outside the floodplain on land controlled by the Applicant.			Flood Risk Assessment.		
WE8	<p>To mitigate increased sediment load and reduce impacts as a result of the release of hydrocarbons, oil and hazardous materials, during construction, the following measures will be implemented through a Construction Phase Surface Water Management Plan:</p> <ol style="list-style-type: none"> 1) No activities will take place in Carr Dyke or within 7 m of its open channel or piped section without prior consent from the Selby Area IDB. As this will be secured pursuant to the DCO, no separate Land Drainage consent will be required. This rule also relates to any other ordinary watercourse within the Order Limits; 2) Construction activities including vegetation clearance, earth moving, storage of materials and equipment and plant movement in the vicinity of any surface water features or drainage lines will be minimised. Prior to any works in the vicinity of a drainage line it should be protected from material falling into it, or runoff entering it. The use of one or more of silt fences, cut-off drains, berms and other relevant control measures will be indicated in such circumstances, depending on the topography. Nothing other than clean water should be allowed to enter drainage lines; 3) Land clearance in the vicinity of surface water features will be minimised. If land clearance in the vicinity of surface water features is unavoidable, the features will be protected with, but not limited to, silt traps, silt fences and filter bunds; 4) Temporary cut-off drains will be used uphill and downhill of the working areas (including construction areas and laydown areas) to prevent clean runoff entering and dirty water leaving the working area without appropriate treatment; 5) Cut off ditches, silt fencing or similar measures, will be provided along the perimeter of the Site to capture any runoff from the Site. They will be provided inside of the hoarding so pollution can be captured before it reaches the hoarding; 6) Surface water run-off and excavation dewatering will be captured and settled out prior to water being discharged through the Purge to the River Ouse or to the IDB drains. Runoff from potentially highly contaminated areas will be treated appropriately prior to discharge; 7) All the existing drains and sewers within the Drax Power Station Site will be identified and labelled, and measures such as using straw bales, silt fencing or silt traps will be implemented to prevent polluting substances and increased sediment load from entering them. 8) Appropriate interceptors will be incorporated in the on-site drainage systems; 9) Spill containment equipment will be stored on the Site; 	<p>6.1.12 - para 12.10.24 and 12.10.25</p> <p>6.1.8 - para 8.10.13</p>	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>10) Hazardous substances, oil and fuel will be managed in accordance with the requirements of the Environmental Permit but as a minimum they will not be located within 10 m of water bodies or drainage lines and will be stored in bunded areas holding at least 110% of the container or one quarter of the combined capacity of all containers where there are more than one. Storage and bunded areas will be constructed with impervious floors;</p> <p>11) Refuelling of machinery will be undertaken in bunded areas, which will not be located within 10 m of water bodies or drainage lines;</p> <p>12) All refuelling will be supervised and carried out in a designated area with appropriate cut-off drainage and located away from watercourses and drainage lines;</p> <p>13) In accordance with the Environmental Permit, drip trays will be used for diesel pumps and standing plant will be regularly maintained to prevent leaks;</p> <p>14) Any dewatering will be undertaken and managed in such a way as to prevent an increase in sediment / silt loads in the receiving watercourse / water environment;</p> <p>15) Construction materials, such as cement, will be mixed in designated areas located away from water bodies and drainage lines; and</p> <p>16) Concrete wash out will only take place at designated concrete washout areas.</p>					
WE9	<p>If temporary pumping of water from excavations is required, appropriate consents / permits will be obtained from either the Selby Area IDB or Goole and Airmyn IDB, and / or the Environment Agency as appropriate. If required, the groundwater pumping rate and volume will be confirmed as part of the CEMP and in compliance with the Guidance for Pollution Prevention.</p>	<p>6.1.12 - para 12.10.27</p> <p>Requested by the IDB during discussions at Pre-Examination</p>	Construction	<p>Appropriate consents obtained from the Selby Area IDB or Goole and Airmyn IDB and / or EA.</p> <p>DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan) for groundwater pumping.</p>	<p>Appropriate consents will be obtained from the Selby Area IDB or Goole and Airmyn IDB and / or EA.</p> <p>If required, groundwater pumping rate and volume will be included in the CEMP, which will be approved by the LPA.</p>	Main Contractor in conjunction with the Applicant

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
WE10	<p>The following measures will be implemented to mitigate flood risk:</p> <ol style="list-style-type: none"> 1) No works will be carried out within the Order Limits when there is a risk of breach of the existing flood defences; 2) A Method Statement will be produced as part of the CEMP detailing the procedures for securing the Site and plant equipment for a flood event (breach of the defences), in particular with reference to safe working practises, harmful substances and fuels; and 3) The Main Contractor will sign up to the Environment Agency flood warning service to receive up to date flood information and warnings. 	6.1.12 - para 12.10.29 - 12.10.32	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	Method Statement for procedures to be followed for a flood event included in the CEMP that will be approved by the LPA.	Main Contractor
WE11	The existing discharge (W1) included within the Environmental Permit held by Drax Power Station requires water to be monitored prior to discharge to the River Ouse. The existing monitoring regime will be retained or enhanced as required to ensure permit compliance to account for the existence of the Proposed Scheme. Monitoring will also be carried out prior to discharging water captured on the Drax Power Station Site to River Ouse. These monitoring requirements will be incorporated into the Drax Power Station EMS.	6.1.12 - para 12.14.2 and 12.14.3	Operation	Environmental Permit	<p>Environmental Permit variation approved by the Environment Agency.</p> <p>Records of updates to operational control procedures, Environment Management System and Drax Management Instructions.</p>	The Applicant
WE12	<p>Should any works be required to be undertaken in the vicinity (7m) of the IDB watercourses (open channels) these will be planned and discussed with the IDB in advance to minimise impacts and disruption. A Method Statement will be produced in consultation with the IDB which will include the following:</p> <ol style="list-style-type: none"> 1) A drawing to show the location of the watercourse; 2) Measures to protect the watercourse if works are to be undertaken within 7m of the watercourse; and 3) The operational and emergency access requirements including protocols for site induction arrangements, contact details and out of working hours access arrangements, for any periods when the land is fenced. 	Requested by the IDB during Pre-Examination	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	<p>The CEMP will include a requirement for the Method Statement to be produced in consultation with the IDB.</p> <p>The CEMP will be approved by the LPA.</p> <p>Site Environmental Inspection Reports</p>	Main Contractor
WE13	Dewatering / temporary drainage measures will be halted during a significant flood event should the IDB request it and the Main Contractor will monitor weather conditions / river levels to help restrict these works during adverse weather conditions	Requested by the IDB	Construction	DCO, Schedule 2, Requirement 14	This commitment will be included in the CEMP which will be	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	when the IDB are unlikely to be able to pump waters to the River Ouse which may cause flooding.	during Pre-Examination		(Construction Environmental Management Plan)	approved by the LPA.	
WE14	<p>Prior to any works being undertaken a watercourse pollution prevention plan will be prepared and agreed with the Environment Agency and included in the CEMP. This will enable the contractor and other bodies (e.g. the Environment Agency) to rapidly manage and mitigate a pollution event should one occur during construction or operation of the Proposed Scheme, this will detail:</p> <ol style="list-style-type: none"> 1) The locations, names and references of all watercourses shown in Figure 1, Appendix A of this REAC; 2) Normal flow directions; 3) Key culverts / barriers to flow; 4) Inspection locations; 5) Access points; 6) Locations of pollution prevention measures (e.g. spill kits, silt curtains, silt traps, booms and stop boards) both embedded and reactive; and 7) Outfalls / connections to other watercourses (including the River Ouse); 8) <u>A contingency plan in case of an accident/pollution incident;</u> 9) <u>Demonstration that there are no flows upstream from the Carr Dyke to the watercourses to the north (i.e. that the Landell Pumping Station controls the flow direction); and</u> 10) <u>The Watercourse Pollution Prevention Plan will be reviewed and revised as necessary during construction if environmental conditions change (for example excessive wet weather).</u> 	Requested by the EA during Pre-Examination	Construction and Operation	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	<p>This commitment will be included in the CEMP which will be approved by the LPA.</p> <p>A watercourse pollution prevention plan.</p> <p>Records of updates to operational control procedures, Environment Management System and Drax Management Instructions.</p>	Main Contractor and the Applicant
WE15	Should any ponds or water features be required to be infilled during the construction phase this will be undertaken in such a manner to prevent an increase in silt / sediment loads in the receiving watercourse and with appropriate mitigation in place to prevent the creation of contaminant pathways to the receiving groundwater body and / or increase in groundwater flood risk to the new infrastructure.	Requested by the EA during Pre-Examination	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA.	Main Contractor
WE16	Work No. 7 will be delivered prior to the completion of construction following re-consultation on the details of the Floodplain Compensation Area with the Environment Agency.	PCAR Table 5-2	Detailed Design	DCO, Schedule 2, Requirement	Production of updated FRA	The Applicant / Designer

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
				11 (Flood Risk Mitigation)	Detailed Design This will be recorded on as built drawings	
WE17	As part of Work No 7, the Floodplain Compensation Area will be maintained, as appropriate for the desired species, over the lifetime of the Proposed Scheme to ensure the FCA remains a usable part of the floodplain.	6.3.12.1, rev 02	Operation	DCO, Schedule 2, Requirement 11 (Flood Risk Mitigation) DCO, Schedule 2, Requirement 7 (Provision of Landscape and Biodiversity Mitigation and Enhancement)	Landscape mitigation, planting and maintenance will be carried out in line with the LBS, which will be developed in accordance with the OLBS, to be approved by the LPA.	The Applicant
WE18	For Trenchless Construction works that may be necessary for Work No. 8, the drilling contractors will monitor the drilling fluid pressures and observe for pressure drops. A drilling fluid that is approved to discharge to the water environment will be used.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
WE19	For Work No. 8, construction compounds and new access roads will not be hard surfaced so that runoff is not increased.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
WE20	Where Open Cut Construction is required through a watercourse the following measures will be implemented: 1) Channel and banks will be reinstated to mimic baseline conditions as far as practicable; 2) Where practicable, any habitats that have been removed will be reinstated; 3) Any watercourses interrupted during excavation would be temporarily diverted or serviced with pumps to bypass the excavated section;	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA in consultation with the EA	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
	<p>4) Vegetation reinstatement on open cut crossings would include riparian planting with enhancements to the riparian zone in line with the Outline Landscape and Biodiversity Strategy (OLBS) where practicable;</p> <p>5) Where required and appropriate, bio-textile matting would be used to stabilise the banks of the watercourse whilst vegetation established post construction; and</p> <p>6) A minimal working width would be adopted as far as practicable to minimise the potential impacts of open cut crossings.</p>					
WE21	The southern construction compound of for Work No. 8B will require crossing a minor watercourse, which will be undertaken using a temporary bridge. The bridge will be removed and the landings / ditch restored as required on completion of the works.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
WE22	During any trench excavation works required for Work No. 8, should dewatering be required due to groundwater inflow any water which is pumped out to be discharged to a nearby surface water course will undergo settlement treatment for reducing turbidity prior to being discharged	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
WE23	<p>The contractor shall ensure that any existing land drainage system existent in and around Work No. 8 is not compromised as a result of construction.</p> <p><u>The potential for disruption to off-site field drainage will be assessed prior to the commencement of works by the Main Contractor, in the locations where this will occur, diversions/alternative drainage routes will be constructed prior to the works, to maintain the integrity of the existing field drainage system during construction.</u></p> <p><u>Where applicable, s</u>Such land drainage systems will be maintained during construction and reinstated so far as reasonably practicable to a condition that is as effective as the previous condition <u>upon completion of the works.</u> Any temporary drainage to be installed during the carrying out of Work No. 8 shall maintain the integrity of the existing field drainage system during construction.</p>	<p>PCAR Table 6-2</p> <p><u>Requested by East Riding of Yorkshire Council during Examination</u></p>	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA in consultation with the EA.	Main Contractor.
Chapter 13 (Materials and Waste)						

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
MW1	All suitable earthworks arisings generated (cut) will be reused during construction and are anticipated to comprise approximately 365,850 tonnes of resource, subject to testing.	6.1.13 - para 13.10.2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA. The MMP will be approved by a Qualified Person with a declaration sent to the EA (which will facilitate the reuse of arisings). SWMP (recording reuse of materials on site).	Main Designer Main Contractor
MW2	Where on site re-use of earthworks (or other forms of recovery) cannot be achieved, the arisings will be sent for off-site reuse or to licensed recycling facilities. The materials will be suitably stockpiled temporarily until such a time that it can be usefully deployed. The storage location for these arisings will be determined by the contractor and specified in the CEMP, and in accordance with the Materials Management Plan (MMP). The Materials Management Plan will be developed in accordance with relevant guidance including 'The Definition of Waste: Development Industry Code of Practice' (CL:AIRE), an environmental permit or a relevant exemption.	6.1.13 - para 13.10.3	Pre-construction / Construction / Decommissioning	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The MMP will be approved by a Qualified Person with a declaration sent to the EA. The CEMP will be approved by the LPA.	Main Contractor
MW3	The SWMP will be produced to manage and monitor site waste effectively with the overall objective to reduce waste and potential harm to the environment during construction and will include the following measures: 1) Monitoring and management of scheme performance objectives and targets, including the current target to divert 95% of waste from landfill; 2) The types and volumes of waste reused, recycled and landfilled will be recorded; 3) Where the arisings and waste have been reused, recycled and landfilled, both on and off site will be identified; 4) Waste recovery and disposal facilities that will be used are identified and the details of their permits / licences / exemptions, both on and off site; 5) Waste recovery and disposal contractors that will be used and details of waste carriers' licences are collated; 6) Any waste exemptions that are in place in order to enable waste to be reused; and 7) Waste transfer documentation that captures all waste movements and is accompanied by information required by law.	6.1.13 - para 13.10.8 6.1.15 - para 15.10.2	Construction / Decommissioning	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	SWMP produced and maintained. The CEMP will be approved by the LPA.	Main Contractor

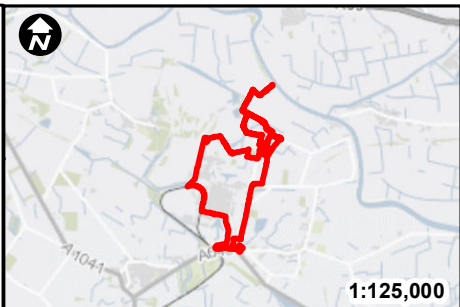
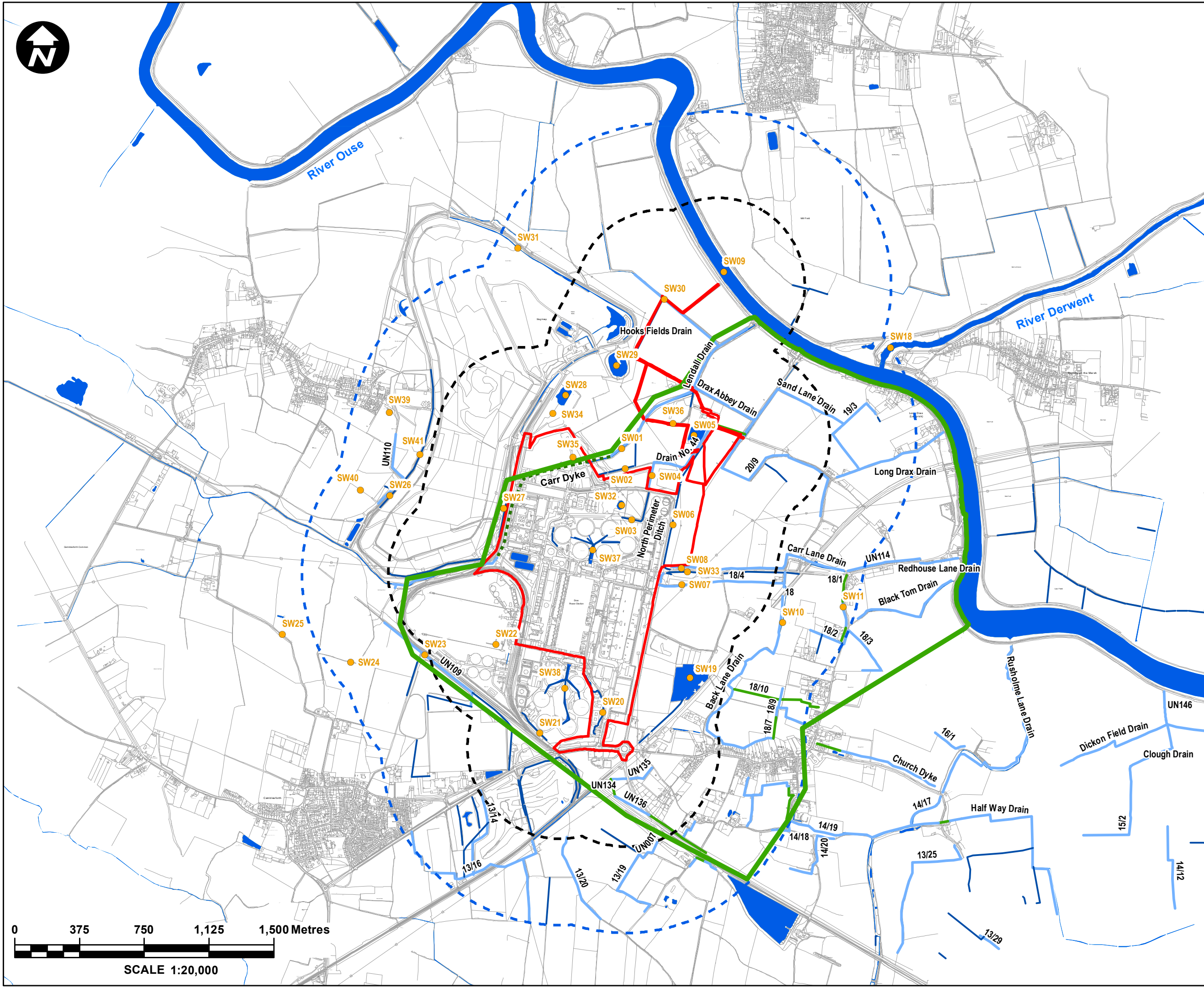
Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
Chapter 14 (Climate Resilience)						
CC1	<p>The following mitigation will be implemented to reduce the potential effects for extreme temperature events:</p> <ol style="list-style-type: none"> 1) The buildings will be designed to accommodate temperatures up to 35 degrees with no risk to health and safety of occupants and components for worst-case scenario temperatures. 2) The design shall be in accordance with the UK Building Regulations and BE EN codes. Where no BS EN code exists the Eurocodes and ISO standards will be adopted; 3) The FEED contractor will consider using heat resistant materials for replacement / refurbishment of pavements. 4) Proactive maintenance to address any defects to be carried out on the Proposed Scheme assets. 	6.1.14 - para 14.10.5	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	<p>Detailed design.</p> <p>This will be recorded on as built drawings.</p> <p>.</p>	Designer
CC2	<p>To reduce the potential effects of wind loading on the Main Stack, the structures will be designed in accordance with UK Building Regulations and BS EN design codes. For structural system design purposes, wind loads will be considered according to the provisions of BS EN 1991-1-4 + NA with the following parameters for the Site:</p> <ol style="list-style-type: none"> 1) $v_{b,0} = 22.7$ m/s (fundamental basic wind velocity) 2) $C_{alt} = 1.01$ (altitude factor) 3) $C_{season} \leq 1.0$ (seasonal factor) 4) $C_{dir} \leq 1.0$ (directional factor) 5) Terrain category: "country terrain" <p>Any changes to UK Regulations and BSI updates to codes will be incorporated into subsequent design phases.</p> <p>Existing structures which are altered / re-purposed as part of the project will be subject to reappraisal to modern wind codes. Any required strengthening to meet the new design life for the project will be carried out as required.</p>	6.1.14 - para 14.10.6	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	<p>Detailed design.</p> <p>This will be recorded on as built drawings.</p>	Designer
Chapter 15 (Climate - Greenhouse Gases)						

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
GHG1	The detailed design will reflect the carbon hierarchy and include feasible measures to reduce embodied carbon as part of the design, as outlined in PAS 2080, where reasonably practicable. This will include potential for re-using or refurbishing existing assets; and use of low carbon solutions (technologies, materials and products) to minimise resource consumption.	6.1.15 - para 15.10.1	Detailed Design	DCO, Schedule 2, Requirement 6 (Detailed Design Approval)	Detailed design. This will be recorded on as built drawings Records demonstrating that the carbon hierarchy has been considered and followed.	Designer The Applicant
GHG2	The following measures will be included in the CEMP: Use of efficient construction processes such as design for manufacture and assembly aligning with the carbon hierarchy outlined in PAS 2080. This will include re-using site arisings; using low carbon solutions (technologies, materials and products) to minimise resource consumption; and using construction techniques that reduce resource consumption.	6.1.15 - para 15.10.2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA which will consider the methods undertaken.	Main Contractor
Chapter 16 (Population, Health and Socio-economics)						
PH1	The Applicant will prepare a local employment scheme, setting out measures to promote opportunities for local suppliers and contractors with the aim of providing opportunities to local people and businesses to benefit from the Proposed Scheme during the construction phase.	6.1.16 - para 16.10.2	Construction	DCO, Schedule 2, Requirement 21	Local Employment Scheme	The Applicant Main Contractor
PH2	The Applicant will prepare a local employment scheme, setting out opportunities for local people to access training opportunities through working in partnership with key local stakeholders.	6.1.16 - para 16.10.2	Construction / Operation	DCO, Schedule 2, Requirement 21	Local Employment Scheme	The Applicant Main Contractor
PH3	There will be on-going liaison with owners and/or operators of agricultural land holdings to coordinate access requirements during the undertaking of Work No. 8.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction Environmental Management Plan)	The CEMP will be approved by the LPA	Main Contractor
PH4	The existing accesses to properties and land that are required to be utilised for Work No. 8 will be maintained or reinstated to their current condition. If any damage is caused to existing accesses arising from the works to carry out Work No. 8, appropriate repairs will be undertaken.	PCAR Table 6-2	Construction	DCO, Schedule 2, Requirement 14 (Construction	The CEMP will be approved by the LPA	Main Contractor

Ref ID	Mitigation measure	Source Ref	Project Stage	Mechanism for Securing Measure	Achievement Criteria and Reporting Requirements	Responsible Organisation
				Environmental Management Plan)		

APPENDICES

APPENDIX A - CEMP WATERCOURSE POLLUTION PREVENTION PLAN



- Key:**
- Order Limits
 - 500 m Buffer
 - 1 km Buffer
 - Main Rivers
 - Waterbodies
 - Surface Water Features
 - Boundary of area covered by CEMP Watercourse Pollution Prevention Plan
 - Ordinary watercourse under the jurisdiction of the Selby Area IDB – culverted section
 - Ordinary watercourse under the jurisdiction of the Selby Area IDB – open channel
 - Carr Dyke - culverted channel under the responsibility of Drax Power Ltd
 - Private / Other Drains

Mapping reproduced by permission of Ordnance Survey on behalf of HMSO.
Contains OS data © Crown Copyright and database right 2021 0100031673
Contains 'Selby Area Internal Drainage Board, Selby District Plan 1' (reference 2008s9221 - Selby AIDB Plan1)



PROJECT TITLE			
DRAX BECCS DCO			
DRAWING TITLE			
CEMP WATERCOURSE POLLUTION PREVENTION PLAN			
DRAWING STATUS			
FOR ISSUE			
DRAWN	CHECKED	APPROVED	AUTHORISED
LH	BS	ES	AS
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		09/11/2022	P01
DRAWING NUMBER			
EN010120-PA-FCA-EC-32			