Byrne Environmental

ENVIRONMENTAL MONITORING, ASSESSMENT & MANAGEMENT Acoustics, Air Quality, Environmental Impact Assessment & Waste Management Specialists

> Red Bog, Skyrne Road, Dunshaughlin, Co. Meath Tel/Fax: 01-8024001 Mobile: 086-8152252 Email: ian@byrneenvironmental.ie Web: www.byrneenvironmental.ie

SITE-SPECIFIC CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN

RE: STRATEGIC HOUSING DEVELOPMENT (SHD)

AT

THE FORMER O'DEVANEY GARDENS SITE, DUBLIN 7

APPLICANT: BARTRA ODG LIMITED

9th May 2021

ben Syrre

Ian Byrne MSc, MIOA, Dip Environmental & Planning Law

TABLE OF CONTENTS

1.0	INTRODUCTION	3
2.0	DEVELOPMENT DESCRIPTION	4
3.0	DESCRIPTION OF DEMOLITION & CONSTRUCTION ACTIVITIES	6
4.0	PRINCIPALS OF THE WASTE MANAGEMENT PLAN	9
5.0	WASTE MANAGEMENT AND RESPONSIBILITIES	10
6.0	DEMOLITION & CONSTRUCTION WASTE MANAGEMENT & DISPOSAL	10
7.0	ON-SITE WASTE REDUCTION REUSE RECYCLING AND MANAGEMENT	13
8.0	DEVELOPMENT DESCRIPTION DESCRIPTION OF DEMOLITION & CONSTRUCTION ACTIVITIES PRINCIPALS OF THE WASTE MANAGEMENT PLAN WASTE MANAGEMENT AND RESPONSIBILITIES DEMOLITION & CONSTRUCTION WASTE MANAGEMENT & DISPOSAL ON-SITE WASTE REDUCTION REUSE RECYCLING AND MANAGEMENT WASTE RECORD KEEPING CONSTRUCTION WASTE MANAGEMENT AUDITING WASTE EXPORT PERMITS / LICENSES	
9.0	CONSTRUCTION WASTE MANAGEMENT AUDITING	16
10.0	WASTE EXPORT PERMITS / LICENSES	17
Арреі	ndix I By-Product determination decision tree	



1.0 INTRODUCTION

This document presents the site-specific Construction and Demolition Waste Plan (CWMP) for the control, management and monitoring of waste associated with a proposed residential development at the former O'Devaney Gardens, Stoneybatter, Dublin 7.

The Construction and Demolition Waste Management Plan has been prepared to demonstrate how the Construction Phase will comply with the following relevant legislation and relevant Best Practice Guidelines:

Waste Management Acts 1996

Waste Management (Collection Permit) Regulations 2007 (SI No. 820 of 2007)

Waste Management (Collection Permit) Amendment Regulations 2008 (SI No. 87 of 2008)

Department of the Environment, Heritage and Local Government – Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects – July 2006

The Eastern-Midlands Region Waste Management Plan 2015-2021

EPA "Guidance on Soil and Stone By-Products in the context of Article 27 of the European Communities (Waste Directive) Regulations – Version 3 June 2019

The **Objective of this Waste Management Plan** is to minimise the quantity of waste generated by construction activities, to maximise the use of materials in an efficient manner and to maximise the segregation of construction waste materials on-site to produce uncontaminated waste streams for off-site recycling.

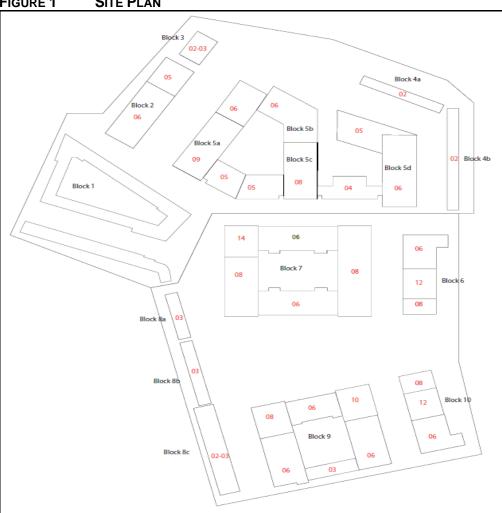
The Waste Management Plan shall be implemented throughout the construction phase of the development to ensure the following:

- That all site activities are effectively managed to minimise the generation of waste and to maximise the opportunities for on-site reuse and recycling of waste materials.
- To ensure that all waste materials are segregated into different waste fractions and stored on-site in a managed and dedicated waste storage area.
- To ensure that all waste materials generated by site activities are removed from site by appropriately permitted waste haulage contractors and that all wastes are disposed of at approved waste licensed / permitted facilities in compliance with the Waste Management Act 1996 and all associated Waste Management Regulations.



2.0 **DEVELOPMENT DESCRIPTION**

The development will consist of 1,047 no. residential units and all associated ancillary accommodation, site and development works. The Total Gross floorspace of the overall development is 102,940sqm, of which 100,646sqm is residential and 2294sqm are nonresidential uses.











3.0 DESCRIPTION OF SITE ACTIVITIES & WASTE ARISINGS

The development of the subject site will initially require the the stripping of top and sub soils and the excavation of ground to basement level. The range of works required for the Demolition & Construction Phases are summarised in Table 1. The expected construction and demolition waste that will be generated throughout the course of the development are described in Tables 2 - 6 below.

Activity Sequence	General Description
Identification of Existing Utility Services	Set up bunting, mark location of live services, including E.S.B., Gas etc.
Demolition of existing building and structures	Hard surface removal ESB sub station removal
Removal of Vegetation	e.g. Trees and vegetation
Site Preparation	Soil stripping, stockpiling, export
Infrastructure installation	Drainage, Utility ducts, power
Substructure	Basement excavation Rebar, Formwork
Superstructure	Rebar, Formwork and Pour
Roof	Rebar, Formwork and Pour and Waterproof
External Envelope	Place façade to superstructure
Internal Finishes	Mechanical & Electrical etc.
External Landscaping	Hard and soft landscaping

Table 2 Typical Construction Waste Composition

Description of Waste	%
Mixed Construction & Demolition Waste	33
Wood	28
Plasterboard (Gypsum materials)	10
Ferrous Metals	8
Concrete	6
Mixed other wastes	15
Total	100



Waste Type	Predicted tonnage to be produced	Re-U	se	Recyc	lable	Disposal					
		Tonnage	%	Tonnage	%	Tonnage	%				
Concrete	5097	5097	100	0	0	0	0				
ESB Substation	90	90	100	0	0	0	0				
Total	5187	5187	100	0		0					

 Table 3
 Predicted Demolition Waste Generation

 Table 4
 Predicted Waste Soil Generation

Waste Type	Predicted tonnage to be produced	Re-Us	se	Recyc	lable	Disp	osal
		Tonnage % Tonna		Tonnage	%	Tonnage	%
Soils	63,000	31,500	50	0	0	31,500	50

	Table 5	Predicted Construction Waste Generati	ion
--	---------	---------------------------------------	-----

Waste Type	Predicted tonnage to be produced	Re-Us	Disposal					
		Tonnage	%	Tonnage	%	Tonnage	%	
Mixed C&D	1250	125	10	1000	80	125	10	
Timber	1000	400	40	550	55	50	5	
Plasterboard	500	150 30 300 60		50	10			
Metals	250	12.5	5	225	90	12.5	5	
Concrete	200	60	30	130	65	10	5	
Mixed waste	800	160	20	480	60	160	20	
Total	4000	907.5		2685		407.5		



O'Deveaney Gardens SHD

Construction & Demolition Waste Management Plan

Description of Waste	Corresponding LoW Code
Concrete, Bricks, Tiles and Ceramics	17 01
Concrete	17 01 01
Bricks	17 01 02
Tiles and Ceramics	17 01 03
Mixture of concrete, bricks tiles & ceramics	17 01 07
Nood, Glass and Plastic	17 02
Nood	17 02 01
Glass	17 02 02
Plastic	17 02 03
Bituminous mixtures, coal tar and products	17 03
Bituminous mixtures containing other than those mentioned ir 17 03 01	17 03 02
Bituminous Mixtures including Coal Tar and Tarred products	17.03
Metals (including their alloys)	17 04
Copper, Bronze, Brass	17 04 01
Aluminium	17 04 02
_ead	17 04 03
Zinc	17 04 04
ron and Steel	17 04 05
Tin	17 04 06
Vixed Metals	17 04 07
nsulation and Construction Materials	17 06
Gypsum based construction material	17 08
Other Construction and Demolition Waste	17 09
Mixed Construction and Demolition Waste other than those nentioned in 17 09 01, 17 09 02, 17 09 03	17 09 04
Sewage Screenings	19 08 01
Paper and Cardboard	20 01 01
Nood other than that mentioned in 20 01 37	20.01 38
Soil and Stones	17 05 04
Mixed Municipal Waste	20 03 01
Hydraulic oils	13 01 01*
Fuel oils and diesel	13 07 01*

Table 6 Typical Construction Waste Types



O'Deveaney Gardens SHD

Construction & Demolition Waste Management Plan

4.0 PRINCIPALS OF THE DEMOLITION & CONSTRUCTION WASTE MANAGEMENT PLAN

Waste materials generated by construction and demolition 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.*

The Waste Management Plan specifically addresses the following points:

- Analysis of waste arisings / material surpluses
- Waste Management Responsibilities and Training
- Specific Waste Management
- Objectives for the Project including the potential to re-use existing on-site materials for further use in the construction phase.
- Methods proposed for Prevention, Reuse and Recycling
- Waste Handling Procedures
- Hazardous Waste Handling Procedures
- Waste Storage Procedures
- Waste Disposal Procedures
- Waste Auditing
- Record Keeping

5.0 WASTE MANAGEMENT & RESPONSIBILITIES

5.1 Roles and Responsibilities

Project Manager

The Project Manager will be responsible for the overall implementation of the CWMP. The Project Manager will ensure that the reporting and recording requirements are met and all necessary resources are in place to support the implementation of the plan.

Nominated C&D Waste Manager

A technically competent and appropriately trained C&D Waste Manager will be appointed by the Project Manager. The nominated person will be responsible for all aspects waste management throughout the different stages of the project including waste assessment and characterisation, implementation of the CWMP (and associated target recycling rates), and effective communication of the objectives with all the operatives associated with the project (including site staff, external contractors and suppliers). The C&D Waste Manager shall be responsible for the management of the construction waste compound.



A key objective of the nominated person will be the maintenance of accurate records on the quantities of waste / surplus materials generation and management. The recording of summary information will further assist the implementation of the plan.

Site Personnel

All personnel on site will be responsible for the effective implementation of the plan and associated procedures. All staff will receive training on waste prevention, segregation and best practice guidelines.

Staff Training

Copies of the C&D WMP will be made available to all relevant personnel on site. The Project Manager will arrange for all site personnel and sub-contractors to be instructed about / receive training on the objectives of the Project C&D waste Management Plan and materials management, and be informed of the responsibilities that fall upon them as a consequence of its provision. The topics to be covered will include;

- Project programme and requirements
- Health and Safety requirements
- > C&D WMP
- Materials to be segregated
- Segregation systems and protocols
- > Arrangement for the storage and handling of reusable materials and recyclables
- Document control requirements

Where source segregation and materials re-use techniques apply, each member of staff will be given instructions on how to comply with the Project C&D Waste Management Plan and will be displayed for the benefit of site staff.

6.0 DEMOLITION & CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

- It is proposed that from the outset of construction activities, a dedicated and secure compound containing bins, and/or skips, and storage areas, into which all waste materials generated by construction site activities, will be established within the active construction phase of the development site.
- Spill kits shall be located within the waste compound with clearly labelled instructions on how they shall be used to clean up fuel/oil spills.
- All vehicle and plant oils and liquid construction materials shall be stored in impermeable storage units.
- All diesel-powered generators shall be inspected on at least a weekly basis by a delegate of the project manager to ensure it is not leaking diesel or oils.



- All empty containers containing residual quantities of oils, greases and hydrocarbonbased liquids shall be stored in a dedicated bunded receptacle in the waste compound.
- In order to ensure that the construction contractor correctly segregate waste materials, it is the responsibility of the C&D waste manager to ensure all staff are informed by means of clear signage and verbal instruction and made responsible for ensuring site housekeeping and the proper segregation of construction waste materials.
- It will be the responsibility of the C&D waste manager to ensure that a written record of all quantities and natures of wastes exported off-site are maintained on-site in a Waste File at the Project office.
- It is the responsibility of the C&D waste manager that all contracted waste haulage drivers hold an appropriate Waste Collection Permit for the transport of waste loads and that all waste materials are delivered to an appropriately licenced or permitted waste facility in compliance with the following relevant Regulations:

Waste Management (Collection Permit) Regulations 2007 (SI No. 820 of 2007) Waste Management (Collection Permit) Amendment Regulations 2008 (SI No. 87 of 2008)

Waste Management (Facility Permit and Registration) Regulations S.I.821 of 2007 and the Waste Facility Permit under the Waste Management (Facility Permit and Registration) Amendment Regulations S.I.86 of 2008.

- Typical Waste materials that are to be generated or anticipated to be generated by construction works are classified as follows under Section 17 Construction and Demolition Wastes of the European Waste Catalogue (EWC) as detailed in Table 1.
- It is proposed that waste materials will be collected and stored in separate clearly labelled skips in a predefined waste storage area in the site compound and that these materials will be collected by a Permitted Waste Contractor holding an appropriate Waste Collection permit in compliance with Waste Management (Collection Permit) Regulations 2007 (SI No. 820 of 2007) and Waste Management (Collection Permit) Amendment Regulations 2008 (SI No. 87 of 2008) and that they will be sent for disposal or further processing to appropriately Permitted / Licensed Waste Facilities in compliance with Waste Management (Facility Permit and Registration) Regulations S.I. No. 821 of 2007 and the Waste Management (Facility Permit and Registration) Amendment Regulations S.I. No. 86 of 2008.
- Prior to the commencement of the Project, the C&D waste manager shall identify a permitted Waste Contractor who shall be employed to collect and dispose of all inert and hazardous wastes arising from the project works. In addition, the C&D waste manager shall identify all waste licensed / permitted facilities that will accept all expected waste exported off-site and will maintain copies of all relevant Waste Permits / Licences as required.



All waste soils prior to being exported off-site, shall be classified as inert, non-hazardous or hazardous in accordance with the EPA's Waste Classification Guidance – List of Waste & Determining if Waste is Hazardous or Non-Hazardous document dated 1st June 2015 to ensure that the waste material is transferred by an appropriately permitted waste collection permit holder and brought to an appropriately permitted or licensed waste facility.

Construction Waste Compound Design

A dedicated and secure construction waste storage compound shall be located adjacent to the site offices. The C&D Waste Manager shall be responsible for the management of the construction waste compound. The area shall be demarcated by fencing and shall be of sufficient size to house a minimum of 4 x 20 cubic yard roll on roll off skips for construction waste materials and 1 x 14 cubic yard covered skip for mixed municipal wastes generated by site staff.

Signage shall be installed at each skip to clearly identify the nature of waste that may be placed within it.

Spill kits and mobile bunds as shown in Figures 4 & 5 will located within the waste compound.



Figure 3 Construction waste segregation compound design

Individual construction waste skips shall accommodate waste wood, metal, plastics, gypsum products.







7.0 ON-SITE WASTE REDUCTION REUSE RECYCLING AND MANAGEMENT

Waste will arise on the project mainly from bulk excavation and general construction activities relating to the roads and services. The site management team will order materials and arrange storage in order to minimise the potential for waste on site.

- Materials will be ordered on an "as needed" basis to prevent over supply
- Materials shall be correctly stored and handled to minimise the generation of damaged materials
- Materials shall be ordered in appropriate sequence to minimise materials stored on site
- All staff and Sub contractors shall be advised through tool box talks on how to dispose of their waste correctly on-site.
- Concrete blocks, engineering bricks and clay bricks that are surplus will be broken up and used for hardstanding areas.
- Excess wood will be segregated in separate skips and sent for recycling. The site management will police to make sure that the segregation of the wood skip is kept exclusively for wood.
- Plastic arising from general waste or packaging will be segregated and stored in separate skips. Again, the site management team will ensure that there is no contamination of the segregated skips on site.
- Any excess metal generated on site from reinforcement steel and from the demolition element of the project will be kept in the one area and removed off site to a licenced 13



metal recycling facility. The C&D Waste Manager. will keep certification of this on file on site.

- Top soil that is required for the soft landscaping will be measured and this quantity will be retained on site. The soil that will have to be removed off site will be removed to a licenced landfill facility. The C&D Waste Manager. will keep records of the removal and the certification on file on site.
- Any hazardous material discovered during the course of the construction shall be reported to the C&D Waste Manager. The relevant authorities will be informed and an agreed method for the removal of the hazardous material.
- Construction waste material such as damaged or broken concrete slabs, blocks, bricks and tiles generated that is deemed by the Project Engineer to be suitable for reuse on the Project site for ground-fill material will be processed if necessary, by onsite mobile crushing plant. This initiative shall provide a positive environmental impact to the construction phase as follows:
- Reduction in the requirement for virgin aggregate materials from quarries
- Reduction in energy required to extract, process and transport virgin aggregates.
- Reduced HGV movements associated with the delivery of imported aggregates to the site
- Reduced noise levels associated with reduced HGV movements
- Reduction in the amount of landfill space required to accept C&D waste

Waste Soils & Stones Export & Article 27 Declarations

As the subject development site is currently a brownfield site, top and subsoils will be characterised as being inert, non-inert or hazardous in accordance with *Landfill Directive* (2003/33/EC) by conducting site investigations. Soils at the site have been previously characterised by O'Callaghan Moran (Environmental Site Assessment & Waste Characterisation Assessment, September 2020) and are classified as both non-hazardous and hazardous in accordance with the Landfill Directive (2003/33/EC).

Excavated rock, soils and stones shall be removed off-site throughout the development and exported by an appropriately permitted haulage contractor to an appropriately permitted/licenced waste acceptance facility.

The project manager shall inform Dublin City Council's Environment and Waste Department of the waste facilities to which inert and hazardous soils and the volumes of which shall be exported to.

Excavated excess soils that are required to be exported off-site shall be tested to determine their classification as hazardous or non-hazardous in accordance with EPA Waste Classification – List of Waste & Determining if Waste is Hazardous or Non-Hazardous. Non-Hazardous soils may be suitable for re-use in other construction sites and may be declared as a by-product in accordance with Article 27 of the European



O'Deveaney Gardens SHD Construction & Demolition Waste Management Plan 14

Communities (Waste Directive) Regulations 2011. Article 27 requires that the material classified not a waste but a by-product must meet specific criteria and that that a declaration of a material as a by-product is notified to the EPA. The EPA publication *"Guidance on Soil and Stone By-Products in the context of Article 27 of the European Communities (Waste Directive) Regulations – Version 3 June 2019* shall be considered in this regard. Appendix I presents the schematic process by which a material is determined as a waste or a by-product.

The records of all WAC tests shall be maintained in the site's Waste File including the destination of the facility that contaminated soils are exported to and the details of the permitted haulier's Waste Collection Permit.

It is estimated that c. 42,000m³ of soils will be excavated to facilitate the development.

Inert Wastes

The waste material generated by site construction works will be mixed Construction & Demolition waste, comprising of soil and stone, concrete, tiles, ceramics, and bricks.

Hazardous Wastes

The management of all hazardous waste arisings if they occur, shall be coordinated by the C&D Waste and the Health and Safety Managers.

Hazardous wastes such as waste oils and construction liquids shall be stored in dedicated clearly labelled impermeable containers in the waste compound prior to removal off-site.

Contaminated Soil

Where contaminated soils/materials are discovered or occur as a result of accidental spillages of oils or fuels during the construction phase, these areas of ground will be isolated and tested in accordance with the 2002 Landfill Directive (2003/33/EC) for contamination, and pending the results of laboratory WAC testing, will be excavated and exported off-site by an appropriately Permitted Waste Contractor holding an appropriate Waste Collection permit and that this hazardous material will be sent for appropriate treatment / disposal to an appropriately Permitted / Licenced Waste Facility.

Invasive Species Species listed on the Third Schedule of S.I. 477/2011 (as amended)

Where site areas are identified to contain Japanese Knotweed or other invasive species infestation, a Treatment Plan shall be developed in accordance with published guidelines (namely, The Environment Agency, Managing Knotweed on Development Sites, Knotweed Code of Practice, 2013). For the subject site, it would be proposed to utilise



controlled excavation with off-site disposal ("dig and dump") to eradicate any identified areas of Japanese Knotweed. Each identified stand of Japanese knotweed shall be excavated under the supervision of a specialist invasive species contractor, whereby all viable knotweed material (crown, stem, rhizome) and contaminated soil will be removed from the site and disposed of at a licensed landfill facility such as Integrated Material Solutions, Hollywood Great, Naul, Co. Dublin.

All necessary protection measures shall be implemented to prevent the spread of the knotweed, such as thorough cleaning of machinery, good hygiene amongst operatives etc. Following removal of the material, a monitoring programme shall be maintained to check any re-growth.

8.0 WASTE RECORD KEEPING

It is the responsibility of the C&D Waste Manager that a written record of all quantities and natures of all wastes reused / recycled and exported off-site during the project are maintained in a Waste File at the Project office.

The following information shall be recorded for each load of waste exported off-site:

- > Waste Type EWC Code and description.
- Volume of waste collected.
- Waste collection contractor's Waste Collection Permit Number and collection receipt including vehicle registration number.
- > Destination of waste load including Waste Permit / Licence number of facility.
- > Description of how waste at facility shall be treated i.e. disposal / recovery / export
- Details of all Article 27 declarations

The waste records shall be issued to Dublin City Council's Environmental and Waste Department as required / requested.

Where practicable, a computerised monitoring tool may be employed. This system will enable the Contractor to measure and record the quantity of waste generated, and identify possible savings on wastage. Thus, each consignment of C&D waste taken from site will be subject to documentation and recording. An indicative template is contained in Figure 6, to ensure that full traceability of materials to its final destination.

Verifiable and validated tracking and authorisation documentation will be maintained for all wastes destined for re-use, recovery, recycling or disposal. Justification will also be provided where a disposal option had been employed.

In addition a record will be kept of all materials as they arrive on site detailing the assignment of specific uses within the works. This will enable the monitoring of the quantity and type of waste produced at various stages throughout the project.



9.0 CONSTRUCTION WASTE MANAGEMENT AUDITING

The effectiveness of a Waste Management Plan (WMP) and its implementation, will be subject to regular audits by the C&D Waste Manager throughout the duration of the project in accordance with the Audit Plan (to be developed during the works).

The regular audits will focus on materials inputs to the project and the waste outputs for each operation identifying additional opportunities for waste reduction, re-use and recycling.

The audits will also investigate the operational factors and management policies that contribute to the generation of waste and identify appropriate corrective actions, where necessary.

Performance targets will be developed, e.g. an 85% overall recycling target, successes and failures will be recorded and Action Plans will be developed to address any issue which arise.

Inspections of the waste storage areas will be undertaken on a weekly basis, issues relating to housekeeping, inappropriate storage and / or segregation will be actioned at the earliest practicable opportunity.

The C&D Waste Manager will record the findings of the audits, including waste types identified, quantities of waste arising, final treatments and cost, in a report to be available to the Local Authority as required during the course of the works.

Details of the inputs of materials to the construction site and the outputs of wastage arising from the project will be investigated and recorded in the Final Waste Audit, which will identify the amount, nature and composition of the waste generated on the site.

The Final Waste Audit will examine the manner in which the waste is produced and will provide a commentary highlighting how management policies and practices may inherently contribute to the production of construction and demolition waste.

The measure waste quantities will be used to qualify the costs of management and disposal in a Waste Audit Report, which will also record lessons learned from these experiences, which can be applied to future projects.

10.0 WASTE EXPORT PERMITS/LICENCES

It is the responsibility of the C&D Waste Manager that a written record of all quantities and natures of all wastes reused / recycled and exported off-site during the project are maintained in a Waste File at the Project office.

The nominated groundworks contractor will be responsible for the excavation of soils and their subsequent transport off-site to a permitted waste acceptance facility.



The nominated groundworks contractor's vehicles exporting material off-site will operate under a valid Waste Collection Permit.

The nominated groundworks contractor's vehicles shall transport waste materials from the site to appropriately permitted / licenced facilities.

Copies of all relevant Waste Collection Permits and Waste Facility Permits / Waste Licences shall be maintained by the C&D Waste Manager.

Pending the award of the groundworks contract, copies of the relevant Waste Collection Permits and Waste Facility Permits / Waste Licences shall be made available to Dublin City Council.

All monthly waste logs shall include the gate receipt from the facility accepting the waste load. This receipt shall correspond with the load removed from site.



nce																															
Document Refere Number	ABC 12345																														
Documents on File	Yes																														
Documents I Received	Yes																														
Estimate of Actual C Waste (ton)	20																														
Haulage Company	ABC Hauliers																														
 Weight (ton)	20																														
Registration Number	15 D 12345																														
Container Size	10m3																														
Container Type	8 Wheeler Truck																														
Destination Treatment/Disposal Method Container Container Registration Number Weight Haulage Company Estimate of Actual Documents Documents Documents Reference Type Size (100) Received on File Number	Recycling to Landfill																														
Destination	Landfill at Local Authority	Facility																													
Time of Collection	10.45am																														
Date of Collection	25/05/2016																														
EWC	17 05 04																														
Number Waste Description	Sample - Sub soil																														
Number	1	,	3 2	4	5	9	7	8	6	10	11	12	13	14	15	16	Δ	18	61	07	21	22	23	54	25	26	12	28	50	30	

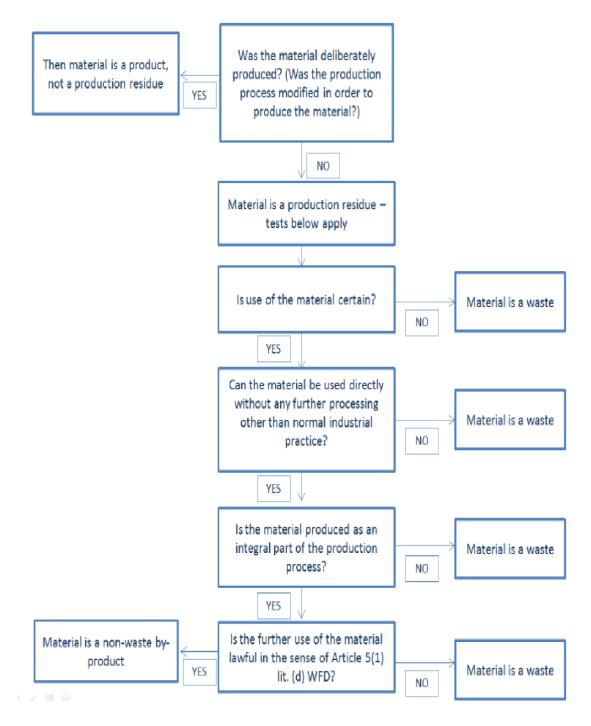
Figure 7 C&D Waste Tracking Template



O'Deveaney Gardens SHD Construction & Demolition Waste Management Plan 19

Appendix I

Decision tree for determining whether a material is a by-product



Byrne Environmental

O'Deveaney Gardens SHD

Construction & Demolition Waste Management Plan