



Immingham Green Energy Terminal

TR030008

Volume 7

7.2 Schedule of Mitigation and Monitoring (Tracked)

Planning Act 2008

Regulation 5(2)(q)

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

August 2024





Infrastructure Planning

Planning Act 2008

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

Immingham Green Energy Terminal

Development Consent Order 2023

7.2 Schedule of Mitigation

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1 Introduction

Background

- 1.1.1 This document identifies the mitigation measures identified through the Environmental Impact Assessment ("EIA") process and which are reported in the Environmental Statement ("ES") [TR030008/APP/6.2] for the Immingham Green Energy Terminal (the "Project") and indicates how these measures are secured, such that interested parties can be confident in the delivery of these measures. The mitigation measures are presented in a series of tables that include the following columns for each measure and which are explained further below:
 - a. Reference
 - b. Source Document
 - c. Mitigation
 - d. How the mitigation is secured
 - e. Phase of Works
 - f. Is monitoring required?
 - g. Responsible party
 - h. Responsible Regulatory Organisation

Reference

- 1.1.2 Each measure is prefixed with an identifier to indicate its type, as follows:
 - a. Embedded = EMB
 - b. Standard = SRD
 - c. Additional = ADD
- 1.1.3 A further reference is then included to identify the environmental topic it relates to. By way of example, EMB-AQ1 means:
 - EMB = the measure, action or commitment constitutes an embedded mitigation measure.
 - b. AQ = the abbreviation for the topic to which the measure related, in this example <u>Air Quality</u>.
 - c. 1 = the sequential reference number of the measure within the topic.

Source Document

1.1.4 The second column in each table identifies the document in which the mitigation is defined. The sources are the individual ES Chapters [APP-042 to APP-220].

Mitigation

1.1.5 The third column in each table identifies the individual mitigation measures. In some cases, these are summarised, but in all cases, the full measures can be





seen by reference to the source document. The Project design development process has been influenced by the EIA assessment findings and the feedback received during the statutory consultation process. The Project includes a range of measures incorporated into the design which serve to avoid or minimise environmental impacts.

- 1.1.6 The types of mitigation measures are defined in Chapter 5: EIA Approach of the ES [APP-047] and comprise the following:
 - a. Embedded mitigation measures: modifications to the location, design or operation of a development which have been developed to reduce its impacts and are an inherent part of the Project and so do not require additional action to be taken.
 - b. Standard mitigation measures: measures comprising management activities and techniques, which would be implemented during construction of the Project to limit impacts through adherence to good site practice and achieving legal compliance. These measures for the construction phase are set out in the Outline Construction Environmental Management Plan ("CEMP") TR030008/APP/6.5 (8)].
 - c. Additional mitigation measures: these comprise measures over and above any embedded and standard mitigation measures, for which the EIA has identified a requirement to further reduce likely significant environmental effects.

How the Mitigation is Secured

- 1.1.7 The fourth column in each table explains how the mitigation measure is secured. The types of securing mechanism vary, but include:
 - a. A requirement listed in Schedule 2 of the draft Development Consent Order ("DCO") TR030008/APP/2.1 (9)] which can secure the measure itself or secures a plan which has to be prepared, submitted and approved (typically by North East Lincolnshire Council as planning authority ("NELC") at a later date to discharge the listed measures. The CEMP is an example of the latter, where a final CEMP(s) has to be submitted and approved and which must accord with the Outline CEMP TR030008/APP/6.5 (8)]. Each of the requirements can be discharged in respect of part of the Project, for example, so as to allow discharge in relation to a phase or an area of the works.
 - b. A condition attached to the Deemed Marine Licence ("DML") in Schedule 3 of the draft DCO TR030008/APP/2.1 (9)], which is typically used to secure mitigations in the marine environment. The discharge of conditions is typically approved by the Marine Management Organisation ("MMO").
 - c. A further consent, such as an Environmental Permit issued by the Environment Agency. Many of the operational mitigation measures that relate to environmental controls or health and safety for the hydrogen production facility are secured in this manner.
 - Regulatory requirements such as those imposed by the Control of Major Accident Hazards ("COMAH") Regulations 2015. Many of the operational

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- mitigation measures that relate to the safety of the hydrogen production facility are secured in this manner.
- e. An **existing procedure**, applicable to the operational Port of Immingham, which will also apply to this Project. Measures relating to navigation or the protocols of ships whilst at berth are typically secured in this manner.
- 1.1.8 The enforcing authority for the requirements is generally NELC (in consultation with other bodies where applicable), whose jurisdiction extends to the mean low water springs. The enforcing authority for the DML is the MMO, whose jurisdiction extends to mean high water springs. Work No. 1 relates to both jurisdictions and it has been agreed that, so far as the requirements relate to Work No. 1, NELC's approval will be limited to matters above the mean highwater springs (the DML will address matters below the mean high water springs).

Phase of Works

1.1.9 The fifth column in each table identifies the phases of works, these being construction, operation or decommissioning. Some measures are applicable to more than one phase and in some cases, different securing mechanisms are relevant to different phases. These are detailed as relevant.

Is monitoring required?

1.1.10 Where possible an indication is given in the sixth column of the table as to whether monitoring is likely to be required. However, in many cases, the need for monitoring will not be clear until a further document has been prepared or a subsequent consent agreed with a consenting body.

Responsible Party

1.1.11 The seventh column of each table defines the party, the organisation or the individual, within the Project team, including contractors, who would be tasked with delivery of the measures.

Responsible Regulatory Organisation

1.1.12 The eighth column defines the regulatory body relevant to the measure defined. In most cases this is the body with responsibility for the subsequent consent or the discharge of the relevant requirement or condition.

Other relevant Documents

- 1.1.13 This document should be read alongside the following documents:
 - a. Works Plans [AS-057]
 - b. The Draft Development Consent Order TR030008/APP/2.1 (9)], in particular Schedule 2: Requirements and Schedule 3: Deemed Marine Licence
 - c. The ES, figures and appendices [TR030008/APP/6.2–6.9] with particular regard to the Outline CEMP <u>TR030008/APP/6.5 (8)</u>].

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Schedule of Mitigation and Monitoring

Table 1: Air Quality

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Monitoring required? Yes/No/N/A	Responsible party	Responsible Regulatory Organisation
Embedded Mi	itigation						
EMB-AQ1	Chapter 6: Air Quality [APP-048]	The Project has been designed to maintain air quality at sensitive receptors by the location of onsite sources away from air quality sensitive receptors, including the position of the jetty and the docked vessels.	The locations of the onsite emissions sources are restricted within the proposed Order Limits by reference to the definition of the various numbered works, including stacks, within the description of the authorised development contained in Schedule 1 of the draft DCO TR030008/APP/2.1 (9)] and the locations in which those numbered works can provided as shown on the Works Plans [AS-057].	Construction (Dust) Operation (Emissions from ships, operational hydrogen production facility Decommissioning (Dust)	None (see SRD-AQ 1 below for dust monitoring)	N/A	NELC
EMB-AQ2	Chapter 6: Air Quality [APP-048]	The Project will be designed to ensure the safe storage of ammonia and hydrogen including the provision of a leak detection system.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that safe storage is adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	The application for the Environmental Permit will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
EMB-AQ3	Chapter 6: Air Quality [APP-048]	The Project has been designed to include emergency flares which will burn off NH ₃ or hydrogen emissions should the need arise and hydrogen flares will also be used in plant start up and shut down.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that safe flare design and operational protocols are adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	The application for the Environmental Permit will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
EMB-AQ4	Chapter 6: Air Quality [APP-048]	The Project has been designed to achieve suitable dispersion of emissions from the hydrogen production facility.	The locations of the onsite emissions sources are restricted within the proposed Order Limits by reference to the definition of the various numbered works, including stacks, within the description of the authorised development contained in Schedule 1 of the draft DCO TR030008/APP/2.1 (9)] and the locations in which those numbered works can provided as shown on the Works Plans [AS-057].	Operation	The application for the Environmental Permit will define any additional monitoring that may be required for dispersion and once the final design is developed	Air Products	Environment Agency

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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Monitoring required? Yes/No/N/A	Responsible party	Responsible Regulatory Organisation
			The stack heights for the hydrogen production facility are defined by reference to Requirement 4 of the draft DCO TR030008/APP/2.1 (9)] and would be a minimum of 37m above finished ground level to ensure adequate dispersion. A stack height of 30.5m was modelled in the Chapter 6: Air Quality [APP-048] and the modelling demonstrated that no significant effects are likely to arise. Similarly, the assessment concludes that the significance of the effect does not vary if the stack location moves within the relevant work areas shown on the Works Plans [AS-057]. Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that adequate dispersion from the operational stacks is appropriately demonstrated.				
EMB-AQ5	Chapter 6: Air Quality [APP-048]	The Project has been designed to include direct and indirect control measures to mitigate emissions to air and potential impacts at sensitive locations through the enforcement of relevant emission standards for ships servicing the Terminal, including those set by the International Convention for the Prevention of Pollution from Ships (MARPOL) for Marine Vessels with the Humber Estuary being part of the North Sea Emission Control Area for SO _x and NO _x .	The emissions standards for ships using the Port of Immingham are controlled through existing protocols enforced by the Maritime and Coastguard Agency* who have the power to inspect vessels for compliance. [*The Maritime and Coastguard Agency is an executive agency of the United Kingdom that is responsible for implementing British and international maritime law and safety policy. It works to prevent the loss of lives at sea and to prevent marine pollution.]	Operation	N/A	ABP	Maritime and Coastguard Agency
Standard Miti	gation	1		,		1	1
SRD-AQ1	Chapter 6: Air Quality [APP-048]	The Contractor will develop and implement a Dust Management Plan in accordance with the Outline Dust Management Plan included within the Outline CEMP_TR030008/APP/6.5 (8)]. The Plan will adopt a range of industry standard good practice construction phase dust mitigation and monitoring measures, and general control measures, relating to: • Dust management. • General and Project specific construction activities.	Requirement 6 - Construction environmental management plan of the draft DCO [TR030008/APP/2.1 (9)]:	Construction	The Outline CEMP TR030008/APP/6.5 (8)] (Table 3 - Air Quality) states that 'the [Dust Management] Plan will adopt a range of industry standard good practice construction phase dust mitigation and monitoring measures.'	Contractor	NELC

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Deleted: Requirement 6 - Construction environmental management plan of the draft DCO [REP5-004]:¶

Deleted: The Outline CEMP [REP5-017]

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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Monitoring required? Yes/No/N/A	Responsible party	Responsible Regulatory Organisation
		 Community liaison and complaints procedure. 					
SRD-AQ2	Chapter 6: Air Quality [APP-048] Chapter 11: Traffic and Transport [APP- 053]	The Contractor will develop and implement a Construction Traffic Management Plan ("CTMP") in accordance with the Outline CTMP [AS-045] . This plan will reduce emissions of dust from construction activities and combustion emissions from traffic movements.	Requirement 7 - Construction Traffic Management Plan of the draft DCO [TR030008/APP/2.1 (9)].	Construction	The need for monitoring of the measures in the CTMP is set out in the Outline CTMP [AS-045].	Contractor	NELC – Highways Department
SRD-AQ3	Chapter 6: Air Quality [APP-048] Chapter 11: Traffic and Transport [APP- 053]	The Contractor will develop and implement a Construction Worker Travel Plan ("CWTP") in accordance with the Outline CWTP [AS-045]. This plan will support and encourage sustainable travel such as car sharing.	Requirement 7 – Construction Traffic Management Plan of the draft DCO [TR030008/APP/2.1 (9)]. The CWTP is appended to the CTMP.	Construction	The need for monitoring of the measures in the CWTP is set out in the Outline CWTP [AS-045].	Contractor	NELC – Highways Department
SRD-AQ4	Chapter 6: Air Quality [APP-048]	Air Products will implement an Odour Management Plan to mitigate emissions to air during operation.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that an appropriate Odour Management Plan Is in place.	Operation	The Odour Management Plan would set out any required odour monitoring	Air Products	Environment Agency
SRD-AQ5	Chapter 6: Air Quality [APP-048]	To mitigate emissions to air, the Applicant and Air Products will implement best practice measures including, but not limited to, the following measures to take steps to: Prohibit unnecessary vehicle or vessel movements and idling of vehicle and vessel engines; and Encourage/Promote the use of cleaner engines and fuels.	Construction: Requirement 6 - Construction environmental management plan of the draft DCO [TR030008/APP/2.1 (9)]:	Construction	N/A	Construction: Contractor	NELC MMO (for marine aspects of Work No. 1)
SRD-AQ6	Chapter 6: Air Quality [APP-048]	Air Products will implement the requirements as set out within the Environmental Permit.	Environmental Permit: The Environmental Permit from the Environment Agency is expected to be issued with its own conditions, some of which can be assumed to relate to operational emissions to air (see also EMB-AQ2, EMB-AQ3, EMB-AQ4 above) and with its own monitoring requirements	Operation	Yes	Air Products	Environment Agency
Additional Miti	igation		with its own monitoring requirements				

Deleted: Requirement 7 - Construction Traffic Management Plan of the draft DCO [REP5-004].¶

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Deleted: Requirement 6 - Construction environmental management plan of the draft DCO [REP5-004]:¶

No additional mitigation is required for air quality.





Table 2: Noise and Vibration

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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded Mi	tigation							
EMB-NV1	Chapter 7: Noise and Vibration [APP-049]	The Project has been designed, as far as possible, to avoid and minimise noise and vibration impacts and effects by the consideration of noise attenuation in the layout.	The locations of onsite plant and equipment within the proposed Order Limits is restricted within the proposed Order Limits by reference to the definition of the various numbered works within the description of the authorised development contained in Schedule 1 of the draft DCO_TR030008/APP/2.1 (9)] and the	Operation	No	N/A	NELC	Deleted: [REP5-004]
			locations in which those numbered works can provided as shown on the Works Plans [AS-057] .					
EMB-NV2	Chapter 7: Noise and Vibration [APP-049]	Operational Noise For the operational phase, embedded mitigation includes (but is not limited to) items on site that are required for the	Operational Noise Noise during operation would be controlled by: Requirement 17 – Control of noise during operational use of the draft DCO	Operation	Operation The application for the Environmental Permit will define any	ABP Air Products	NELC (discharge of Requirement 17) Environment Agency (application of BAT	
		used for acoustic attenuation. Examples	<u>TR030008/APP/2.1 (9)</u> . This requires		monitoring that may be required for		through the Environmental permit)	Deleted: [REP5-004].
		include concrete fire walls which will provide a level of screening of plant noise from different areas on site, such as from hydrogen production units, liquefier and utility areas.	approval of a scheme for operational noise management for Work No. 3, Work No. 5 and Work No. 7 Environmental Permit The Environmental Permit will be granted only		operational noise.			
		The noise assessment undertaken in Chapter 7: Noise and Vibration [APP-	once the Environment Agency is confident that					Deleted: [
		odes of lamingham would be no worse than that assessed in the layer and the noise step of lamingham would be no worse than that assessed in the noise of lamingham would be no worse than that assessed in the Es.	appropriate operational plant has been selected to achieve BAT to minimise noise to the required levels.					Deleted: .]
EMD NV2	Chanter 7: Noise	Air Products will select appropriate plant,	As for EMP NI/2 above as relevant to ansatis-	Operation	The application for	Air Droducto	Environment Agency	(3-3-3-3-1)
EMB-NV3	Chapter 7: Noise and Vibration [APP-049]	building cladding, louvres and silences/attenuators for the operation of the hydrogen production facility.	As for EMB-NV2 above as relevant to operation	Operation	The application for the Environmental Permit will define any monitoring that may be required for operational noise.	Air Products	Environment Agency NELC (discharge of Requirement 17)	

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2

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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Standard Mitig	gation		1			T		
SRD-NV1	Chapter 7: Noise and Vibration [APP-049]	The Contractor will develop the measures included in the Outline CEMP [TR030008/APP/6.5 (8)]. These measures, which are defined more fully in the Outline CEMP, will include, but are not limited to, the following: • All pneumatic percussive tools will be provided with effective silencers/acoustic covers; • Acoustic shrouds are to be fitted to all terrestrial driven piling rigs; • Hydraulic techniques for breaking ground to be used where practical, instead of percussive techniques; • All plant and equipment being used for the works to be maintained, silenced where appropriate, operated to prevent excessive noise and vibration and switched off when not in use; and • Noisiest items of plant to be located the furthest distance from the nearly Noise Sensitive Receptors("NSRs"),	Noise during construction would be controlled by adherence to the construction working hours and the measures defined in the CEMP, as secured by: Requirement 9 - Construction hours and Requirement 6 Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)].	Construction	No	Contractor	NELC V	Deleted: The Contractor will develop the measures included in the Outline CEMP [REP5-017]. Deleted: MMO (for marine aspects of Work No. 1) Deleted: Requirement 6 Construction Environmental Management Plan of the draft DCO [REP5-004].
SRD-NV2	Chapter 7: Noise and Vibration [APP-049]	where practicable. The Contractor will undertake regular communication with the local community and will publicise the works schedule, give advance notification to residents regarding the period of higher levels of noise and vibration and lines of communication where complaints can be addressed.	Requirement 6 Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]. Table 3.2 of the Outline CEMP states that 'Mitigation to be included in the Final CEMP will include but not be limited to: u) Provision of information to NELC and local residents to advise of potential noisy works that are due to take place; and v) Monitoring of noise and vibration complaints and reporting to the contractor for immediate investigation.'	Construction	No	Contractor	NELC MMO (for marine aspects of Work No. 1)	Deleted: Requirement 6 Construction Environmental Management Plan of the draft DCO [REP5-004].
SRD-NV3	Chapter 7: Noise and Vibration [APP-049]	The Project will comply with the terms of Requirement 9 as to working hours during construction.	Requirement 9 - Construction hours of the draft DCO [TR030008/APP/2.1 (9)].	Construction	No	Contractor	NELC	Deleted: Requirement 9 - Construction hours of the draft DCO [REP5-004]. Deleted: MMO (for marine aspects of Work No. 1)





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
SRD-NV4	Chapter 7: Noise and Vibration [APP-049] Chapter 11: Traffic and Transport [APP-053] Chapter 6: Air Quality [APP-048]	The Contractor will develop and implement a CTMP in accordance with the Outline CTMP [AS-045] . This plan is intended to help manage traffic movements and therefore the associated noise levels	Requirement 7 - Construction Traffic Management Plan of the draft DCO [TR030008/APP/2.1 (9)]:	Construction	The need for to monitoring of the measures in the CTMP is set out in the Outline CTMP [AS-045].	Contractor	NELC – Highways Department	Deleted: Requirement 7 - Construction Traffic Managemer Plan of the draft DCO [REP5-004]:
SRD-NV5	Chapter 7: Noise and Vibration [APP-049]	The Project will be operated in accordance with an Environmental Permit. Noise from the hydrogen production facility will be controlled through the use of Best Available Techniques.	Requirement 17 – Control of noise during operational use of the draft DCO [TR030008/APP/2.1 (9)]. This requires approval of a scheme for operational noise management for Work No. 3, Work No. 5 and Work No. 7. Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that appropriate operational plant has been selected to achieve BAT to minimise noise to the required levels.	Operation	The application for the Environmental Permit will define any monitoring that may be required for operational noise.		NELC (in relation to Requirement 17) Environment Agency (Environmental Permit)	Deleted: Requirement 17 – Control of noise during operational use of the draft DCO [REP5-004].
Additional Mit	tigation	1	,		1	1		
ADD-NV1	Chapter 7: Noise and Vibration [APP-	Construction Noise	Construction Noise:	Construction	To be determined; this would be defined	Contractor	NELC	
	049]	Standard impact avoidance construction noise and vibration mitigation measures. Additional specific measures where possible during site clearance works on Saturday afternoons, e.g. use of noise-control equipment such as jackets on pneumatic drills, acoustic covers on compressors, shrouds on and cranes, temporary acoustic barriers and screens.	Noise during construction would be controlled by adherence to the construction working hours and the measures defined in the CEMP, as secured by: Requirement 9 - Construction hours and Requirement 6 Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]. See also SRD-NV1 above.		through any monitoring deemed necessary in the Final CEMP(s)		•	Deleted: MMO for marine aspects¶ Deleted: Requirement 6 Construction Environmental Management Plan of the draft DCO [REP5-004]. ¶
ADD-NV2	Chapter 7: Noise and Vibration [APP-049]	Mitigation measures will be implemented to achieve operational daytime and night-time LOAEL criterion of a rating level no greater than +5 dB above the defined representative background sound level at each Noise Sensitive Receptor. These measures include but are not limited to: Reducing Flare Stack outlet noise emissions by the addition of	Requirement 17 - Control of noise during operational use of the draft DCO [TR030008/APP/2.1 (9)].	Operation	No	Contractor	NELC	Deleted: Requirement 17 - Control of noise during operational use of the draft DCO [REP5-004].





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works	Is monitoring	Responsible	Responsible
				Construction, Operation and/or Decommissioning	required? Yes/No/N/A Form of Monitoring	party	Regulatory Organisation
		silencers or sound proofing panels; Screening or enclosing the compressors or other equipment; and Reducing the breakout noise from plant through the use of enhanced enclosures					
ADD-NV3	Chapter 7: Noise and Vibration [APP-049]	Additional specific measures will be implemented to achieve operational daytime (weekend) LOAEL criterion of a rating level no greater than +5dB above the defined representative background sound level at each Noise Sensitive Receptor (if NSRs 1 or 2 remain in residential use at the relevant time). These measures include but are not limited to: No driven piling activities are to be undertaken on Saturday afternoons (between 13:00–19:00) in Work No. 7 near to NSRs 1 and 2 (if NSRs 1 or 2 remain in residential use at the relevant time).	Noise during construction would be controlled by adherence to the construction working hours and the measures defined in the CEMP, as secured by: • Requirement 9 – Construction hours; and • Requirement 6 Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)].	Construction	To be determined; this would be defined through any monitoring deemed necessary in the Final CEMP(s)	Contractor	NELC
ADD-NV4	Chapter 7: Noise and Vibration [APP-049]	Additional specific measures will be implemented to adhere to vibration limit of 0.9mm/s at properties on Queens Road during driven piling on Work No. 7 (if NSRs 1 or 2 remain in residential use at the relevant time). These measures include but are not limited to: • Use of a driven piling exclusion zone: assuming that a driven piling rig (with the assessed nominal hammer energy of 110,000J) is required for the works, driven piling would not take place at distances of less than 215m from relevant residential receptors on Queens Road (NSRs 1 and 2) (in residential use); • Use of a driven piling rig with a lower nominal hammer energy	Vibration during construction would be controlled by adherence to the construction working hours and the measures defined in the CEMP, as secured by: • Requirement 9 – Construction hours; and • Requirement 6 Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)].	Construction	To be determined; this would be defined through any monitoring deemed necessary in the Final CEMP(s)	Contractor	NELC

Deleted: <#>Requirement 6 Construction Environmental Management Plan of the draft DCO [REP5-004]. ¶

Deleted: <#>Requirement 6 Construction Environmental Management Plan of the draft DCO [REP5-004]. ¶





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		value than 110,000J: a piling rig with a low hammer energy value of 1,500J would allow driven piling to occur beyond a distance of approximately 45m from the residential receptors on Queens Road; and					
		Use of low vibration CFA/rotary bored/cast <i>in situ</i> piling methods: this method will be used in closer proximity to the residential receptors, if the above mitigation options preclude the use of driven piling (i.e. the vibration limit at residential NSRs on Queens Road (which remain in residential use) cannot otherwise be achieved).					





Table 3: Nature conservation (Terrestrial Ecology)

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded Mi	tigation							
EMB-NC1	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	The Project has been designed, as far as possible, to avoid and minimise impacts and effects to terrestrial ecology.	The location of the Project is restricted within the proposed Order Limits by reference to the definition of the various numbered works within the description of the authorised development contained in Schedule 1 of the draft DCO [TR030008/APP/2.1 (9)] and the locations in	Construction Operation Decommissioning	N/A	N/A	NELC	Deleted: [REP5-004]
			which those numbered works can provided as shown on the Works Plans [AS-057] .					
EMB-NC2	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	The total area of land within the Site Boundary has been limited to that required to construct, operate and maintain the Project.	The location of the Project is restricted within the proposed Order Limits by reference to the definition of the various numbered works within the description of the authorised development contained in Schedule 1 of the draft DCO	Construction Operation Decommissioning	N/A	N/A	NELC	
			TR030008/APP/2.1 (9) and the locations in which those numbered works can provided as shown on the Works Plans [AS-057].					Deleted: [REP5-004]
EMB-NC3	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	Impacts on woodland within Long Strip have been minimised as far as possible in the design of Work No. 1 and Work No. 2 (the jetty access road, pipe-rack and associated buildings and plant).	The location of the Work No.1 and Work No.2 which is the part of the Project which requires the loss of woodland from the Long Strip TPO woodland is limited by the definition of these works, within the description of the authorised development contained in Schedule 1 of the	Construction	N/A	Contractor ABP	N/A	
			draft DCO TR030008/APP/2.1 (9) and with the locations defined in the Works Plans AS-057.					Deleted: [REP5-004]
			The extent to which trees can be removed from the Long Strip is also limited to that shown on Plan of Potentially Affected Hedgerows and Trees Subject to Preservation Orders [AS-					
			<u>064</u>]. This mitigation is further secured by Article 54 of the draft DCO [TR030008/APP/2.1 (9)].					Deleted: This mitigation is further secured by Article 54 of the draft DCO [REP5-004].
EMB-NC4	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	The Project seeks to minimise lighting impacts beyond the Site Boundary by directing lighting away from adjacent habitats.	Construction: Requirement 6 - Construction Environmental Management Plan of the draft DCO	Construction Operation	N/A	Construction Contractor Operation:	NELC	
	[TR030008/APP/2.1 (9)]. (The Outline CEMP states that 'Construction temporary lighting will be arranged so that glare is minimised outside the construction site. Lighting will be designed so as not to cause a			ABP Air Products		Deleted: [REP5-004].





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
			nuisance outside of the Site in relation to views from residential receptors or light disturbance to ecological receptors.') Operation: Requirement 16 – External lighting of the draft DCO [TR030008/APP/2.1 (9)]				
EMB-NC5	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	The Project's operational design seeks to attenuate surface water discharges to green field run off rates as set out in the Drainage Strategy [APP-210] .	Requirement 12 – Surface water drainage of the draft DCO [TR030008/APP/2.1 (9)]	Operation	N/A	Contractor	North-east Lindsey Drainage Board NELC (as Lead Local Flood Authority)
EMB-NC6	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	Mitigation for protected species will be adhered to in accordance with the appropriate licence requirements [APP-050]	Natural England European Protected Species Licence (for any relevant species)	Construction	Yes (as set out in the conditions of the relevant licence)	Contractor (and their Ecological Clerk of Works)	Natural England
Standard Miti	igation						
SRD-NC1	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	 The Contractor will prepare a CEMP setting out mitigation measures included in the Outline CEMP [TR030008/APP/6.5 (8)] which will include, but not be limited to the following: Presence of an Environmental or Ecological Clerk of Works ("ECoW") as appropriate during construction. Precautionary working methods would be adopted to manage any residual risk of protected species being encountered e.g. reptiles and badger, and a Precautionary Working Method Statement ("PWMS") will be prepared as part of the CEMP. Precautionary measures will be implemented to prevent trapping wildlife in construction excavations, in order to ensure compliance with animal welfare legislation. Construction temporary lighting will be arranged so that glare would be minimised outside the construction site. 	Requirement 6 – Construction environmental management plan of the draft DCO [TR030008/APP/2.1 (9)]	Construction	Yes	Contractor	NELC Natural England (so far as any PWMS as specified left)

Deleted: Requirement 16 – External lighting of the draft DCO [REP5-004]

Deleted: Requirement 12 – Surface water drainage of the draft DCO [REP5-004]

Deleted: The Contractor will prepare a CEMP setting out mitigation measures included in the **Outline CEMP** [REP5-017] which will include, but not be limited to the following:

Deleted: Requirement 6 – Construction environmental management plan of the draft DCO [REP5-004]¶





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
SRD-NC2	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	Mitigation for impacts to bat roosts will be completed in accordance with a Natural England European Protected Species ("EPS") Mitigation Licence	Natural England European Protected Species Licence	Construction	TBC (As defined by the conditions of the licence)	Contractor (and their Ecological Clerk of Works)	Natural England
SRD-NC3	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050]	Vegetation clearance, which is confirmed to support water voles, would be undertaken under the supervision of a Water Vole Class Licensed ecologist with appropriate seasonal timing of works.	Natural England European Protected Species Licence	Construction	TBC (As defined by the conditions of the licence)	Contractor (and their Ecological Clerk of Works)	Natural England
SRD-NC4	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050] Chapter 13: Landscape and Visual Impact [APP-055]	The Contractor will prepare details of landscape and ecology enhancements for the operational layout based on the Outline Landscape and Ecology Management Plan ("LEMP") [REP4-012].	Requirement 10 – Landscape and ecology management plan of the draft DCO [TR030008/APP/2.1 (9)]	Operation	Yes The Outline LEMP [REP4-012] includes a Section on monitoring which states that 'Monitoring is required in order to determine that the functions documented within this Outline LEMP are being achieved and whether any remedial management action may be required.'	Air Products ABP	NELC

Deleted: Requirement 10 – Landscape and ecology management plan of the draft DCO [REP5-004]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation and/or Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Additional Mit	igation						
ADD-NC1	Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050] Chapter 13: Landscape and Visual [APP-055] Chapter 10: Ornithology [APP-052]	Compensation measures for the loss of woodland within the Long Strip Woodland include: • Off-site woodland creation and management within a specified location • Enhancement of retained parts of the Long Strip TPO woodland north of Laporte Road. 1. Agreement of a woodland compensation plan with the local planning authority.	Requirement 11 – woodland compensation plan of the draft DCO [TR030008/APP/2.1 (9)] states that the Applicant must comply with the approved Woodland Compensation Plan which is intended to be a certified document in Schedule 15 of the DCO.	Operation	Yes Monitoring of the establishment of the woodland planting is defined in the Woodland Compensation Plan	ABP	NELC

Deleted: Requirement 11 – woodland compensation plan of the draft DCO [REP5-004]





Table 4: Nature Conservation (Marine Ecology)

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Embedded Mi	itigation						
EMB-ME1	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	The Project has been designed to reduce the footprint of direct and indirect habitat loss by the reduction to the Site Boundary, the number and layout of the piles and the alignment of the jetty. A marine compliance manager will be in place and will have overarching responsibility for year-round compliance with the programme of marine environmental mitigation.	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO [TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The number and layout of the piles are further controlled by a series of parameters which are defined for Work No. 1a in the Outline CEMP [TR030008/APP/6.5 (8)] and secured by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO [TR030008/APP/2.1 (9)], requiring delivery of the Project in accordance with a detailed CEMP approved by the MMO. The use of a marine compliance manager is outlined within the Outline CEMP [TR030008/APP/6.5 (8)] and secured by conditions 8 and 15 of the draft Deemed Marine Licence requiring delivery of the Project in accordance with a detailed CEMP approved by the MMO.	Operation	N/A	N/A	ММО
EMB-ME2	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	The Project seeks to minimise lighting impacts beyond the Site Boundary by directing lighting away from adjacent habitats.	Construction: Conditions 8 and 15 on draft deemed marine licence requiring delivery of development in accordance with a final CEMP. (The Outline CEMP TR030008/APP/6.5 (8)] states that "The jetty/pier decking will be designed to avoid any unnecessary light-spill on the water to avoid disruption or blocking of migratory routes for fish.")	Construction Operation	N/A	Construction: Contractor Operation: ABP Air Products	MMO
Standard Mitig	gation						
SRD-ME1	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	The Contractor will develop and implement a Construction Environmental Management Plan based on the Outline CEMP [TR030008/APP/6.5 (8)] which will include, but not be limited to the following:	Secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO ITR030008/APP/2.1 (9)]. (The Outline CEMP [TR030008/APP/6.5 (8)] identifies a requirement to specify biosecurity	Construction	N/A	Marine Contractor	MMO

Deleted: [REP5-004]

Deleted: 1a in the Outline CEMP [REP5-017] and secured by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO [REP5-004],

Deleted: [REP5-017]

Deleted: [REP5-017]

Deleted: The Contractor will develop and implement a Construction Environmental Management Plan based on the **Outline CEMP** [REP5-017] which will include, but not be limited to the following:¶

Deleted: [REP5-004].

Deleted: (The Outline CEMP [REP5-017] identifies a requirement to specify biosecurity measures in the final CEMP(s). See also SRD-ME3 below)





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
		 Biosecurity management procedures; and Relevant legislation and best practice guidance. 	measures in the final CEMP(s). See also SRD-ME3 below)					
SRD-ME2	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	The Contractor will dispose of capital dredge arisings evenly by targeting disposal loads in the central/deeper area of the disposal sites to reduce depth reductions. This will minimise the initial reduction in water depth and any environmental changes at the disposal sites. Maintenance dredge arisings (if any) will be disposed of at HU060.	Capital dredge arisings would be disposed of at existing licenced disposal sites [HU056, HU060] as secured to the Deemed Marine Licence. Maintenance dredge arisings would be disposed of under an existing marine licence or any subsequent variation or successor.	Construction Operation	N/A	Construction: Marine Contractor Operation: ABP	ММО	
SRD-ME3	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	Biosecurity control measures will be followed during construction, and the Applicant's existing biosecurity management procedures will be followed during operation.	Construction: Secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction Operation	N/A	Construction: Marine Contractor Operation: ABP	ММО	Delete
			Table 6 of the Outline CEMP [TR030008/APP/6.5 (8)] includes commitments to ensuing biosecurity during construction. Operation: The existing biosecurity measures applicable to the Port of Immingham would also be applicable to the new Terminal.					Delete
Additional Mit	igation						1	
ADD-ME1	Chapter 9: Nature Conservation (Marine Ecology) [APP-051]	To reduce the level of impact associated with underwater noise and vibration on fish and marine mammals during construction, the Contractor will implement the following measures during marine piling:	Secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. activities to be undertaken in accordance with a detailed CEMP as approved by the MMO.	Construction	N/A	Marine Contractor	ММО	Delete
		Soft start Gradual increase of piling power incrementally until full operational power is achieved.	Marine piling restrictions secured by condition 16 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].					Delete
		Vibro marine piling						

Deleted: [REP5-004].

Deleted: Table 6 of the **Outline CEMP** [REP5-017] includes commitments to ensuing biosecurity during construction.¶

Deleted: [REP5-004],

Deleted: [REP5-004].





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
		Use of vibro marine piling where possible. Seasonal restrictions No marine piling to take place within the	Table 6 of the Outline CEMP [TR030008/APP/6.5 (8)] provides greater detail on the measures summarised to the left.					
		waterbody between 1 April and 31 May inclusive in any calendar year. Duration of percussive marine piling restricted within the waterbody from 1 June to 30 June and 1 August to 31 October. The maximum amount of percussive marine piling permitted within any 24-hour period must not exceed 270 minutes, with an agreed contingency period (see below). Piling Contingency Period						
		Where percussive piling is paused, the recommencement of such percussive piling may take place for a contingency period of up to a total of 60 minutes within any 24-hour period in addition to the otherwise maximum amount of percussive piling permitted within any 24-hour period.						
		Night time marine piling restrictions During periods 1 March to 31 March, 1 June to 30 June and 1 August to 31 October piling will be restricted at night. Specifically, no piling will be undertaken from 7 pm to 7 am in March, September and October and between sunset and sunrise in June and August.						
		Use of a marine mammal observer Marine mammal observer to undertake visual searches within a defined mitigation zone.						
		Cumulative Seasonal Piling Restrictions Where piling operations for Immingham Eastern Ro-Ro Terminal and the Project are occurring at the same time, a combined percussive piling restriction is proposed for the Project.						

Deleted: Table 6 of the **Outline CEMP [REP5-017]** provides greater detail on the measures summarised to the left.

Moved (insertion) [1]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		For the period 1 June to 30 June and 1 August to 31 October (inclusive), the maximum duration of percussive piling (to include any contingency periods) permitted within any four-week period is a total of 196 hours where any percussive pile drivers for either one or both projects are in operation (where percussive piling is occurring simultaneously across the two projects, these respective time periods will not be double counted). Piling reporting protocol					
		All marine piling operations will comply with a piling reporting protocol agreed with the MMO and secured under condition 15 of the draft Deemed Marine Licence.					

Moved up [1]: Piling Contingency Period¶
Where percussive piling is paused, the recommencement of such percussive piling may take place for a contingency period of up to a total of 60 minutes within any 24-hour period in addition to the otherwise maximum amount of percussive piling permitted within any 24-hour period. ¶





Table 5: Ornithology

Table 5: Orn	itilology								
Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible Party	Responsible Regulatory Organisation		
Embedded M	litigation								
EMB-O1	Chapter 10: Ornithology [APP- 052]	The Project has been designed to reduce the footprint of direct and indirect habitat loss by the reduction to the Site	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1	Construction Operation	N/A	N/A	NELC MMO		
		Boundary, the number and layout of the piles and the alignment of the jetty. An ECoW will be implemented during the overwintering period (October to March) to ensure the cold weather strategy and	of the draft DCO TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The number and layout of the piles are further controlled by a series of parameters which are	Decommissioning				Deleted: [REP5-004]	
		seasonal restrictions for birds are adhered to.	defined for Work No. 1a in the Outline CEMP [TR030008/APP/6.5 (8)] and secured by conditions 8 and 15 of the draft Deemed Marine Licence requiring delivery of the Project in accordance with a detailed CEMP approved by the MMO. The use of an ECoW is described within the					Deleted: 1a in the Outline C	EMP [REP5-017]
			Outline CEMP TR030008/APP/6.5 (8)] and secured by conditions 8 and 15 of the draft Deemed Marine Licence requiring delivery of the Project in accordance with a detailed CEMP approved by the MMO.					Deleted: [REP5-017]	
Standard Mit	igation								
SRD-01	Chapter 10: Ornithology [APP- 052]	Vegetation clearance will be undertaken outside of the nesting bird season where possible, and clearance works will be	Requirement 6 – Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]	Construction	No	Contractor Ecological Clerk of Works	Natural England	Deleted: [REP5-004]	
		avoided in the period March to August inclusive. Where this is not possible, pre-clearance checks of vegetation would be undertaken by an ecologist to identify any nesting species. If occupied nests are identified, an appropriate buffer zone (at least 2m) would be established around the nest to ensure it is protected from damage/ destruction during construction. No clearance of vegetation within the buffer zone would be undertaken until any young had fledged and the nest was confirmed to be unoccupied.	Table 7 Ornithology of the Outline CEMP ITR030008/APP/6.5 (8) includes the wording provided left.			Works		Deleted: [REP5-017]	

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Reference Additional Mi	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible Party	Responsible Regulatory Organisation	
ADD-01	Chapter 10: Ornithology [APP- 052]	To reduce the level of impact from noise and visual disturbance, the Contractor will implement measures including, but not	Secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO	Construction	No	Marine Contractor	ММО	
		 Imited to, the following: A restriction on marine construction in winter between 1 October and 31 March until an acoustic barrier/visual screen has been installed on both sides of the approach jetty; Use of a noise suppression system during all percussive piling activities associated with the approach jetty; Acoustic barriers / visual screening placed on the side of the approach jetty during construction; Using soft starts to allow birds to become more tolerant to piling noise; and A restriction on construction during cold weather when coastal waterbirds are particularly vulnerable. 	TR030008/APP/2.1 (9)], activities to be undertaken in accordance with a detailed CEMP as approved by the MMO. Table 7 Ornithology of the Outline CEMP TR030008/APP/6.5 (8)] includes the measures which are summarised to the left and conditions to limit noise and visual disturbance to birds are secured by condition 16 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].					Deleted: [REP5-004], Deleted: [REP5-017] Deleted: [REP5-004].
ADD-O2	Chapter 10: Ornithology [APP-052] Chapter 8: Nature Conservation (Terrestrial) [APP-050] Chapter 13: Landscape and Visual Impact [APP-055]	Compensation measures for the loss of woodland within the Long Strip Woodland include: • Off-site woodland creation and management within a specified location • Enhancement of retained parts of the Long Strip TPO woodland north of Laporte Road. • Agreement of a woodland compensation plan with the local planning authority.	Offsite woodland compensation: Requirement 11 – Offsite woodland compensation of the draft DCO TR030008/APP/2.1 (9)] states that the Applicant must comply with the approved Woodland Compensation Plan which is intended to be a certified document in Schedule 15 of the DCO.	Operation	Yes Monitoring of the establishment of the woodland planting is defined in the Woodland Compensation Plan	ABP	NELC – Tree Officer	Deleted: [REP5-004]





Table 6: Traffic and Transport

								7
Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded M	itigation							
EMB-TT1	Chapter 11: Traffic and Transport [APP-053]	The Project construction phase has been designed to minimise waste and materials as far as is possible in order to minimise the need for traffic trips to the Site. The construction of the marine elements and large pre-assembled parts of the hydrogen production facility of the Project will be brought in by ship to the Port of Immingham.	Requirement 6 – Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]: Table 3.6 of the Outline CEMP includes the following commitment: 'Where practicable, the Project would use modularisation to reduce onsite works and maximise the works completed in specialised fabrication facilities off-site. This would require the use of delivery by sea to the Port of Immingham of large pre-fabricated elements of operational plant and then the use of large HGVs to transport abnormal loads from the Port to the relevant parts of the Site.'	Construction	N/A	Contractor	N/A	Deleted: Requirement 6 – Construction Environmental Management Plan of the draft DCO [REP5-004]:
EMB-TT2	Chapter 11: Traffic and Transport [APP-053]	All permanent access points that require the creation of a junction bell-mouth will be designed based on the relevant standard from Design Manual for Road and Bridges ("DMRB") CD 123 "Geometric Design of at Grade Priority and Signal-Controlled Junctions" and in consultation with the local highway authority.	Requirement 8 – Highways works of the draft DCO TR030008/APP/2.1 (9)] requires that before construction of any works to highway maintainable at the public expense begins, written details of those works (which would include works for permanent accesses from the highway (i.e. for Works 2, 3, 5 and 7)), 'must be submitted to and approved by the planning authority following consultation with the highway authority'.	Operation	N/A	Contractor	NELC – Highways Department	Deleted: [REP5-004] Deleted:), 'written details of the design and layout
Standard Mit	igation							
SRD-TT1	Chapter 11: Traffic and Transport [APP-053] Chapter 6: Air Quality [APP-048] Chapter 7: Noise and Vibration [APP-049]	The Contractor will prepare a CTMP setting out mitigation measures included in the Outline CTMP [AS-045] which sets out measures and controls to limit the number of trips on the network in the peak hours, and as such would limit the traffic impact of the construction phase as far as possible.	Requirement 7 – CTMP of the draft DCO [TR030008/APP/2.1 (9)] The CTMP which must be prepared to discharge this requirement must be in accordance with the Outline CTMP [AS-045].	Construction	The need for monitoring of the measures in the CTMP is set out in the Outline CTMP [AS-045].	Contractor	NELC – Highways Department	Deleted: Requirement 7 – CTMP of the draft DCO [REP5-004]¶





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
SRD-TT2	Chapter 11: Traffic and Transport [APP- 053] Chapter 6: Air Quality [APP-048] Chapter 7: Noise and Vibration [APP- 049]	The Contractor will prepare a Construction Worker Travel Plan setting out mitigation measures included in an Outline CWTP [AS-045]. The Construction Worker Travel Plan will control the trips made by the construction workers (including encouraging car sharing) and thus reduce the impact of the workforce upon the highway network.	Requirement 7 – CTMP of the draft DCO [TR030008/APP/2.1 (9)] The CTMP which must be prepared to discharge this requirement must be in accordance with the Outline CTMP [AS-045]. Since an outline Construction Worker Travel Plan is appended to the Outline CTMP, a Construction Worker Travel Plan must therefore be appended to the CTMP by the contractor.	Construction	The need for monitoring of the measures in the CWTP is set out in the Outline Construction Worker Travel Plan [AS-045].	Contractor	NELC – Highways Department
OSRD-TT3	Outline Operational Travel Plan [REP4- 029]	The Contractor will prepare an Operational Travel Plan (OTP) setting out mitigation measures included in an Outline OTP [REP4-029] which sets out measures and controls to minimise the traffic impact of the operational phase as far as possible.	Requirement 19 of the draft DCO [TR030008/APP/2.1 (9)] secures the OTP which must be in accordance with the Outline OTP.	Operation	The need for monitoring of the measures in the OTP is set out in the Outline OTP [REP4-029]	ABP	NELC – Highways Department

Deleted: Requirement 7 – CTMP of the draft DCO [REP5-004]¶

Deleted: A draft requirement will be introduced into the **draft DCO** [REP5-004] at a suitable deadline to secure the Operational Travel Plan.

Additional Mitigation

None identified for traffic and transport.





Table 7: Marine Transport and Navigation

conditions 8 and 15 of the draft Deemed Marine Licence Schedule 3 of the draft DCO [REP5-004], requiring deliv		mo rranoport ana ra	24.94.011						_
EMB-MT1 Chapter 12: Marrine Transport and Navigation [APP_054] and Figure 13: Marrine Transport and Navigation [APP_054] and Figure 14: Marrine Transport and Navigation [APP_054] and Figure	Reference	Source document	Mitigation	How the mitigation is secured	Construction, Operation or/and	required? Yes/No/N/A Form of		Regulatory	
Transport and Navigation [APP_ 15:4] Navigational Risk Assessment [APP_ 19:1] EMB-MT2 Navigational Risk Assessment [APP_ 19:1] EMB-MT3 Navigational Risk Risk Assessment [APP_ 19:1] EMB-MT3 Navigational Risk Risk Risk Risk Risk Risk Risk Risk	Embedded M	itigation							
Assessment [APP-191] procedures: Existing port documents, including the Port Marine Safety Marine Transport and Navigation [APP-054] Marine Transport and Na	EMB-MT1	Transport and Navigation [APP-	possible, to avoid and minimise impacts and effects to marine transport and navigation through the process of design development, and by embedding mitigation measures into the design, such as minimising the dredge requirements	of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The number and layout of the piles are further controlled by a series of parameters which are defined for Work No. 1a in the Outline CEMP TR030008/APP/6.5 (8)] and secured by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)], requiring delivery of the Project in accordance with a detailed CEMP		N/A	N/A		Deleted: 1a in the Outline CEMP [REP5-017] and secured by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO [REP5-004], requiring delivery of the Project in accordance with a detailed CEMP approved by
Navigation [APP-		Assessment [APP-191] Chapter 12: Marine Transport and Navigation [APP-054] Navigational Risk Assessment [APP-191] Chapter 12: Marine Transport and	procedures: Existing port documents, including the Port Marine Safety Management System ("MSMS"), Humber Passage Plan ("HPP"), and Humber Emergency Plan ("HEP"), will be updated to take into account the Project. Updated Admiralty publications: Information about the Project will be provided to the UK Hydrographic Office ("UKHO") in a timely manner to allow Charts, Sailing Directions, and List of	conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO [TR030008/APP/2.1 (9)]. This forms part of the legal obligations that the Port of Immingham has as the Statutory Harbour Authority. This forms part of the legal obligations that the Port of Immingham has as the Statutory Harbour	Operation		Marine Contractor Operation: ABP Construction: Marine Contractor Operation:	Harbour Authority	Deleted: [REP5-004].
			3 (-)				ARP		

Operation

No

ABP

This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents

including Humber Passage Plan ("HPP"), and Humber Emergency Plan ("HEP").

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2

191]

Navigational Risk

Assessment [APP-

Chapter 12: Marine Transport and Navigation [APP-054] Towage: Towage support in terms of the

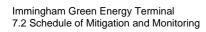
number and power of tugs appropriate to the size of the gas carrier and weather conditions will be provided by tugs from the Sunk Spit Buoy for passage to the berth, as well as assisting departure.

General availability of towage will also help provide assistance in the event of a mooring breakout.

EMB-MT4

24

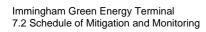
Harbour Authority







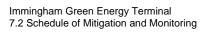
Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
EMB-MT5	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Aids to Navigation ("AtoNs"): The marine works shall be appropriately lit as soon as there are items which pose a hazard to navigation. Once operational, aids to navigation shall be provided and maintained so that the structure and berth can be identified. The safe navigation of all vessels in the Humber is aided by numerous existing AtoNs.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including Port MSMS and HPP.	Construction Operation	No	Construction: Marine Contractor Operation: ABP	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT6	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Circulation of Information: Information will be circulated about the Project to users of the Humber via Notices to Mariners and river warnings broadcast by the VTS every two hours (or more frequently if required), which consist of maritime safety information, and designated no-go zones. Temporary construction information not on Admiralty charts could be marked by other means, e.g. Portable Pilot Unit ("PPU").	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT7	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Stakeholder liaison: Stakeholder engagement and liaison will be held with recreational and fishing representatives to make them aware of the Project and related vessel activities during constructions.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT8	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Communications between Project/Port: Discussion of upcoming activities shall take place with the personnel at Immingham, HES and where relevant, the Pilots and IOT.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT9	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Hydrographic surveys: The current programme of surveying at the Port of Immingham shall be updated to include the Project. The results of the survey shall be provided to the UKHO for use in navigational charts and compared with previous surveys to inform potential requirements for maintenance dredging.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. This forms part of the legal obligations that the port has as the Statutory Harbour Authority	Construction Operation	No	Construction: Marine Contractor Operation: ABP	MMO Harbour Authority	Deleted: [REP5-004].







Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
EMB-MT10	Navigational Risk Assessment [APP- 191] Chapter 12: Marine	Weather limits: The maximum weather limits for operations shall be assessed and set for all activities. These shall be monitored against real time and	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction Operation	No	Construction: Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
	Transport and Navigation [APP- 054]	forecasted weather conditions throughout the construction process. In addition, operational weather limits shall also be considered for vessels using the terminal during the operational phase.	This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.			Operation: ABP		
EMB-MT11	Navigational Risk Assessment [APP- 191]	Weather monitoring: Weather forecasting and monitoring shall be carried out and compared with the allowable weather limits for reliable planning and	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO JTR030008/APP/2.1 (9)].	Construction Operation	No	Construction: Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
	Chapter 12: Marine Transport and Navigation [APP- 054]	assessment of risk regarding the weather operating limits, which will vary between phases and activities, e.g., construction vs. normal operation.				Operation: ABP		
EMB-MT12	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP-	Tidal limits: Tidal limits will apply to certain activities (analogous to weather limits).	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. This forms part of the legal obligations that the port has as the Statutory Harbour Authority and	Construction Operation	No	Construction: Marine Contractor Operation: ABP	MMO Harbour Authority	Deleted: REP5-004
EMB-MT-13	Navigational Risk Assessment [APP-	Speed limits: A maximum speed limit of 5 knots will apply to vessels passing the Project berth when a vessel is mooring, moored or unmooring (the same as at	would be contained within Port documents including the Port MSMS, HPP, and HEP. CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO JTR030008/APP/2.1 (9)].	Construction Operation	No	Construction: Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
	Chapter 12: Marine Transport and Navigation [APP- 054]	IOT). VTS will monitor for unsafe speeds, including during construction work. Sanctions may be used against repeat offenders, e.g., removal of PEC.	The 5 knot speed limit is imposed on all movements around jetties through byelaw 14(3) (Navigation and Speed of Vessels) of the Humber Navigation Byelaws. This forms part of the legal obligations that the Harbour Master Humber ("HMH") has in exercising the duties of the Statutory Harbour			Operation: ABP		
			Authority ("SHA") and would be contained within SHA operational documentation used by both the Applicant as SHA for the Port of Immingham and HMH in exercising duties of the SHA for the					



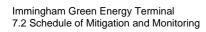




Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
			wider Humber Estuary including the Port MSMS, HPP and HEP.				
EMB-MT-14	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Berth design: The Project berth will be aligned with IOT (including the exclusion zone) to maintain the width of the channel to the north (noting most vessels already avoid the planned exclusion zone).	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO_TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The alignment of the jetty head, which aligns with the IOT jetty, is controlled by a series of parameters which are defined for Work No. 1a in the Outline CEMP and secured by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO_TR030008/APP/2.1 (9)], requiring delivery of the Project in accordance with a detailed CEMP approved by the MMO.	Operation	No	N/A	N/A MMO
EMB-MT-15	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Simulations: A real-time ship navigation simulation study has been carried out to demonstrate vessels can navigate safely to/from the Project facility, and that adverse effects are not imposed on other Port users. Further simulations to be carried out, if identified to be necessary, to inform detailed operational requirements.	This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.	Operation	No	ABP	Harbour Authority
EMB-MT-16	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Safety zone: A minimum 150m exclusion zone will apply to passing vessels from the berth line. A suitable construction safety zone will also be designated.	This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.	Construction Operation	No	Construction: Marine Contractor Operation: ABP	Harbour Authority
EMB-MT-17	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Standard best practise in design and operations to include: • Shoreside maintenance; • Load monitoring; and • CCTV	During operation these would be standard procedures undertaken by the Port.	Operation	No	ABP	Harbour Authority

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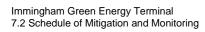


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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
EMB-MT-18	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Mooring study and plans: A mooring study shall be completed for the proposed mooring arrangements at the berth to confirm that there are appropriate moorings available to moor vessels for the operational wind limits and the expected tidal flows.	This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.	Operation	No	ABP	Harbour Authority	
EMB-MT-19	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Minimising personnel exposure: Measures to minimise exposure in the event of release of a toxic substance, e.g., ammonia, will be considered, e.g., remote jetty operations and toxic refuges.	Schedule 1 (Authorised development) of the draft DCO TR030008/APP/2.1 (9)] includes the provision of toxic refuge rooms' on the jetty.	Operation	No	ABP	MMO Harbour Authority	Deleted: [REP5-004]
EMB-MT-20	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Emergency plans, exercises and response resources: These will be in place, as appropriate, for each phase. For example, construction contractors shall have tier 1 oil spill response equipment to ensure any pollution events can be contained.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT-21	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Approval of tidal works: This approval is required before any construction activity can commence. This will follow on from a contractor approval process.	Referred to in the CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO_ITR030008/APP/2.1 (9)]. Consent required from Statutory Harbour Authority before works can commence.	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: 14 Deleted: [REP5-004].
EMB-MT-22	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Contractors shall have Risk Assessment Method Statement ("RAMS") and Safety Management System ("SMS") covering all of the construction activities which shall be reviewed by the Harbour Authority prior to the commencement of activities.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT-23	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and	Standard Operating Procedures ("SOP"): Suitable procedures will be in place during construction work.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
	Navigation [APP- 054]							
EMB-MT-24	Navigational Risk Assessment [APP- 191	Vessel Checks: Checks will be carried out to make sure construction vessels are fit for purpose.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO	Construction	No	Marine Contractor	Maritime and Coastguard Agency MMO	
	Chapter 12: Marine Transport and Navigation [APP- 054]		[TR030008/APP/2.1 (9)].				IVIVIO	Deleted: [REP5-004].
EMB-MT-25	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Non-Routine Towage ("NRT") Assessments: These will be carried out when necessary to assess the risks and establish requirements, e.g., if pilotage is required, number of tugs, radius of towage, tidal restrictions, etc. Covered in HES Towage Guidelines.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT-26	Navigational Risk Assessment [APP- 191 Chapter 12: Marine Transport and Navigation [APP- 054]	Designated Point of Contact ("PoC"): During construction activities, there will be a designated PoC to provide appropriate information and respond to emergency situations. This role shall be the main line of communication between the works and the Statutory Harbour Authority ("SHA").	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT-27	Navigational Risk Assessment [APP- 191 Chapter 12: Marine Transport and Navigation [APP- 054]	Safety Vessel: A safety vessel will be ready and on standby during construction activities. The availability of a safety vessel in the area of the marine works shall provide for rapid response to emergency situations and an overview of the activity being conducted; during Construction.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO [TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
EMB-MT-28	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Dropped Object Procedure: A dropped object procedure will be in place to report and respond to any drop incidents.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. Secured by condition 22 of the draft Deemed Marine Licence which forms Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Construction	No	Marine Contractor	Harbour Authority MMO	Deleted: [REP5-004]. Deleted: [REP5-004]
	<u></u>		WIGHT 200 (11/1000000///11/2/1 (3))		-			Deleten [INLI 3-004]







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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
EMB-MT-29	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Construction Surveys: Pre & post- construction surveys will be carried out to confirm that under keel clearances remain unchanged (in case of unreported incidents).	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO	Deleted: [REP5-004].
EMB-MT-30	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Loading / unloading plan: Equipment and materials being delivered by barge shall have plans specifying the order and method of loading and unloading at the marine works site.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	MMO Harbour Authority	Deleted: [REP5-004].
Standard Miti	gation	1				1	1	
SRD-MT1	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Pilotage / Pilotage Exemption Certificate ("PEC"): Gas carriers to the Project will be subject to Humber Estuary Services' ("HES") pilotage requirements. A significant proportion of vessels passing the Project will also be subject to Pilotage requirements or have PEC holders onboard.	This forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.	Operation	No	ABP	Harbour Authority	
SRD-MT2	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP-	Vessel Traffic Services: Adherence of vessels to Humber Vessel Traffic Services ("VTS") requirements and instructions. Humber VTS will help control vessel movements and avoid dangerous encounter situations, e.g. involving	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. This forms part of the legal obligations that the port has as the Statutory Harbour Authority and	Construction Operation	No	ABP	MMO Harbour Authority	Deleted: [REP5-004].
	<u>054]</u>	construction vessels.	would be contained within Port documents including the Port MSMS, HPP, and HEP.					
SRD-MT3	Navigational Risk Assessment [APP- 191] Chapter 12: Marine	Passage Planning: Project vessels will have appropriate passage plans in place as well as adhering to the Humber Passage Plan when applicable.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction Operation	No	Construction: Marine Contractor	MMO Harbour Authority	Deleted: 14 Deleted: [REP5-004].
	Transport and Navigation [APP- 054]		During operation this forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.			Operation: ABP		





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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
SRD-MT4	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Traffic Management: Vessels will be sequenced as per the Humber Passage Plan to help avoid encounters and prevent overtaking, e.g. an Immingham Oil Terminal ("IOT") vessel will be brought in ahead of a Project	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. During operation this forms part of the legal obligations that the port has as the Statutory Harbour Authority and would be contained within Port documents including the Port MSMS, HPP, and HEP.	Construction Operation	No	Construction: Marine Contractor Operation: ABP	MMO Harbour Authority	Deleted: 14 Deleted: [REP5-004].
SRD-MT5	Navigational Risk Assessment [APP- 191]	Vessels will adhere to the Convention on the International Regulations for Preventing Collisions at Sea, 1972 ("COLREGS")	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. During operation this forms part of the legal obligations under the International Regulations for Preventing Collisions at Sea, 1972 ("COLREGS")	Construction Operation	No	Construction: Marine Contractor Operation: ABP	Maritime and Coastguard Agency MMO	Deleted: [REP5-004].
SRD-MT6	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	Standard port operations to include: Availability of secondary channel; and Gas carrier design standards and industry guidance	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]. During operation these would be standard procedures undertaken by the Port.	Construction Operation	No	Construction: Marine Contractor Operation: ABP	MMO Harbour Authority	Deleted: [REP5-004].
SRD-MT7	Navigational Risk Assessment [APP- 191] Chapter 12: Marine Transport and Navigation [APP- 054]	The Construction (Design and Management) Regulations 2015 ("CDM Regulations") will be adhered to, to help protect employee health during construction projects.	CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)].	Construction	No	Marine Contractor	ммо	Deleted: [REP5-004].
Additional Mi	tigation							

Additional Mitigation

None identified for Marine Transport and Navigation.





Table 8: Landscape and Visual Impact

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Embedded Mi	tigation						
EMB-LV1	Chapter 13: Landscape and Visual Impact [APP- 055]	The Project has been designed to protect and retain valued trees, woodland, existing vegetation and other landscape features, where possible.	The location of Work No.1 and Work No. 2 which include the part of the Project which requires the loss of woodland from the Long Strip TPO woodland is limited to the extent of these works as shown on the Works Plans [AS-057].	Construction	N/A	N/A	NELC – Tree Officer
			The extent to which trees can be removed from the Long Strip is limited to that shown on Plan of Potentially Affected Hedgerows and Trees Subject to Preservation Orders [AS-064]. This mitigation is further secured by Article 54 of the draft DCO [TR030008/APP/2.1 (9)]				
EMB-LV2	Chapter 13: Landscape and Visual Impact [APP- 055]	During construction trees will be clearly fenced or marked so that site operatives know which trees are to be kept and protected.	Requirement 6 – Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]. Table 3.8 of the Outline CEMP states that: 'During construction trees would be clearly fenced or marked so that site operatives are in no doubt as to which ones are to be kept and protected.'	Construction	N/A	Contractor	NELC – Tree Officer
EMB-LV3	Chapter 13: Landscape and Visual Impact [APP- 055]	The design minimises tree loss in the Long Strip woodland.	The location of Work No.1 and Work No. 2 which include the part of the Project which requires the loss of woodland from the Long Strip TPO woodland is limited to the extent of these works as shown on the Works Plans [AS-057]. The extent to which trees can be removed from the Long Strip is also limited to that shown on Plan of Potentially Affected Hedgerows and Trees Subject to Preservation Orders [AS-064]. This mitigation is further secured by Article 54 of the draft DCO [TR030008/APP/2.1 (9)]	Construction	N/A	N/A	NELC – Tree Officer
EMB-LV4	Chapter 13: Landscape and Visual Impact [APP- 055]	The Project design seeks to minimise lighting impacts beyond the Site Boundary by directing lighting away from adjacent habitats. A Lighting Assessment (Appendix 2.B [APP-173]) has been prepared and outlines the lighting requirements during the operational stage of the Project to reduce lighting impacts.	Construction: Requirement 6 - Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]. The Outline CEMP states that 'Construction temporary lighting will be arranged so that glare is minimised outside the construction site. Lighting will be designed so as not to cause a	Construction Operation	N/A	Construction: Contractor Operation: ABP Air Products	NELC MMO (for marine aspects)

Deleted: This mitigation is further secured by Article 54 of the draft DCO [REP5-004]

Deleted: Requirement 6 – Construction Environmental Management Plan of the draft DCO [REP5-004].

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Deleted: Requirement 6 - Construction Environmental Management Plan of the draft DCO [REP5-004]. ¶





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Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation		
			nuisance outside of the Site in relation to views from residential receptors or light disturbance to ecological receptors.					Deleted	d: 1
			Operation:					(2000)	1
			Requirement 16 – External lighting of the draft						
			part of Work Nos 1 (outside of the UK marine area), 2, 3, 5 and 7 is to be brought into operational use until a written scheme of the proposed operational external lighting for that part has been submitted and approved.					Deletec	d: [REP5-004]
Standard Miti	gation			•	•				
SRD-LV1	Chapter 13: Landscape and	Use of appropriate materials on buildings to minimise adverse impact on visual	Requirement 4 – Detailed approval of the draft DCO [TR030008/APP/2.1 (9)]:	Operation	N/A	ABP Air Products	NELC		d: Requirement 4 – Detailed approval of the draf EP5-004]:¶
	Visual Impact [APP- 055]	amenity.	This states that the external materials for the control building within Work No. 5 and control room and workshop building, security and visitor building, contractor building and warehouses will			7 III T TOUGOS		Deleted	d: security building within Work No. 2,
			be subject to approval and must be accordance with the principles contained in the hydrogen production facility design code. The external paint finish of the ammonia storage tank within Work No 3a is also subject to approval.					Deleted	i: .
SRD-LV2	Chapter 13: Landscape and Visual Impact [APP- 055]	The Contractor will prepare details of landscape and ecology enhancements for the operational layout based on the Outline LEMP [REP4-012].	Requirement 10 – Landscape and ecology Management Plan of the draft DCO [TR030008/APP/2.1 (9)]	Operation	N/A	ABP Air Products	NELC	Deletec Manage	d: Requirement 10 – Landscape and ecology ement Plan of the draft DCO [REP5-004]¶
Additional Mi	tigation			1		1			
ADD-LV1	Chapter 13: Landscape and Visual [APP-055] Chapter 8: Nature Conservation (Terrestrial Ecology) [APP-050] Chapter 10: Ornithology [APP-052]	Compensation measures for the loss of woodland within the Long Strip Woodland include: Off-site woodland creation and management within a specified location Enhancement of retained parts of the Long Strip TPO woodland north of Laporte Road.	Requirement 11 – Offsite woodland compensation of the draft DCO [TR030008/APP/2.1 (9)] states that the Applicant must comply with the approved Woodland Compensation Plan which is intended to be a certified document in Schedule 15 of the DCO.	Operation	Yes Monitoring of the establishment of the woodland planting is defined in the Woodland Compensation Plan.	ABP	NELC – Tree Officer	Deletec	d: Requirement 11 – Offsite woodland nsation of the draft DCO [REP5-004]





Reference	Source document	Mitigation	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		Agreement of a woodland compensation plan with the local planning authority.				





Table 9: Historic Environment (Terrestrial)

Refere	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommiss ioning	Is monitori ng required ? Yes/No/ N/A Form of Monitori ng	Respon sible party	Responsib le Regulatory Organisati on
Embedo	ded Mitigation						
EMB- HT1	Chapter 14: Historic Environment (Terrestrial) [APP-056]	The Site Boundary has been refined to minimise land take.	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO [TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057].	Construction Operation Decommissi oning	N/A	N/A	NELC
EMB- HT2	Chapter 14: Historic Environment (Terrestrial) [APP-056]	The Project will employ construction methods which will 'do no harm', specifically deep Horizonal Directional Drilling ("HDD") associated with installation of the main pipeline in the Pipeline Corridor (Work No. 6) and no impact methodologies within the Temporary Construction Area (Work No. 9).	Requirement 6 - Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]: Table 11 of the Outline CEMP states that construction methods which will "do no harm" will be employed at two locations within the Site Boundary	Construction	N/A	Contract	NELC
Standar	d Mitigation						
SRD- HT1	Chapter 14: Historic Environment (Terrestrial) [APP-056]	The Contractor will develop and implement a CEMP Plan based on the Outline CEMP	Requirement 6 - Construction Environmental Management Plan of	Construction	Yes Monitorin g of any fieldwork if	Contract	NELC

Deleted: [REP5-004]

Deleted: Requirement 6 - Construction Environmental Management Plan of the draft DCO [REP5-004]:¶

Deleted: The Contractor will develop and implement a CEMP Plan based on the **Outline CEMP** [REP5-017].

Deleted: Requirement 6 - Construction Environmental Management Plan of the draft DCO [REP5-004]¶





Refere	Source document	Mitigation	How the mitigation is secured	Phase of Works Constructio n, Operation or/and Decommiss ioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Respon sible party	Responsib le Regulatory Organisati on
		[TR030008/APP/6.5 (8)].	the draft DCO [TR030008/APP/2.1 (9)] The Outline CEMP includes the following: "If remains which are deemed to be significant in nature are encountered during construction works, the relevant part of the works will be halted and NELC Heritage officer consulted in order to understand if further works are required in relation to the asset in order to characterise, record and understand if"		required and report productio n following completio n of that fieldwork		
Addition	nal Mitigation						
x	No additional mitigation for Historic Environment (Terrestrial)	×	*	¥	*	¥	

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2

Deleted: ADD-HT1

Deleted: Chapter 14: Historic Environment (Terrestrial) [APP-056]...

Deleted: Further analysis of the peat and organic alluvium samples recovered during the evaluation in order to provide more data on the paleo-environmental nature of the Site. This would mitigate the loss of the buried, physical deposits during the construction phase of the Project.

Deleted: Requirement 6 - Construction Environmental Management Plan of the draft DCO [REP5-004] The Outline CEMP states in Table 3-9 that there is a requirement to undertake further analysis of the retained peat and organic alluvial deposits as recommended in the geoarchaeological evaluation report [REP5-017]

Deleted: N/A – field work is not required, simply further laboratory work. There is no link between this work and the Phase of Works

Deleted: Yes¶
Reporting would be subsequently provided once further laboratory work is completed.

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Table 10: Historic Environment (Marine)

Reference Embedded I	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
EMB-HM1	Chapter 15: Historic Environment (Marine) [APP-057]	The Project has been designed to reduce impacts to potential marine archaeological receptors by the reduction in the number of berths from two to one.	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The number and layout of the piles is defined by a series of parameters in the Outline CEMP and the dredging extent by a series of coordinates, both secured by condition 8 and 15 of the draft Deemed Marine Licence in Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Construction Operation	N/A	N/A	MMO	Deleted: [REP5-004] Deleted: [REP5-004]
Standard Mi	tigation							
SRD-HM1	Chapter 15: Historic Environment (Marine) [APP-057]	The Contractor will prepare a Written Scheme of Investigation based on an Outline Written Scheme of Investigation [APP-204] including, but not limited to, the following measures: • Avoidance of known marine cultural heritage receptors, such as Archaeological Exclusion Zones ("AEZ"); • Geoarchaeological and geophysical date assessment for baseline enhancement; and • Establishing a protocol for archaeological discoveries ("PAD") which will reduce the impact on unexpected archaeological discoveries.	The requirement for a Written Scheme of Investigation is secured by condition 13 and 17 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Construction	The WSI would specify any required monitoring of any AEZ receptors to ensure there is no disturbance	Marine Contractor	ммо	Deleted: [REP5-004]
Additional N	litigation							
ADD-HM1	Chapter 15: Historic Environment (Marine) [APP-057]	Where damage to archaeological receptors is impossible, a more extensive study, excavation or survey of the receptor will be undertaken by a specific method statement which will be approved by Historic England.	Contained within the Written Scheme of Investigation which is secured by condition 13 and 17 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Construction	N/A	Marine Contractor	ММО	Deleted: [REP5-004] Deleted: ADD-HM2









Table 11: Physical Processes

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded I	Mitigation							
EMB-PP1	Chapter 16: Physical Processes [APP-058]	The Project has been designed, as far as possible, to avoid and minimise impacts and effects on physical processes through the process of design	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of	Construction Operation	N/A	N/A	ММО	
		development, such as minimising the dredge requirements as far as possible.	the draft DCO TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057].					Deleted: [REP5-004]
			The number and layout of the piles is defined by a series of parameters in the Outline CEMP and the dredging extent by a series of coordinates, both secured by condition 8 and 15 the Deemed Marine Licence in Schedule 3 of the					
			draft DCO [TR030008/APP/2.1 (9)]					Deleted: [REP5-004]
Standard Mi	tigation							
SRD-PP1	Chapter 16: Physical Processes [APP-058]	The Contractor will dispose of capital dredge arisings evenly by targeting disposal loads in the central/deeper area of the disposal sites to reduce depth reductions. This will minimise the initial	Capital dredge arisings would be disposed of at existing licenced disposal sites [HU056, HU060] as secured by condition 21 of the draft Deemed Marine Licence, Schedule 3 of the draft	Construction Operation	N/A	Construction: Marine Contractor Operation:	ММО	
		reduction in water depth and any	DCO_TR030008/APP/2.1 (9)].			ABP		Deleted: [REP5-004].
		environmental changes at the disposal sites. Maintenance dredge arisings (if any) will be disposed of at HU060.	Maintenance dredge arisings would be disposed of under an existing marine licence or any subsequent variation or successor.					
Additional N	litigation			I.			- I	
No additions	I mitigation for Physical Pro	ocesses						
No additiona	I mitigation for Physical Pro	ocesses						

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2





Table 12: Marine Water and Sediment Quality

Reference	Source document Mitigation	Mitigation	How the mitigation is secured	Phase of Works Construction Operation Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
EMB-MS1	Chapter 17: Marine Water and Sediment Quality [APP-059]	The Project has been designed, as far as possible, to avoid and minimise impacts and effects on marine water and sediment quality through the process of design development, and by embedding mitigation measures into the design, such as minimising the dredge requirements as far as possible.	The location of Project is limited by the definition of the various works, within the description of the authorised development contained in Schedule 1 of the draft DCO TR030008/APP/2.1 (9)] and with the locations defined in the Works Plans [AS-057]. The number and layout of the piles is defined by a series of parameters in the Outline CEMP and the dredging extent by a series of coordinates, both secured by the Deemed Marine Licence in Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Construction Operation	N/A	N/A	MMO
Standard M	itigation						
SRD-MS1	Chapter 17: Marine Water and Sediment Quality [APP-059]	The Contractor will prepare a Construction Environmental Management Plan based on the Outline CEMP [TR030008/APP/6.5] (8)] that will adopt a number of good practice measures including: • All wastes generated on site will be removed in a timely manner and any materials and containers giving rise to possible spills or contamination of the surrounding environment will be taken from site to be processed at a licensed facility. • Liquid oils/chemicals required for use during construction will be stored in suitable containers/bunded storage areas. • In the event of a pollution incident measures to report, manage, and minimise any impacts will be pursued, with construction spill response procedures to contain any accidental spills.	Requirement 6 – CEMP of the draft DCO_TR030008/APP/2.1 (9)] CEMP secured in the marine environment by conditions 8 and 15 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO_TR030008/APP/2.1 (9)]Table 3.13 of the Outline CEMP [TR030008/APP/6.5 (8)] incudes each of the measures listed left.	Construction	The need for monitoring would be defined in the Final CEMP(s) for the relevant works	Marine Contractor	MMO (marine)

Deleted: [REP5-004]

Deleted: [REP5-004]

Deleted: The Contractor will prepare a Construction Environmental Management Plan based on the **Outline CEMP** [REP5-017] that will adopt a number of good practice measures including:...

Deleted: [REP5-004]

Deleted: [REP5-004].

Deleted: Table 3.13 of the **Outline CEMP** [REP5-017] incudes each of the measures listed left.





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction Operation Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		Plant will also be maintained regularly, and spill kits will be available for use in the event of a spill onsite. Refuelling will be in designated areas to limit the potential for spillages. Fuel will be stored in the Site compound overnight, limiting the potential for fuel theft and vandalism which could cause pollution. Should any pollution incidents occur, they will be reported immediately to the relevant authorities. The workforce will be trained in preventing and dealing with pollution incidents.					

Additional Mitigation

No additional mitigation for Marine Water and Sediment Quality

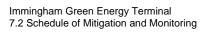




Table 13: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded M	ditigation							
EMB-WQ1	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	The Project design includes the following flood resilience measures to minimise the amount of damage and reduce recovery time in the unlikely case of the site becoming inundated: • Finished floor level raising; • Use of flood resistant building materials; • Use of water-resistant coatings; • Use of galvanised and stainless-steel fixings; • Raising electrical sockets and switches; and • Provision of an appropriate safe refuge.	Requirement 13 – Flood Risk Assessment of the draft DCO TR030008/APP/2.1 (9)] and condition 14 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)]	Operation	N/A	ABP Air Products	NELC	Deleted: [REP5-004] Deleted: [REP5-004]
Standard Mi	tigation			1				
SRD-WQ1	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	A Drainage Strategy has been prepared and forms Appendix 18.B [APP-210]. The Drainage Strategy includes the following measures: Use of sustainable drainage systems; and Designed to be inherently safe to protect the environment from urban diffuse pollutants.	Requirement 12 – Surface water drainage of the draft DCO [TR030008/APP/2.1 (9)]	Operation	N/A	Contractor	North-east Lindsey Drainage Board NELC (as Lead Local Flood Authority)	Deleted: [REP5-004]
SRD-WQ2	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	The Flood Risk Assessment, set out in Appendix 18.A [AS-134], sets out measures to protect the Project from the residual risk of flooding in the event that the existing tidal defences fail in the vicinity of the Site, or in the event of heavy rainfall that could result in surface water flooding at the Site if the design capacity of the drainage network is exceeded. An appropriate flood warning and evacuation plan will need to be submitted to and approved by the NELC	Requirement 13 – Flood Risk Assessment of the draft DCO TR030008/APP/2.1 (9)] and condition 14 of the draft Deemed Marine Licence, Schedule 3 of the draft DCO TR030008/APP/2.1 (9)] (together with any flood emergency response plans as may be required pursuant to the final Requirements)	Operation	N/A	Air Products	NELC	Deleted: [REP5-004] Deleted: [REP5-004]

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2







Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		These measures include: In the event of extreme weather, the operator will shut the hydrogen production facility down, make equipment safe and relocate road tankers present on the site elsewhere; Flood resistant and resilient design measures such as pipelines and storage tanks being designed to withstand the water pressures associated with high return period event flooding, tanks and equipment remaining secure in the event of flooding and consideration of pollution control to prevent/ reduce the chance of any fuel/material stored on site leaking; Raising external floor levels; and Elevating critical equipment above the estimated peak flow level, for their protection.					
SRD-WQ3	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	Management of hazardous substances on Site including a Site Emergency Response Plan for addressing emergency situations involving the loss of containment of hazardous substances.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that safe storage and containment are adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place. (Control of Substances Hazardous to Health Regulations (COSHH (2002) also includes control measures that would be relevant)	Operation	The application for the Environmental Permit will define the monitoring proposed to ensure safe operation of the ammonia storage and hydrogen storage and production facilities.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
SRD-WQ4	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	The Contractor will prepare a Water Management Plan as part of the preparation of a Construction Environmental Management Plan based on the Outline CEMP [TR030008/APP/6.5 (8)] that will adopt a	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]: The Outline CEMP TR030008/APP/6.5 (8)] and Outline	Construction Decommissioning	The need for monitoring would be defined in the Final CEMP(s) and DEMP(s) and any appended	Contractor	NELC MMO (for marine aspects of Work No. 1)

Peleted: The Contractor will prepare a Water Management Plan as part of the preparation of a Construction Environmental Management Plan based on the Outline CEMP [REP5-017] that will adopt a number of good practice measures including: ¶

Deleted: [REP5-004]:

Deleted: The Outline CEMP [REP5-017]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		number of good practice measures including: • Management of construction site run-off to manage fine sediment in surface water runoff as a result of construction activities; • Management of construction spillage risk to manage the risk of accidental spillages on site and potential conveyance to nearby waterbodies via surface runoff or land drains; • Management of flood risk at temporary construction areas by provision of suitable fencing; and • Preparation of a de-watering scheme should groundwater be encountered during below ground construction.	Decommissioning Environmental Management Plan ("DEMP") [REP5-019] identifies that a Water Management Plan would be produced to include measures necessary to avoid, prevent and reduce adverse effects where possible upon the local surface water environment. This would be produced as part of the final CEMPs.		plans for the relevant works		
SRD-WQ5	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP-060]	Appropriate best practice mitigation measures will be applied during decommissioning works for the hydrogen production facility and documented in a DEMP.	Requirement 18 – Scheme of decommissioning of the draft DCO TR030008/APP/2.1 (9)] The Outline DEMP [REP5-019] identifies that a Water Management Plan would be produced as part of the final DEMP.	Decommissioning	Any required monitoring of water related discharges or aquatic receptors would be defined in the DEMP at the relevant time	Contractor	NELC

Additional Mitigation

No additional mitigation for Water Use, Water Quality, Coastal Protection, Drainage and Flood Risk.





Table 14: Climate Change

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Embedded N	litigation						
EMB-CC1	Chapter 19: Climate Change [APP-061]	The Project has been and will be designed, to avoid and minimise impacts and effects to climate through the adoption of, but not limited to the following: Plant advanced control and optimisation; Use of insulation and superinsulation to minimise heat leak into the system; Predictive maintenance systems to ensure optimal compressor and equipment running; All plant at the installation to be subject to the preventative maintenance programme which ensures that operational efficiency is maintained; High integrity plan to minimise fugitive emissions; High plant reliability for optimal plant performance reducing start up and shut down; and Use of energy efficient lighting.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that the plant is design is accordance with BAT. Requirement 16 – External Lighting would further secure the use of energy efficient lighting.	Operation	N/A	ABP Air Products	Environment Agency NELC
EMB-CC2	Chapter 19: Climate Change [APP-061]	The Project has been designed, to avoid and minimise impacts and effects to climate through the adoption of, but	Requirement 13 – Flood risk assessment of the draft DCO JTR030008/APP/2.1 (9)]	Operation	N/A	Air Products	Environment Agency NELC
	Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [APP- 060]	not limited to the following: Flood resistant/ resilient design; Raising external ground levels; and Elevating critical plant equipment and/or internal finished floor levels above the peak flood inundation level	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that appropriate flood risk measures, such as those listed left, are adequately demonstrated for the final design of the hydrogen production facility.				





Standard Mitigation SRD-CC1 Chapter 19: Climate Change [APP-061] The Contractor will undertake risk assessments of severe weather impacts and take into account climate change projects as part of the preparation of a CEMP based on the Outline CEMP [TR030008/APP/6.5 (8)]. SRD-CC2 Chapter 19: Climate Change [APP-061] The contractor will implement and maintain an 'Environmental Management Plan of will consider all measures deemed necessary and appropriate to manage severe weather events, as part of the Construction Environmental Management Plan. These would include: Standard Mitigation Standard		
Change [APP-061] assessments of severe weather impacts and take into account climate change projects as part of the preparation of a CEMP based on the Outline CEMP [TR030008/APP/6.5 (8)]. SRD-CC2 Chapter 19: Climate Change [APP-061] The contractor will implement and maintain an 'Environmental Management Plan of Management System ("EMS"), which will consider all measures deemed necessary and appropriate to manage severe weather events, as part of the Construction Environmental Management Plan. These would include: Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)] Construction No No		
Change [APP-061] maintain an 'Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)] maintain an 'Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)] Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Contractor	NELC MMO (for marine aspects of Work No. 1)
Use of storm defences (e.g. walls, riprap); Designing the Project with refuges and storm-resilient materials and form; and Ensuring appropriate storage of plant and materials.	Contractor	NELC MMO (for marine aspects of Work No. 1)
SRD-CC3 Chapter 19: Climate Change [APP-061] Regular preventative maintenance of assets will be undertaken to detect deterioration and damage during operation. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place. During operation these would be standard procedures undertaken by the Port	Air Products ABP	Health and Safety Executive Environment Agency Harbour Authority
Additional Mitigation		

No additional mitigation for Climate Change.

Deleted: The Contractor will undertake risk assessments of severe weather impacts and take into account climate change projects as part of the preparation of a CEMP based on the **Outline CEMP** [REP5-017].

Deleted: [REP5-004]





Table 15: Materials and Waste

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Embedded M	Mitigation						
EMB-MW1	Chapter 20: Materials and Waste [APP-062]	The Project design has sought to prioritise waste prevention, followed by preparing for re-use, recycling and recovery and lastly waste disposal to landfill as per the waste hierarchy.	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction	N/A	Contractor	NELC MMO (for marine aspects of Work No. 1)
Standard Mi	tigation	-	1	1			
SRD-MW1	Chapter 20: Materials and Waste [APP-062]	The Contractor will prepare a CEMP based on the Outline CEMP TR030008/APP/6.5 (8)]. This will adopt a number of good practice measures including, but not limited to the following: • Management arrangements, including roles and responsibilities, training, targets and best practice measures; • Estimates of construction material use and waste arising and how they will be managed; • Materials and waste management on-site; and • Opportunities for waste minimisation, reuse, recycling and recovery in line with the requirements of the waste hierarchy.	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction	Any monitoring of materials and waste would be defined in the Final CEMP(s) and any appended plans (see SRD-MW2)	Contractor	NELC MMO (for marine aspects of Work No. 1)
SRD-MW2	Chapter 20: Materials and Waste [APP-062]	The Contractor will prepare a Site Waste Management Plan based on the Outline Site Waste Management Plan, which will include, but not limited to the following: Identify and use materials that already exist on site or can be sourced from other projects; Maximise the use of pre- fabricated structures and components, encouraging a	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]. The Site Waste Management Plan will be appended to the final CEMP.	Construction	Any monitoring of materials and waste would be defined in the Final CEMP(s) and any appended plans	Contractor	NELC MMO (for marine aspects of Work No. 1)

Deleted: The Contractor will prepare a CEMP based on the **Outline CEMP** [REP5-017].

Deleted: [REP5-004]

Deleted: [REP5-004]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
		process or assembly rather than construction; Identify and specify materials that can be acquired responsibly; and Targets for waste recovery and recycled content.					
SRD-MW3	Chapter 20: Materials and Waste [APP-062]	The Contractor will develop a Materials Management Plan based on the information contained in the Outline CEMP_TR030008/APP/6.5 (8)]. This will be appended to the final CEMP. The Materials Management Plan will support the reuse of excavated material, minimise off-site disposal and provide the necessary lines of evidence to support the reuse/offsite disposal of materials and to ensure compliance with regulatory guidance.	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction	Any monitoring of materials and waste would be defined in the Final CEMP(s) and any appended plans	Contractor	NELC

Additional Mitigation

No additional mitigation for materials and waste.

Deleted: [REP5-004]

Deleted: [REP5-017].





Table 16: Ground Conditions and Land Quality

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded N	litigation							
EMB-GC1	Chapter 21: Ground Conditions and Land Quality [APP-063]	The Project has been designed to minimise effects and associated impact on land quality, such as, but not limited to the incorporation of impermeable surfacing and bunding.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that appropriate surfaces and bunding are included as required for the final design of the hydrogen production facility.	Operation	No	Air Products	Environment Agency	
EMB-GC1	Chapter 21: Ground Conditions and Land Quality [<u>APP-063</u>]	The Project has been designed to account for any potential aggressive ground conditions, including the incorporation of ground gas mitigation measures within buildings and in accordance with BS8485: 2015+A1:2019 'Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings'.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that appropriate ground gas and ground condition protective measures are adequately demonstrated for the final design of the hydrogen production facility.	Operation	The application for the Environmental Permit will define whether any monitoring is required	Air Products	Environment Agency	
EMB-GC2	Chapter 21: Ground Conditions and Land Quality [APP-063]	The Contractor will prepare a Remediation Strategy in broad accordance with the Outline	Requirement 6 – Construction Environmental Management Plan of the draft DCO_TR030008/APP/2.1 (9)]	Construction	The Remediation Strategy would define any requirements for	Contractor	NELC	Deleted: [REP5-004]
	Quality [Al 1 000]	Remediation Strategy in Appendix 21.C [APP-217], in which the potential	Requirement 15 – Contaminated land		monitoring			Deleted. [ITEL 3-004]
		for re-use of surplus materials on Site,	of the draft DCO <u>TR030008/APP/2.1</u> (9)]					Deleted: [REP5-004]
		and the potential for disposal or onward management will be considered to ensure appropriate re-use of materials off Site.						
EMB-GC3	Chapter 21: Ground Conditions and Land Quality [APP-063]	An Asbestos Management Plan ("AMP") has been prepared to manage this risk during the construction phase to	Requirement 6 – Construction Environmental Management Plan of the draft DCO_TR030008/APP/2.1 (9)]	Construction	The updated Asbestos Management Plan,	Contractor	NELC	Deleted: [REP5-004]
	[manage the risk of asbestos presence.			would define any requirements for monitoring			(25) 515 (Fig. 2523)
EMB-GC4	Chapter 21: Ground Conditions and Land Quality [APP-063]	A Materials Management Plan ("MMP") will be produced for the Project and incorporated into the Final CEMP. This will accord with the provisions of the CL:AIRE Definition of Waste Code of Practice ("DoW CoP") and demonstrate that material has been deposited in an	Requirement 6 – Construction Environmental Management Plan of the draft DCO [TR030008/APP/2.1 (9)]	Construction	Any monitoring of would be defined in the Final CEMP(s) and any appended plans	Contractor	NELC	Deleted: [REP5-004]

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2





Reference	Source document	Mitigation appropriate manner and will not pose an unacceptable risk to human health or the environment.	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Standard Mit	tigation							
SRD-GC1	Chapter 21: Ground Conditions and Land	The Contractor will prepare a final CEMP based on the Outline CEMP	Requirement 6 – Construction Environmental Management Plan of	Construction	Any monitoring of would be defined in	Contractor	NELC	Deleted: The Contractor will prepare a final CEMP based on the Outline CEMP [REP5-017].
	Quality [APP-063]	[TR030008/APP/6.5 (8)]. This will describe the measures identified to limit the dispersal and accidental release of soil-derived dusts, uncontrolled run-off and accidental releases of potential contaminants. Measures include, but are not limited to the following:	the draft DCO TR030008/APP/2.1 (9)] Requirement 15 – Contaminated land of the draft DCO TR030008/APP/2.1 (9)]		the Final CEMP(s) and any appended plans			Deleted: [REP5-004] Deleted: [REP5-004]
		 Best practice guidance and mitigation measures will be adhered to during construction, to prevent or minimise spillage risks and impacts during the construction phase; To minimise the potential for run-off from material stockpiles to surface water bodies, any stockpiled material stored on the Site will be stored at a suitable distance from watercourses; 						
		 To further prevent the potential for surface run-off and mobilisation of potential contaminants, any washing of vehicles and equipment will be undertaken in controlled areas only; 						
		The movement of traffic will be confined to designated haul routes to reduce the amount of heavy machinery going over soil materials which could cause compaction of soil materials.						
SRD-GC4	Chapter 21: Ground Conditions and Land Quality [APP-063]	The Contractor will produce a Soil Resource Plan which will form an appendix to the final CEMP, detailing the areas and type of topsoil/subsoil to be stripped, stripping method, haul routes and the management of the soil stockpiles.	Requirement 6 – Construction Environmental Management Plan of the draft DCO_TR030008/APP/2.1 (9)]	Construction	Any monitoring would be defined in the Final CEMP(s) and any appended plans	Contractor	NELC	Deleted: [REP5-004]

Planning Inspectorate Scheme Ref: TR030008 Application document Ref: TR030008/APP/7.2





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
SRD-GC6	Chapter 21: Ground Conditions and Land Quality [APP-063]	The Project will operate in accordance with and comply with relevant legislation and regulations, and the hydrogen production facility will be regulated by the Environment Agency through an Environmental Permit.	Environmental Permit	Operation	The application for the Environmental Permit will define whether any monitoring is proposed	Air Products	Environment Agency
SRD-GC7	Chapter 21: Ground Conditions and Land Quality [APP-063]	The storage of hazardous substances during the operational phase will be approved by NELC through a Hazardous Substances Consent and regulated by the Health and Safety Executive (as the competent authority) and the Environment Agency through COMAH.	Hazardous substance consent COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	Yes	Contractor	Environment Agency NELC Health and Safety Executive
SRD-GC8	Chapter 21: Ground Conditions and Land Quality [APP-063]	The Contractor will produce a Decommissioning Environmental Management Plan based on the Outline DEMP [REP5-019]. A Materials Management Plan would be appended to the final DEMP outlining measures for managing waste produced during decommissioning works and suitable measures for the sustainable use of resources and waste management that will be implemented during decommissioning.	Requirement 18 – Scheme of decommissioning of the draft DCO [TR030008/APP/2.1 (9)]	Decommissioning	Any monitoring would be defined in the Final DEMP(s) and any appended plans.	Contractor	NELC

Additional Mitigation

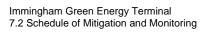
No additional mitigation from Ground Conditions and Land Quality





Table 17: Major Accidents and Disasters

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
Embedded Mit	igation						
EMB-MAD1	Chapter 22: Major Accidents and Disasters [APP-064]	Preparation of a Major Accident Prevention Plan ("MAPP") to support the notification to the Health and Safety Executive of the hydrogen production facility as a COMAH establishment.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	The final COMAH Safety Report will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
EMB-MAD2	Chapter 22: Major Accidents and Disasters [APP-064]	The ammonia storage tank incorporates safety systems to prevent the release of ammonia in the event of a failure within the primary containment area.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that safe storage is adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	The application for the Environmental Permit will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
EMB-MAD3	Chapter 22: Major Accidents and Disasters [APP-064]	Hydrogen processing and storage facilities will be designed in accordance with guidance published by the European Industrial Gases Association.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that the safe operation of the production facilities and storage are adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	The application for the Environmental Permit and the COMAH Safety Report will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)
EMB-MAD4	Chapter 22: Major Accidents and Disasters [APP-064]	All emergency pressure relief systems for refrigerated storage tanks will be designed in accordance with relevant industry standards.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that safe storage is adequately demonstrated. COMAH Regulations: The COMAH Safety Report would only be approved by the Competent	Operation	The application for the Environmental Permit and the COMAH Safety Report will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit) Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)







Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
			Authority once they are confident that any required safety systems are in place.				
EMB-MAD5	Chapter 22: Major Accidents and Disasters [APP-064]	The ammonia storage tank will be the subject of a Best Available Technology ("BAT") assessment, being carried out by a specialist to determine the most appropriate design.	Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that BAT is adequately demonstrated for the ammonia storage tank.	Operation	The application for the Environmental Permit will define the monitoring proposed to ensure safe operation of the ammonia and hydrogen storage.	Air Products	Environment Agency (Environmental Permit)
EMB-MAD6	Chapter 22: Major Accidents and Disasters [APP-064]	The design of the Project has followed the Construction Design Manual Regulations, including the preparation of a risk register.	The construction phase plan for the Construction design and Management regulations Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction Operation	N/A	ABP Air Products Contractor	Health and Safety Executive NELC
Standard Mitig	gation						•
SRD-MAD1	Chapter 22: Major Accidents and Disasters [APP-064]	The Contractor will develop a Construction Phase Plan in accordance with the CDM Regulations.	The CDM construction phase plan for the Construction design and Management regulations Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction	As defined in the CDM plan Any monitoring would be defined in the Final CEMP(s) and any appended plans	Contractor Air Products	Health and Safety Executive NELC MMO (for marine aspects of Work No. 1)
SRD-MAD2	Chapter 22: Major Accidents and Disasters [APP-064]	The operator will follow guidance set out in the COMAH Safety Report, considering, but not limited to the following risk events: Contact with high voltage electricity; Contact with underground gas main or UXO; A construction incident such as structural collapse; Fire; Explosion/ energy release; Release of toxic gas; Incident(s) associated with jetty and marine operations; Storms, flooding and climate change.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place. Safety precautions and risk assessment in compliance with Health and safety at work act	Operation	N/A	Air Products	Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)

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Deleted: [REP5-004]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation
SRD-MAD3	Chapter 22: Major Accidents and Disasters [APP-064]	The Contractor will produce a CEMP based on the Outline CEMP [TR030008/APP/6.5 (8)] which will set out how construction measures and activities will be managed and controlled.	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1 (9)]	Construction	Any monitoring would be defined in the Final CEMP(s) and any appended plans	Contractor	NELC MMO (for marine aspects of Work No. 1)
SRD-MAD4	Chapter 22: Major Accidents and Disasters [APP-064]	The Contractor will use protocols to develop Safety Systems of Works for activities undertaken in the vicinity of high-pressure gas transmission and high voltage electricity transmission systems.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Construction	Any monitoring defined in risk assessment or CDM construction plan	Contractor	Health and Safety Executive and Environment Agency [joint Competent Authorities for COMAH]
SRD-MAD5	Chapter 22: Major Accidents and Disasters [APP-064]	The Operator will follow the requirements contained in the Hazardous Substance Consent, the COMAH Safety Report, the Environmental Permit and the pipeline MAPD.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place. Environmental Permit: The Environmental Permit will be granted only once the Environment Agency is confident that appropriate safe systems are in place. Hazardous Substance Consent	Operation	Any monitoring would be defined in the environmental permit or hazardous substance consent	Air Products	Health and Safety Executive and Environment Agency [joint Competent Authorities for COMAH] Environment Agency (Environmental permit) NELC (Hazardous Substance Consent)
SRD-MAD6	Chapter 22: Major Accidents and Disasters [APP-064]	The Contractor will develop a DEMP based on the Outline DEMP [REP5-019] to minimise or avoid potential impacts associated with the decommissioning of green hydrogen production facility. Formal process safety studies and risk assessments would be carried out to identify potential hazards prior to decommissioning and demolition of the hydrogen production facility. This would be detailed in the final DEMP.	Requirement 18 – Scheme of decommissioning of the draft DCO [TR030008/APP/2.1 (9)]	Decommissioning	Any monitoring would be defined in the Final DEMP(s) and any appended plans	Air Products	NELC Environment Agency (Environmental permit)

Deleted: The Contractor will produce a CEMP based on the **Outline CEMP** [REP5-017] which will set out how construction measures and activities will be managed and controlled.

Deleted: [REP5-004]





Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation				
Additional Mit	Additional Mitigation										
ADD-MAD1	Chapter 22: Major Accidents and Disasters [APP-064]	The Contractor will comply with the measures in the COMAH Safety Report.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems are in place.	Operation	N/A	Contractor Air Products	Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)				





Table 18: Socio-economics

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible party	Responsible Regulatory Organisation	
Embedded Mit	igation							
EMB-SE1	Chapter 23: Socio- economics [APP- 065]	Provision of a temporary diversion for public bridleway 36 maintaining access during the first phase of construction.	The diversion bridleway is secured by Article 13 of the draft DCO [TR030008/APP/2.1 (9)]	Construction	N/A	Contractor	NELC	Deleted: [REP5-004]
EMB-SE2	Chapter 23: Socio- economics [APP- 065]	Residents along Kings Road would be notified via a letter drop of the timings, duration and details of any works to	Requirement 6 – Construction Environmental Management Plan of the draft DCO TR030008/APP/2.1	Construction	N/A	Contractor	NELC	Deleted: [REP5-004]
		utilities along Kings Road.	(9)]					
EMB-SE3	Chapter 23: Socio- economics [APP- 065]	Discussions with any likely affected businesses regarding any implications for the safety planning of their operations.	COMAH Regulations: The COMAH Safety Report would only be approved by the Competent Authority once they are confident that any required safety systems can be put in place.	Operation	N/A	Air Products	Health and Safety Executive and Environment Agency (joint Competent Authorities for COMAH)	
EMB-SE4	Chapter 23: Socio- economics [APP-	Permanent cessation of residential use of the residential properties on Queens	The power to acquire the residential properties is sought by Article 22 of	Operation	N/A	Air Products	NELC	
	065]	Road within the Site Boundary.	the draft DCO TR030008/APP/2.1 (9)]. However, Air Products has been					Deleted: [REP5-004].
			in active discussions with all of the affected owners to acquire the					Deleted: is
			properties on a voluntary basis and has now acquired all the relevant properties. Requirement 14 would secure the permanent cessation of residential use.					Deleted: .

Standard Mitigation

There are no standard mitigation measures for Socio-economics.

Additional Mitigation

There are no additional mitigation measures for Socio-economics.





Table 19: Human Health and Well-being

Reference	Source document	Mitigation	How the mitigation is secured	Phase of Works Construction, Operation or/and Decommissioning	Is monitoring required? Yes/No/N/A Form of Monitoring	Responsible person(s)	Responsible Regulatory Organisation
Embedded Mitig	gation						
EMB-HH1	Chapter 24: Human Health and Well-being [APP-066]	Relevant design and mitigation measures have been identified in the relevant related ES chapters (Chapter 6: Air Quality [APP-048], Chapter 7: Noise and Vibration [APP-049], Chapter 11: Traffic and Transport [APP-053], Chapter 19: Climate Change [APP-061], and Chapter 23: Socioeconomics [APP-065]) No further design and mitigation measures have been identified which are solely related to health and wellbeing.	The measures for the individual topics defined left are secured by the mechanisms described in the relevant Tables above.	No	N/A	N/A	N/A
Standard Mitiga	ation	1	1		1	1	ı

Relevant design, mitigation and enhancement measures have been identified in the relevant related chapters (Chapter 6: Air Quality, Chapter 7: Noise and Vibration, Chapter 11: Traffic and Transport, Chapter 19: Climate Change, and Chapter 23: Socio-economics). No further design, mitigation and enhancement measures have been identified which are solely related to health and wellbeing.

Additional Mitigation

No additional mitigation for Human Health and Well Being.