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meath county council

MEATH LOCAL AUTHORITIES

Construction Environmental Management Plan (CEMP) For Burial Ground Development at Loganstown, Trim, Co. Meath



Site Bounded in **Red**

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1) Introduction

This Construction Management Plan (CMP) has been prepared to address the procedures, sequencing and Construction methodology anticipated by the Project Team engaged in the planning, liaison, and Construction of the proposed burial ground development at Loganstown, Trim, Co. Meath. The plan outlines the approach to the construction, environmental and traffic management measures to be adopted during Construction.

It is also designed to be a live document which will eventually address how any planning conditions imposed on the project will be managed or discharged by the Construction team.

The CMP incorporates 3 main elements:

1. Overall approach to the development.
2. Environmental management considerations.
3. Traffic management considerations

1.1 Project Team

Organisations	
Client	Meath County Council
Engineering	Meath County Council
Ecological Consultants	Noreen McLoughlin
Hydrological Consultants	Dr. Robert Meehan
Quantity Surveyor	To be determined
Contractor	To be determined

1.2 Programme & Phasing

The project will be completed in 1 phase. The commencement date will be outlined following finalisation of the Part 8 Planning Process and will be agreed with the main contractor.

1.3 Working Hours

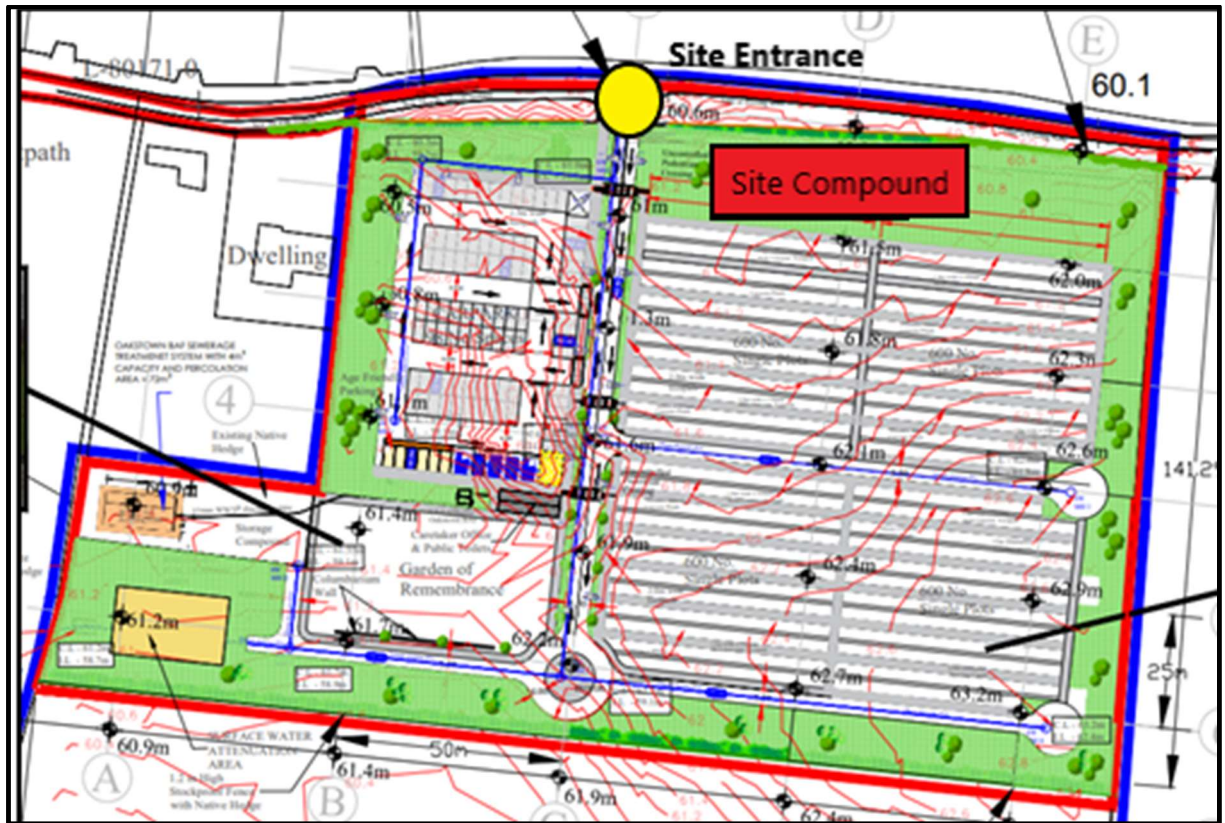
Except where otherwise agreed with Meath County Council (MCC), working hours will be: 08:00 – 19:00 Monday to Friday and 08:00 – 14:00 Saturday
Closed on Sundays & Bank Holidays.

1.4 Pre-Start Survey

A pre-Start Survey of the works will be carried out prior to the works commencing. This will consist of a photographic aided report on the existing environment including; existing underground & over ground services, boundaries, footpaths, roads, access points, fence lines, kerb lines, street furniture and road signs. The findings of the survey will be documented and stored by the Contractor

1.5 Construction Site Compounds, Parking, Accommodation, Welfare & Storage

The Main project offices shall be established within the site area including welfare facilities for operatives on the site. These facilities may initially be mobile to facilitate the operation & movement of plant.



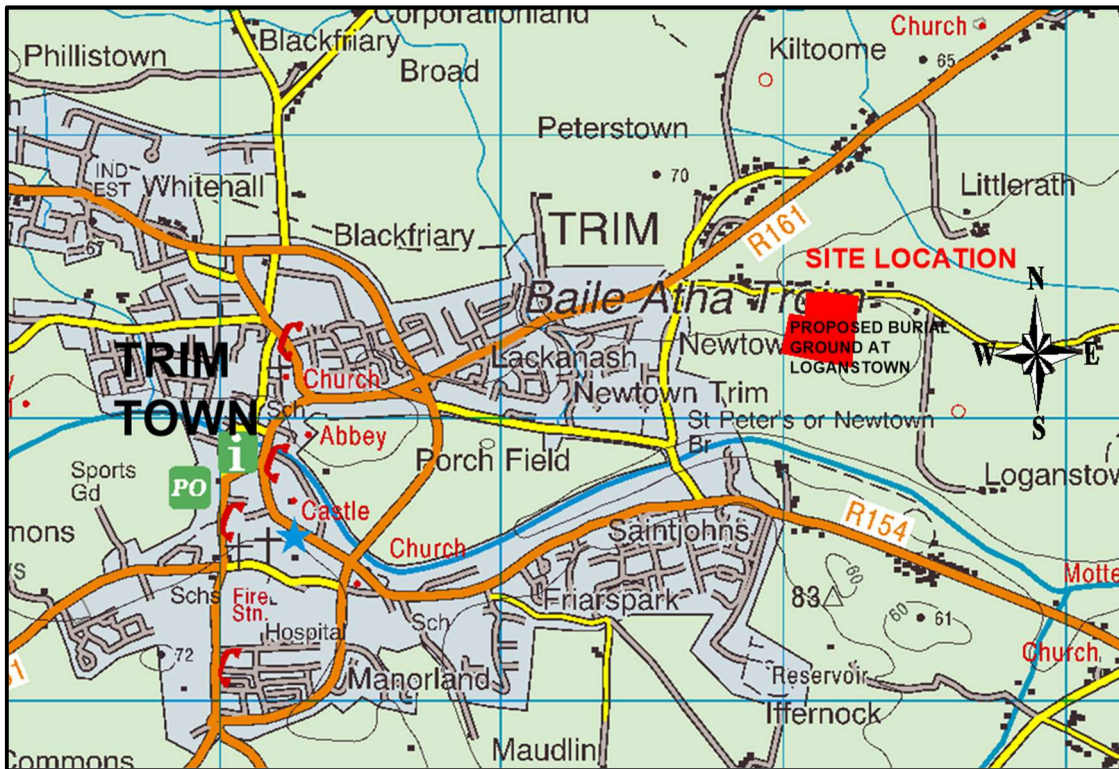
2) Project Overview

2.1 Scope of Work

The proposed development will consist of:

The construction of 2400 single plot Burial Ground for coffins, a Burial Garden for the interment of ashes in Columbarium Walls and a garden of remembrance, the construction of a caretaker building incorporating public toilets, a O'Reilly Oaktown BAF wastewater treatment System and percolation area in addition to public lighting a new entrance onto the public road and all ancillary services. It is also intended to construct a 2m wide footpath for approximately 500 metres on the public road from the entrance to the proposed Burial Ground with the Junction of the Trim to Navan Regional Road.

2.2 Site Location



2.2.1 Neighbours

The boundaries of the site are formed as follows:

- To the North – 3.2m wide local Road with Agricultural Land
- To the East - Single dwelling & Agricultural Land.
- To the West – Single dwelling & Agricultural Land
- To the South – Agricultural lands.

The Contractor will establish contact with Meath County Council, Trim Municipal District & the various residents, landowners and other local representatives to raise awareness of the project.

The site Construction Manager will deal with any queries and provide immediate response to any issues raised. It is proposed to hold periodic meetings on site to explain the works anticipated during the Construction period and how these will impact upon the neighbours.

Special consideration will be given to accommodate where possible any special requirements arising from activities within the local area.

The site will be secured by a steel Palisade Gate and Harris fence hoarding which will be adjusted as necessary. The hoarding will be maintained to a high standard throughout the progress of the project. Measures will be introduced to control work at heights by task specific method statements and proprietary barriers will be erected to protect adjacent properties and pedestrians during construction of the Burial Ground and footpath along the public road.

Pedestrians & cyclists will be catered for via the traffic Management Plan, which will be operated & amended to suit the circumstances the duration of this project.

Truck Movements will take place on Public Road, in consultation with MCC and the local interest groups. Reversing manoeuvres will be minimized, but where required they will be 'Banked' by trained personnel.

Road opening to install utilities will be undertaken at the earliest opportunity. A separate traffic management plan will accompany the licence application. This exercise will be coordinated with the Gardai, the Utilities and the Council to minimize disruption.

2.3 Description of Development

- a) Groundworks
- b) Substructures
- c) Superstructures (Concrete + Timber)
- d) Temporary Works (Scaffolding)
- e) Roofs
- f) Mechanical, Electrical & Plumbing (MEP)
- g) Finishes
- h) Fittings
- i) Materials Handling
- j) Stockpiles
- k) Waste Disposal
- l) Associated Development
- m) Other External Works

3) Overall Approach to Construction Management

3.1 Statutory Requirements

The relevant statutory requirements are listed below:

- The Building Regulations
- The Planning Conditions BCAR requirements
- The Protection of the Environment Act 2003
- Air Quality Standards Regulations 2011
- Waste Management Act 1996 & Associated Regulations
- Traffic Signs Manual & Temporary Traffic Management Requirements (August 2019)

3.2 Standards

The works shall be carried out, as far as is reasonably practicable, in compliance with the following standards:

- British Standard BS:5228 'Noise Control on Demolition & Construction and Open Sites'
- The guidance contained in the BRE publication 'BRE Pollution Control Guide – Controlling particles, vapour and noise pollution from Demolition & Construction sites'
 - Part 1 – 'Pre project planning and effective management'
 - Part 2 – 'Site preparation, demolition, earthworks and landscaping'
 - Part 3 – 'Haulage routes, vehicles and plant'
 - Part 4 – 'Materials handling, storage, stockpiles, spillage and disposal'
 - Part 5 – 'Fabrication processes and internal and external finishes'

The Contractor and All Sub-Contractors will have a working knowledge of all relevant Acts, Regulations & Standards (some of which are listed below) and so be able to promote, stimulate and encourage a high standard of health and safety during their work:

- Safety & Health at Work Act 2005
- Construction Regulations 2013
- General Application Regulations 2007- 2016
- BS 6187:2011 CoP Full & Partial Demolition

The lists are not exhaustive.

3.3 Health and Safety Guidance

Specific health and safety issues relating to the site are dealt with in the Construction Health, Safety & Environment Plan which shall be maintained throughout the project from commencement and shall be updated as required.

A Health and Safety File shall be prepared and submitted upon the completion of the Construction phase in accordance with the Construction Regulations 2013.

3.4 Site Set Up (Enclosure of working areas, security, compounds, storage, parking)

Site set up will initially be mobile within the site boundary to facilitate the deployment of plant safely. Temporary services connections, as they become available, will be maintained to the site office accommodation and welfare facilities, including:

- Electricity supply
- Water supply
- Drainage
- Voice and data communication

The Contractor will provide and maintain welfare facilities (including toilet facilities along with hot and cold water, soap/hand cleanser and towels, drinking water, rest facilities to change, store and dry clothing) in accordance with legislation during normal site hours for the use of its contractors.

The Contractor shall ensure that these facilities are cleaned on a regular basis and that regular checks are undertaken to ensure they are kept in a clean and tidy condition.

3.5 Temporary Electrics (incl. Lighting)

The design, installation and maintenance of the temporary electrical system, including lighting, will be the responsibility of the Contractor to control and monitor compliance with legal and non-statutory regulations etc.

A competent and accredited temporary electric subcontractor will be appointed to install and maintain the system, in accordance with ETCI standards and HSE Guidance HSG141 Electrical Safety on Construction Sites.

Temporary supplies from generator installations shall be minimised and subject to the same requirements. Where generators are temporarily utilised, the Contractors will be required to locate them away from residential sites and to provide noise barriers where appropriate.

3.6 Health and Safety Information

All Sub-Contractors shall submit the following to The Main Contractor prior to work commencement:

- A copy of the Company's job-specific safety statement
- The name and CV of the Company's Safety Officers and details of any other duties he/she has if not full-time
- A Risk Assessment & Method Statement (RAMS) which identifies the principle hazards likely to be encountered, assesses the risk from these hazards, and details the means by which they are avoided/minimised and/or controlled.
- Statistics for the last three years
- Disclosure of health, safety and environmental enforcement action (notices, prosecutions etc.) taken against the sub-contractor in the previous three years,
- A clear specification of resources and timescale to carry out the work safely and in accordance with the Construction HS&E Plan.

3.7 Method Statements

All Sub-Contractors shall submit to The Main Contractor a method statement describing proposals to carry out the works. Once appointed the Sub-Contractor shall provide a full statement supported by any drawings, temporary works and calculations where required by The Main Contractor. The Contractor shall undertake a safety audit of the proposed method which shall be reviewed regularly and/or as necessary.

3.8 Control of Scaffolding

The Main Contractor shall ensure that appropriate material, i.e.netting, is provided to scaffolds to minimise dust and to prevent falling objects where works are likely to affect adjoining occupiers or members of the public.

3.9 Site Access

This will be controlled in accordance with the Traffic Management Plan.

3.10 Safe Passage for Pedestrians

Where existing roads are affected by the works, a safe passage will be maintained for pedestrians, or if this is not possible, a safe alternative means of passage around the works will be provided in accordance with the 'Traffic Signs Manual' and Temporary Traffic Management requirements (August 2019). A safe passage will also be maintained for all vehicles entering and leaving the works. The Contractor will provide all necessary traffic signs, cones, barriers and lighting.

3.11 Provision for Disabled People

In particular the Contractor will make all necessary provision to ensure that the needs of disabled people are met in the vicinity of the works by giving clear visual warning to partially sighted pedestrians in accordance with the 'Traffic Signs Manual' and Temporary Traffic Management requirements (August 2019).

All openings or obstructions on the road will be barricaded off with a continuous rail which is strong enough to offer the necessary resistance should a blind person walk into it. The rail will be one metre above the ground level. There will also be a tapping rail of minimum depth 150mm with a lower edge at ground level or up to a maximum height of 200mm above the ground.

Road Opening Permit: No works will interfere with existing public carriageways without the Sub- Contractor supplying the Main Contractor with details of the named supervisor for the works, detailed Method Statements and all appropriate authorisation and approvals from MCC prior to work commencement.

3.12 Site Transport

All activities involving Workplace Transport and slewing are regarded as high risk activities and The Contractor shall ensure that Sub-Contractors provide suitable and sufficient Risk Assessments and Method Statements indicating the precautions that may be taken.

The Contractor will provide up to date site transport plans indicating safe designated pedestrian routes and areas and designated reversing areas, details of pedestrian and vehicle separation at site entrance, and traffic management requirements for Contractors including use of competent and trained Personnel, use of high visibility jackets and other operational control measures as appropriate.

4) Specific Environmental Impact and Mitigation Measures

4.1 General Approach

The works will be carried out, as far as is reasonably practicable, in compliance with the Relevant Standards and Best Practice

4.2 Security

The site will be bounded by a 2.0 metre high Harris fence and 2.4m high Palisade Gate. This hoarding will allow space for plant access, accommodation. During working hours, when open the vehicle entrance will be manned. Access through the pedestrian gate will be restricted to staff, operatives & visitors on site specific business.

4.3 Waste Management

The proper management and handling of waste on site is essential to ensure that pollution and increased levels of contamination are minimised. Effective management of waste on site will consist of the following measures;

- Waste segregation.
- Skip containers covered.
- Non dumping/littering policy on site.
- Regular clean up of the site.
- Careful handling and transportation to avoid damage to materials.
- Efficient logistics/ordering.

4.3.1 WASTE ASSESSMENT, PREVENTION / MINIMISATION

A site review shall be carried out prior to commencement of works in order to assess if any of the existing building materials have potential for re-use, to maximise the recovery of material from construction works and assess methods to divert material away from landfill. Waste prevention and minimisation will be achieved through the implementation of several guiding principles and in accordance with the waste management hierarchy, namely:

- Maximising the reuse of materials where possible.
- Segregation of waste materials into reusable, recyclable and non-recyclable materials.
- Reusing and recycling materials during works when practicable.
- Recycling materials through appropriately permitted / licensed contractors and facilities.
- Disposing of non-recyclable wastes to licensed and permitted facilities.
- Diverting materials away from landfill and maximising recovery rates from the construction works

4.3.2 ONSITE WASTE MANAGEMENT

NON-HAZARDOUS WASTE

4.3.2.1 Mixed C&D Material

Mixed C&D material generated during the project shall be segregated on site where possible. Residual material shall be placed in a designated waste receptacle and removed off site for further segregation and re-use, recycling or recovery. The receptacles shall be removed by the permitted contractor and segregated off site at a designated facility. A waste report will be generated by the waste contractor at the end of the works to detail the percentage of waste recycled and recovered from the skips.

4.3.2.2 Clean Concrete

Clean concrete waste originating from construction shall be broken up on site and stored in a designated area pending removal off site by the Construction Contractor to a permitted facility. Waste dockets shall be retained for all material taken off site and receipts obtained from the Facility to verify compliance. Mixed Metals Mixed metals will be segregated and collated in a designated skip/area within the site. The skip will be removed off site for recycling by a permitted contractor to an authorised facility. Mixed Timber The timber would not be suitable for re-use, however it will be collated in a designated skip/area within the site and removed off site for recycling/chipping by a permitted contractor to a licensed facility.

4.3.2.3 SOIL & STONE

The project is being carried out on a green field site which is currently being used for agricultural purpose. All soil and stone excavated during construction works will be used on site as fill material for engineering and landscaping purposes. Should this change, the main construction contractor will be appointed to manage the disposal/ recovery of the soil and stone (subsoil and topsoil). The Site Engineer will co-ordinate the excavation of soil and stone. A waste log, docket and receipt system will be maintained for all soil and stone removed off site. A detailed report will be provided by Main construction contractor on completion of works.

4.3.2.4 HAZARDOUS WASTE

There are no hazardous wastes to be generate from the project.

4.3.3 WASTE STREAMS PRODUCED ONSITE

Wastes anticipated to be generated during the works are listed in Table 5.1– Waste Management.

Table 5.1 also details the waste management technique that will be applied, the contractor who will carry the material and the facility where it will be disposed, recovered, recycled or re-used.

A waste management summary will be provided on completion of the works which will include the exact volumes of materials removed off site and the licenced/permited destinations where they were accepted.

Waste Type & estimated volumes	EWC Code	Waste management Technique	Waste Contractor	Facility / Landfill
Mixed MW (RORO Skips)	20 03 07	Mixed Construction material from the works shall be placed in the designated skip for removal and segregation off site. Waste reports will be generated.	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Concrete rubble	17 01 01	Waste Concrete shall be segregated on site and removed off site and disposed by a permitted contractor at a permitted/licensed facility	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Soil and Stone	17 05 04	To be reused on site for landscaping and engineering purposes	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Macadam Planings	17 03 02	The macadam will be planed out and disposed of under an Article 27 or segregated on site and removed off site and disposed by a permitted contractor at a permitted/licensed facility	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Mixed metals (RORO Skips)	17 04 07	Collated in a designated skip and taken by a permitted contractor to a permitted / licensed facility.	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development

4.3.4 WASTE TRANSFER OFF SITE

All waste materials removed from the works shall be moved in accordance with current waste management legal and regulatory requirements. Skips removed from the site will be covered to prevent windblown litter, fallen debris and to minimise dust.

Documented proof of all waste movements (waste docket), receipt and final recovery or disposal of the material will be obtained from the waste contractor(s) to facilitate waste reporting to the Client and to compile the Safety file on completion of works. Copies of this information shall be available during the works from the Environmental Advisor or Contracts Manager.

The waste management records will be verified and validated by the Environmental Advisor. They will be retained on site for the duration of the works and thereafter returned to Meath County Council as the Client for archival and retention.

All hazardous waste moved off site was accompanied by a Waste Transfer Form as per current waste management legal and regulatory requirements.

Waste management practices and the associated records will be included within the scope of all environmental inspections carried out. Actions identified will be communicated to the relevant persons and investigated, addressed and closed out in a timely manner.

4.3.5 LITTER

The Contractor shall endeavour to ensure that all litter is disposed of in an environmentally responsible manner, and that it is not released to the environment. In order to fulfil this obligation, the following control measures will be put in place;

- A high standard of housekeeping will be maintained to ensure that materials are not left where they can be blown away to become litter.
- Rubbish & litter will be removed at frequent intervals and the works site will kept clean and tidy.
- On-going housekeeping, waste management and litter awareness toolbox talks will be provided at scheduled intervals throughout the works.

4.3.6 TRAINING

All persons working for or on behalf of Meath County Council on this project will be made aware of the waste management requirements, general environmental controls and mitigation measures at induction and thereafter through the use of toolbox talks and communication sessions.

All persons working for or on behalf of Meath County Council on this project will be instructed in relation to the requirements of this Construction Waste Management Plan and informed of their responsibilities in relation to its provisions.

Where source segregation and material reuse techniques are applied, the relevant persons will be given instruction on how to comply with the waste management requirements.

Training will be provided to the Contracts Manager, Site Manager and Site Engineer in relation to the requirements of this Construction Waste Management Plan, environmental management legal and regulatory requirements as well as the waste and environmental management control and mitigation measures prior to commencement of works.

Additional waste and environmental management awareness training will be provided thereafter on a scheduled basis or as required in the form of toolbox talks and environmental communication sessions.

Sub-Contractors carrying out works will be subject to the same level of waste and environmental management awareness training as the main construction contractor.

4.4 AUDITING & REPORTING

4.4.1 RECORD KEEPING

The construction contractor will retain all waste records and associated waste documentation for all material taken off site. In accordance with environmental legal and regulatory requirements the following waste records will be retained:

- Copy of Waste Collection Permits
- Copy of the Facility Permit / Licence
- Waste Dockets for all waste consignments (specific to the contractor removing the material)
- Waste Transfer Form for all consignments of Hazardous waste

Waste Collection Permits and Waste facility Permit / Licence shall be verified and validated by the Environmental Advisor. The waste management documentation shall be retained for the duration of the works at the site and afterwards returned to the Client Meath county council for storage and archive. An electronic waste log will be documented and maintained up to date for the duration of the works. An overall Waste Management Report will be made available on completion of the works that will outline the exact volumes of waste materials removed from the works and the end point destinations in terms of recovery, recycling/re-use or disposal.

4.4.2 WASTE INSPECTIONS & AUDITING

The Environmental Advisor shall ensure compliance with this plan during scheduled inspections. The inspections will involve a systematic study of all waste management and environmental management practices and records. An inspection report will be documented following all inspections to detail current waste management and environmental performance. Areas for improvement will be documented as corrective actions and tracked in order to monitor their effectiveness. All actions identified shall be investigated, addressed and closed out in a timely manner.

4.4.3 REVIEW AND UPDATE OF THE PLAN

This Construction Waste Management Plan will be updated on a scheduled basis during the works. Waste management measures detailed within this plan, will be reviewed during inspections, as the waste management of the works change or as legislative / Client requirements change. Any changes made will be communicated accordingly through toolbox talks and communication sessions. An updated copy of the Plan will be submitted to the Client for submission to and agreement with the Local Authority as per Planning requirements.

4.4.4 COMMUNICATIONS WITH CLIENT & REGULATORY BODIES

The Client will be kept up to date in relation to waste management progress on the works. The Environmental Advisor or Contracts Manager shall be the main points of contact for waste management and environmental communications. As per Planning Permission conditions, the developer will submit an overall C&D WMP for the project, incorporating the information contained in the construction contractor C&D WMP and any updates shall be submitted by the Construction Contractor to Meath Co. Co. for their approval prior to commencement of works.

4.5 Water Pollution

The site is in close proximity to the River Boyne but there will be no discharge construction water to ditches or streams and it is of paramount importance that this waterway is not affected during the Construction works.

All works undertaken at the site shall be managed in accordance with the Inland Fisheries document 'Requirements for the Protection of fisheries Habitat during Construction and Development Works at River Sites'. The following mitigation measures are proposed to prevent the occurrence of any pollution incidents:

- Throughout all stages of the Construction phases of the project the contractor will ensure that good housekeeping is maintained at all times and that all site personnel are made aware of the importance of the associated aquatic environment and the requirement to avoid pollution of all types.
- Fuels, oils, greases and hydraulic fluids will be stored in bunded compounds well away from open excavations/drains. Refuelling of machinery, etc., will be carried out in bunded areas/with the use of plant nappies.
- Runoff from machine service and concrete mixing areas will not enter any watercourse or groundwater.
- Areas for the stockpiling of waste materials will be kept to a minimum size, well away from permeable ground.

4.6 Air Quality & Dust Emission

The control of noise, dust and fumes will be an important aspect on this contract due to the close proximity of local residents. In the main, The Contractor's standard procedures will be employed. The main actions have been briefly explained below:

There are three main types of plant that will generate noise.

- □
 - Fixed plant Generator sets, Mobile plant, Excavators & breakers
 - pressure washers, Hand held plant
 - Pokers, drills, nail guns, cut off saws, circular saws, screw guns, impact drivers, reciprocating saws, angle grinders, and CP9 breakers .

All plant will be supplied with written data for the noise level produced when in operation. This is The Contractor company policy, as ear defenders may be required, subject to a noise assessment. All plant will be inspected and registered on a weekly basis to ensure that it is in good condition, serviceable and is maintained and in a safe condition. Where possible, material will be factory cut or factory assembled in order to minimise the need for plant on site. Fixed plant will be enclosed or where required will have acoustic screens placed round them to minimise noise pollution. All fixed plant engines will incorporate vibration mounts. The other possible source of noise will be vehicular movements for deliveries to the project. This will be kept to a minimum by switching off engines whilst vehicles are being unloaded, having scheduled deliveries one at a time and inside site working hours.

All plant will be in good serviceable condition which will be checked regularly and registered accordingly by the site management team. Where possible or practicable, electrically powered plant will be used as this is generally quieter when operated. Wherever practical, noisy activities will be carried out in screened areas within the site or building and not on the boundaries. All staff and subcontractors will be made aware of noise issues through inductions and specific tool box talks.

Dust arising from the construction process will be controlled in accordance with The Contractor standard procedures. Mechanical equipment and plant will be positioned taking due consideration with regard to preventing the transfer of fumes to existing premises.

4.7 Noise

The Contractor will ensure that all practical steps are taken in order to keep noise levels emanating from the site within acceptable levels. They will reduce the noise impacts on adjoining residents, occupiers and members of the public. Noise levels will be kept to a minimum by ensuring that all work is carried out within site working hours.

The Db rating for all tools and machinery selected for use will be checked and replaced with an alternative if deemed excessive. Contractors will be required to work in accordance with the following Codes of Practice:-

- The Code of practice for basic information and procedures for noise and vibration control, numbered BS5228: Part 1
- The Code of practice for noise and vibration control applicable to piling operations, numbered BS5228: Part 4

General monitoring of the works shall be undertaken by the Health, Safety and Environmental Officer. The report is issued to the contract manager and site manager for action. Site Health, Safety and Environmental Inspection Reports are then reviewed by management and at site Health, Safety and Environmental meetings.

4.8 Noise Mitigation Measures

The Contractor shall require all contractors using plant or equipment to comply with the following requirements:

- All compressors shall be 'sound reduced' models fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use, and all ancillary pneumatic tools shall be fitted with mufflers or silencers of a

type recommended by the manufacturers.

- Machines in intermittent use shall be shut down in the intervening periods between work, or where this is impractical, shall be throttled down to a minimum. Whilst in use engine covers shall be closed.
- Stationary plant will be sited away from any noise sensitive areas (ie residential accommodation) where practicable. Any plant known to emit noise strongly in one direction shall be oriented so that the noise is directed away from noise sensitive areas.
- No plant shall be left running outside normal working hours.

4.9 Vibrations

The Contractor will adopt the following general approach in order to reduce and mitigate the effects of vibration by ensuring:

- Selection of plant and equipment on the basis of low levels of vibration characteristics.
- Maintenance of plant and equipment in order to maintain the design vibration profiles.
- Siting and screening of plant and equipment away from vibration sensitive areas.

4.10 Site Clearance

Waste will be kept to minimum and we will continuously seek opportunities for re-use and recycling where practical. A Construction Waste Management Plan shall be prepared and will be monitored and updated as required during the works.

4.11 Site Activities

Water shall be used as dust suppressant where applicable during the site activities, and damping down will be undertaken as necessary to minimise dust transfer into neighbouring premises.

All stockpiles shall be enclosed or kept securely sheeted. Stockpiles of material for recycling should be damped down or otherwise suitably treated to prevent the emission of dust from the site.

Stockpiles shall be planned to minimise the effects of attrition and wind action. They shall be sited and shaped to minimise the potential for dust generation. The contractor shall sweep the site regularly and adequately to prevent any accumulation of dust from the site.

4.12 Emergency Procedures

The Contractor will liaise with the Emergency Services and maintain emergency access routes for the entire duration of the works to the following locations:-

- To the site entrance
- To the buildings, as the works progress.
- The Contractor will liaise with the local Authority and Trim Municipal District Engineer and the Emergency Services to maintain a Health and Safety Plan and Construction Environmental Management Plan for the duration of the Construction work.

4.13 Site Liaison Arrangements and Promotion

All contractors and sub-contractors shall be required to attend meetings as required by the Contractors' site manager in order to ensure that adequate arrangements are in place for:

- Programme and day to day arrangements.
- Scheduling site deliveries, unloading of materials, temporary storage arrangements and handling of materials and waste within the site.
- Requirements relating to noise and vibration levels of plant and equipment. Requirements relating to control measures for minimising nuisance from dust, vapours and airborne pollution.
- Provision of information to the workforce relating to minimising the impact of the works on adjoining properties.
- Temporary restrictions and prohibitions relating to work areas, barriers and safety signage.
- Specific hazards and works that may affect other persons working on the site or visitors to the site.

All Contractors will be required to attend a Pre-Contract meeting at which information relating to Health, Safety and Environmental issues will be provided to them. In addition, Contractors will be required to attend individual meetings at which specific issues will be discussed and the relevant control measures to achieve compliance with the standards set out in BS5228.

All Contractors shall be required to comply with the standards set out by The Main Contractor in this document, and where necessary The Main Contractor will provide Contractors with appropriate guidance on the application of these standards.

4.14 Consideration of Residents

Prior to commencement of the Construction work, the Contractor shall, in line with their Consideration of Residents, provide information to residents, landowners and key local community services including:

- The nature, timing and phasing of the works.
- Changes to the local roads – layout and temporary access arrangements. The likely impact of the works on adjoining residents and occupiers.
- The arrangements being made by the Contractor to mitigate the effects of the changes and the works being undertaken.
- Arrangements for contacting the Contractor's 'Information Helpline'.

4.15 Complaints Procedure (Local residents)

A clearly defined channel of communication will be set up and maintained, to facilitate queries or complaints from the public. It is proposed to liaise with local residents and action groups on a regular basis, to keep them informed of progress and procedures and to allay any environmental concerns they may have. The Contractor will make the relevant personnel available to them, on an appointment basis, to discuss any environmental concerns or issues relating to the site.

The following information will form part of the overall Construction Environmental Management System (CEMP) for the site and the information will be made available to all parties concerned by agreement with the Project Team:

- 4.15.1 Method Statements for activities on site
- 4.15.2 Disposal routes
- 4.15.3 Final Disposal Destinations
- 4.15.4 Environmental Monitoring (summary not raw data)
- 4.15.5 Site Monitoring (summary not raw data)
- 4.15.6 Complaints Register
- 4.15.7 Construction Environmental Management Plan

5) Traffic Management

5.1 Transport Movement

A. Measures to avoid affecting Peak Traffic:

- The Contractor will avoid peak traffic by:
 - Monday to Friday – Schedule deliveries to avoid congestion & queueing
 - Saturday - Schedule deliveries to avoid congestion
- Discourage Staff & Workers from travelling to site by car
- Record Daily Compliance Checks in the Site Diary

B. Type Number & Frequency of Deliveries:

- All Truck Movements will be banked In & Out of the site
- Truck movements will vary throughout the project
- Groundworks, Excavation & Structure & Finishes – Waste Trucks
- Concrete Works – Ready mix Trucks
- Remainder of Structure, Façade, Services & Finishes – Articulated & Rigid Body Trucks
- Maximum Truck Movements – 4 per hour
- Average truck Movements – 1-2 per hour

C. Mechanised Road Sweeping:

- The Contractor will have wheel cleaning facilities within the site boundary
- All Trucks will be 'Banked' In & Out of the Site
- The Contractor will contract with a local road sweeper to attend to site within 3 hours of being contacted – In the event of a spillage on the roads around the site

D. Management Plan for Pedestrians:

- Temporary Signage will be erected to advise people of the entrance/exit
- All truck movements In & Out of the site will be 'Banked' and temporary Safety Barriers will be used

E. Community Engagement Strategy:

- The Contractor community relations approach incorporates the following principles:
 - We are “guests within The “ Loganstown Area”;
 - We adopt a “no surprises” approach;
 - We are “always available”; and
 - We use “personal and targeted consultation”.

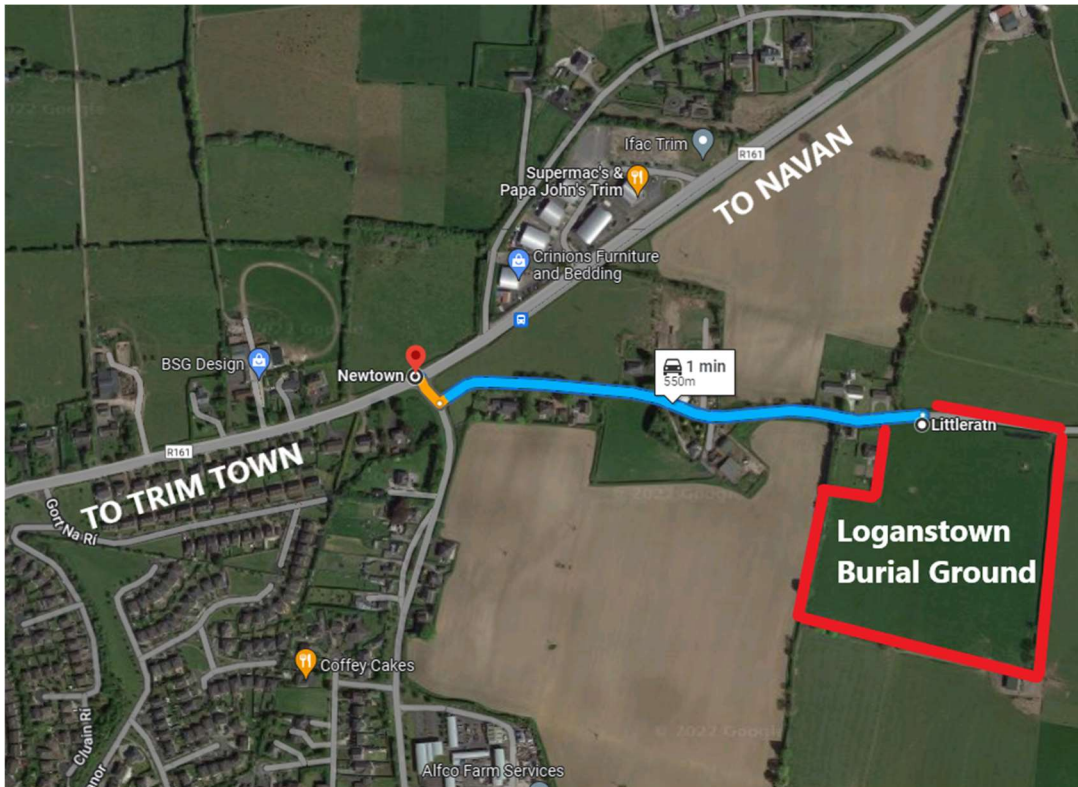
Construction Environmental Management Plan - Loganstown Burial Ground, Trim, Co. Meath

- The Contractor team will initially use personal contacts and subsequently their communication mechanisms and systems to inform and advise Residents, Owners and Interest Groups about any Construction impacts.
- Emergency Site Contacts will be provided
- The treatment of Complaints is dealt with fully in Section 6 of the Construction Environment Plan (CEMP)

5.2 Traffic Routes from the Navan /Trim to the Site – Local Signage will be Erected in accordance with the Traffic Signs Manual & Temporary Traffic Management Requirements (August 2019)

From the R163 Navan to Trim Road

Take the Newtown Road heading south for 50m and take the immediate left heading west for 550meters to the proposed Burial Ground Coming locally from Drogheda take the R108 heading south



5.3 Deliveries from all directions

The routes described above have been evaluated and notes existing width restrictions to accommodate the size of the vehicles and to avoid were possible passing by or driving in the vicinity of schools located around of the Construction site.

All suppliers and contractors utilised on this project will be provided with verbal and written Communication's to make them aware of the planned routes and timing of deliveries to avoid peak traffic. This communication will include the highlighted route on a maps and timing for distribution to all drivers.

5.4 Site Access

The vehicular entrances to this site will be from the public road outside the proposed burial ground..

All vehicles will notify in advance of arrival the site manager of their estimated arrival time. In preparation the site manager will allocate a qualified banksman the responsibility of guiding the vehicles into the Construction site.

Small vehicles and plant will be preferred ,where possible, to facilitate deliveries from the Drogheda Urban area for the whole lifespan of this project. Parking of vehicles outside the site will not be permitted.

For Construction vehicles, the gates will be controlled during working hours by a gateman and there will be operatives on duty throughout the day with breaks covered. It will be the responsibility of the gateman to ensure that the gates remain closed, when not in use, and are opened as soon as vehicles approach. It will also be the responsibility of vehicle banksman to ensure that the relevant paperwork is checked at the entrance and that the vehicles are parked correctly within the site delivery zone.

The gates will be locked every evening by the Contractor using chain wrap with padlock.

5.5 Travel Plan & Car Parking

The site provides car parking for site staff, sub-contractors and visitors. We estimate that the number of personnel working on the site will peak at about 80 persons and average 35 persons for the duration of the project. All personnel are inducted prior to commencing work on the site. The site induction is the primary means of communicating the project travel plan and supporting information. The site induction is carried out by The Contractor.

5.6 Parking:

Parking on local roads is prohibited. Anyone travelling to site by car will be encouraged to collect other site operatives on route. The Contractor site team is vigilant in ensuring that site personnel or visitors do not park illegally in the vicinity of the site. Should any sub- contractor decide to continually park illegally, The Contractor will not hesitate to remove that contractor from site.

5.7 Public Transport:

Alternatives to private car use have been considered by The Contractor site staff and efforts will be made to communicate the advantages of public transport to all site personnel.

5.8 Bicycles:

Bike stands will be provided to encourage their use. The Contractor will provide parking for everyone who already cycles to work plus another 50 per cent. When the cycling facility reaches 70% capacity, it will be increased by 20%. This will be revised periodically.

5.9 Construction Traffic

All vehicles will switch off engines when stationary. No idling of vehicles, as far as it is practicable, will be allowed. All loads entering and leaving site shall be covered. Any abnormal load/plant deliveries will be permitted and arranged with MCC & Gardai.

5.10 Safe Loading/Unloading Areas

All safe loading and unloading will be performed on site or in the designated loading bay, which will have exclusion barriers & signage during use. Pedestrians will be held by a banksman until Construction vehicles have completely accessed or left the site and the gates are closed.

5.11 Supply Chain Management

We recognise the impact this development can have on the local community and the environment so we encourage & challenge our supply chain to provide a better service. There are a number of key initiatives that we will promote with our supply chain. Existing & potential suppliers will be made aware of these initiatives and their importance to the project will be detailed. Some of the suppliers, will have dealt with The Contractor on other projects, however we will be appointing sub-contractors and suppliers who are new to The Contractor and effective communication will be required in this case.

5.12 Local suppliers

As part of our Corporate Social Responsibility Agenda, we aim to promote local employment and stimulate the local economy. Where feasible we will source services, materials and equipment locally. This improves local health by reducing freight impacts such as fossil fuel usage, congestion, pollution, Construction and road casualties.

6) Completed Extract from Good Practice Guide for Construction

1. Locality

Identify those who may be affected by noise, including particularly sensitive locations (hospitals/schools) and determine ambient noise levels (noise maps or noise monitoring)

	Low	Medium	High
Expected duration of work			
Less than 6 months			
6 months to 12 months			
Over 12 months			√
Proximity of nearest sensitive receptors			
Greater than 50 metres from site			
Between 25m and 50m			
Less than 25 metres			√
Hospital or school within 100 metres			
Day time ambient noise levels			
High ambient noise levels (>65dB(A))			
Medium ambient noise levels (55-65dB(A))		√	
Low ambient noise levels (<55dB(A))			
Working Hours			
8am – 7pm Mon-Fri; 8am-2pm Sat	√		
Some extended evening or weekend work			
SUBTOTAL A	1	1	2

1. Work information

1. General

All site staff shall be briefed on noise mitigation measures and the application of best practicable means to be employed to control noise.	Applicable
No materials shall be burned on site	Applicable
Adequate dust/debris screening should be in place at the site boundary to contain and minimise the amount of windblown dust. This must be maintained in good condition at all times.	Applicable
All consignments containing material with the potential to cause air pollution being transported by skips, lorries, trucks or tippers must be covered during transit on and off site.	Applicable
The site shall be dampened down as necessary to minimise windblown dust when necessary or during periods of dry weather.	Applicable
Dust suppression equipment must be used when point source emissions are likely.	Not necessary if above measures implemented

2. Plant

Ensure that each item of plant and equipment complies with the noise limits quoted in the relevant European Commission Directive 2000/14/EC	Applicable
Fit all plant and equipment with appropriate mufflers or silencers of the type recommended by the manufacturer	Applicable
Use all plant and equipment only for the tasks for which it has been designed	Applicable
Shut down all plant and equipment in intermittent use in the intervening periods between work or throttle down to a minimum	Applicable
Locate movable plant away from noise sensitive receptors	Applicable

3. Vehicle activity

Ensure all vehicle movements (on site) occur within normal working hours. (other than where extension of work requiring such movements has been granted in cases of required road closures or for health and safety reasons)	Applicable
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4. Monitoring

Appropriate dust suppression must be employed to prevent fugitive emissions affecting those occupying neighbouring properties or pathways	Applicable
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5. Communication and Liaison

Arrange regular informal community liaison meetings at appropriate intervals including prior to commencement of the project.	Applicable
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Extensions of Working Hours in exceptional circumstances

<p>Ensure at least 4 days notice is given to Meath County Council Planning Department when applying for extensions to normal working hours. Do not undertake out of hours work unless permission to do so has been granted.</p>	<p>Applicable – if required</p>
<p>Advise neighbours about requirement for and duration of any permitted works outside of normal working hours, and associated environmental mitigation measures being put in place during the course of the extended works, following receipt of approval from MCC</p>	<p>Applicable – if required</p>
<p>All complaints will be referred directly to the site liaison person and a reply must issue to the complaint within 3 hours of receipt of the complaint.</p>	<p>Applicable</p>
<p>A log of all complaints and a summary of how they were dealt with should be kept and be made available to MCC, as required</p>	<p>Applicable</p>
<p>Any breaches of permitted working hours or permitted extended working hours or developers or subcontractors not carrying out their requirements under this protocol may lead to enforcement action and may also result in the withdrawal of any extension of hours of works for a period that will be at the discretion of Meath County Council.</p>	<p>Applicable</p>