
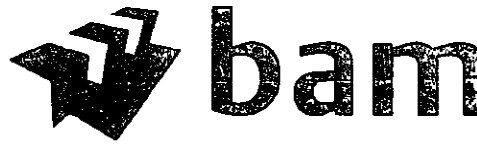

APPENDIX C: Waste Management Plan *(included)*

PLAN NO.	DATE REC'D
PARTX/0017	06 JUL 2017
DUBLIN CITY COUNCIL	
Planning Dept	Compliance

WMP	Waste Management Plan – NCH Main Contract Phase A		
Site Specific Waste Management Plan	Note: Always print or copy to double-sided pages	REV: 06	DATE: June 2017



PLAN NO.	DATE REC'D
PARTY/0017	06 JUL 2017
DUBLIN CITY COUNCIL Planning Dept.	Compliance

National Childrens Hospital (NCH) Project

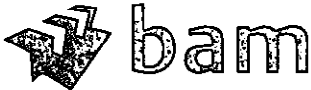
Main Contract Phase A

**Construction
Waste Management Plan**

Site Revision 00

Env. Dept. Revision No: 06				
Reason For Issue:				Client Approval (if required)
	Originator	Reviewer	Approver	
Name:	Heidi Murphy Yvonne Brophy	Jim Dillon	Darren Devane Aidan O'Connell	N/A
Signature:				N/A
Date:				N/A


Copy	Circulation:	Name	Company	Location
1	Contract Manager	Darren Devane	BAM Building	Site Office
2	Project Manager	Jim Dillon	BAM Building	Site Office
3	General Foreman	Pat Fennelly	BAM Building	Site Office
4	Site Safety, Health & Environmental Officer	Heidi Murphy Yvonne Brophy	BAM Building	Site Office
5	Co. Environmental Coordinator	Jan Gottsche	BAM	Head Office, Kill

WMP	Waste Management Plan – NCH Main Contract Phase A	
Site Specific Waste Management Plan	Note: Always print or copy to double-sided pages	REV: 06 DATE: June 2017

Document Control Sheet for Waste Management Plan

	Originator	Reviewer/Approver
Name:	Jan Gottsche	Kathy O'Leary
Date:	20.12.2016	20.12.2016

Site Name:	Document to be revised:	Env. Dept Doc Rev No:	Site Rev. Doc No:	Reviewed on site by:	Rev Date

WMP	Waste Management Plan – NCH Main Contract Phase A		
Site Specific Waste Management Plan	Note: Always print or copy to double-sided pages	REV: 06	DATE: June 2017

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WMP	Waste Management Plan – NCH Main Contract Phase A		
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WMP	Waste Management Plan – NCH Main Contract Phase A		
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1. General Details

Project Name	National Childrens Hospital – Main Contract Phase A		
Project Location	St. James Hospital, St. James Street, Dublin 8		
Client	National Paediatric Hospital Development Board		
Contracts Manager	Darren Devane / Aidan O'Connell		
Start Date	July 2017	Duration (Months)	48 Months
Completion Date (Expected)	December 2020		
Primary Project Type	Main Build		


General Description

The NPH is the largest, most complex and significant capital investment project ever undertaken in healthcare in Ireland. It is the catalyst that will enhance how acute health services are delivered and will result in better clinical outcomes for children and young people. The hospital will bring together into one entity the three existing children's hospitals; Our Lady's Children's Hospital Crumlin, Temple Street Children's University Hospital and the National Children's Hospital at Tallaght Hospital. It will be tri-located on one campus with SJH and a planned maternity hospital. This tri-location model of service delivery is being undertaken to ensure the best outcomes for children, young people, mothers and infants.

The NPH will be a world-class facility providing secondary paediatric services for the greater Dublin area and specialist services for the country as a whole. It will be an academic health sciences hospital that values world-class research, education and innovation, which in turn will drive excellence in clinical care. The proposed development consists of a 7 storey structure over 2/3 below ground levels within a gross internal floor area of 118,113m² with an additional 32,000 m² provided for underground parking, bringing the total floor area of the building to 150,113m².

The NPH will provide:

- 380 in-patient beds including 60 critical care beds, all in single en-suite rooms;
- 93 day-care beds;
- Provision of outpatient consulting examination rooms ;
- Provision of an Emergency Department and urgent care facilities;
- Purpose built accommodation for parents;
- ED and urgent care facilities; and
- Provision of 1000 car parking spaces.

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Site Location

SJH Campus, James's Street, Dublin that includes the Davitt Road staging area.

This Dublin city centre site is located on a 4.85ha site at the western side of the St. James's Campus that is bound to the east by the existing adult hospital; the north by Mount Brown / Faulkner Terrace; the west by Cameron Square, Brookfield Road and South Circular Road; and to the south by St. James's Walk Park and the Rialto Luas stop. The site comprises of a number of buildings and services which are being decanted and vacated to make way for the new hospital. All Contractor vehicles accessing via Rialto Gate must be approved by SJH and access onto the NPH site from James's Street is strictly prohibited.

Work Sequence


Hoarding
 Archaeology
 Service Diversion Works
 Drimnagh Sewer
 Utility Tunnel
 Piling line / Secant Wall
 Bulk Excavation of site
 Management of Groundwater
 Access Road Realignment
 Waterproofing
 Basement Works
 Concrete Placement
 Reinforced concrete Frame
 Structural Steelwork
 Façade Installation
 M&E
 Fitout

8. Restrictions

Site Access
 Parking
 Working Hours
 Live Services
 Live Hospital campus
 Noise & Vibration levels
 Aspergillus

9. Other Work Activities on Site:

Live Hospital Environment

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Waste Management Strategy

2.1 Introduction

The purpose of this plan is to ensure that all waste materials arising from the *St. James Hospital NCH Enabling Works Project* are managed and disposed of in accordance with the:

- Provisions of the Waste Management Acts 1996 – 2013 and associated regulations;
- Project Specific Construction Requirements (Contract Documents);
- The Company Environmental Management System, and;
- Best Practice Guidelines on the preparation of waste management plans for construction and demolition waste projects

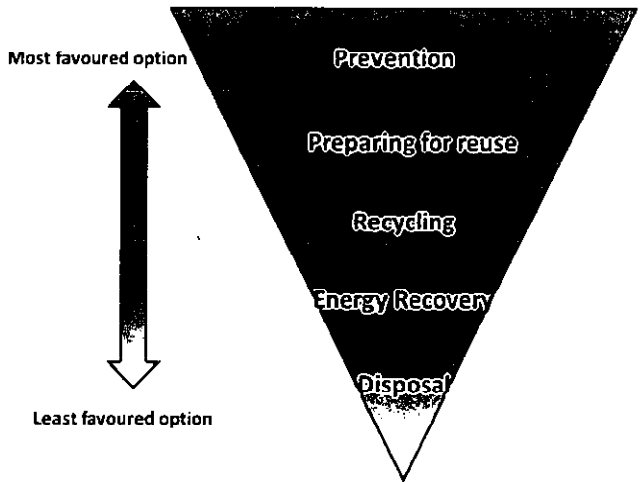
The plan will detail:

- Wastes arising from the Substructure Works
- Methods and locations used for their handling and storage on site, including a site map showing waste management areas (in Appendix 1)
- Waste Collection Permits required for the removal of waste from site
- The disposal facilities for the waste streams and their associated Waste License or Permit

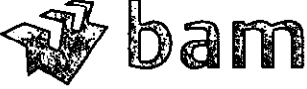
2.2 Recycling/Waste Management Goal

The recycling / waste management goal for the project is to manage all waste in accordance with the relevant statutory provisions and the waste hierarchy:

The waste management strategy for the project will follow the accepted waste hierarchy.




- Whenever possible materials for construction activities shall be ordered as to prevent the minimum storage time and kept in the storage area before release to site for use.

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- Materials shall be ordered, where possible, in sizes to prevent wastage e.g. in form of offcuts and waste to be able to be returned to the original supplier e.g. plastic pipe.
- Materials delivered to the project will be received and controlled by the project manager and general foreman. Materials will be stored to minimise the potential of damage or wastage. Measures will include off-ground storage e.g. on pallets, remaining in original packaging, protection from rain damage or collision by plant or vehicles.
- The materials storage area will be secured during out of hours to prevent unauthorised access.
- A waste management compound shall be set up to handle incoming waste from construction activities. This will be designed to facilitate the segregation of key waste streams to maximise the opportunity to re-use, recycle and return wastes generated on site.
- The segregated waste will be placed in skip containers. Waste will be placed in the skips in such a way to minimise 'empty' void space.

The skips will be labelled to clearly highlight waste stream for each skip. As a minimum skips and containers will be provided for segregating of the following key waste streams:

Mixed Metal	Timber	General/Mixed C&D		Hazardous
--------------------	---------------	------------------------------	--	------------------

- Hazardous waste will be kept in a secure area away from other wastes to ensure no contamination takes place.
- Separate areas within the waste compound shall also be allocated for the storage of plastic piping awaiting return to supplier, waste tyres and WEEE (where applicable). The layout of the waste compound will be provided in Appendix 1 of the contract-stage version of this Plan.

Waste & Recycling Targets:


- Achieve >96% recovery rate for construction and site office waste
- ≤ 10.5t C&D waste generated per 100m² (gross internal floor area) (building projects only)
- 100% recycling of surplus reinforcement where possible
- Reuse of all earthworks materials on site – Zero export where possible (excluding contaminated materials)
- No contamination of skips – No additional costs due to inappropriate materials being placed in skips designated for particular waste streams

2.3 Strategy to Achieve the Goal

The waste management goal shall be achieved through the implementation of several guiding principles in accordance with the waste hierarchy, namely:

- Giving preference to the purchase of materials with minimum packaging;
- Storing materials in designated areas and separate from wastes to minimise damage;
- Establishing take back schemes and returning packaging and unused materials to the suppliers where possible;
- No pallets to be placed in skips on site;

- Maximising the reuse of soils and rock on site during the construction of the project;

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- Segregating construction and demolition wastes into reusable, recyclable and non-recyclable materials;
- Reusing and recycling materials on site during construction where practicable;
- Recycling other recyclable materials through appropriately permitted / licensed contractors and facilities; and
- Disposing of non-recyclable wastes to licensed landfills.

2.4 Waste License / Permit Requirements

The following statutory restrictions apply with regard to the collection and treatment of waste in Ireland:

Waste Management (Collection Permit) Regulations 2008

- All types of waste may only be collected and transported from site by a contractor who holds a National Waste Collection Permit for the type of waste being collected.
- Waste shall only be disposed of or recovered at a site which holds a Licence or Permit under the Waste Management (Facility, Permit and Registration) (amend) Regs 2014.
- We must obtain a copy of the 'end disposal site' Licence or Permit for the waste we are disposing of.
- Copies of all relevant licenses and permits shall be kept on site and attached to this plan in Appendix 2, namely waste collection permits and waste facility permits.

Waste Management (Hazardous Waste) Regulations 1998

- Hazardous waste removed from site must be accompanied by a Waste Transfer Form (WTF) as per European Communities (Shipments of Hazardous Waste Exclusively within Ireland) Regulations 2011.
- Hazardous waste to be removed from Ireland for treatment elsewhere must be accompanied by a Transfrontier Shipment Form in accordance with the Waste Management (Shipment of Waste) Regulations 2007.


2.5 Hazardous Wastes Management

Hazardous wastes pose a risk to the health and safety of personnel as well as the environment. The Site Safety, Health & Environmental Officer should be notified of any hazardous waste or suspected hazardous waste, and consulted for assistance with handling procedures. Under the health and safety plan risk assessments and procedures are available for:

- Excavating in Contaminated Ground (PRA31-1)
- Buried asbestos in landfill (JSRA 31-2)
- Removing asbestos from existing buildings (PRA24-1)
- Environmental Bulletins 16 & 19 'Asbestos Removal' to be adhered to

2.6 Duty of Care

Responsibility for waste management lies with the principal contractor unless a contractual agreement with sub-contractors to manage their own waste arisings exists.

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Site Specific Waste Management Plan	Note: Always print or copy to double-sided pages	REV: 06	DATE: June 2017

2. Waste Identification & Management Techniques

Waste Management Set Up & General Procedures

BAM will provide a dedicated waste handling and segregation area as shown on the site map in Appendix 1.

Waste segregation should occur where possible.

The Site Agent/ Foreman will:

- Oversee all waste handling operations;
- Regularly check skips to ensure correct segregation has been achieved, void space is minimised and that no contamination has taken place;
- Ensure the compound is kept tidy and in good appearance at all times; and
- Order and change skips as required.

Each waste skip and bin will be clearly labelled as to the type of waste contained.

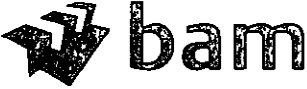
Waste Procedures

BAM will provide a dedicated fenced off waste handling and segregation area (waste compound). Construction and demolition waste of the non-bulk type will be brought to the waste compound for sorting and segregation into designated skips for off-site recycling or disposal. Skips/bins shall be distributed around the site for the collection of rubbish and non bulk type waste, for transfer to the waste compound.

A covered miniskip/bin will be provided for all food wastes and emptied on a daily basis. Miniskips shall also be provided in the vicinity of the offices for office wastes.

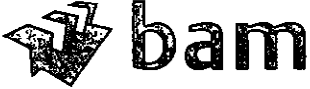
The waste compound and other waste areas will be large enough to ensure safe delivery and collection of skips and waste containers. Each waste skip and bin will be clearly labelled as to the type of waste contained.

Waste areas are shown on the site map in Appendix 1.

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3. Waste Contractors

Type of Waste Contractor	Name of waste Contractor	National Waste Collection Permit (NWCP) Number	Waste Facility Permit No./Waste License No./COR No.	
General Waste Contractor(s)	AES C/O Bord na Mona Main Street, Newbridge, Co.Kildare	NWCPO-08-10601-03	WO222-01 Coldwinters, Blakescross, Lusk, County Dublin	
General Waste Contractor(s) (For Hegarty Demolition)	Allied Environmental, Clonmellon Industrial Estate, Clonmellon, Navan, Co. Meath	NWCPO-12-11002-01	WFP – KE-15-0080-01 Unit 74A, Naas Industrial Estate, Naas, Co Kildare	
C&D Waste Contractor(s)	AES C/O Bord na Mona Main Street, Newbridge, Co.Kildare	NWCPO-08-10601-03	WO222-01 Coldwinters, Blakescross, Lusk, County Dublin.	
Hazardous Waste Contractor(s) (Asbestos)	Rialta Environmental Greenogue Business Park, Rathcoole, Co Dublin(For Demolition Services)	NWCPO-10-01298-02 J Ryan Haulage, Stringfield Ballywilliam Enniscorthy, Co. Wexford	WO193-03 (Rialta)	
Hazardous Waste Contractor(s) (Used needles)	SRCL, 430 Beech Road Western Industrial Estate, Naas Road, Dublin 12	NWCPO-09-01178-02	55-2 Unit 420-230 Beech Road, Western Industrial Estate, Naas Road, Dublin 12	
Excavated Materials Waste Contractor(s)	Mc Kenna Haulage Oerrymullen, Robertstown, Naas Co. Kildare	NWCPO – 14 – 11-11290-01	WO247-01 Behan Land Restoration Limited Blackhall Soil Recovery Facility Blackhall Punchestown, Naas Co. Kildare WFP – KE – 15 – 0354-01 Seamus Mc Caul Blossom Hill House Ballinakil, Broadford, Co. Kildare	
Recyclables/ Mixed Waste Contractor(s)	Paper	AES C/O Bord na Mona Main Street, Newbridge, Co Kildare	WO222-01 Coldwinters, Blakescross, Lusk, County Dublin	
	Plastic	AES C/O Bord na Mona Main Street, Newbridge, Co Kildare	WO222-01 Coldwinters, Blakescross, Lusk, County Dublin	
	Timber	AES C/O Bord na Mona Main Street, Newbridge, Co.Kildare	WO222-01 Coldwinters, Blakescross, Lusk, County Dublin	
	Timber (Hegarty Demolition)	Allied Environmental, Clonmellon Industrial Estate, Clonmellon, Navan, Co Meath	NWCPO-12-11002-01	WFP – KE – 15 – 0080-01 G&J O' Neill Enterprises LLS Unit 74A Naas Industrial Estate, Naas, Co. Kildare
	Metal (Hegarty Demolition)	The Hammond Lane Metal Company Ltd Pigeon House Rd, Kingsend, Dublin 4	WCP-KK-11-580-01 (Mulligan)	WFP – DS-14-0012-02 The Hammon Lane Metal Company Limited, Craig Avenue, Clonsilla, Dublin 22

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4. Waste Volumes

Company Reporting


BAM request all waste contractors to submit waste reports to the Environmental Coordinator on a quarterly basis. Waste statistics are compiled in accordance with the Company Corporate Social Responsibility (CSR) requirements, which has been developed in accordance with the Global Reporting G4 standard, Greenhouse Gas Protocol and CDP questionnaire. Under the reporting requirements, waste contractors issue reports detailing the volumes of waste generated and the waste destination for their sites.

Site Reporting

The NCH Enabling Works Project site will maintain a waste log of all waste removed from site to ensure all movements are recorded on site for Local Authority Inspections. The waste log will contain the following information

- Date of collection
- Waste description (*as per the List of waste / European Waste Catalogue (EWC)**)
- Name of waste collector/haulier and National Waste Collection Number (NWCP)
- Destination of waste and Facility Permit/Licence Number
- Weight

Waste Log – (Refer to Appendix 5 for information)						
Date of Collection	Waste Collector	NWCP No	Destination of waste	Waste Facility permit/Licence No	Waste type	Weight

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5. Communication and Responsibility

6.1 Communications

All employees and contractors are required to undertake a site induction prior to conducting any work on site. At this induction the waste management goals and strategy shall be made clear and the employees shall be made aware that they are responsible for ensuring the management of waste in accordance with this management plan. 3 Toolbox talks on environmental and waste issues shall be conducted quarterly. For further details refer to the Site Environmental Management Plan.

Progress on the implementation of the waste management plan will be communicated to staff at the monthly safety meeting and at internal progress meetings.

6.2 Cost Tracking


The Site Agent (or similar) is responsible for tracking the costs associated with the implementation of the waste management plan. It is essential that waste costs are communicated back to personnel, particularly if additional charges are incurred due to contamination of skips with other wastes.

6.3 Responsibilities:


The Project Manager is responsible for the implementation of this Waste Management Plan and for ensuring that activities on site comply with the requirements of the Waste Management Acts, 1996 to 2013 and associated regulations.

All site engineers and foreman shall be responsible for monitoring the implementation of this management plan through regular site inspections. Monitoring should be recorded on the relevant checklists (refer to Section 7).

Task	Frequency	Responsible	Name & Number
Waste Management Plan Implementation	Ongoing	Project Manager	Jim Dillon: 087 2041602
Tracking costs	Ongoing (updated monthly)	QS	Keith Davey: 087 1959287
Notification of skip contamination	At least weekly	General Foreman	Pat Fennelly: 086 2744563
Inspections of skips, maintenance of skip area	At least weekly	General Foreman	Pat Fennelly: 086 2744563
Order and exchange skips	As required	General Foreman	Pat Fennelly: 086 2744563
Monitoring waste management implementation	Ongoing	General Foreman	Pat Fennelly: 086 2744563
Issuing warning for illegal dumping in skips	As required	General Foreman	Pat Fennelly: 086 2744563
Liaising with Client, Neighbours, other contractors and regulatory bodies	As required	Project Manager	Jim Dillon: 087 2041602
Return printer / copier cartridges	As required	Site Administrator / Receptionist	David Cheevers
Provide advice on hazardous waste handling and disposal	Ongoing	Environmental Coordinator	Jan Gottsche: 087 7380994
Undertaking toolbox talks on waste procedures	3 per quarter	Site Safety, Health & Environmental Officer	Heidi Murphy: 087 2041602
Keeping records (eg checklists)	Weekly	Site Safety, Health & Environmental Officer	Heidi Murphy: 087 2041602 Yvonne Brophy: 086 3354519

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Completing hazardous waste consignment note	As required	Specialist Hazardous Waste Contractor	Rialta: 01 4018000
Internal audit	Quarterly	BAM Environmental Coordinator & Site Safety, Health & Environmental Officer	Jan Gottsche: 087 7380994

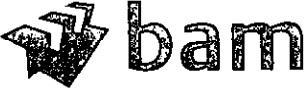
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6. Monitoring and Audit

Monitoring of the waste management plan will be undertaken at various levels. The Project Manager is responsible for tracking quantities of material sent for recycling, recovery or disposal and costs associated with each waste stream.


Monitoring the on site implementation of waste handling procedures shall be undertaken by the General Foreman on an ongoing basis and should be reported weekly as part of the Foreman's Weekly Safety & Environment checklist. Monitoring of the skips in the main compound is undertaken by the General Foreman as detailed before, and this is checked by the Safety, Health & Environmental Officer once a week as part of the general environmental inspection. Inspection reports are kept in a file on site by the Site Safety, Health & Environmental Officer. In consultation with the Site Safety, Health & Environmental Officer the General Foreman shall be responsible for any action required as a result of the weekly inspection to ensure compliance with the waste management procedures.

An audit of the waste management plan and procedures will be conducted by the Environmental Coordinator at three to six month intervals, as specified in the Site EMP.

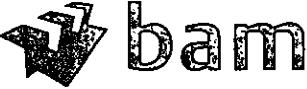
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Appendix 1: Site Map (Showing waste storage areas)

To be updated

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Appendix 2: Waste Licenses & Permits (Refer to folder HSE 03A)

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Appendix 3: Waste Contractor Checklist

This checklist should be completed for every waste contractor removing waste off site.

Waste Contractor Checklist

Yes No

1. Do you have a Waste Collection Permit (WCP) for EVERY Waste Contractor that collects ANY waste from the site (full copies)
 2. Is the waste contractor permitted to collect the type of waste in question?
Is the specific waste type being collected detailed in the waste collection permit?
 3. Have you contacted the waste contractor and asked what licensed / permitted facility our waste is being brought to?
 4. Is this licensed / permitted facility stated in the waste collection permit? If not, the waste contractor should be contacted and asked.
 5. Have you checked the waste facility permit / license to see if they can accept the waste in question? (It is very important to check this if the waste is hazardous)
 6. Have you checked the waste transfer notes comply with EA-20 Waste Transfer Notes
- Environmental Alert 25 'Waste Collection Permits, Waste Permits and Waste Licences' to be adhered to

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Appendix 4: Definitions

Re-use

Products or components that are not waste are used again for the same purpose for which they were conceived.

Recycling

Any recovery operation by which waste materials are reprocessed into products, materials or substances.

Recovery

Any operation the principal result of which is waste serving a useful purpose by replacing other materials which would otherwise have been used to fulfill a particular function, or waste being prepared to fulfil that function, in the plant or in the wider economy.

Disposal

Any operation which is not recovery even where the operation has as a secondary consequence the reclamation of substances or energy. Annex I sets out a non-exhaustive list of disposal operations.

Inert Waste


Waste that -

- Does not undergo any significant physical, chemical or biological transformations.
- Will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter, or be adversely affected by other matter, including waters, with which it comes into contact in a way that causes or is likely to cause environmental pollution, or
- Will not endanger the quality of surface water or groundwater.

Hazardous Waste

Waste which displays one or more of the hazardous properties listed below:-

- Explosive
- Oxidizing
- Highly flammable (liquids, substance, solid liquid, gaseous substance)
- Flammable liquid substances
- Irritant
- Harmful
- Toxic
- Carcinogenic
- Corrosive
- Infectious
- Toxic for reproduction
- Mutagenic
- Waste which releases toxic or very toxic gases in contact with water, air or an acid
- Sensitizing substances
- Eco-toxic
- Waste capable by any means, after disposal, of yielding another substance, e.g. a leachate, which possesses any of the characteristics listed above.

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Site Specific Waste Management Plan	Note: Always print or copy to double-sided pages	REV: 06	DATE: June 2017

Appendix 5: Waste Log