Contract	**Tandy's Lane Village Phase 2, Adamstown SDZ**		
Document Title	**Construction Stage – Waste Management plan**		
Document Reference			
			
The Client		**Quintain**	
The Contractor/ PSCS	GEM CONSTRUCTION	**GEM Construction**	
Architect	MOLA	**MOLA Architects**	
Consulting Engineers- CSA & M&E	Waterman Moylan Engineering Consultants	**Waterman Moylan Consulting Engineers**	
Project Scope	This document outlines the GEM Construction Waste management arrangements on the Tandys Lane Village Phase 2 Project. It details the typical waste management arrangements in place to facilitate the reduce, reuse and recycle hierarchy of controls that should be in place to minimise the disposal of waste to landfill. It also details responsible persons on the project		
Date	**28.04.2023**	**Status**	**Revision 1.2- for implementation**

Document Verification

Job title	Tandy's Lane Village, Phase 2		Job number 1303
Document title	Project Waste Management Plan		File reference

Revision	Date				
Rev 1	30.03.20	Filename	Construction Stage- Waste Management Plan		
		Description	Construction Stage – Construction Waste Management plan prepared to comply with Local Authority Guidelines		
			Prepared by	Checked by	Approved by
		Name	Barry Connolly	Maria Dune	Barry O'Rafferty
		Signature			
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		Signature			
Rev 3.0		Filename			
		Description			
			Prepared by	Checked by	Approved by
		Name			
		Signature			

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1. EXECUTIVE SUMMARY

This waste management plan details how waste materials will be managed during works on the Tandy's Lane Village Phase 2 project. The plan describes how waste management practices will be addressed on a day-to-day basis and details the different waste streams generated, where they will arise and how they will be re-used, recovered, or disposed.

The plan takes into account the requirements of the following:

- Current waste management legal and regulatory requirements.
- Current environmental best practice in the waste and construction industry.
- Relevant national, regional and local waste policies and plans
- "Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects" DEHLG 2006.

Measures will be implemented on-site to ensure that good waste management practices are adhered to throughout the project. These include:

- Minimisation of waste materials generated on site though efficient ordering and proper storage. Exhausting all options before orders are placed
- Separation of waste streams generated on site where possible to maximise reuse potential. Timber, packaging, plaster board, general domestic, Paper
- Maximise reuse on-site of all clean and undamaged material through proper storage.
- Maximise reuse on-site of material off-cuts. Store on site until ready to be used
- Training and continual awareness, auditing and updating of the waste management plan as works progress.

2. INTRODUCTION

The waste management plan for the Tandy's Lane Village, Phase 2 project has been prepared in accordance with "*Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects*" Published by DEHLG 2006.

3. PROJECT DESCRIPTION

The contract for the construction of the new phase of the Tandy's Lane Village Phase 2 in Adamstown has been awarded to GEM Construction. The client is intending to construct 193 new housing units.

It is of note that it is intended to export spoil off site at this stage, but this shall be minimised as far as is practicable as there is a requirement for berms, raised beds and other landscaping features which require the build-up of ground levels in various areas of the site i.e back gardens. Works that will be carried out as part of the Tandy's Lane project works will include the completion of timber frame with masonry and rendered facades, tiled roof areas, completion of soft internal partitions and finishes, a complete M&E fit out of the units, power distribution and control systems and the completion of site roads, public utilities, and landscaped areas.

The scope of works in the contract provides for the construction of ;

- Civil Works
- Completion of the site access road
- Architectural & Structural Works
- Groundwork's
- Mechanical & Electrical Installation
- Soft finishes

4. WASTE GENERATION

Wastes generated during the works will be managed by Kieran McCormack (GEM Construction) - Project Manager in accordance with current waste management legal and regulatory requirements.

The waste materials as listed in *Table 1 – Waste Generated*, will be created during the works:

EWC Code	*Waste Type*	*Site Works*
20 01 08	Canteen waste and general mixed municipal waste	Canteen and general cleanup
17 04 01	Copper Piping	Mech services install
17 04 05	Stainless Steel	M&E Containment Install
17 06 05	Glass Fibre insulation	Timber Frame & Partition Erection, Mech Service lagging/ insulation
08 04 10	Waste containers- pvc pipe adhesive	Gluing of PVC pipe joints

17 02 03	PVC Pipe offcuts	Install of PVC pipework
17 02 04	Plastics	Packaging wastes
15 01 01	Paper and cardboard packaging	Packaging waste
17 05 06*	Soil & Stones	Contaminated soil
17 02 01	Timber	offcuts
17 05 04	Soil and Stones (not containing hazardous material)	Strip of ground surface and foundations
17 08 02	Gypsum Based Materials	partitions
17 01 01	Concrete	Waste concrete

Table 1 – Wastes Generated

The Project Manager will aim to keep waste surplus/deficits to a minimum through the use of the following control measures:

- Order material as required
- Accurate timing of deliveries. (just in time)
- Careful estimation of material quantities and no over ordering of material.
- Ensure that all materials stored on site are stored in a manner so as to prevent damage, deterioration and loss.
- Materials will remain wrapped or bound until ready for use in order to minimise spoil.

5. WASTE MANAGEMENT

All works on this site shall be managed in a manner so as to minimise waste. All waste material generated during the works will be dealt with in accordance with current waste management legal and regulatory requirements and take account of

the current waste management hierarchy and the local Regional Waste Management Plan.

6. WASTE MATERIAL GENERATION

Waste materials generated during the project will be recycled, recovered, re-used or disposed as detailed in *Table 2 – Waste Management Re-use / Recycling / Recovery / Disposal Routes*. Waste materials will be stored in a designated waste storage area in suitable waste receptacles to await collection by the nominated permitted contractors.

All waste materials taken off site must be taken by a permitted contractor to an authorised facility/site where the material can be accepted. The waste contractor will be requested to provide details on the percentage of waste for recycling/recovery and percentage for disposal.

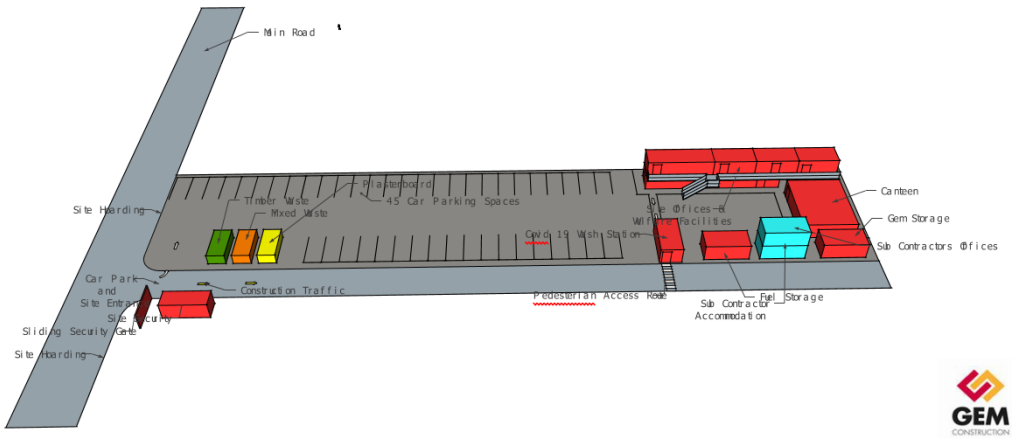
7. SITE RULES REGARDING WASTE MANAGEMENT

- Separate skips shall be provided for different waste streams as far as is practical
- All domestic waste skips must be of closed type to prevent access to vermin
- No eating is permitted on site or in parking areas. Eating is only permitted in the canteen areas.
- All waste, wrapping, debris etc. must be placed into skips as soon as they are generated, and cannot be stockpiled for disposal at a later date.
- Spoil heaps must be tamped down to prevent dusts, and where required should be dampened down or covered.

- The concrete wash out area is to be used for cleaning the chutes of all concrete trucks
- The truck wheel wash is to be used by all vehicles exiting the site to minimise deposits on public roads
- Suppliers are to be contacted prior to orders to assess whether waste packaging and pallets can be returned
- Waste oils, lubricant cans and cartridges must be stored in the stores and sent to Greenstar waste at the completion of the project
- MSDS documentation must be in place for all chemicals on site with details of the disposal arrangements
- Timber is to be reused where possible for formworks, pegs, shims etc. before re-ordering
- A COSHH store will be available on site.

8. SKIP LOCATIONS

The central waste storage area will be located in the main compound adjacent to the site entrance on Adamstown Drive. Mini skips will be located on site which will be used to decant wastes off site to the central waste area.



9. WASTE TYPES & QUANTITIES

The Project Manager will retain all waste records for the duration of the project to facilitate the calculation of waste management costs on completion of the project.

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
General Waste including mixed municipal kitchen and food waste	20 01 08	Disposal, secondary segregation	Greenstar, NCWPO-13-11193-05	Panda Beauparc, Navan	W-0140-03,	Waste skip on site, secondary segregation may take place in Greenstar waste due to space restrictions for additional skips adjacent to the	60X 20ft RORO

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
						building	
Timber	17 02 01	recycling	PANDA NCWPO-13-11193-05	Panda Beauparc, Navan	W-0140-03,	Waste skip on site- reuse as far as possible- pegs, shims etc.	100 X 20 cuyd RORO
Plastics	17 02 04	Disposal	Panda, NCWPO-13-11193-05	Panda Beauparc, Navan	W-0140-03,	Waste skip in compound	30 X 20 cuyd RORO
NiCD Batteries	16 06 02	Recycle	Panda, NCWPO-13-11193-05	Panda Beauparc, Navan	W-0140-03	Store in stores container for bulk delivery to Panda waste	Not anticipated but possible

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
Readily biodegradable hydraulic oils	13 01 12	Disposal	Panda, NCWPO-13-11193-05	Panda Beauparc Navan	W0053-03	Store in container for bulk delivery at end of project	150L
Bund oil/water mix	13 05 08	Disposal	Panda, NCWPO-13-11193-05	Panda Beauparc, Navan		Drain water and store mix for bulk disposal at the end of the project	250L
Paper & Cardboard packaging	15 01 01	recycle	Greenstar, NCWPO-13-11193-05	Panda Cappagh Road	W0053-03	Into site skip-secondary segregation	20 X 20 cuyd RORO

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
Timber Pallets/packaging	15 01 03	Reuse-send back to supplier	PANDA, NCWPO-13-11193-05	Panda Beauparc, Navan		Waste skips in compound if pallets unusable	EURO Pallets to be sold, Delivery pallets to be broken up or returned to subcontractor 20 X 20cuyd RORO
Concrete and blocks	17 01 01	Disposal for crushing & reuse	Panda, NCWPO-13-11193-05	Panda Cappagh Road	W0261- 02	Waste skip-dispose of as C&D waste	10 X 20cuyd RORO
Contaminated Soil	17 01 06*	Disposal	ENVA Dublin, JFK Ind. Estate, Naas Road ENVA	ENVA		Store in waste receptacle for collection by ENVA	Not anticipated

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
			Portlaoise NWCPO 08 01116 02				
synthetic engine, gear and lubricating oils	13 02 06*	Disposal	ENVA Dublin, JFK Ind. Estate, Naas Road ENVA Portlaoise NWCPO 08 01116 02	ENVA	W0196-01 W0184-02	Store in site receptacle for collection by ENVA	Not anticipated but possible- spent waste taken by hire company while servicing off site
Soil and Stones (not containing hazardous material)	17 05 04	Re-use	tbc	tbc		Remove off site	2000 m3 expected, to be hauled off site by groundworks contractor

Waste Description	***EWC Code***	***Waste Re-use / Recycling / Recovery / Disposal***	***Waste Haulier (Name & Permit Number)***	***Waste Recycling / Recovery / Disposal Destination***	***Facility Licence / Permit No***	***Comments***	***Anticipated Quantities***
Gypsum Based Materials	17 08 02	Disposal and reuse	tbc	tbc	Gyproc Saint Gobain IED licence P0519 - 03	Store on site for return to Gypsum supplier	
Concrete	17 01 01	Disposal	Panda, NCWPO-13-11193-05	Panda Cappagh Road	W0261- 02	Store on site for removal by waste contractor as C&D waste	

Table 2 – Proposed Waste Management Re-use / Recycling / Recovery / Disposal Routes

10. WASTE MANAGEMENT RESPONSIBILITIES

Responsibilities in relation to waste management are as follows

10.1 The Project Director

- Responsibility for overseeing waste management practices on site and ensuring that they are managed in an environmentally responsible manner in accordance with current waste management legal and regulatory requirements.

10.2 The Project Manager

- Ensure that all waste management practices are carried out in accordance with waste management legal and regulatory requirements and waste management best practice.
- Prevent waste, insofar as possible, and for those wastes which are generated, achieve maximum recycling recovery of materials.
- Train all staff and contractors working for and on behalf of Winthrop Engineering & Contracting Ltd in relation to the project specific waste management practices.
- Ensuring that all materials removed off site are fully traceable.
- Retain waste management records as per waste management legal and regulatory requirements and the site specific waste management plan.
- Inspection of waste management activities on site and initiating actions as required.
- Ensure that an acceptable standard of housekeeping is maintained in the waste area and that there is no evidence of littering.

10.3 EHS Dept.

- Documentation of the Waste Management Plan in consultation with the Project Manager to include, waste management contractor details, waste material details and the subsequent recovery/recycling/re-use/disposal routes.

- Update of the Waste Management Plan as required in consultation with the Project Manager.
- Inspection of waste management activities on site. Implementing recommendations for improvement and corrective actions where practically possible.

10.4 Site Staff & Sub Contractors

- Ensure that all waste practices on site are carried out as detailed in this Waste Management Plan.

11. RECORD KEEPING

The Project Manager is responsible for the retention of all waste records and associated waste documentation for all material taken off site. This is essential in order to accurately calculate a cost of waste management when works have been completed. In accordance with waste management legal and regulatory requirements, the following waste records will be retained as a minimum;

- Waste material identified by EWC Code.
- Waste recovery/re-use/recycling/disposal route
- Waste haulier names and Collection Permit numbers for all waste materials taken off site
- Waste facility license's/permits
- Waste Dockets (detailing the quantity of material removed)
- Waste Transfer Forms and shipment documentation for all hazardous material taken off site.

12. INSPECTIONS

Inspections will be carried out by the EHS Dept. on a regular basis. The inspection will represent a systematic study of the waste management practices applied to the Project and recommendations for improvements as the project progresses.

- An Audit Report (IF-13) shall be documented following the inspection to detail current waste management activities as well as areas for improvement.

13. EMERGENCY CONTACT LIST

Project Manager- Kieran McCormack- 0862573044

EHS Officer- Maria Dune

QEHS Manager- Orinta Adomaitye

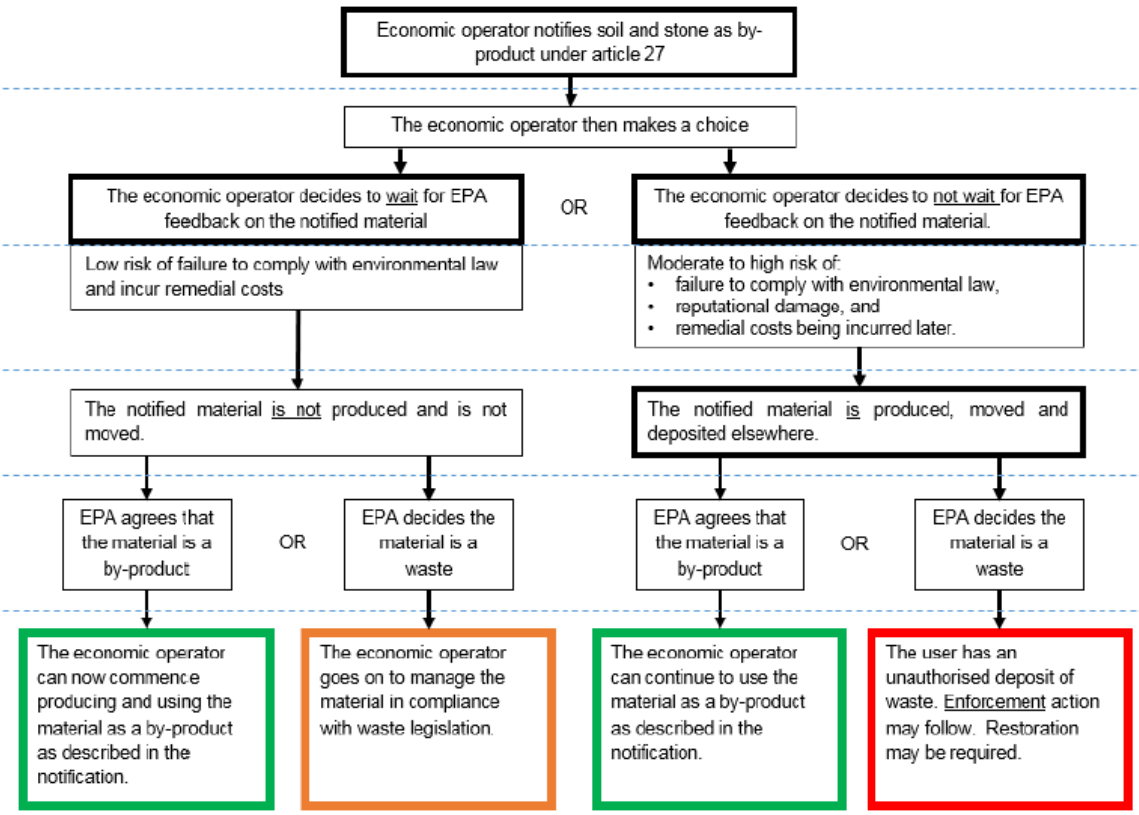
South Dublin Co.Co.- During Office Hours- +353 (01) 4149000. , Out of Hours Emergency Number- 01- 4574907

14. PROCEDURE FOR THE IMPORTING OR EXPORTING OF SPOIL

At present there a requirement to export spoil off the site. When this arises the following procedure will be followed.

14.1 Inert or Non-Hazardous Spoil

- GEM Construction will arrange to have suspected contaminated spoil tested in accordance with WAC (Waste Acceptance Criteria) and EPA criteria to confirm the spoil is inert and non-hazardous
- GEM Construction or the appointed subcontractor shall apply for an Article 27 notification to the EPA.
- The destination for the spoil must have a direct use for the spoil, which has been dealt with in a planning application, and it must not require additional treatment beyond normal industry practice



14.2 Hazardous or Contaminated Spoil

- Where the WAC and EPA assessment shows that the spoil is contaminated, the waste spoil shall be disposed of in an licenced facility by a company with appropriate facility permits and waste carrier licences.
- All exportation of contaminated spoil must be carried out in compliance with the appropriate with current legal and regulatory requirements and certification must be retained by GEM Construction.