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17. SCHEDULE OF COMMITMENTS

17.1 Introduction

All mitigation and monitoring measures relating to the construction and operational phases of the Proposed Development are set out in the relevant chapters of this EIAR.

All mitigation which will be implemented during the various phases of the project are presented in Table 17-1 below.

The mitigation proposals in the below format provides an easy to audit list that can be reviewed and reported on during the future phases of the project. The tabular format in which the below information is presented, can be further expanded upon during the course of future project phases to provide a reporting template for site compliance audits.

All monitoring measures which will be implemented during the construction and operational phases of the project are outlined in Table 17-2. All monitoring measures were set out in the relevant chapters of this EIAR. The monitoring proposals are presented in terms of the monitoring requirement, frequency of monitoring and the mechanism for reporting results where applicable. By presenting the monitoring proposals in the below format, it is intended to provide a monitoring schedule that can be reviewed and tracked during all phases of the project to ensure all the required monitoring is completed as required.

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17.2 EIAR Mitigation Measures

Table 17-1 Mitigation measures for the Pre-commencement, Construction, and Operational phases

Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
Pre-Commencement Phase					
MM1	CEMP Section 1 CEMP Section 2.4	Environmental Management	All measures identified in the EIAR, Natura Impact Statement (NIS) and this Construction Environmental Management Plan, which will be finalised subsequent to any permission granted and updated prior to construction will include all mitigation measures identified to be adhered to during the pre-commencement and construction phases of the proposed development. All contractors which will be appointed will have the relevant experience to undertake the works for the construction phase of the Proposed Development. All contractors involved in the construction phase of the Proposed Development will be required to comply with this CEMP and any revisions made to this document.		
MM2	EIAR Section 12 CEMP Section 3.8	Unrecorded Archaeology	The northern area of the Proposed Development site has been subject to significant modern ground disturbance while the southern end remains as a largely undisturbed area of green field pastureland containing areas of bedrock outcrops and waterlogging. The lands have been assessed by a geophysical specialist (Dr. Ger Dowling) and were considered to be unsuitable for an archaeo-geophysical survey due to the presence of areas of prior ground disturbance, undulating terrain with bedrock outcrops, waterlogged conditions and the presence of overhead electricity cables. A programme of archaeological test trenching, under licence by the National Monuments Service, will therefore be carried within the Proposed Development site in advance of the construction phase. This archaeological investigation will also include the compilation of a written and photographic record of the existing field boundaries within the Proposed Development site. In the event that any sub-surface archaeological deposits, features or objects are identified during test trenching, their locations will be recorded and securely cordoned off while the National Monuments Service are notified of the discovery and consulted to determine further mitigation		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			measures, which may entail preservation *in situ* by avoidance or preservation by record through a systematic archaeological excavation. All required mitigation measures will be enacted prior to the operation phase of the Proposed Development and, therefore, no cultural heritage mitigation measures during the operational phase will be required.		
MM3	CEMP Section 4.1	Environmental Management	The main contractor will be required to engage a Construction Manager that will also fulfil the role of Environmental Manager (EM), and to monitor all site works and to ensure that methodologies and mitigation are followed throughout construction to avoid negatively impacting on the receiving environment.		
MM4	CEMP Section 2.3 EIAR Section 4	Site Security	Prior to the commencement of any construction, entrances to the Proposed Development site will need to be fully established with appropriate security gates. Access to the site during construction will be via Altan Road, which connects to the Western Distributor Road to the north of the site. A site construction compound inclusive of a parking area for construction worker's vehicles will be provided within the confines of the site. There will be no parking permitted for any vehicles associated with the Proposed Developments construction phase unless agreed with the local authority prior to works inception. A designated section of the site will be fenced off as the construction compound.		
MM5	CEMP Section 2.3 EIAR Section 5	Health and Safety Traffic Management	› A site-specific Health and Safety Plan will be in place for the proposed site. All site staff will be made aware of and adhere to the Health and Safety Plan. › Operate a Site Induction Process for all site staff, › Ensure all site staff will have current Construction Skills Certification Scheme (CSCS) training or 'Safe Pass' cards, › Site hoarding will include Health and Safety warnings at appropriate intervals. › Fire extinguishers and first aid supplies to be available in the work area. › All adjacent roadways will be maintained in clean condition at all times. › Appropriate Personal Protective Equipment (PPE) to be worn at all times. › Biometric turnstiles will be used at the site to prevent unauthorised access to the site.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
MM6	CEMP Section 3.7 EIAR Section 15	Traffic Management	› A Traffic Management Plan (TMP) for the construction stage will be developed and agreed with GCC prior to the commencement of works.		
MM7	CEMP Section 3 EIAR Section 6	Bat Roost Loss Bat Roost Protection	A pre-commencement survey is recommended on each of the structures to assess the buildings prior to any works. The function of this survey will be to assess any changes in baseline environment since the time of undertaking the survey in 2023, 2024 and 2026. Eleven trees identified as PRF-I are proposed for removal. While no roosting bats were recorded within any of the trees identified as PRF-Is, given the transient nature of tree roosts and in recognition of the fact that bats are a mobile species, a pre-commencement survey, at the appropriate time of year, will be undertaken on trees to be felled/pruned with suitable potential roost features, by a qualified ecologist to ensure there are no roosting bats. The requirement for a pre-commencement survey does not represent a lacuna in the survey assessment but is fully in line with industry best practice. The function of this survey will be to assess any changes in baseline environment since the time of undertaking the surveys in 2023, 2024 and 2026. If a bat roost is identified within any of the trees to be removed/pruned, a bat derogation licence will be obtained from the NPWS, prior to felling and the felling activity will be supervised by a qualified ecologist.		
Construction Phase					
			Fuel and Oil Control		
MM8	CEMP Section 3 NIS Section 6.2	Water and Ground Protection	› Minimal refuelling or maintenance of construction vehicles or plant will take place on site. Where possible, off-site refuelling will occur at a controlled fuelling station; › On-site re-fuelling will be undertaken using a double skinned bowser or a refuelling truck with spill kits kept onboard; › All oils, fuels, paints and other chemicals will be stored in a secure bunded construction hardstand area. Refuelling and servicing of construction machinery will take place in a		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
	EIAR Section 4, 7 & 8		designated hardstand area which is also remote from any drainage systems. A response procedure will be put in place to deal with any accidental pollution events and spillage kits will be available and construction staff will be familiar with the emergency procedures and use of the equipment; › A temporary drainage system shall be installed prior to the commencement of the construction works; › All works shall be undertaken in accordance with the CIRIA document, 'Control of Water Pollution from Construction Sites, guidance for consultants and contractors' › All plant and machinery will be serviced before being mobilised to site; › No plant maintenance will be completed on site, any broken-down plant will be removed from site to be fixed; › Concrete batching will take place off site, wash down and wash out of concrete trucks will take place off site and any excess concrete is not to be disposed of on site. Pumped concrete will be monitored to ensure there is no accidental discharge. Mixer washings are not to be discharged into surface water drains/sewers; › Discharge from any vehicle wheel wash areas is to be directed to on-site settlement tanks/ponds, debris and sediment captured by vehicle wheel washes are to be disposed off-site at a licensed facility; › Foul drainage discharge from the construction compound will be transported off site to a licensed facility until a connection to the public foul drainage network has been established. › Refuelling and maintenance of construction vehicles or plant will, where practicable, be undertaken off-site. Where on-site re-fuelling is required, it will be undertaken using appropriately designed double-skinned bowser or a refuelling truck equipped with response spill kits; › All oils, fuels, paints and other chemicals will be stored in a secure bunded construction hardstand area. Refuelling and servicing of construction machinery will take place in a designated hardstand area which is also remote from any drainage systems. A response procedure will be put in place to deal with any accidental pollution events and spillage kits will be available and construction staff will be familiar with the emergency procedures and use of the equipment; › A temporary drainage system shall be installed prior to the commencement of the construction works;		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			➢ All works shall be undertaken in accordance with the CIRIA document, 'Control of Water Pollution from Construction Sites, guidance for consultants and contractors' ➢ All plant and machinery will be serviced before being mobilised to the site; ➢ No plant maintenance will be completed on site, any broken-down plant will be removed from the site to be fixed; ➢ Concrete batching will take place off-site, wash down and wash out of concrete trucks will take place off-site, and any excess concrete is not to be disposed of on-site. Pumped concrete will be monitored to ensure there is no accidental discharge. Mixer washings are not to be discharged into surface water drains/sewers; ➢ Discharge from any vehicle wheel wash areas is to be directed to on-site settlement tanks/ponds, debris and sediment captured by vehicle wheel washes are to be disposed of off-site at a licensed facility; ➢ Foul drainage discharge from the construction compound will be transported off-site to a licensed facility until a connection to the public foul drainage network has been established.		
MM9	CEMP Section 5 NIS Section 6.2 EIAR Section 7 & 8	Hydrocarbon leak/Contamination Emergency Response	➢ Stop the source of the spill and raise the alarm to alert people working in the vicinity of any potential dangers. ➢ If applicable, eliminate any sources of ignition in the immediate vicinity of the incident ➢ Contain the spill using the spill control materials, track mats or other material as required. Do not spread or flush away the spill. ➢ If possible, cover or bund off any vulnerable areas where appropriate such as drains or sensitive habitats. ➢ If possible, clean up as much as possible using the spill control materials. ➢ Contain any used spill control material and dispose of used materials appropriately using a fully licensed waste contractor with the appropriate permits so that further contamination is limited. ➢ Notify the Environmental Manager immediately giving information on the location, type and extent of the spill so that they can take appropriate action. ➢ The Environmental Manager will inspect the site and will assist by providing any advice possible to ensure the necessary measures are in place to contain and clean up the spill and prevent further spillage from occurring. ➢ The Construction Manager will notify the appropriate regulatory body such as GCC and EPA etc. if deemed necessary.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			Prevention Pollution Control Measures		
MM10	CEMP Section 3 NIS Section 6.2 EIAR Section 4, 7 & 8	Protecting Water Quality	› There are no watercourses on site and surface water will not be directly discharged into any external waterbodies, surrounding land, or adjacent roadways. Any run-off generated on-site will undergo the necessary filtration process as previously outlined in Section 3.1. › The works will be managed to ensure there will be no silt-laden run-off beyond the site boundary. This will be achieved through the use of appropriate excavation techniques during the initial construction works. Where necessary, silt fencing will be installed downslope of the construction areas, particularly where drains or drainage pathways are present. These measures will serve as a protective measure to contain silt material within the site. › Any requirement for temporary fills or stockpiles will be damped down or covered with polyethylene sheeting as required to avoid sediment release associated with heavy rainfall. › Excavations will be carried out using a suitably sized excavator and, in all circumstances, excavation depths and volumes will be minimised where practically possible. › Excavated spoil will be stockpiled and contained entirely within the confines of the site boundaries. Any stockpile areas will be surrounded with silt fencing, if deemed necessary to prevent runoff. › The minimum number of soil/subsoils and bedrock material should be removed from site. Soil may be reused for landscaping elsewhere on the site. However, any excess construction material shall be removed from the area and sent to an authorised waste recovery facility for reuse or disposal. › Works shall not take place at periods of high rainfall and shall be scaled back if or suspended if heavy rain is forecast during excavation works. › High rainfall' is defined as follows: › >10 mm/hr (i.e. high intensity local rainfall events); › >25 mm in a 24-hour period (heavy frontal rainfall lasting most of the day); › In the event of encountering groundwaters during excavation, groundwater will be pumped out of the excavation using a pump equipped with a silt bag on the discharge pipe, if necessary, to capture any silty material prior to subsequent natural percolation to ground. The area surrounding the silt bag will be surrounded by silt fencing if deemed necessary. › No wastewater will be discharged on-site during the construction phase. Toilet facilities will be provided in a prefabricated sanitary unit which will be placed in the construction compound.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			This unit will have an enclosed wastewater holding tank which will be fitted with a fill level alarm and will be emptied on an as needed basis by the appropriately licensed contractor. › Good construction practices will be implemented at the site. This will ensure minimal risk. The Construction Industry Research and Information Association (CIRIA) provides guidance on the control and management of water pollution from construction sites, as outlined in Control of Water Pollution from Construction Sites, guidance for consultants and contractors (CIRlA, 2001). This guidance will be adhered to throughout the construction phase to ensure that surface water generated on site contains minimum sediment. › Concrete batching will take place off-site; › Wash down and wash out of concrete trucks will take place off-site; › Excess concrete will not be disposed of on-site; › Fresh concrete will be monitored to ensure that there is no accidental discharge; and › Mixer washings will not be discharged into surface water drains or sewers.		
			Air Quality and Dust Control		
MM11	CEMP 3 NIS Section 6.2 EIAR Section 4 & 9	Air and Dust Mitigations	The following measures are included in the Chapter 9 of this EIAR and the CEMP (Appendix 4-1) and will be enforced to ensure that dust and vehicle emission nuisance during the construction phase beyond the site boundary is minimised: › A detailed haulage plan will be put in place to ensure minimal impact on the surrounding road network. Spoil removal from site will be kept to a minimum with a detailed site survey completed to ascertain where spoil can be distributed on the site. › All deliveries and removals will be subject to stringent site rules governing the loading / off-loading times, location of loading / off loading, covering of loads and cleaning of vehicles exiting the site, etc. › Delivery loads to and from the site and management of large deliveries on site to occur outside of peak periods. › No vehicle will be allowed to stop or park on the access road to the Proposed Development site.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			• Ample parking will be provided within the site to cater for the staff and visitors during the construction phases of the proposed development. • Construction traffic will be managed and scheduled to ensure no queueing occurs on either the internal road system or the main approach roads. The provision of an on-site vehicle staging area will facilitate waiting vehicles. • Routine sweeping/cleaning of the road and footpaths in front of the site; and • No uncontrolled runoff to the public road from dewatering/pumping carried out during construction activity. • Any site roads with the potential to give rise to dust will be regularly watered, as required, during dry and/or windy conditions. • The designated public roads outside the site and along the main transport routes to the site will be regularly inspected by Site Management for cleanliness and cleaned as necessary. • Material handling systems and material storage areas will be designed and laid out to minimise exposure to wind. • Water misting or bowsers will operate on-site as required to mitigate dust in dry weather conditions. • The transport of soils or other material, which has significant potential to generate dust, will be undertaken in tarpaulin-covered vehicles where necessary. • All vehicles leaving the construction areas of the site will rinse their wheels at a designated wheel wash area prior to entering the local road network. • All construction related traffic will have speed restrictions on un-surfaced roads to 15 kph. • Daily inspection of construction sites to examine dust measures and their effectiveness. • If deemed necessary, sections of the approach road will be swept using a truck mounted vacuum sweeper. • It is proposed to carry out dust monitoring at the site during the construction phase. Monitoring will be carried out quarterly using the Bergerhoff method. This monitoring will ensure that the mitigation measures outlined above are functional and being implemented. A map of the proposed monitoring locations is shown in the CEMP in Appendix 4-1.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			› A complaints log will be maintained by the construction site manager and in the event of a complaint relating to dust nuisance, an investigation shall be initiated		
MM12	CEMP Section 3 EIAR Section 10	Reducing Emissions	**Mitigation by Design:** › The structural design ensures service routes and risers can be incorporated with minimal structural complication leading to reduced impact from future usage changes; › Externally the project will use recycled material for non-structural concrete frame elements, sub-bases for temporary hard standing, mats or general fill to reduce the impact on new resources will be employed; › Incorporation of Sustainable Drainage (SuDS) features into the drainage design as far as possible; › Where applicable, low carbon intensive construction materials will be sourced and utilised onsite; **General Mitigation:** › Construction staff will be trained how to inspect and maintain construction vehicles and plant to ensure good operational order while onsite, thereby minimising any emissions that arise. The Site Supervisor/Construction Manager will produce and follow a site inspection and machinery checklist which will be followed and updated if/when required; › All construction vehicles and plant will be maintained in good operational order while onsite, thereby minimising any emissions that arise; › When stationary, delivery and on-site vehicles will be required to turn off engines. › Aggregate materials for the construction of the Proposed Development will be obtained from local appropriately authorised quarries local to the site. This will reduce journey distances of the delivery vehicles accessing the site, thereby reducing the amount of emissions associated with vehicle movements; › A Traffic Management Plan (TMP) will be agreed with Galway City Council prior to works commencing on site: › The approved TMP and any revisions thereof will be set up and implemented on site. All necessary signage will be erected in the weeks prior to any works commencing along and on		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			adjacent roads to the Proposed Development giving advance warning to traffic, pedestrians / members of the public; › Areas of excavation will be kept to a minimum, and stockpiling of excavated material will be minimised by coordinating excavation; › All excavated material will be removed to an authorised waste recovery facility or, if suitable, stockpiled and reused for backfilling and landscaping where appropriate; › A CEMP (Appendix 4-1) will be in place throughout the construction phase; › The CEMP (Appendix 4-1) includes a Resource Waste Management Plan (RWMP) which outlines the best practice procedures that will occur during the construction phase relating to waste material; ○ The Proposed Development and the required materials have been designed with the principles of the circular economy in mind; ○ Sustainable and recyclable building materials will be used where possible to allow for a high recycling rate of building materials should they need to be recycled in the future; › Reuse of existing material: ○ Existing underlying gravel material on site to be used in pavement construction where feasible. Externally the project will use: ○ Recycled material for non-structural concrete frame elements, ○ Sub-bases for temporary hard standing ○ Mats or general fill to reduce the impact on new resources; › To reduce construction and demolition waste (C&D waste) disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials the contractor will be required to abide by the Best Practice Guidelines for resource and C&D waste management set out by the EPA (EPA, 2021) and to develop and implement a construction and demolition waste management plan to include: › Waste diversion goals:		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			○ Specify whether materials will be separated or commingled and ○ Describe the diversion strategies planned for the project ○ Provide a final report detailing all major waste streams generated, including disposal and diversion rates; › All oils, fuels, paints and other chemicals will be stored in a secure bunded construction hardstand area; › Refuelling and servicing of construction machinery will take place in a designated hardstand area which is also remote from any drainage system: ○ A response procedure will be put in place to deal with any accidental pollution events and spillage kits will be available and construction staff will be familiar with the emergency procedures and use of the equipment. ○ Refuelling will be completed in a controlled manner using drip trays at all times. › Fuel and chemical stores including tanks and drums will be regularly inspected for leaks and signs of damage; › On-road vehicles to comply to set emission standards; › All non-road mobile machinery (NRMM) to be fitted with appropriate exhaust system and to be regularly serviced; › Haul routes to be hard surfaced and cleaned and appropriate speed limits applied around the site; › The methods of working will comply with all relevant legislation and best practice guidelines in reducing the environmental effects of the works		
			Noise		
MM13	CEMP 3	Reducing Construction Noise	› Construction operations will in general be confined to the periods Monday-Friday 0800-1800 h and Saturday 0900-1300 h. › Hooting will be prohibited onsite. Drivers of plant and vehicles will be instructed to avoiding hooting at all times.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
	EIAR Section 4 & 11		➢ Plant used onsite during the construction phase will be maintained in a satisfactory condition and in accordance with manufacturer recommendations. In particular, exhaust silencers will be fitted and operating correctly at all times. Defective silencers will be immediately replaced. ➢ Queuing of trucks on public roads will be prohibited. ➢ Machinery not in active use will be shut down. ➢ A site representative will be appointed as a liaison officer with the local community. ➢ Any complaints of noise received during the construction phase will be logged in a register, and investigated immediately. Details of follow-up action will be included in the register. ➢ Where it is proposed to import potentially noisy plant to the site, the potential impact of noise emissions will be assessed in advance. ➢ Guidance set out in BS 5228-1:2009 with respect to noise control will be applied throughout the construction phase. ➢ Advance notification will be given to residents immediately outside the site boundary when works are proposed within 50 m of their dwellings.		
Traffic Management					
MM14	CEMP Section 3 EIAR Section 4 & 15	Traffic Management Proposals	➢ Traffic movements will be limited to 07:00 - 19:00 Monday to Friday and 07:00 –14:00 Saturday, unless otherwise agreed in writing with Galway City Council. These are outside of the onsite construction hours and outside of peak traffic hours. ➢ HGV movements will be restricted during peak road network hours (including school hours) from 08:00 – 09:00 and 17:00 – 18:00 Monday to Friday, unless otherwise agreed in writing with Galway City Council. ➢ Pedestrian and cyclist routes are to be maintained throughout the construction phase to ensure safe pedestrian and cyclist access is available. ➢ HGV movements for the proposed project shall be directed away from sensitive areas with site deliveries to be scheduled outside of school drop-off or collection times (i.e., schools, urban centres). ➢ No parking shall be permitted along the access route for unloading or activities that result in blockages of access routes. Such vehicles will be immediately requested to move to avoid impeding the works and traffic on the road network. ➢ Measures to remove queuing of construction traffic on the adjoining road network, including turning space and queuing of convoy HGVs will be provided within the sites.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			› Wheel wash equipment will be used on site to prevent mud and stones from being transferred from the site to the public road network. › Activities generating dust will be minimised where practical during windy conditions. Loads will be covered on arrival and departure from the site, where required.		
			Waste Management		
MM15	CEMP Section 3.10 EIAR Section 4	Resource Waste Management Plan	Waste generated post excavation on site will be managed in the WSA where the various waste components will be segregated into a number of waste categories in accordance with a general waste segregation policy and placed into individual skips. The categories for segregation will include timber, metal, cardboard and plastics. This material will be removed by authorised waste collection contractors for recycling and recovery at appropriately licensed facilities. The remaining volume of waste material which cannot be allocated to any of these four waste streams will be disposed of in a general waste skip. This waste material will be transferred to an appropriately licensed waste disposal/recovery facility by a fully licensed waste contractor where the waste will be further sorted into individual waste streams for recycling, recovery or disposal. This general waste will be subject to constant monitoring by site management to ensure that potential reusable and recyclable material is not being disposed of therein. The on-site canteen will include waste receptacles for dry recyclables and food waste which will eliminate the potential of any waste produced within the canteen being sent to landfill. Other waste mitigation measures which will be implemented at the site are as follows; › All construction phase waste will be collected in skips and the site will be kept tidy and free of debris at all times. › Waste oils and hydraulic fluids will be collected in leak proof containers and removed from the site for disposal or recycling. It is also essential that all empty oil containers and other hazardous wastes will be disposed of in accordance with the requirements of the Waste Management Act, 1996 as amended. › All construction waste materials will be stored within the confines of the site, prior to removal from the site to an appropriately licensed waste facility.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			› A self-contained port-a-loo with an integrated waste holding tank will be used within the confines of the site. This unit will be maintained by the providing contractor and removed from site upon completion of the construction works. › No wastewater will be discharged on-site during the construction phase. Construction waste will arise on the project mainly from excavation and unavoidable construction waste including material surpluses and damaged materials and packaging waste. Appropriate measures will be taken to ensure excess waste is not generated during construction, including; › Ordering of materials will be on an 'as needed' basis to prevent over supply to site. Co-ordination is required with suppliers enabling them to take/buy back surplus stock. › Purchase of materials pre-cut to length to avoid excess scrap waste generated on site. › Request that suppliers use least amount of packaging possible on materials delivered to the site. › Ensuring correct storage and handling of goods to avoid unnecessary damage that would result in their disposal. › Ensuring correct sequencing of operations. › Use reclaimed materials in the construction works. Hazardous waste will be kept separate from all other construction waste to prevent contamination and removed appropriately. In addition to fuel as outlined above, the potentially hazardous wastes that may be generated at the site during the construction include; › Paints including all associated by products. › Glues and solvents. Asphalt materials from roofing products and external paving finishes.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			Biodiversity		
MM16	CEMP Section 3 EIAR Section 6 Landscape Design Report	Habitat Loss	A landscape design report has been prepared by CSR and is provided in Appendix 6-3. In order to mitigate for the loss of scrub, calcareous grassland, hedgerow and treeline the following biodiversity-friendly measures have been proposed. › The use of native species will generally be preferred. However, a complimentary element of non-native species will also be used, where appropriate to achieve particular aims or requirements. › The planting of predominantly pollinator friendly shrub and herbaceous species will integrate the scheme in line with the 'All Ireland Pollinator Plan'. › Significant additional native tree planting mitigates necessary removals and ultimately will significantly increase the sites tree and vegetation cover overtime. › Proposed tree planting includes a selection of native and naturalised trees such as alder, beech, birch, cherry, oak, pine, rowan, sycamore and whitebeam. The use of such trees will provide vertical scale and structure to the landscape over time, as well as ecological benefits. › Approximately 750 linear metres of native hedgerow will be provided. These hedgerows will be composed of species such as hawthorn, holly, blackthorn, elder, crab apple, whitebeam, honeysuckle and dog rose. Considering the quantity of hedgerow being provided compared to that being lost as a result of the Proposed Development, the proposed landscaping will result in a significant net gain in terms of hedgerow habitat post-construction. › Whilst the proposed landscaping does not provide replacement treelines to offset the loss of those currently on site, it does provide for the planting of approximately 360 trees, split between street/garden trees and open space and parkland trees. These trees will comprise of native and non-native species- please refer to the Landscaping plan for full details. Therefore, it is likely that the Proposed Development will result in a net gain in terms of overall number of trees within the site. › Approximately 1,300m2 of wildflower meadow of Irish provenance Short Cut Floral Lawn, sourced from Design By Nature, or equivalent, will be created. A low frequency mowing		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			regime in these areas will reduce the overall volume of regular maintenance in the scheme and contribute to a reduction of carbon footprint. › The proposed landscape plan aims to create a number of linear green corridors suitable for bat feeding and commuting.		
Invasive Species Management					
MM17	CEMP Section 3.9 NIS Appendix 4 EIAR Section 6	Invasive Species Management Plan Mitigation	**Three Cornered Leek** The following management is proposed in relation to Three-cornered Leek: › An ecologist will be on site to supervise the treatment. › The infested area will be marked out with posts and hazard tape prior to any machinery ingress or works within or near this area. › Three-cornered leek can be controlled through chemical means. ○ Chemical treatment is the chosen treatment method. It is advised to treat the plant in-situ and avoid disturbance and the increased risk for spread and dispersal. ○ This plant can be treated with a Glyphosate based chemical herbicide on an annual basis. It is recommended that a Glyphosate-based herbicide will be applied as a spot treatment to individual plants, or by foliar and stem spray in early spring before the plant flowers which typically happens between April and June. It is best to manually break the leaves prior to applying the chemical to ensure it enters the leaf. Follow-up annual treatments are necessary as large numbers of shoots may re-appear the following year as may new seedlings. › The timing of the treatment applied is vital for the eradication of three-cornered leek. The control methods must be implemented in March or April when the leaves of the three-cornered leek are fully formed. Control methods should not be carried out if plants have finished flowering and produced seed (from the		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			outset of May) as the movement of plants at this stage in the plant's cycle can cause a further spread of the invasive species. › Three-cornered leek produces vast amounts of seeds annually and these seeds can persist and remain dormant in the soil for years before germinating. Due to this, a monitoring programme will be established to eradicate the invasive plant where the plants currently exist onsite. Therefore, it is key to undertake the control and treatment measures for a consecutive number of years to eradicate the seed bank and bulbs. The developer will appoint a suitably qualified ecologist to carry out post-construction monitoring for invasive species. The area will be surveyed by an ecologist in March/April, May and again in September for the presence of Three-cornered leek for a minimum of 3 years after the treatment to ensure no further spread is taking place. **Sea Buckthorn** Mechanical/ physical removal of Sea buckthorn controls the spread of the invasive species by either damaging or removing the plant material via physical action, i.e., uprooting, felling, slashing, mowing, grubbing etc. Juvenile Sea buckthorn saplings were previously recorded in close proximity to the Proposed Development boundary and given its proximity it is proposed to eradicate this species from nearby lands on a precautionary basis. It is anticipated that the construction phase will span 3 years and as such it is likely to mature with time, in the absence of control measures being implemented. The recommended treatment methodology for Sea buckthorn includes; › Any juvenile new shoots of Sea buckthorn will be removed by hand pulling or manual removal using hand tools. The plant will be physically cut and dug up from the root either by hand or using an excavator to grub up the plant. › Larger stumps will be cut and the stumps painted with Glyphosate herbicide. › Following clearance of woody material, any necessary excavation of the ground will be undertaken. As sea-buckthorn can readily regenerate from root and rhizomatous material present in soil, any soil arising from areas infested with sea-buckthorn must be contained and disposed of appropriately.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			› The vegetation material can be disposed of by burning or incineration. › If for any reason, burning of plant material is not feasible on-site this material and the soil potentially contaminated within root or rhizome fragments must be gathered and disposed of off-site, to a waste disposal facility that has a pollution prevention and control permit or waste management licence. In order to move material potentially contaminated with Third or First Schedule invasive plant species, a licence is required to be obtained from NPWS. The conditions of the permit or licence of the waste disposal facility must allow the disposal of invasive plants at the site. Delivery should be agreed with the waste site in advance to make sure they can accept material containing invasive plants. When transporting invasive plant material and soil potentially contaminated with invasive plant material, any vehicle used must be covered or securely sheeted so that plant material cannot be accidentally dispersed during transportation.		
Operational Phase					
MM18	EIAR Section 4 EIAR Section 6 CEMP Section 2	Services Installations	Any underground services encountered during the works will be surveyed for level and where possible will be left in place. If there is a requirement to move the service, then the appropriate body (ESB, Gas Networks Ireland, etc.) will be contacted, and the appropriate procedure put in place. Backfill around any utility services will be with dead sand/pea shingle where appropriate. All works will be in compliance with required specifications. A 150mm watermain has been permitted by Galway City Council (Planning Reference 24/60370), which will connect to an existing Uisce Éireann (UÉ) 150mm watermain that runs along the western boundary along the southern arm junction of the adjacent Western Distributor Road roundabout and Altan Road. It is proposed to connect the watermain for the Proposed Development to this permitted development. All wastewater generated from the Proposed Development will outfall, via gravity, to a wastewater network permitted by Galway City Council (Planning Reference 24/60370). From this, the wastewater will discharge to an existing UÉ owned 375mm foul sewer line located west of the Proposed Development along the southern arm junction of the adjacent roundabout and Altan Road.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			The proposed foul network is designed using Causeway Flow Drainage modelling software. Outputs from the foul sewer design, and long sections are attached in Appendix A of the Civil Works Design Report (Appendix 4-3 of the EIAR). The proposed foul sewer network is represented on the engineering drainage drawings which accompany this document as part of the planning submission. As outlined in the accompanying Civil Works Design Report (Appendix 4-3) the proposed storm water drainage infrastructure incorporates the principals of nature-based Sustainable Drainage Systems (SuDS) to manage surface water runoff quantity and quality. The installation of services and connections to the residential units will be carried out as follows: › The area where excavations are planned will be surveyed and all existing services will be identified. › All relevant bodies (i.e., ESB, Gas Networks Ireland, Eir, GCC etc.) will be contacted and all drawings for all existing services sought. › A traffic management plan will be produced if required for connection works to the existing service network. › A road opening licence will be obtained where required for connection to existing services. › All plant operators and general operatives will be inducted and informed as to the location of any services. › A tracked 360-degree excavator or similar will be used to excavate the trench to the required dimensions. › All excavated material will be removed to an authorised waste recovery facility or, if suitable, stockpiled and reused for backfilling and landscaping where appropriate. › Once the trench has been excavated the ducting/pipework will then be placed in the trench as per specification. › Once the service ducts/pipework has been installed couplers will be fitted as required and capped to prevent any dirt etc. entering the ducts/pipes.		

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Mitigation Measure	Reference Location	Reference Heading	Mitigation Measure	Audit Result	Action Required
			› The as-built location of the ducting/pipework will be surveyed using a total station/GPS. › Backfill material will be carefully placed so as not to displace the ducting/pipework within the trench. › The appropriate warning/marker tape will be installed above the ducts/pipes at the appropriate depths. › The surface will be reinstated as per original specification or to the requirements of the site layout/Local Authority as appropriate.		

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17.3 EIAR Monitoring Measures

Table 17-2 Monitoring measures for the Pre-commencement, Construction, and Operational phases

Ref. No.	Reference Heading	Reference Location	Monitoring Measure	Frequency	Reporting Period	Responsibility
Pre-Construction Phase						
MX1	General Construction Measures	EIAR Section 4 CEMP Section 4	The main contractor appointed to carry out the works on site will be required to provide a level of supervision on site in the form of an Environmental Manager who will also fulfil the role of Waste Manager. Due to the scale of activity proposed for the site, this role can be adopted by a Site Manager/Foreman as part of their duties. In general, this Environmental Manager will maintain responsibility for monitoring the works and Contractors/Sub-contractors from an environmental perspective. The Environmental Manager will act as the regulatory interface on environmental matters by reporting directly to the client and liaising with GCC and other statutory bodies as required. The Site Environmental Manager will report to the Site Supervisor/Construction Manager. The duties of the appointed Environmental Manager are summarised as follows: › Maintain and update as required the Construction Phase CEMP and supporting environmental documentation and review/approval of contractor method statements. › Undertake inspections and reviews to ensure the works are carried out in compliance with the CEMP. › Monitor the implementation of the CEMP, particularly all proposed/required Environmental Monitoring. › Identify environmental training requirements and arrange relevant training for all levels of site-based staff/workers.	On going	Monthly	Site Contractor/Environmental Manager
MX2	Ecological Monitoring	EIAR Section 6	**Bats**			

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Ref. No.	Reference Heading	Reference Location	Monitoring Measure	Frequency	Reporting Period	Responsibility
		CEMP Section 3	The new bat boxes will be inspected annually under licence to monitor uptake and their condition. **Third Schedule Invasives** Ongoing monitoring will be required within the Proposed Development site for all invasive species listed on the Third and First Schedules with suitable follow-up management implemented, in order to control new growth or re-establishment within the infested areas. Following the initial removal, treatment and completion of the development, the treated areas will be re-surveyed annually and if necessary, re-treated until no growth of Three-cornered leek or Sea buckthorn is recorded for two consecutive years. If Three-cornered Leek or Sea buckthorn are found to be re-establishing, they shall be treated as per the measures outlined above and in Section 4 of the ISMP.			
MX3	Archaeological Monitoring	CEMP Section 3 EIAR Section 12	There are a number of obligatory processes to be undertaken as part of applications to the National Monuments Service for licences to carry out archaeological test trench excavations and these will allow for monitoring of the successful implementation of the mitigation measures. A detailed method statement stating the proposed strategy for the site investigations will accompany the submitted licence application which will clearly detail the extent of the archaeological works and outline the processes to be enacted in the event that any archaeological features are encountered. Reports on the archaeological site investigations will then be submitted to the National Monuments Service, the National Museum of Ireland and the Planning Authority which will clearly describe the results of all archaeological works in written, mapped and photographic formats.	Once		Site Contractor/Project Archaeologist

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Ref. No.	Reference Heading	Reference Location	Monitoring Measure	Frequency	Reporting Period	Responsibility
Construction Phase						
MX4	Air Quality and Dust Control	CEMP Section 3 EIAR Section 4 & 8	It is also proposed to carry out dust monitoring at the site during the construction phase. Monitoring will be carried out quarterly using the Bergerhoff method. This monitoring will ensure that the mitigation measures outlined above are functional and being implemented. A complaints log will be maintained by the construction site manager and in the event of a complaint relating to dust nuisance, an investigation shall be initiated. A sample Complaints Form is included in the CEMP.	Quarterly	As Necessary	Environmental Manager
MX5	Plant and Equipment Inspections	CEMP Section 4 EIAR Section 4	All vehicles will be suitably serviced and maintained to avoid any leaks or spillage of oil, petrol or diesel. Fuel and chemical stores including tanks and drums will be regularly inspected for leaks and signs of damage. Where processes could potentially give rise to significant levels of vibration, on-site vibration levels should be monitored regularly by a suitably qualified person appointed specifically for the purpose, particularly if changes in machinery or project designs are introduced. A method of vibration measurement should be agreed prior to commencement of site works.	As Required	Monthly	Environmental Manager
MX6	Traffic and Transport	CEMP Section 3 EIAR Section 4	The designated public roads outside the site and along the main transport routes to the site will be regularly inspected for cleanliness, and cleaned as necessary.	Daily	Monthly	Environmental Manager