
Preliminary Construction Environmental Management Plan

Development:

Upgrade Works to Garrykennedy Inner
Harbour, Garrykennedy, Co. Tipperary

Client:



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Date of Report:

24th June 2025

Project Ref. No.:

24152

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Document Control

Producer:	Date:	Reviewer:	Date:	Approver:	Date:	Revision Status:
R.Power	24/06/2025	J.Reidy	24/06/2025	A.Dennany	24/06/2025	1
R.Power	04/07/2025	J.Reidy	04/07/2025	A.Dennany	04/07/2025	2
R.Power	10/07/2025	J.Reidy	10/07/2025	A.Dennany	10/07/2025	3

1.0 Proposed Works

This Preliminary Construction Management Plan is for the works associated with the upgrade of the Inner Harbour and extension to the existing welfare building at Garrykennedy, Co. Tipperary. An overview of the proposed development is:

- Clearance of the Inner Harbour including removal of abandoned boats.
- Addressing safety concerns in relation to the existing boardwalk by removal of existing and replacement with modern floating pontoons for 47No small boat berths that include facilities to enable wheelchair users to access the water.
- Extension to existing welfare building to provide “changing places” facility.
- Alterations to existing parking to facilitate 4No. recreational vehicle parking spaces with power & water points and updated accessible parking.
- Provision of bike parking / charging facilities.



Figure 1 – Existing Site Plan

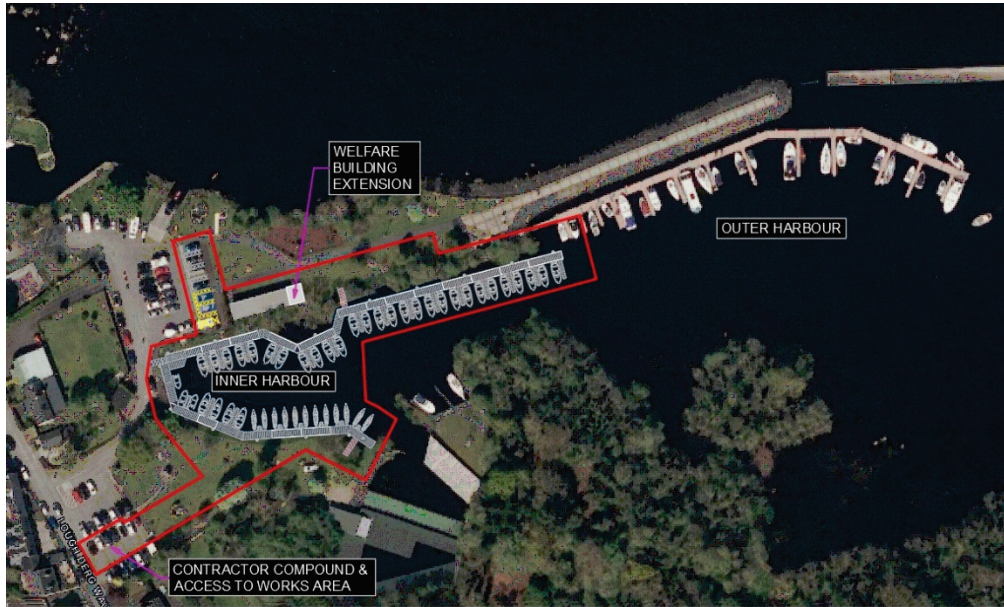


Figure 2 – Proposed Site Plan

The construction management issues addressed within this plan include the following:

- Health and Safety
- Working Hours
- Traffic Management
- Stripping of Topsoil and Excavation of Subsoil
- Erosion and Sediment Control
- Accidental Spills and Leaks
- Biodiversity
- Construction Waste Management
- Noise and Vibration
- Air Quality and Dust Control
- Landscape and Visual Impact
- Material Assets – Site Services
- Site Compound Facilities and Parking

This Preliminary Construction Environmental Management Plan shall be referenced in all tender and contract documentation for the proposed works and is to be read in conjunction with all relevant Engineering and Architectural documentation.

2.0 Compliance With General Safety Requirements

The Contractor shall be responsible for overall management of the site for the duration of the proposed works and must progress their works with reasonable skill, care, diligence and to proactively manage the works in a manner most likely to ensure the safety and welfare of those carrying out construction works.

The Contractor shall comply with all relevant Statutory requirements such as the 2005 Safety Health and Welfare at Work Act, The Construction Regulations (SI 291 of 2013), the General Application Regulations (SI 299 of 2007), etc. (and any amendments thereof).

In addition, the Contractor shall comply with all the reasonable safety requirements of the Client, the Project Supervisor for the Design Process and the Project Supervisor for the Construction Stage as well as providing all staff with a site-specific safety induction and appointment of a safety officer.

3.0 Working Hours

For the duration of the proposed infrastructure works, the maximum working hours shall be 07:00 to 19:00 Monday to Friday (excluding bank holidays) and 09:00 to 13:00 Saturdays, subject to the restrictions imposed by the Local Authority.

No working will be allowed on Sundays and Public Holidays.

Subject to the agreement of the Local Authority, out of hours working may be required for water main connections, foul drainage connections etc.

4.0 Outline Traffic and Transportation Plan

A Traffic Management Plan (TMP) will be prepared for the works in accordance with the principles outlined below:

- Department of Transport Traffic Signs Manual 2010 – Chapter 8 Temporary Traffic Measures and Signs for Roadworks
- Department of Transport Guidance for the Control and Management of Traffic at Road Works (2010)
- Any additional requirements detailed in the Design Manual for Roads and Bridges (DMRB) & Design Manual for Urban Roads & Streets (DMURS)

In general, the impact of the construction period will be temporary in nature and less significant than the operational stage of the proposed development.

Construction Traffic will consist of the following categories:

- Private vehicles owned and driven by site staff and management.
- Construction vehicles e.g., excavation plant, dump trucks
- Materials delivery vehicles involved in site development works.

The following initiatives will be implemented to avoid, minimise and/or mitigate against traffic issues:

- During the pre-construction phase, the site will be securely fenced off/hoarded off from adjacent properties, public footpaths and roads.
- A large proportion of construction workers are anticipated to arrive in shared transport. It is likely that some numbers of the construction team will be brought to/from the site in vans/minibuses, which will serve to reduce the trip generation potential.
- On-site employees will generally arrive before 08:00, thus avoiding morning peak hour traffic. These employees will generally depart after 16:00.
- Delivery vehicles to and from the site will be spread across the course of the working day, therefore, the number of HGVs travelling during the peak hours will be relatively low. Queuing of material delivery vehicles will not be permitted on the public roads adjacent to the site.

- Truck wheel washes will be installed at construction entrances and adjacent public roads swept as required.
- Any specific recommendations with regard to construction traffic management made by Tipperary County Council will be adhered to.
- Potential localised traffic disruptions during the construction phase will be mitigated through the implementation of industry standard traffic management measures such as the use of traffic signage. These traffic management measures shall be designed and implemented in accordance with the Department of Transport's Traffic Signs Manual "Chapter 8 Temporary Traffic Measures and Signs for Roadworks" and "Guidance for the Control and Management of Traffic at Roads Works
- Material storage zones will be established in the compound area and will include material recycling areas and facilities.
- 'Way finding' signage will be provided to route staff / deliveries into the site and to designated compound / construction areas.
- On completion of the works, all construction materials, debris, temporary hardstands etc. from the site compound will be removed off-site and the site compound area reinstated in full on completion of the works.

5.0 Soils and Geology

Extension works to the welfare building will include stripping of topsoil and excavation of subsoil layers. These activities have potential to expose the soils and geological environment to pollution.

The contractor shall obtain approval of their proposed erosion and sediment control measures from Tipperary County Council's Environment Section prior to commencing works on site.

The following measures are to be implemented in order to mitigate against such risks.

Stripping of Topsoil

- Stripping of topsoil will be carried out in a controlled and carefully managed way.
- At any given time, the extent of topsoil strip (and consequent exposure of subsoil) will be limited to the immediate vicinity of active work areas.
- Topsoil stockpiles will be protected for the duration of the works and not located adjacent to Lough Derg.
- Topsoil stockpiles will also be located so as not to necessitate double handling.

Excavation of Subsoil Layers

- The duration that subsoil layers are exposed to the effects of weather will be minimised.
- Disturbed subsoil layers will be stabilized as soon as practicable (e.g., backfill of drainage trench excavations)
- Stockpiles of excavated subsoil material will be protected for the duration of the works, stockpiles of subsoil material will be located separately from topsoil stockpiles.

Weather Conditions

- Typical seasonal weather variations will also be taken account of when planning stripping of topsoil and excavations with an objective of minimizing soil erosion.

Dust Control

- Dust suppression practices are to be implemented during stripping of topsoil layers and excavation of subsoil layers as outlined in Section 10 of this Preliminary Construction Environmental Management Plan.

6.0 Water and Hydrogeology

The following measures are to be implemented during the construction phase in order to mitigate risks to the water and hydrogeological environment.

Erosion and Sediment Control

- Measures will be implemented to capture and treat sediment laden surface water runoff.
- Surface water runoff from areas stripped of topsoil and surface water collected in excavations will be directed to on-site settlement ponds where measures will be implemented to capture and treat sediment laden runoff prior to discharge of surface water at a controlled rate.
- On-site settlement ponds are to include geotextile liners and rippapped inlets and outlets to prevent scour and erosion.
- Surface water discharge points during the construction phase are to be agreed with Tipperary County Council's Environment Section prior to commencing works on site.

Accidental Spills and Leaks

- All oils, fuels and other chemicals will be stored in a secure bunded hardstand area.
- Refuelling and servicing of construction machinery will take place in a designated hardstand area which is also remote from any surface water inlets (when not possible carry out such activities off site)
- 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.

Concrete

- 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.

Wheel Wash Areas

- Discharge from any vehicle wheel wash areas is to be directed to on-site settlement ponds, debris and sediment captured by vehicle wheel washes are to be disposed off-site at a licensed facility.

7.0 Biodiversity

- Proposed mitigation measures with regard to biodiversity during the construction phase are detailed in the EIA. These mitigation measures are to be incorporated into the detailed Construction Management Plan.

8.0 Construction Waste Management

The principle of 'Duty of Care' in Waste Management Act 1996 (as amended) states that the waste producer is responsible for waste from the time it is generated through to its legal disposal (including its method of disposal). Waste materials generated by earthworks, demolition and construction activities will be managed according to the Department of the Environment, Heritage and Local Government's 2006 Publication – Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects.

Proposed mitigation measures with regard to construction and demolition waste are detailed in Byrne Environmental Consulting Ltd. "Construction Phase Waste and By-Product Management Plan" (included as part of this application) and are to be incorporated into the detailed Construction Management Plan.

The following measures are to be implemented during the construction phase in order to reduce the amount of waste produced, manage the wastes generated responsibly and handle waste in such a manner as to minimise the effect on the environment:

- Copies of the final Construction and Demolition Waste Management Plan will be made available to all relevant personnel on site. All site personnel and sub-constructors will be instructed on the objectives of the Construction Waste Management Plan and informed of their responsibilities.
- The nominated Construction and Demolition Waste Manager responsible for implementation of this Construction Waste Management Plan will be identified prior to construction commencement and will arrange for a waste audit of the project once construction has fully commenced on site (and of any facilities to which waste from the project is delivered as required).
- Building materials will be chosen with an aim to 'design out waste'.
- On-site segregation of non-hazardous waste materials into appropriate categories. All waste material will be stored in skips or other suitable receptacles in a designated area of the site.
- On-site segregation of hazardous waste materials into appropriate categories. Hazardous waste will be separately stored in appropriate lockable containers prior to removal from site by an appropriate waste collection licence holder.
- All wastes segregated at source where possible.
- All waste material will be stored in skips or other suitable receptacles in a designated area of the site.
- Waste bins, containers, skip containers and storage areas will be clearly labelled with waste types which they should contain including photographs as appropriate.
- The site will be maintained to prevent litter and regular litter picking will take place throughout the site.
- Materials will be ordered on a 'just in time' basis to prevent over supply and site congestion (i.e., to minimise materials stored on site).
- Materials will be correctly stored and handled to minimise the generation of damaged materials.
- Left over materials (e.g., timber off-cuts) shall be re-used on site where possible.
- All waste leaving the site will be recycled, recovered or reused where possible.
- All waste leaving the site will be transported by suitable permitted contractors and taken to suitably registered, permitted or licensed facilities.
- All waste leaving the site will be recorded and copies of relevant documentation maintained.
- All site works shall also comply with the requirements of the Construction and Demolition Waste Management Plan prepared by the Main Contractor.

9.0 Noise and Vibration

During the works the contractor shall comply with the requirements of BS 5228-1:2009+A1:2014 and BS 5228-2:2009+A1:2014 (Code of Practice for Noise and Vibration Control on Construction and Open Sites) as well as Safety, Health and Welfare at Work (General Application) Regulations 2007, Part 5 Noise and Vibration.

In particular, the following practices are to be implemented during the construction phase:

- Limiting the hours during which site activities that are likely to create high levels of noise and vibration are permitted.

- Erection of a barrier (e.g., Standard 2.4m high construction hoarding) to remove direct line of sight between noise source and receiver when construction works are being carried out in proximity to noise sensitive receivers.
- Establishing channels of communication between the contractor, local authority and residents.
- Appointing a site representative responsible for matters relating to noise.
- A noise and vibration monitoring specialist will be appointed to periodically carry out independent monitoring of noise and vibration during random intervals and at sensitive locations for comparison with limits and background levels.
- Selection of plant with low inherent potential for generation of noise.
- Siting of noisy plant as far away from sensitive properties as permitted by site constraints and implementation of noise reduction measures such as acoustic enclosures.
- Avoid unnecessary revving of engines and switch off plant when idle.
- All vehicles and mechanical plant used for the purpose of the works shall be fitted with effective exhaust silencers and shall be maintained in good and efficient working order. In addition, all diesel engine powered plant shall be fitted with effective air intake silencers.
- All ancillary pneumatic percussive tools shall be fitted with mufflers or silences of the type recommended by the manufacturers, and where commercially available, dampened tools and accessories shall be used.

Noise Limits

Noise Limits to be applied for the duration of construction works are as set out in the Transportation Infrastructure Ireland (TII) Guidelines for Treatment of Noise and Vibration in National Roads Schemes (summarised below in Figure 2) and BS 5228-1:2009+A1:2014 (Code of Practice for Noise Control on Construction and Open Sites).

Date ^a	Noise Level (dB re 2x10 ⁻⁵ Pa) ^a	
	$L_{Aeq}(1hr)^a$	L_{Amax}^a
Monday to Friday 07:00 to 19:00hrs ^a	70 ^a	80 ^a
Monday to Friday 19:00 to 22:00hrs ^a	60 ^a	65 ^a
Saturdays 08:00 to 16:30hrs ^a	65 ^a	75 ^a
Sundays & Bank Holidays 08:00 to 16:30hrs ^a	60 ^a	65 ^a

Figure 3 - TII Guidelines for Maximum Permissible Noise Levels at the Façade of Dwellings During Construction

BS 5228 applies a noise limit of 70 dBA between 07:00 am and 19:00 pm outside the nearest window of the occupied room closest to the site boundary in suburban areas away from main road traffic and industrial noise.

For the duration of construction works, a daytime noise limit (07:00 am to 19:00 pm) of 70 dBA shall apply (in accordance with the requirements of BS 5228 and generally in agreement with the TII guidelines).

Vibration Limits

Vibration Limits to be applied for the duration of construction works are as set out in BS 5228-2:2009+A1:2014 (Code of Practice for Vibration Control on Construction and Open Sites) and BS 7385: 1993 (Evaluation and measurement for vibration in buildings Part 2: Guide to damage levels from ground borne vibration). Allowable vibration during the construction phase is summarised below in Figure 3.

Allowable vibration (in terms of peak particle velocity) at the closest part of sensitive property to the source of vibration, at a frequency of:-		
Less than 15Hz	15 to 40Hz	40Hz and above
12 mm/s	20 mm/s	50 mm/s

Figure 4 - Allowable Vibration

10.0 Air Quality and Climate

The primary air quality impact during the construction phase relates to nuisance dust emissions.

The following dust suppression practices are to be implemented during the construction phase:

- The Contractor shall prepare a dust minimisation plan (including a documented system for managing site practice with regard to dust and specification of effective measures to deal with any complaints received) which shall be communicated to all site staff.
- Hard surface roads will be swept to remove mud and aggregate materials from their surface while any un-surfaced roads will be restricted to essential site traffic.
- Any road that has the potential to give rise to fugitive dust must be regularly watered, as appropriate, during dry and/or windy conditions.
- Vehicles using site roads will have their speed restricted, and this speed restriction must be enforced rigidly (on any un-surfaced site road, this will be 20 kph and on hard surfaced roads as site management dictates)
- Vehicles delivering material with dust potential (soil, aggregates etc.) will be enclosed or covered with tarpaulin at all times to restrict the escape of dust.
- Public roads outside the site will be inspected on a daily basis for cleanliness and cleaned as necessary.
- Debris, sediment, grit etc. captured by road sweeping vehicles is to be disposed off-site at a licensed facility.
- Vehicles exiting the site shall make use of a wheel wash facility where appropriate prior to entering onto public roads.
- Material handling systems and site stockpiling of materials will be designed and laid out to minimise exposure to wind. Water misting or sprays will be used as required if particularly dusty activities are necessary during dry or windy periods.
- During movement of materials both on and off-site, trucks will be stringently covered with tarpaulin at all times. Before entrance onto public roads, trucks will be adequately inspected to ensure no potential for dust emissions.

Monitoring of dust deposition levels (via the Bergerhoff method) shall take place at a number of locations at the site boundary of the proposed development to ensure that dust nuisance is not occurring at nearby sensitive receptors. This monitoring aims to ensure that the dust mitigation measures outlined above remain effective.

11.0 Landscape and Visual Impact Assessment

Proposed construction phase mitigation measures are summarised below:

- Site hoarding will be erected to restrict views of the Construction activity e.g., standard 2.4m high construction hoarding.

- Establishment of tree protection measures as required (no-dig construction zones, tree protection fencing and existing hedgerow retention). Any trees which are not to be taken down shall remain undisturbed and undamaged.
- Tree protection fences if required are to be constructed in accordance with BS 5837:2012 “Trees in Relation to Design, Demolition and Construction - Recommendations”.
- A ‘Construction Exclusion Zone’ notice shall be placed on tree protection fencing at regular intervals.
- Tree Protection Zones are not to be used for car parking, storage of plant, equipment or materials.
- A post construction re-assessment of any retained trees shall be carried out.

12.0 Material Assets: Site Services

Existing Underground Services

- The location of all existing underground services are to be confirmed by the contractor prior to commencing any works on site.

Existing Overhead Services

- Existing overhead ESB lines are located on the approach of the site entrance. For works in the vicinity of existing overhead electrical lines refer to ESB’s Code of Practice for Avoiding Danger from Overhead Electrical Lines

13.0 Site Compound Facilities and Parking

The exact location of the construction compound is to be confirmed in advance of commencement of the works but will likely be located in the existing hardstanding carpark adjacent to the works area (to be agreed with Tipperary County Council).

The location of the construction compound may be relocated during the course of the works.

- The construction compound will include adequate welfare facilities such as washrooms, drying rooms, canteen and first aid room as well as foul drainage and potable water supply.
- Foul drainage discharge from the construction compound will be tankered off site to a licensed facility until a connection to the public foul drainage network has been established.
- The construction compound’s potable water supply shall be protected from contamination by any construction activities or materials.
- The construction compound will be enclosed by a security fence.
- Access to the compound will be security controlled and all site visitors will be required to sign in on arrival and sign out on departure.
- A permeable hardstand area will be provided for staff carparking.
- A separate permeable hardstand area will be provided for construction machinery and plant.
- The construction compound will include a designated Construction material recycling area.
- A series of way finding signage will be provided to direct staff, visitors and deliveries as required.
- All construction materials, debris, temporary hardstands etc. in the vicinity of the site compound will be removed off-site on completion of the works.

14.0 EIAR Mitigation Measures – Construction Stage

Please refer to ecology reports prepared by Ross Swift Ecology Ltd. for required mitigation measures.