

Environmental Management System

Document Title: EP12.1 WASTE MANAGEMENT PLAN

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1.0 INTRODUCTION

This document is an Environmental Procedure for activities relating to Waste Management at 2SFG Sandycroft

The objective of the Site Waste Management Plan is to ensure activities upon the 2SFG Sandycroft site are carried out in such a way that the generation of waste is minimised, utilising the principles of reduction, re-use and recycling.

Waste materials disposal will be in accordance with Duty of Care Requirements.

The aims of this procedure incorporating duty of care are to promote sustainability and avoid causing environmental damage or any criminal offence through the mishandling of materials.

The plan consists of statutory / legislative references, definitions, details of personnel roles and responsibilities, control procedures, monitoring, measuring and guidance information.

The 'Site Waste Management Plan' assists individual projects to minimise waste and forms the basis of 2SFG waste reduction programme.

2.0 SCOPE

The waste management plan is relevant to all site operations at 2SFG Sandycroft and working with our suppliers and customers to reduce waste and avoid environmental damage along the supply chains.

This plan confirms waste generated, what will be recovered and reused on site or transferred to other premises where recovery or recycling will take place.

The plan will determine the areas of responsibility for waste management on site and the controls in place that are to be followed.

Forthcoming projects planned or in progress are also highlighted in the site waste management action plan looking at a process of continual improvement.

Waste management will include not only raw materials and packaging but also the use of utilities such as water and electricity to be commensurate to a plan encompassing a comprehensive environmental protection strategy.

3.0 WASTE DEFINITION

Waste is defined in the Environmental Protection Act as:

- (a) Any substance which constitutes a scrap material or effluent or otherwise.
- (b) Any unwanted surplus arising from the application of any process.
- (c) Any substance or article which requires to be disposed of as being broken, worn out, contaminated or otherwise spoiled.

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4.0 WASTE MANAGEMENT DEFINITION

Waste Management is defined as the minimising, controlling, separating and disposal of all wastes arising from 2SFG Sandycroft activities. Importantly in fulfilling the requirements of legislation and Best available techniques as required by our EPR permit., waste management incorporates the hierarchy of Reduction, Reuse and recycling, such that they do not become wastes.

Schematic diagram on page 3 defines the process to be considered prior to the decision to dispose.

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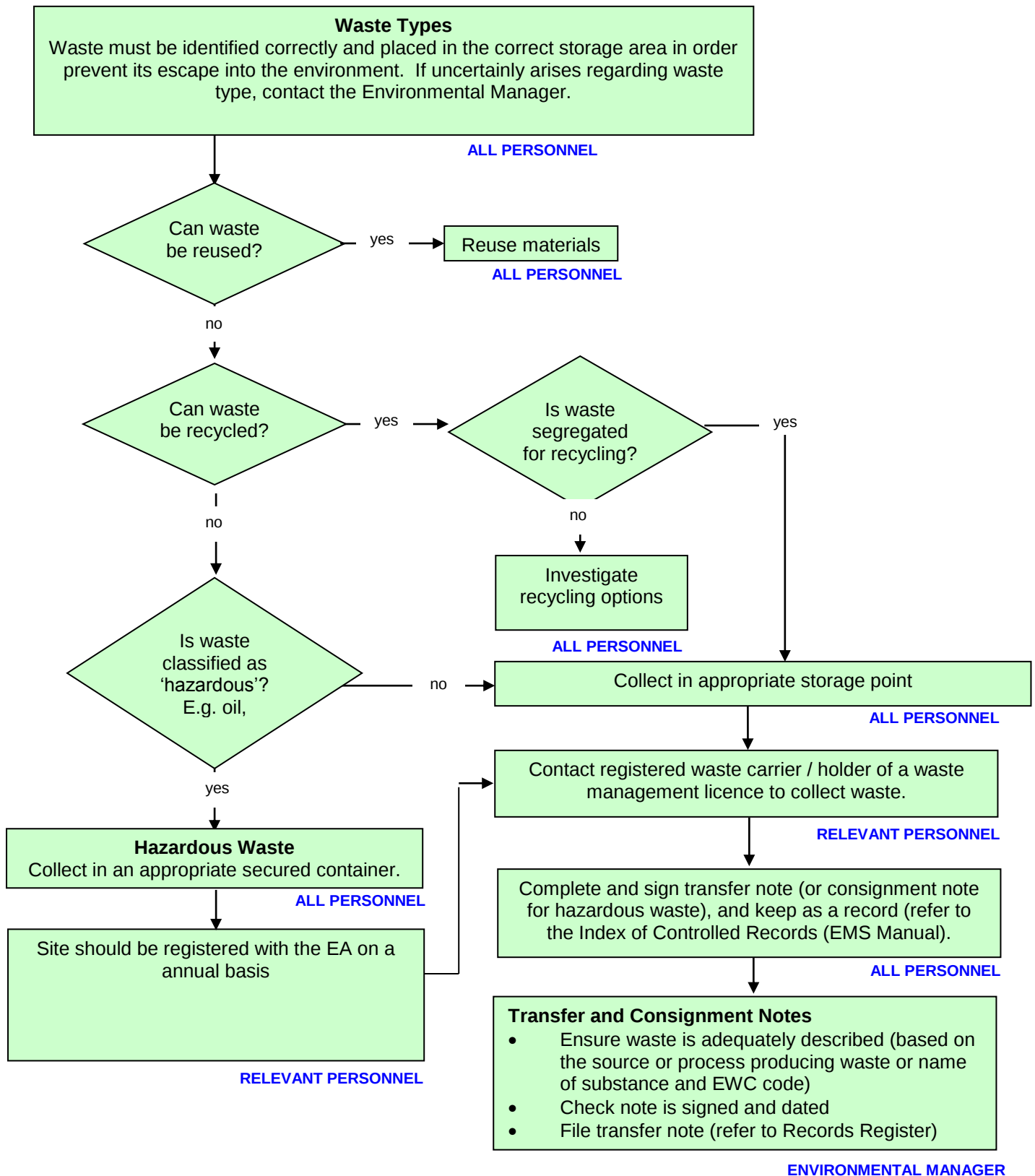
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Procedure



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Waste Streams

Waste streams have been identified and entered on a site plan showing the process flow (See appendix 1 Process flow and waste streams site plan.) The waste streams are identified as

1. Heads from primary process.
2. Blood from primary process
3. DOA'S from primary process
4. Crate / Module and factory washings from primary and secondary process
5. PMI Rejects from primary process
6. Feathers from primary process
7. Fines Screening from primary and secondary process
8. Viscera from primary process
9. Necks from primary process
10. Neck skin from EV process
11. Floor waste from primary and secondary process
12. Sludge from effluent plant
13. Effluent to sewer discharge

14. Plastic Packaging from materials supplied
15. Plastic Packaging from process wastage
16. Cardboard from materials supplied
17. Light tubes
18. Metal
19. Pallets
20. General waste
21. Waste oils
22. Toner cartridges
23. Small cell batteries
24. Hygiene bins
25. Redundant computer equipment

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Waste Stream assessment

Ref	Waste
002	Blood from slaughter process

How is waste generated

Blood is produced from the chickens as the birds are slaughtered. The blood is collected during the bleed out process into the trough which is then pumped to the blood storage tank.

Additional impact (hazardous waste, water, personnel employed)

Odour abatement process will require chemical dosing to comply with BAT as highlighted by the NRW.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
A trial plant is currently in use as an anaerobic digestion process for CHP. If success blood will then estimated to produce 800kwh of energy	We will look at the digestate that may be a good source of fertiliser is accepted by relevant authorities.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Quantity cannot be eliminated or reduced. Natural part of the chicken.

Environmental and safety hazards while stored on site

Daily collection at present to prevent odour generation. The storage is in a sealed tank with only vents connected to wet odour scrubber units. Level warning sounders and lights are fitted.

Responsibility on site

Department	Employees	Supervisors	Manager
Primary. Engineering to maintain system.	Cleaners to ensure areas are kept clean. Engineers monitor system.	Shop floor controls to ensure controls are maintained.	Correct handling and storage is monitored

Disposal

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Amber Foods	PAR	Yes	CB/YYP3513JG
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Waste Stream assessment

Ref	Waste
001	Head from the chicken from the slaughter and evisceration process.

How is waste generated

The heads are mechanically removed in the evisceration process and transported via water flume

Additional impact (hazardous waste, water, personnel employed)

Water usage in flume, cleaning and environmental impact of off site transportation

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Investigation is under way as to the possibility of using waste as an anaerobic digestion process for CHP	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Quantity cannot be eliminated or reduced

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Amber Foods	PDM / SARIA	Yes	CB/VN5510SU
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Waste Stream assessment

Ref	Waste
004	Washings from live bird crates and modules

How is waste generated

These need to be washed and disinfected to maintain hygiene stands on site and at farms.

Additional impact (hazardous waste, water, personnel employed)

Water and chemical usage. This cannot be avoided.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Monitor standard of crates and modules coming on to site. There have been times where modules are badly caked in chicken manure which then needs to be process through the effluent plant. Possible cost reduction to be investigated.

Environmental and safety hazards while stored on site

Excess debris can cause slip and fall incidents. It also contaminates the yard area that can make it slippery for FLT to operate.

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

Disposal

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Site effluent treatment	NA	NA	NA
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Waste Stream assessment

Ref	Waste
003	DOA's

How is waste generated

These are the birds who arrive on site and are dead before they can be processed.

Additional impact (hazardous waste, water, personnel employed)

AHVLA monitor bird welfare and causation of DOA to ensure compliance

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Good farm and transportation controls via Hooks who supply the birds	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Good bird welfare controls

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Waste Stream assessment

Ref	Waste
005	PMI Rejects

How is waste generated

These are the birds that are rejected on PMI inspection.

Additional impact (hazardous waste, water, personnel employed)

AHVLA monitor bird welfare and causation of diseased or sick birds to ensure compliance

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Good farm and transportation controls via Hooks who supply the birds	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Good bird welfare controls

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Waste Stream assessment

Ref	Waste
006	Feathers

How is waste generated

The feathers are removed mechanically by the de-feather machines. The feathers then drop into a drain gully where a water flume takes them to a feather press that removes water before they drop into a trailer.

Additional impact (hazardous waste, water, personnel employed)

Water usage in flume, cleaning and environmental impact of off site transportation

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Currently used in incineration for power generation. Investigation is under way as to the possibility of using waste as an anaerobic digestion process for CHP	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Quantity cannot be eliminated or reduced

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Amber Foods	KINTORE	Yes	CB/ZE5694ST

Waste Stream assessment

Ref	Waste
007	Fines screen

How is waste generated

The screen takes out debris from the factory washings to reduce the amount of sludge that is generated. This material that is screened out is then put into bins and tipped into the CAT 2 trailer.

Additional impact (hazardous waste, water, personnel employed)

Cleaning and environmental impact of off site transportation. Odour if the area is not kept clean.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Cleaners are asked to not wash gross debris down the drains but to place into bins.

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Waste Stream assessment

Ref	Waste
008	Viscera

How is waste generated

The viscera is removed via the EV process mechanically. This is then transferred via water flume drains to the offal gantry and into the cat 3 trailer.

Additional impact (hazardous waste, water, personnel employed)

Water usage in flume, cleaning and environmental impact of off site transportation

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Investigation is under way as to the possibility of using waste as an anaerobic digestion process for CHP	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Quantity cannot be eliminated or reduced

Environmental and safety hazards while stored on site

Daily collection to prevent odour generation

Responsibility on site

Department	Employees	Supervisors	Manager
Primary	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Amber Foods	KINTORE	Yes	CB/ZE5694ST
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Waste Stream assessment

Ref	Waste
009	Necks are no loner waste and used in Pet Food. Packed in ice and placed in dolavs before being put into a temperature controlled trailer.

How is waste generated

Additional impact (hazardous waste, water, personnel employed)

Can waste be re-used	Can waste be recycled	Can waste be eliminated

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Environmental and safety hazards while stored on site

Responsibility on site

Department	Employees	Supervisors	Manager

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Waste Stream assessment

Ref	Waste
010	Neck skin is no longer waste and used is processed on site by Amber and put into crates before being put into a temperature controlled trailer.

How is waste generated

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Additional impact (hazardous waste, water, personnel employed)

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Can waste be re-used	Can waste be recycled	Can waste be eliminated

If waste cannot be eliminated what controls are in place to reduce to the minimum.

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Environmental and safety hazards while stored on site

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Responsibility on site

Department	Employees	Supervisors	Manager

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Waste Stream assessment

Ref	Waste
011	Any product dropped onto the floor must not go into the production process and must be handled and disposed of separately .

How is waste generated

Product accidentally dropped onto the floor or comes from the production equipment during production.

Additional impact (hazardous waste, water, personnel employed)

Genral handling and cleaning up of floor waste can be labour intensive especially at the end of production when night hygiene start their shift.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	More can be done to reduce floor waste. More care.

If waste cannot be eliminated what controls are in place to reduce to the minimum.

There is currently a drive to reduce floor waste looking at process and supervisory controls led by production.

Environmental and safety hazards while stored on site

Slips and falls caused by floored product.

Responsibility on site

Department	Employees	Supervisors	Manager
All production areas.	Cleaners to ensure areas are kept clean	Shop floor controls	Correct handling and storage is monitored

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Amber	PDM / SARIA	Yes	CB/VN5510SU

Waste Stream assessment

Ref	Waste
012	Sludge generated by the ETP plant.

How is waste generated

The sludge is the remaining product from the effluent treatment process. A chemical and mechanical process is used.

Additional impact (hazardous waste, water, personnel employed)

Chemicals are required to be used in the process to take the solids out of the water

Can waste be re-used	Can waste be recycled	Can waste be eliminated
Currently being investigated as a form of fertiliser	TBC	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

By reducing the amount of solids going down the drains will reduce the amount of sludge produced.

Environmental and safety hazards while stored on site

Ferric Chloride is highly corrosive.

Responsibility on site

Department	Employees	Supervisors	Manager
Engineering	Engineers	Team Leaders over see process	Correct handling and storage is monitored

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Amber	PAR	Yes	CB/YP3513JG

Waste Stream assessment

Ref	Waste
013	Effluent to sewer

How is waste generated

The effluent is the treated water from the ETP process before it is dispatched down the sewer. The effluent has to meet solids and COD standards which are closely monitored. Failing to meet these standards can be costly.

Additional impact (hazardous waste, water, personnel employed)

If standards are not met then additional costs are incurred from the water company.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Water usage is closely monitored with good results being achieved. Water usage is on average 6.4 ltrs per bird. Other sites are sometimes running at twice this figure.

Environmental and safety hazards while stored on site

Chemicals used in the treatment process

Responsibility on site

Department	Employees	Supervisors	Manager
Engineering	Engineers	Team Leaders over see process	Correct handling and storage is monitored

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Site	Welsh water	Consent to discharge	NA

Waste Stream assessment

Ref	Waste
014	Plastic packaging from materials supplied

How is waste generated
Bulk product and other materials are often packaged in plastic. This plastic is then put to one side and taken to the rear recycling area of the site.

Additional impact (hazardous waste, water, personnel employed)
Storage can present fire risk but risk reduced by regular collections and storing away from main buildings.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes. Put in compactor and then bailed.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.
The supply chain has reduced the amount of plastics used and this is progressive with thinner bags and wrap also being used.

Environmental and safety hazards while stored on site
Fire risk if not stored safely. Controls in place to reduce risk.

Responsibility on site			
Department	Employees	Supervisors	Manager
Secondary production	Yard operatives ensure waste is segregated.	Team Leaders over see process	Correct handling and storage is monitored

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Amber	UKRS	Yes	CB/FE5551XX

Waste Stream assessment

Ref	Waste
015	Plastic packaging from materials wasted during production

How is waste generated

Spoilt or reworks packaging. This plastic is then put to one side and taken to the rear recycling area of the site.

Additional impact (hazardous waste, water, personnel employed)

Storage can present fire risk but risk reduced by regular collections and storing away from main buildings.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes. Put in compactor and then bailed.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Significant reductions have been achieved by tighter controls in production to reduce wastage.

Environmental and safety hazards while stored on site

Fire risk if not stored safely. Controls in place to reduce risk.

Responsibility on site

Department	Employees	Supervisors	Manager
Secondary production	Yard operatives ensure waste is segregated.	Team Leaders over see process	Correct handling and storage is monitored

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Amber	UKRS	Yes	CB/FE5551XX
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Waste Stream assessment

Ref	Waste
016	Card board packaging from suppliers

How is waste generated

Packaging is often supplied in cardboard. This cardboard is then put to one side and taken to the rear recycling area of the site. Previously this was going as general waste.

Additional impact (hazardous waste, water, personnel employed)

Storage can present fire risk but risk reduced by regular collections and storing away from main buildings.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes. Put in compactor and then bailed.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Cardboard is segregated to ensure it does not go in the general waste.

Environmental and safety hazards while stored on site

Fire risk if not stored safely. Controls in place to reduce risk.

Responsibility on site

Department	Employees	Supervisors	Manager
Secondary production	Yard operatives ensure waste is segregated.	Team Leaders over see process	Correct handling and storage is monitored

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Amber	AVANTI /UKRS	Yes	CB/FE5551XX CB/QE5599JQ

Waste Stream assessment

Ref	Waste
017	Light tubes

How is waste generated

Light tubes are used in most lighting in production and office areas. When these stop working they are carefully removed and replaced. This is an ongoing process.

Additional impact (hazardous waste, water, personnel employed)

Safety risk if not handled and stored correctly. Materials in the tubes are hazardous to the environment.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes. Put in to coffin box to be collected	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Where possible alternative lighting is now being used which is cheaper to operate and less damaging to the environment.

Environmental and safety hazards while stored on site

Special coffin box has been provided and used.

Responsibility on site

Department	Employees	Supervisors	Manager
Engineering	Engineers must ensure tubes are placed in box provided	Team Leaders over see process	Correct handling and storage is monitored

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Disposal			
Arranged by	Contractor	License verified	Licence no
Amber	Safety Kleen	Yes	CB/BN56ZZYZ

Waste Stream assessment

Ref	Waste
019	Pallets. No longer waste as collected and re-used.

How is waste generated

Additional impact (hazardous waste, water, personnel employed)

Can waste be re-used	Can waste be recycled	Can waste be eliminated

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Environmental and safety hazards while stored on site

Responsibility on site			
Department	Employees	Supervisors	Manager
Despatch	Ensure pallets are put at the correct collection point	Team Leaders over see process	Correct handling and storage is monitored

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Disposal			
Arranged by	Contractor	License verified	Licence no
NA			

Waste Stream assessment

Ref	Waste
020	General Waste

How is waste generated
General waste is only for waste that is not recyclable or hazardous.

Additional impact (hazardous waste, water, personnel employed)
Mechanical compactor. Guarded with interlocks to prevent access while in operation.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.
The waste put into compactor has been significantly reduced by the increase of recycling currently in operation.

Environmental and safety hazards while stored on site
None but must not contain liquid waste.

Responsibility on site			
Department	Employees	Supervisors	Manager
Secondary yards ops who must ensure they segregate waste	Not waste packaging at source.	Team Leaders over see process	Correct handling and storage is monitored

Disposal						
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Amber	ASH Skips	Yes	CB/DE5187DE

Waste Stream assessment

Ref	Waste
021	Waste Oils including cooking oils

How is waste generated

Oil in plant and equipment needs to be changed from time to time at set service intervals. All waste oils must be collected and placed in the designated collection area. Waste oil from the cooking in the canteen is same collection process.

Additional impact (hazardous waste, water, personnel employed)

Skin contact to be avoided using correct PPE. If stored correctly in bunded area then there is minimal risk of environmental incident.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes waste receiver will recycle oils where possible.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Set intervals for change out.

Environmental and safety hazards while stored on site

Skin contact to be avoided using correct PPE. If stored correctly in bunded area then there is minimal risk of environmental incident.

Responsibility on site

Department	Employees	Supervisors	Manager
Engineering	Engineers responsible for safe handling.	Team Leaders over see process	Correct handling and storage is monitored

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Disposal			
Arranged by	Contractor	License verified	Licence no
Amber	Safety Kleen	Yes	CB/BN5677YZ

Waste Stream assessment

Ref	Waste
021	Office toner cartridges

How is waste generated
Used in printers and fax machines.

Additional impact (hazardous waste, water, personnel employed)
Skin contact to be avoided using correct PPE.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes waste receiver will recycle cartridges where possible.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.
Reduction in small office printers to network systems has reduced number of cartridges used.

Environmental and safety hazards while stored on site
Skin contact to be avoided using correct PPE.

Responsibility on site			
Department	Employees	Supervisors	Manager
Office staff	Office staff ensure cartridges are placed in the bin provided.	NA	Correct handling and storage is monitored

Disposal			
Arranged by	Contractor	License verified	Licence no
Amber	Safety Kleen	Yes	CB/BN5677YZ

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Waste Stream assessment

Ref	Waste
021	Small cell batteries

How is waste generated

Used in torches and small units

Additional impact (hazardous waste, water, personnel employed)

No hazard if stored in correct bin provided.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes waste receiver will break down cells to reclaim materials.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

Use of rechargeable cells.

Environmental and safety hazards while stored on site

Separate storage container fit for purpose is used.

Responsibility on site

Department	Employees	Supervisors	Manager
Office staff	Office staff ensure batteries are placed in the bin provided.	NA	Correct handling and storage is monitored

Disposal

Arranged by	Contractor	License verified	Licence no
Amber	Safety Kleen	Yes	CB/BN5677YZ

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Waste Stream assessment

Ref	Waste
022	Hygiene Bins

How is waste generated

OH and Sanitary Bins in ladies toilets

Additional impact (hazardous waste, water, personnel employed)

No hazard if stored in correct bin provided.

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	No	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

N/A

Environmental and safety hazards while stored on site

Hygienic containers used.

Responsibility on site

Department	Employees	Supervisors	Manager
All	Staff ensure bins are used.	NA	Correct Storage is monitored

Disposal

Arranged by	Contractor	License verified	Licence no
Amber	OCS Cannon hygiene	Yes	CB/TP3016AZ

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Waste Stream assessment

Ref	Waste
023	Redundant office equipment computers

How is waste generated

Replacement of equipment due to wear and tear or on change.

Additional impact (hazardous waste, water, personnel employed)

No hazard if stored in correctly. Any electrical components not returned to group will need to be taken by licensed contractors

Can waste be re-used	Can waste be recycled	Can waste be eliminated
No	Yes. If Data has been effectively removed.	No

If waste cannot be eliminated what controls are in place to reduce to the minimum.

N/A

Environmental and safety hazards while stored on site

Secure area for data protection.

Responsibility on site

Department	Employees	Supervisors	Manager
All	IT staff ensure equipment is stored securely	NA	Correct Storage is monitored

Disposal

Arranged by	Contractor	License verified	Licence no
Amber	Safety Kleen	Yes	CB/BN5677YZ

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