ENVIRONMENTAL PERMIT VARIATION APPLICATION
SUPPORTING INFORMATION

SECURE WASTE & RECYCLING FACILITY
CHIMNEY ROAD
TIPTON
WEST MIDLANDS
DY4 7BY

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Information Sheet

ENVIRONMENTAL PERMIT VARIATION APPLICATION – SUPPORTING INFORMATION TIPTON SECURE WASTE & RECYCLING FACILITY, CHIMNEY ROAD, TIPTON, WEST MIDLANDS, DY4 7BY

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TIPTON SECURE WASTE & RECYCLING FACILITY
CHIMNEY ROAD, TIPTON
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ENVIRONMENTAL PERMIT VARIATION APPLICATION

SUPPORTING STATEMENT

CONTENTS

LIST OF APPENDICES

LIST OF DRAWINGS

LIST OF TABLES

1.0 INTRODUCTION

1.1 Scope and Background

1.1.1 Sirius Environmental Limited (Sirius) has been commissioned by Biffa Waste Services Limited (Biffa) to prepare an application to vary Environmental Permit EPR/FB3809KS that currently authorises the operation of a Non-Hazardous Waste Transfer Station and Materials Recycling Facility on Chimney Rd, Tipton, West Midlands, DY4 7BY.

1.1.2 This supporting information document presents the key information required to support the application and demonstrates that the modified activities to be carried out at the facility will be in accordance with available guidance on best practice and Best Available Techniques (BAT) and, including the following specific regulations and guidelines:-

- Environmental Permitting (England and Wales) Regulations 2016 (as amended);
- Environmental Permitting Core Guidance (DEFRA, Updated March 2020);
- EA Technical guidance for regulated industry sectors: environmental permitting:
  - *Non-hazardous and inert waste: appropriate measures for permitted facilities*
  - *Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities*
  - *Chemical waste: appropriate measures for permitted facilities*
- Best Available Techniques (BAT) Reference Document (BRef) for Waste Treatment (August 2018);
- Establishing best available techniques (BAT) conclusions for waste treatment, under Directive 2010/75/EU of the European Parliament and of the Council, Commission Implementing Decision (EU) 2018/1147; and
- H1 – Environmental Risk Assessment for Permits.

1.1.3 This application consists of the following documents:

- Application Forms
- Non-Technical Summary
- Supporting Information Document
- BAT Conclusions Assessment
- Environmental and Accidents Risk Assessment
- Odour Management Plan
- Dust Emissions Management Plan
- Fire Prevention Plan
- Site Condition Report (updated)
- Drawings

1.1.4 Biffa previously operated a non-hazardous Waste Transfer Station and Materials Recycling Facility at Chimney Road, Tipton, West Midlands, DY4 7BY under Environmental Permit number EPR/FB3809KS. The activities at the regulated facility consisted of a Waste Transfer Station (WTS) which undertook the separation of recyclable material from dry mixed recyclables and mixed waste, with the shredding of waste for disposal only and the processing of the non-recyclable residual materials to produced refuse derived fuel (RDF). Low grade (non-recyclate rich) wastes that were delivered directly to the facility, were also processed to produce RDF. In addition to this, pre-sorted recyclable wastes were accepted and stored at the site without further processing. All operations are currently suspended at the site pending redevelopment.

1.2 Variation Overview

1.2.1 Biffa are now seeking to redevelop this site into a Secure Waste and Recycling Facility (SWaRF). Principally, this is for the purposes of destroying counterfeit, 'grey market' or confiscated goods, in addition to returned online orders to prevent them reaching the market. Whilst wastes will be treated onsite, this is for the purposes of an 'initial destruction' with almost all subsequent wastes going on for further processing and recovery.

1.2.2 A range of non-hazardous and hazardous waste streams will be treated on site pending transfer to a suitably permitted facility. The current permit (EPR/FB3809KS) only includes for the acceptance of non-hazardous waste streams at the site.

1.2.3 The proposed operational changes require an application to vary the Environmental Permit, include: -

- Variation to the existing non-hazardous waste operations and schedule of wastes
- Extension of the wastes processed to include hazardous wastes and the inclusion of hazardous waste treatment activities to the permit

1.2.4 Activities at Tipton SWaRF will include the treatment via manual sorting/de-packaging, shredding, milling, bulking, chemical treatment, blending, compaction and baling of a range of non-hazardous and hazardous wastes.

1.2.5 The key types of treatment activities that will be carried out at the SWARF include:-

- Depackaging and blending of Hazardous Alcohol and Cosmetics (e.g. Perfume and Aftershave)*
- Depackaging and blending of Non-Hazardous Alcohol and other non-alcoholic liquids (Including beverages).
- Cigarettes / Tobacco shredding*
- Vapes and other WEEE destruction*
- Manual sorting and separation of non-hazardous products including food and destruction of packaging*
- Shredding and baling of Textiles*
- Nitrous oxide canister degassing and chemical treatment

1.2.6 Each process line will process specific waste streams based on their suitability. Details of the process lines and treatment activities proposed at the site is included within Section 2.3, whilst the waste codes to be processed via each linked are defined in **Appendix 3.**

1.2.7 The main processing building will be split into various sections to accommodate the treatment process lines, with an area dedicated to the palletised storage of incoming waste streams, with skips, containers, or stand trailers used externally for processed waste outputs. There will be no structural separation between the various processing lines.

1.2.8 A newly constructed building on the east of the site will be used for the storage and treatment of hazardous and non-hazardous liquids. This includes an external bunded tank farm for processed liquids, with processed outputs also being stored externally within skips, containers or stand trailers.

1.2.9 All operations will be carried out on impermeable surfaces with a sealed drainage system.

1.2.10 The management of amenity issues are discussed within this document, supported by an accident risk assessment, which has been completed in accordance with the relevant guidance.

1.3 Site Setting

Current Site Layout

1.3.1 Tipton Waste Transfer Station is located off Chimney Road, Bagnall Street Industrial Estate, approximately 2.5km east of Tipton town centre – as shown in Drawing No. BF5094/12/01. The National Grid Reference (NGR) for the site is SO 97944 92922.

1.3.2 The site currently comprises a waste transfer and recycling building in the western area, storage bays in the east, with a site office and car park in the north. The site is surrounded by corrugated fencing. Access to the site is gained via a gated entrance to the East onto chimney road.

1.3.3 The site is currently covered by impermeable pavement with a sealed drainage system.

Proposed Site

1.3.4 As part of the redevelopment of the site, the existing external storage bays located in the eastern section of the site are to be removed and a new waste building constructed in its place, to facilitate the alcohol and cosmetics treatment and storage activities. The impermeable surfaces and drainage system are to be redesigned, with a new surface installed.

1.3.5 The existing waste transfer and recycling building will be redesigned to facilitate a revised waste storage and processing layout.

1.3.6 The proposed site will consist of two buildings equipped with internal processing areas, waste reception areas, palletised storage areas, designated loading/unloading areas, as well as separate site offices and welfare facilities. External areas will be utilised for the storage of tanked liquids, containers of waste treatment outputs and curtained side trailers for the storage of baled, palletised or containerised (e.g. open-topped IBCs) wastes.

1.3.7 All waste delivery and dispatch vehicles will arrive at the site via an existing tarmacked access junction that connects to Chimney Road along the eastern site boundary. All deliveries will be pre-booked in advanced and appropriate information shared between the delivery vehicles and site. The site access point will be upgraded to control vehicle access and egress, with only one vehicle being allowed entry into the weighbridge area at a time, whilst waste acceptance checks are carried out. The driver will pass on the relevant paperwork, e.g. Waste Transfer Note (WTN) for Non-Hazardous materials, and Hazardous Waste Consignment Note for Hazardous materials, with the receiving person completing the relevant sections of the note. Once the waste is accepted, the delivery vehicle will be directed to the unloading apron located between the two site buildings.

1.3.8 The application does not seek to alter the current Environment Permit boundary and remains as defined in **Drawing No.: BF5094/12/02**.

Site Surroundings

1.3.9 Bagnall Street Industrial Estate forms part of a larger industrial complex which encompasses the residential area of Harvills Hawthorn, located approximately 300m east of the site. Around this area, the industrial complex extends over 2km to the north and generally between 1 to 1.5km to the northeast, south and southeast.

1.3.10 Sensitive Receptors in the vicinity of the site are shown in **Drawing No. BF5094/12/04**.

1.3.11 The canalised section of the River Tame flows northwards immediately west of the site, beyond which are the A41 dual carriageway (Black Country New Road), a disused railway line and Walsall Canal respectively. Beyond this infrastructure are the residential suburbs of Toll End, in which the nearest residential property is c. 160m from the site boundary.

1.3.12 The site is surrounded to the north, east and south by the wider extents of an industrial estate, with businesses that are not likely to be sensitive receptors but may be a source of emissions.

1.3.13 Bagnall Street Industrial Estate forms part of a larger industrial complex which encompasses the residential area of Harvills Hawthorn, located approximately 300m east of the site. Around this area, the industrial complex extends over 2km to the north and generally between 1 to 1.5km to the northeast, south and southeast.

1.3.14 Businesses located within closest proximity to Tipton SWaRF include (but are not limited to) an Iceland Warehouse to the east, car parking facilities and a HGV training site (to the north) and Aquila Truck Centre (who provide vehicles, machines and services to the logistics and construction industry) to the south. Other businesses within the wider industrial estate include Cromwell Tools (maintenance and repair supplies), Charter Castings Limited (producer of Aluminium and Zinc Castings), Stainless International (stainless steel supplier and processor), Speedy (tool and equipment hire), The Appliance Recycling Group, Wicke UK (manufacturer of wheels and castors), Enablelink (waste vehicle recycling company) etc.

1.3.15 The nearest Public Right of Way (PRoW) (which is classified as a “Recreational Route”) and is located ~130m to the west of the site, adjacent to the Walsall canal in a north south alignment. This PRoW is also classified as a “traffic free off-road cycle route”.

1.3.16 There are a number of Grade II listed buildings within 2km of the site, with the closest sites associated with bridges or locks located at various points along the Walsall Canal.

1.3.17 There is one Local Nature Reserve (LNR) within 2km - ‘Sheepwash LNR’ located ~ 715m to the south.

1.3.18 There are no sites designated as Special Area of Conservation (SAC), Special Protection Areas (SPAs), RAMSAR sites, Sites of Special Scientific Interest (SSSI) or National Nature Reserves (NNR) within a 2km of the site.

1.3.19 There are numerous Local Wildlife Sites (LWS) within 2km of the site boundary in all directions from the site, the closest of which is Ocker Hill Balancing Pool, which lies ~925m to the north/northeast of the site.

1.3.20 The site is located within the administrative area of Sandwell Metropolitan Borough Council. The entire borough has been designated as a designated AQMA's (Air Quality Management Areas) for Nitrogen Dioxide as stated by DEFRA.

1.3.21 The site is located within a Nitrate Vulnerable Zone (NVZ) for surface water as designated by DEFRA.

1.3.22 The site is not located within a groundwater Source Protection Zone (SPZ).

1.3.23 The nearest surface water feature to the site, is the River Tame which is located ~12m to the west of the site. The Walsall Canal is located ~120m to the west of the site, beyond the River Tame and the A41 (Black Country New Road).

1.3.24 In terms of Flood Risk, Environment Agency data has been reviewed and found that the site sits outside any recognised floodplains and associated flood zones in an area, therefore, where flooding from rivers and the sea is very unlikely. There is less than a 0.1 per cent (1 in 1000) chance of flooding occurring each year. In addition to this, it should be noted that the stretch of the River Tame which runs adjacent to the western boundary of the site is equipped with flood defence barriers.

<u>Geology and Hydrogeology</u>

1.3.25 The site is underlain by the Etruria Formation which comprises mudstones. There are no superficial deposits recorded beneath the site. Alluvium deposits (clay, silt, sand and gravel) associated with the floodplains of the River Tame are recorded to the immediate west of the site.

1.3.26 The bedrock geology is classed as a 'Secondary A' aquifer, as are the alluvium deposits which are situated to the immediate west of the site. A 'Secondary A' aquifer is defined by the Environment Agency as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. As previously discussed, there is no underlying superficial geology meaning there is no aquifer status.

1.3.27 DEFRA's "Magic Map" indicates that the groundwater vulnerability is classed as 'medium', which is based on the likelihood of a pollutant reaching the groundwater, the types of aquifer present and the potential impact.

1.4 Scheduled Activities and Specified Waste Management Operations

<u>Overview</u>

1.4.1 Biffa are proposing to operate a Secure Waste and Recycling Facility (SWaRF) at their site on Chimney Road, Tipton, West Midlands, DY4 7BY. Biffa currently have a permit to operate a (Currently non-operational) Waste Transfer Station with production of RDF at the site under Environmental Permit Number EPR/FB3809KS.

1.4.2 The operator proposes to accept a range of hazardous and non-hazardous waste streams for treatment and storage. The site will consist of two buildings equipped with internal processing areas, waste reception areas, palletised storage areas, designated loading/unloading areas, as well as separate site offices and welfare facilities. External areas will be utilised for the storage of tanked liquids and containers of waste treatment outputs (e.g. baled shredded textiles).

1.4.3 Whilst wastes are treated onsite, the operator's main intention is to facilitate the destruction of products and packaging to prevent them from reaching the market and consumers. Processed fractions will be transferred offsite to other suitable facilities for advanced processing and recovery.

1.4.4 Some healthcare wastes will be accepted onsite including medicines and sharps, however these will all be new and use unused, and not from a clinical / healthcare setting.

1.4.5 All external areas comprise an impermeable concrete flooring, which will be fitted with a sealed drainage system that drains to an existing discharge point to the river tame.

1.4.6 Liquid wastes will principally be handled in the alcohol and cosmetics building, which is engineered with impermeable pavement with a sealed drainage system that drains to a sump.

1.4.7 No formal drainage network will be installed in the main processing building due to the limited risk from leaks and spillages of liquids.

1.4.8 The proposed waste streams and treatment methods are outlined below. A process-flow diagram is included in **Appendix 4** which provides a full overview of the waste streams and subsequent processing steps.

<u>Waste Treatment – Main Processing Building</u>

1.4.9 The main processing building will be split into separate processes to accommodate the storage and treatment of various hazardous and non-hazardous wastes. A description of each process line due to be housed within the main processing building is provided below:

- **Hazardous Vapes and WEEE destruction** – milling and separation of vape (and suitable WEEE) contents and components, including evaporation of battery electrolytes and nicotine in a dryer *(Capacity: 9.6 tpd);*
- **Hazardous Nitrous Oxide Canister Destruction -** mechanical piercing and / or degassing (Dependant on canister size) of nitrous oxide canisters, and treatment of nitrous oxide via a heated catalyst reaction unit prior to emission to air (as N_2 and O_2 – inert gases) *(Capacity: 1.12tpd - gross).*
- **Tobacco and Packaging Destruction** - manual sorting/de-packaging, shredding and compaction of hazardous and non-hazardous tobacco products (hazardous and non-hazardous waste to be processed and stored separately*) (Capacity: 10 tpd);*
- **Manual Sorting and Repackaging of Online Returns** – Manual sorting, separation, de-packaging of non-hazardous and hazardous non-saleable products (including the removal of batteries from electronics, and the removal of secondary packaging from food).
- **Non-Hazardous Clothing and Textiles** - manual sorting/de-packaging, shredding and compaction of non-hazardous textiles;

Waste Treatment – Alcohol and Cosmetics Building

1.4.10 The alcohol and cosmetics building will contain storage for incoming waste streams as well as processed packaging. A tank farm consisting of three bunded tanks will be located outside for the storage of each liquid waste stream.

1.4.11 Hazardous wastes will be sprayed with water during de-packaging to minimise potential emissions and the risk of combustion during and after the process. Additional abatement is present in the form of air extraction and wet scrubbing.

- **Non-Hazardous Liquid Destruction** – compacting/baling of plastic and metal packaged non-hazardous alcohol and non-alcohol products to segregate the contents and the blending of subsequent liquids for recovery off-site;
- **Hazardous alcohol and cosmetics destruction** – shredding of glass packaged hazardous alcohols and cosmetics in a controlled environment for blending and subsequent recovery for off-site transfer (Capacity: 40tpd);

Interpretation of Activities under The Environmental Permitting (England and Wales) Regulations 2016

1.4.12 The interpretation of each activity within EPR 2016 is shown in **Table 1.**

Table 1: Summary of Hazardous Processes and Activities

Process	Activity	Recovery and Disposal Codes	Treatment Capacity	Justification
Hazardous Alcohol / Cosmetics Destruction	Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii)) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving blending or mixing (5.3 A(1)(a)(iii))	**R2:** Solvent reclamation/regeneration **R3:** Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes **R4**: Recycling/reclamation of metals and metal compounds **R5:** Recycling/reclamation of other inorganic materials. **D13:** Blending or mixing prior to submission to any of the operations numbered D1 to D12 **D14:** Repackaging prior to submission to any of the operations numbered D1 to D13	40tpd	Shredding of glass packaging and subsequent separation of packaging and contents in an enclosed and controlled environment (water addition) for bulking, pending transfer off-site for recovery. Physio-chemical activity selected on basis of shredding and dilution to minimise ignition.
Hazardous Cigarettes Destruction	Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii))	**R3:** Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes **R5:** Recycling/reclamation of other inorganic materials. **D14:** Repackaging prior to submission to any of the operations numbered D1 to D13	10 tpd	Cigarettes (and associated packaging) are merely shredded and compacted to aid in the storage and subsequent transfer offsite for recovery / disposal.
Vapes & WEEE Destruction	Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii))	**R3:** Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes **R4**: Recycling/reclamation of metals and metal compounds **R5:** Recycling/reclamation of other inorganic materials. **D14:** Repackaging prior to submission to any of the operations numbered D1 to D13	10 tpd.	Vapes and selected WEEE undergo a combination of physical treatment through milling and automatic separation of various product materials components and contents, as well as the evaporation and carbon filtration of nicotine and battery electrolytes.
Nitrous Oxide Canister Destruction	Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii))	**R4**: Recycling/reclamation of metals and metal compounds **D9:** Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12, e.g. evaporation, drying, calcination	Up to 1.12 tpd (Gross). This equates to 0.28tpd of Nitrous	Small canisters containing nitrous oxide would be punctured in a sealed unit and then evacuated via a vacuum pump and passed to a destruction unit. Here, a heated catalytic bed decomposes the Nitrous Oxide to Nitrogen and Oxygen which can be returned to atmosphere via a new emission point. Larger containers of nitrous oxide are not punctured and are

Process	Activity	Recovery and Disposal Codes	Treatment Capacity	Justification
		D14: Repackaging prior to submission to any of the operations numbered D1 to D13.	Oxide Gas destruction per day.	instead connected directly by valves to a non-return valve on a rack system which extracts the gas via vacuum pump and passes it to the destruction unit as above. The empty containers from either route above are exported as metallic packaging for recovery
Hazardous Waste Storage	Storage of hazardous waste (S5.6 Part A(1)(a))	**R13*:** Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) **D15:** Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	200 tonnes	Storage of hazardous waste for each of the above-listed treatment activities.
Hazardous Online Product Returns Depackaging and Bulking	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging (5.3 Part A(1)(a)(iv))	**R3:** Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes **R4**: Recycling/reclamation of metals and metal compounds **R5:** Recycling/reclamation of other inorganic materials.	10 tpd	Manual sorting and depackaging of hazardous online returns, including the subsequent shredding of packaging.
		Waste Operations		
Non-Hazardous liquid waste destruction Non-Hazardous textiles destruction Non-hazardous Online products return depackaging		**R2:** Solvent reclamation/regeneration **R3:** Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes **R4**: Recycling/reclamation of metals and metal compounds **R5:** Recycling/reclamation of other inorganic materials. **R13*:** Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Max 300 tpd	Non-Scheduled Activities Physical Treatment of Non-Hazardous Wastes for recovery (manual sorting, separation, shredding, compaction and baling). Up to 78,300 Tonnes per year.

Interpretation of Fee Structure

1.4.13 The application will seek a variation to the existing non-hazardous waste activities and the addition of new hazardous waste treatment activities.

1.4.14 The Environment Agency's Environmental Permitting Charging Guidance indicates that a discounting method is available for sites with multiple activities relating to a single main activity or which are related to each other. The Guidance stipulates that the following rules can be applied to the application fee:

- 100% of the relevant application charge in the tables of charges for the largest application fee
- 50% of the relevant application charge for any secondary activities that can reasonably be considered to be part of the same operation
- 10% of the relevant application charge for the same activity carried out multiple times on the same site.

1.4.15 Additionally:

- a hazardous waste operation with associated storage of hazardous waste – the application charge for the associated storage will be 10% of the relevant application charge.

1.4.16 Based on the above, the application fee has been calculated based on the rationale presented in **Table 2.**

Table 2: Application Fee Summary

Activity	Fee Type	Base Charge	Discount	Total
Hazardous Alcohol / Cosmetics Destruction	New Activity	*£16,001 (Ref.: 1.16.1.2)*	0%	£16,001.00
	New Activity	*£16,001 (Ref.: 1.16.1.3)*	50%	£8,000.50
Hazardous Cigarettes Destruction	New Activity	£16,001 *(Ref.: 1.16.1.2)*	50%	£8,000.50
Vapes Destruction	New Activity	£16,001 *(Ref.: 1.16.1.2)*	50%	£8,000.50
Nitrous Oxide Canister Destruction	New Activity	£16,001 *(Ref.: 1.16.1.2)*	50%	£8,000.50
Hazardous Waste Depackaging and Bulking	New Activity	£16,001 *(Ref.: 1.16.1.3)*	50%	£8,000.50
Hazardous Waste Storage	New Activity	£13,519 *(Ref: 1.16.4)*	90%	£1,351.90
Physical Treatment of Non-Hazardous Waste	Normal Variation	£3,965 *(Ref.: 1.16.12)*	0%	£3,965.00
Sub-Total				**£61,320.40**
Assessment of Fire Prevention Plan				£1,241.00
Assessment of Dust Emissions Management Plan				£1,241.00
Assessment of Odour Management Plan				£1,246.00
Total				**£65,048.40**

1.5 Permitted Waste Quantities

1.5.1 The maximum tonnage of permitted wastes to be processed by the facility during any one year shall not exceed 136,000 tonnes

1.5.2 The maximum amount of waste stored at the site at any one time shall not exceed *c*. 500 tonnes.

1.6 Permitted Waste Types

1.6.1 Schedules of the waste codes and descriptions to be accepted at the facility for processing via each activity defined in **Table 2**, are included in **Appendix 3**. These tables are segregated by the nature of the waste operation and types accepted and the activity which they are accepted against.

1.7 Hours of Operation

1.7.1 The site will undertake the treatment and recycling of materials to ensure negligible impacts on surrounding sensitive receptors.

1.7.2 During the early stages of establishing the SWaRF, waste processing activities shall only be carried out between 0600hrs – 0000 hrs Monday to Fridays and 0600 - 1300 hrs on Saturdays. Once fully established, the SWaRF is likely to progress to 24-hour operation Monday to Friday.

1.7.3 The delivery and dispatch of waste to and from the facility will be restricted to between 0600hrs to 2200hrs.

1.7.4 Scheduled maintenance of plant and equipment on site will be undertaken between the hours of 08:00hrs – 16:00 hrs Monday to Friday.

1.7.5 The operator will not undertake any activities associated with the proposed waste transfer activities outside of the agreed hours of operation, unless in an emergency. In such instances, the Environment Agency will be notified within 24 hours and the details/activities recorded in the site diary.

1.8 Cessation of Operations

1.8.1 In the event of cessation of all waste management operations on-site, either permanently or for a period in excess of 3 months, then no later than 5 working days following the cessation of waste management activities, the Operator will inform the Environment Agency (EA) in writing, detailing the date of cessation and in the case of temporary cessation, the date planned when operations are due to resume. In the event the Site resumes waste management operations sooner than the notified date, the operator advises the EA in writing at least 5 working days in advance of the resumption date.

2.0 PROCESS CONTROLS

2.1 Waste Pre-Acceptance

2.1.1 Other than in an emergency, no 'on-spec' waste deliveries will be accepted onto the proposed site, with all waste deliveries being subject to technical assessment/pre-characterisation and setting up of contracts prior to delivery. Biffa will obtain the following information from the waste producer to enable consideration of the waste load prior to acceptance on site. This information is required for all new waste enquiries:

- Waste description, including EWC Code;
- Description of the process producing the waste;
- Variation to the process;
- Method of transport/delivery; and
- The composition of the waste

2.1.2 Where appropriate, waste producers will be required to demonstrate that any analytical testing is carried out by a laboratory with an appropriate level of quality assurance (e.g. UKAS accreditation), with sampling undertaken by a technically competent person.

2.1.3 Analytical testing will incorporate a number of key chemical characteristics giving individual constituents and as a minimum, their percentage compositions. This chemical fingerprint will subsequently be used to validate incoming materials upon their arrival at the site and determine the optimal on-site storage arrangements.

2.1.4 All pre-acceptance records will be kept for at least three years (in a computerised waste tracking system), following receipt of the waste. No records will be kept for an enquiry from a waste producer that does not lead to a receipt of the waste.

2.1.5 In order to classify wastes at the facility, 'Guidance on the classification and assessment of waste (1st Edition v1.2.GB) Technical Guidance WM3' will be utilised.

2.1.6 Biffa have developed a Standard Operating Procedure (SOP) specifically focussed on this element of site operations (SOP 01 – Pre-acceptance of Containerised Waste) which is employed across various Biffa facilities.

2.1.7 The Site operates according to the written Standard Operating Procedure for the Pre-Acceptance of containerised waste (SOP 01). The purpose of SOP 01 is to prevent the acceptance of unsuitable wastes, all waste streams destined for the Site are subject to a pre-acceptance process involving the producer, Sales, Operations, Customer Services and Technical personnel. These pre-acceptance criteria extend to potentially malodorous wastes.

2.1.8 Additionally, SOP 01 ensures that incoming waste is correctly identified, classified, labelled, priced and the onward fate of the waste is determined prior to acceptance at the site. Waste should not be accepted without a clear method of treatment or disposal route being determined.

2.2 Waste Acceptance

2.2.1 As previously mentioned, other than in an emergency, only pre-characterised and approved wastes will be accepted onto the proposed site. The intention of the onsite acceptance procedures is to verify and characterise the waste as it arrives at the waste facility against the information provided by the waste producer. Wastes will not be accepted at the facility unless an assessment has been made of its suitability for acceptance onto the site.

2.2.2 Wastes will be delivered to the waste facility by a combination of heavy and light goods vehicles.

2.2.3 All waste delivery and dispatch vehicles will arrive at the site via an existing tarmacked access junction that connects to Chimney Road along the eastern site boundary. All deliveries will be pre-booked in advanced and appropriate information shared between the delivery vehicles and site. The site access point will be upgraded to control vehicle access and egress with only one vehicle being allowed entry into the weighbridge area at a time, whilst waste acceptance checks are carried out. The driver will pass on the relevant paperwork, e.g. Waste Transfer Note (WTN) for Non-Hazardous materials, and Hazardous Waste Consignment Note for Hazardous materials, with the receiving person completing the relevant sections of the note. Once the waste is accepted, the delivery vehicle will be directed to the unloading apron located between the two site buildings.

2.2.4 Waste is only accepted at the site if it is in accordance with the provisions laid down in The Environmental Protection (Duty of Care) Regulations 1991 (and subsequent amendment in 2003), and in accordance with the sites Environmental Permit (EP) and associated Schedule of Tonnages and EWC codes (**Appendix 3**).

2.2.5 A record is kept of the date and time of waste deliveries, quantities and the nature of the waste deposited at the site, the name of the company and their representative delivering (if applicable) each load of waste and the vehicle registration number. Upon entry to the site, vehicles will be directed to the unloading area (within the external yard). The palletised waste will then be taken to the appropriate storage areas by forklift.

2.2.6 Should a load be deposited and found to be in breach of the site permit, and the producer/carrier has left the site, this load will be re-containerised, and placed in the non-conforming waste quarantine area (and clearly marked) awaiting collection for delivery to a suitably permitted facility. Such events will be recorded in the register of rejected loads which is available on site for inspection by the EA.

2.2.7 Biffa have developed a SOP specifically focussed on this element of site operations (SOP 02 – Waste Acceptance and Tracking) which is applied nationally at Biffa waste management facilities. It is proposed that the waste acceptance procedures will adhere to SOP 02.

2.3 Waste Treatment

2.3.1 The wastes accepted at the site undergo specific treatment activities with specific equipment. As such, each process line considers the risk posed by the relevant wastes.

2.3.2 An overview of the processes is provided in the process-flow diagram in **Appendix 4.**

2.3.3 A summary of the equipment used in the processing areas, including specific abatement measures, is included below:

Main Processing Building

2.3.4 The main processing building will be split into separate processes to accommodate the storage and treatment of various hazardous and non-hazardous wastes. A description of each process line due to be housed within the main processing building is provided below:

- **Hazardous Vapes and WEEE destruction** – milling and separation of vape (and suitable WEEE) contents and components, including evaporation, extraction and storage of battery electrolytes, nicotine in a dryer *(Capacity: 9.6 tpd);*
- **Hazardous Nitrous Oxide Canister Destruction -** mechanical piercing and / or degassing (Dependant on canister size) of nitrous oxide canisters, and treatment of nitrous oxide via a heated catalyst reaction unit prior to emission to air (as N_2 and O_2 – inert gases) *(Capacity: 1.12tpd - gross).*
- **Tobacco and Packaging Destruction -** manual sorting/de-packaging, shredding and compaction of hazardous and non-hazardous tobacco products (hazardous and non-hazardous waste to be processed and stored separately*) (Capacity: 10 tpd);*
- **Manual Sorting and Repackaging of Online Returns** – Manual sorting, separation, de-packaging of non-hazardous and hazardous non-saleable products (including the removal of batteries from electronics, and the removal of secondary packaging from food).
- **Non-Hazardous Clothing and Textiles** - manual sorting/de-packaging, shredding and compaction of non-hazardous textiles;

2.3.5 Details of the equipment used in the main processing building are presented in **Table 3.**

Table 3: Waste Processing Equipment used in the Main Processing Building

Equipment	Qty	Processes	Equipment Capacity*	Abatement Measures / Notes
Vape Hammermill	1	Vape destruction	200kg/hr	Hammer mill provides a controlled atmosphere (6 bar N_2 blanket). Nicotine, battery electrolyte, and VOCs are evaporated in a dryer and extracted from the chamber prior to being condensed and contained in a canister for transfer. A carbon filter is present where the condenser emits to atmosphere which is capable of trapping any remaining vapours. A self-cleaning dust filter is present internally. When saturated, compressed air is passed through liberating the dust, which is collected in a sealed drum.
Ulster U45 30Kw Industrial Shredder	1	Cigarette and packaging shredder	Not Applicable	Fitted with Donaldson PowerCore CPC-6F dust filter system with explosion relief and flame arrestor

Equipment	Qty	Processes	Equipment Capacity*		Abatement Measures / Notes
30kW Short Bed Shredder with CK 400 HFE PC Semi auto baler	1	Textile Shredder	Not Applicable		Produces 400kg bale. Hopper has localised fire suppression.
Large N_2O 'Wagons'	6	Nitrous Oxide Canister Processing	Large Canisters	500kg/16 hours	Up to 26 canisters per wagon. Wagon is fitted with non-return valves so is not required to be fully populated. Pipework connects to destruction unit. No diffuse release.
Medclair GEDs (Gas Extraction and Disposal System)	1		Small canisters		Hopper infeed and Double airlock with cutting mechanism to puncture canisters
Medclair DU2000 N2O Destruction Unit	1		N_20 De-composition		Continuously monitored and controlled by sensors and control unit with alarm. Includes an integrated UPS (Uninterruptable Power Supply)

** Not site processing capacity*

<u>Alcohol and Cosmetics Processing Building</u>

2.3.6 The alcohol and cosmetics building will support the storage and treatment of incoming hazardous and non-hazardous alcohol and other flammable liquid cosmetic waste streams, as well as processed packaging. A tank farm consisting of three 30m^3 bunded tanks will be located outside for the storage of each liquid waste stream.

- **Non-Hazardous Liquid Destruction** – compacting/baling of plastic and metal packaged non-hazardous alcohol and non-alcohol liquid products to segregate the contents and the blending of subsequent liquids for recovery off-site;
- **Hazardous alcohol and cosmetics destruction** – shredding of glass packaged hazardous alcohols and cosmetics in a controlled environment for blending and subsequent recovery for off-site transfer (Capacity: 40tpd);

2.3.7 Wastes will be sprayed with water during shredding to minimise potential odour emissions and the risk of ignition during and after the process. The treatment capacity for the hazardous waste streams is based on pre-diluted quantities.

2.3.8 Details of the equipment used in the main processing building are presented in Table 4

Table 4: Waste Processing Equipment used in the Alcohol and Cosmetics Building

24	Quantity	Process	Equipment Capacity	Abatement Measures
Depackaging equipment with sump	1	Non-hazardous liquid de-packaging	Up to 40T/day	Not Applicable

24	Quantity	Process	Equipment Capacity	Abatement Measures	
U-45LB 30kW Industrial shredder with discharge mesh and sump.	1	Hazardous Alcohol / Cosmetics (Glass)	Up to 40T/day	Spray bar fitted in feed hopper to douse shredder with continuous water flow	Alcohol vapour scrubbing system which filters air extracted from the infeed and discharge areas.
Inclined loading conveyor	1			500L collection tank with spill bund, stop valves and pump to external tank farm	
Storage Tanks (located external to building	3	Alcohols, beverages, and cosmetics (hazardous and non-hazardous stored separately)	30m^3 per tank	High level alarm. Containment bunding with 110% of single tank capacity.	

<u>Hazardous Wastes</u>

2.3.9 Some of the wastes accepted onsite are hazardous. This includes:

- Hazardous Alcohol and Cosmetics
- Hazardous Online Returns
- Vapes
- Nitrous Oxide Canisters

2.3.10 This section will provide a summary of the treatment steps and abatement measures used during the processing of these wastes.

<u>Hazardous Alcohols and Cosmetics</u>

2.3.1 Hazardous Alcohols and Cosmetics will be shredded within their glass packaging by the 30kw industrial shredder.

2.3.2 The alcohol and cosmetics building will be a designated an ATEX zone due to the presence of flammable solvents.

2.3.3 Each waste stream (Hazardous alcohol, hazardous cosmetics) will be processed in batches at separate times.

2.3.4 The equipment features a water supply which will continuously spray during the de-packaging processes to minimise emissions and the risk of combustion.

2.3.5 The diluted alcohol contents will then be pumped into one of the three tanks present in the external tank farm, prior to dispatch offsite for further treatment.

2.3.6 The non-hazardous liquid products will be stored separately before and after treatment to the hazardous alcohol and cosmetic products.

<u>Hazardous Online Returns</u>

2.3.7 Hazardous online returns will be manually sorted and depackaged within the main processing building.

2.3.8 These will be processed in separate batches from non-hazardous online returns.

2.3.9 The packaging will be segregated, with plastic and cardboard elements destroyed via shredding.

2.3.10 The residual products and packaging elements will be stored pending transfer offsite for further processing.

Nitrous Oxide Canisters

2.3.11 Nitrous Oxide canisters fall into two categories; large canisters (Typically 1.4kg gross, and ~0.68kg net) and small ('whippet') canisters (Typically 32g gross and ~8g net). Nitrous oxide canisters are confiscated materials and will be received from government agencies for secure storage and destruction. Two types of canisters are received and two processing units are provided to deal with these.

2.3.12 Each of these categories will be processed using separate equipment designed to safely degas the canisters, as outlined in **Table 3.**

2.3.13 This process has successfully been permitted for use according to the same equipment as operating procedures at Biffa's Wednesbury facility. As such, these will be mirrored at Tipton.

2.3.14 Firstly, the process lines included either drain the canisters via their inbuilt port, or pierce and drain the canisters into a vessel far larger than the canister itself, safely lowering the pressure.

2.3.15 The N_2O gas is then fed into a fully self-contained gas destruction unit, which heats (296 Degrees Celsius) and decomposes the Nitrous Oxide into inert Oxygen and Nitrogen gas via a catalyst for safe release with a minimum efficiency of 99%.

2.3.16 This is released to air at Emission Point A2 shown on **Drawing No. BF5094/12/02.** Oxygen and Nitrogen are the sole emissions. The manuals and technical briefs are attached in **Appendix 13**.

2.3.17 The destruction unit is fitted with continuous monitoring including temperature, pressure, flow rate and nitrous oxide concentrations before and after the catalyst. The unit will automatically close an electromechanical valve to prevent releases of nitrous oxide to atmosphere in the event of a failure of the process.

2.3.18 It should be noted that the unit provided to Biffa is larger than the one featured in the manuals which is of clinical origin. This larger unit is capable of processing >100g a minute of N_2O, but does not differ in its functions and processes.

2.3.19 The process deals with a relatively small quantity of Nitrous Oxide, with 410 tonnes of canisters (containing up to 102.2 tonnes of nitrous oxide) per annum being emptied, which represents up to 0.28 tonnes of nitrous oxide per day (1.12 tonnes gross with packaging at worst case). Due to the nature of treatment, this is a very low risk process and provides a net environmental benefit.

2.3.20 Empty canisters are collected for recovery and exported as metallic packaging, EWC 15 01 04, which is consistent with the advice on disposal of outputs contained within Regulatory Position Statement, RPS289, relating to storage and depressurisation of nominally empty nitrous oxide canisters. They are sent whole and are not crushed to reduce volume.

2.3.21 Personnel will be provided with portable personal nitrous oxide detectors to protect from exposure to such diffuse emissions, and the overall risk is still low. Destruction of the bulk of the nitrous oxide represents a significant environmental benefit from the process.

2.3.22 The equipment will be operated on a two-shift basis over 16 hours, and it is anticipated (with an a roughly half hour down time for loading) it will process in total 3471 whippets and 98 of the larger canisters over the course of a day. This equates to a total gross weight of 90.5 tonnes of waste taken in, from which 34.45 tonnes of nitrous oxide would be treated and emitted as nitrogen and oxygen to atmosphere.

Vapes & WEEE

2.3.23 Vapes and WEEE will be processed in in the main processing via a specialized hammermill purpose built for Biffa, which uses a controlled atmosphere (6 bar N_2 Blanket) to allow for the safe destruction of Vapes and WEEE with built in Lithium-Ion cells

2.3.24 After being broken down in the hammer mill, the vape and battery remnants are passed through a 10mm screen into a vacuum dryer, which evaporates the liberated battery electrolyte and nicotine contents, allowing them to be removed, condensed and captured in a canister. The remaining inert gas mixture is vented to air via a carbon filter and dust filter. The carbon filter absorbs all remaining VOCs, and is periodically replaced.

2.3.25 Once the computerised monitoring system has confirmed the removal of electrolytes and nicotine, the remaining components are fed through an overband magnet and eddy current separator for segregation.

2.3.26 The remaining components, including leftover material from Lithium batteries, metals, and recyclates are taken offsite for further processing or recovery.

2.3.27 After passing through the machine, these materials are rendered safe for storage and exposure to atmosphere.

Manual Sorting and Depackaging

2.3.28 Online returns and branded items will be manually sorted, separated and depackaged in the main processing, pending further recovery at other facilities.

2.3.29 This will involve a wide range of goods returned from retailers or otherwise not suitable for sale. This will largely consist of non-hazardous items, however some hazardous items will also be depackaged.

2.3.30 This will involve the removal and sorting of packaging components including cardboard, plastic, metal and glass.

2.3.31 Large cardboard items and plastics will be processed through shredders and compacted, whilst smaller cardboard items will be baled. The remaining fractions will only be stored.

2.3.32 Batteries will also be removed from any electronic devices included in the waste. These will be stored in a separate dedicated WEEE container for treatment off-site.

2.3.33 Food will be removed from its secondary packaging, with products in primary packaging bulked and transferred offsite for further processing.

Cigarette and Packaging Destruction

2.3.34 Confiscated or counterfeit cigarettes and their packaging will be shredded in the main processing building for the purposes of brand and consumer protection.

2.3.35 A dedicated cigarette shredder will be used for the tobacco products themselves; however, this will also be used for shredding cardboard packaging associated with the other products processed onsite (Online returns, clothing and liquid products).

2.3.36 The shredder features abatement measures specific to the hazards that cigarettes pose. This includes a dust extractor with fire / explosion mitigation features.

2.3.37 Cigarettes will be shredded in separate batches to any packaging processed through the shredder.

2.3.38 These will be stored in containers and transferred off-site for recovery.

Textile Destruction

2.3.39 Counterfeit and branded textiles will be shredded and baled in the main processing pending recovery off-site.

2.3.40 The process will include a range of non-hazardous textiles only.

2.3.41 These will be passed into a shredder which feeds straight into a baler, producing a ~400kg bale of textiles.

2.3.42 These will be stored in containers and transferred off-site for recovery.

Non-hazardous Liquid Destruction

2.3.43 Non-hazardous liquids (Alcohol, beverages and other household liquids) will be processed in the same building as the hazardous alcohol and cosmetic products; however, these will use a separate depackaging machine as their packaging consists of plastic and metal cans. These will be split and drained in a specially designed depackaging machine.

2.3.44 The alcohol and cosmetics building will be a designated an ATEX zone due to the presence of flammable solvents in the hazardous alcohol and cosmetics process.

2.3.45 The packaged waste will be emptied via a conveyor before being split and draining into a sump.

2.3.46 The contents will then be pumped into one of the three tanks present in the external tank farm, prior to dispatch offsite for further treatment.

2.3.47 The non-hazardous liquid products will be stored separately before and after treatment to the hazardous alcohol and cosmetic products.

2.4 Waste Storage

2.4.1 Incoming wastes will be securely stored within their relevant processing building as outlined in **Section 1.4**. Due to the nature of the wastes stored onsite, the site management will keep an inventory of exactly what is being stored, treated and dispatched at all times.

2.4.2 Palletised and containerised wastes will always be stored in such a way that they can be accessed from at least one side.

Main Processing Building

2.4.3 Within the main processing building, all incoming wastes will be accepted and stored in palletised form. Nitrous Oxide Canisters will be stored separately within a cage to other wastes within the building.

2.4.4 The aggregate storage capacity for unprocessed palletised wastes within the main processing building will be 240m^3, and a maximum 200m^3 for processed fractions externally.

Processed waste fractions, including the treated components of Vapes / WEEE, will be stored externally in containers, skips and palleted, bulk bag or baled form within curtain-sided articulated trailers.

Table 5: Waste Storage Locations in the Main Processing Building

Waste Stream	Processing Stage	Storage Location
Hazardous Vapes and WEEE	Unprocessed	Palletised in main storage area
	Destroyed and neutralised	Container, located internally
Hazardous Nitrous Oxide Canisters	Unprocessed	Palletised in separate storage area
	Degassed & Destroyed	Container, located externally
Tobacco	Unprocessed	Palletised within main storage area
	Shredded & Compacted	Container, located externally on external service apron
Non-Hazardous Clothing and Textiles	Unprocessed	Palletised within main storage area
	Shredded & Baled	Container, located externally on external service apron
Online Product Returns	Unprocessed (Non Hazardous)	Palletised within main storage area
	Unprocessed (Hazardous)	Palletised within main storage area
	Depackaged / Shredded / Baled	Container, located externally on external service apron

Alcohol and Cosmetics Building

2.4.5 Within the Alcohol and Cosmetics processing building, all incoming wastes will be accepted and stored in palletised form.

2.4.6 The aggregate storage capacity for unprocessed palletised wastes within the alcohol and cosmetics building will be 120m^3, and 60m^3 for processed fractions externally.

2.4.7 Processed alcohol / cosmetic packaging will be stored within containers, whilst the decanted liquids will be stored externally within a tank farm.

Table 6: Waste Storage Locations in the Alcohol and Cosmetics Processing Building

Waste Stream	Processing Stage	Storage Location
Non-hazardous Alcohol	Unprocessed	Palletised in main storage area
	Baled packaging	Container, located externally
	Decanted alcohol	External Tank Farm
Hazardous Alcohol and cosmetics	Unprocessed	Palletised in separate storage area
	Shredded Packaging	Container, located externally
	Decanted Alcohol / Cosmetics	External Tank Farm

3.0 EMISSIONS CONTROL & MONITORING

3.1 Introduction

3.1.1 An effective system of management techniques will be employed at the site to ensure there are no potential fugitive / uncontrolled emissions that could cause environmental concern. An Environmental & Accidents Risk Assessment is provided with this application (*Doc. Ref.: BF5094/08).*

3.2 Emissions to Air (excluding odours)

Point Source Emissions and Monitoring

3.2.1 There are several channelled emission points to site onsite associated with treatment and abatement equipment. All emission points discharge internally within the processing buildings onsite. Whilst these points are monitored in accordance with applicable BAT-AEL values, they are not subject to the requirement for a H1 assessment, as they do not release directly to an external atmosphere.

Vape Hammer Mill

3.2.2 **Point A1 (NGR: SO 97900 92900) :** The emission of clean air expelled from the filters associated with the vape hammer mill. The Hammer mill provides controlled atmosphere (6 bar N2 blanket) where Nicotine, battery electrolyte, and VOCs are evaporated in dryer and extracted from the chamber prior to being condensed, and contained in a canister for transfer. A carbon filter is present where the condenser emits to atmosphere which can trap any remaining vapours. A self-cleaning dust filter is present internally. When saturated, compressed air is passed through liberating the dust, which is collected in a sealed drum.

3.2.3 The emissions will be monitored in accordance with the BAT-AEL values for the treatment of WEEE containing VHCs (TVOC, 3-15mg/Nm^3) according to EN 12619.

3.2.4 This will be monitored every six months.

Nitrous Oxide Destruction Unit

3.2.5 **Point A2 (NGR: SO 97917 92895):** Nitrogen and oxygen associated with the Nitrous Oxide destruction process. At maximum destruction capacity the equipment would emit up to 65 tonnes of nitrogen and 37.2 tonnes of oxygen annually/ There is a significant environmental benefit from the destruction of nitrous oxide which is a greenhouse gas which would otherwise contribute to atmospheric emissions and climate change.

3.2.6 The Nitrous Oxide destruction unit is fully autonomous and features continuous monitoring of a number of parameters to ensure the process is occurring safely and effectively. These include temperature, gas flow rate, pressure, and gas concentration.

3.2.7 The machine will be checked regularly and serviced according to the manufacturer's specification by approved contractors. This service plan includes the calibration of the aforementioned monitoring systems.

3.2.8 It should be noted that BAT does not require monitoring for these, nor for Nitrous Oxide which is treated in the facility to produce oxygen and nitrogen.

3.2.9 The emission of a mixture of oxygen and nitrogen to atmosphere represents no risk to the environment and, in the absence of relevant BAT, will not be monitored at the emissions point.

Cigarette and Packaging Shredder

3.2.10 **Point A3 (NGR: SO 97917 92895):** Clean air associated with the combustible dust extractor on the cigarette shredder. Air is passed through the machine, which uses ducts and dust collectors to strip dust from the air prior to expulsion.

3.2.11 This cigarette shredder will be monitored according to the relevant BAT-AEL for channelled emissions to air for the mechanical treatment of waste (Dust, 2-5mg/Nm^3) using spot measurements according to EN 13284-1.

3.2.12 This will be carried out once every six months.

3.2.13 This equipment is used for shredding both hazardous and non-hazardous wastes in different batches. As such, the emissions monitoring methodology will only be used when the equipment is shredding hazardous waste.

Hazardous Alcohol Shredder

3.2.14 **Point A4 (NGR: SO 97967 92897):** Clean air associated with the alcohol vapour scrubber used on the hazardous alcohol depackaging shredder. The air is extracted from the inlet and outlet of the shredder, before being passed through a packed wet scrubber unit which absorbs potentially odorous or flammable alcohol vapours prior to release to air.

3.2.15 The scrubber emission point will be monitored according to the relevant BAT-AEL for channelled emissions to air from the treatment of water-based liquid waste (TVOC, 3-20mg/Nm^3) according to EN 12619.

3.2.16 This will be carried out once every six months.

<u>Fugitive Emissions Control</u>

3.2.17 Whilst all waste will be delivered in packaging and palleted form, the facility will accept and handle wastes that have the potential to generate dust, fibres or particulate emissions when unpackaged and once treated. All potentially dusty wastes are either handled internally or stored in containers. All shredders are fitted with dust abatement plant (refer to **Table 3**) to minimise dust emissions and ensure a safe work environment to site staff.

3.2.18 Internal surfaces will be vacuum cleaned at least one a year to prevent the build-up of dust and debris. In the unlikely event that dust and debris build-up occurs in the external service aprons and site entrance, a mechanical sweeper with contracted.

3.2.19 Potentially problematic loads will not be accepted at the weighbridge or reception area. Hauliers and customers will be instructed to ensure appropriate containment is in-place for certain wastes should problems persist.

<u>Fugitive Emissions Monitoring</u>

3.2.20 Visual inspections for evidence of any significant emissions of dust will be carried out continuously by operational staff and daily by the site manager or other nominated persons. Meteorological conditions and any emissions to air will be recorded by the TCM or responsible person should the Site Manager be off-site.

3.3 Emissions to Water

Emissions Control

3.3.1 Liquid wastes will principally be handled in the alcohol and cosmetics building, which is engineered with impermeable pavement with a sealed drainage system that drains to a sump.

3.3.2 The facility will be fully engineered with impermeable pavement to protect the condition of the underlying soils and strata and groundwaters from the any leaks and spills of potentially polluting substances.

3.3.3 All wastes stored externally are post-treatment wastes that are either stored in skips, containers or in curtain-sided articulated trailers pending transfer off-site. All external yard runoff and roof waters will be collected via a series of gulleys and sub-surface pipework and discharge to surface water (River Tame) at an existing discharge headwall located on the western boundary of the site (Discharge Point SW1). Surface water forms the external service yard areas pass through a Class 1 oil interceptor prior to discharge. The discharge point is fitted with an isolation valve should an incident (e.g. spill /leak of potentially polluting substances or fire) occur that could result in the release of pollutants to surface water. The site drainage layout is illustrated in **Drawing BF5094/12/03.**

3.3.4 The alcohol and cosmetics treatment processes are supported by 3No. 30m^3 liquid storage tanks located to the south of the alcohol processing building. All tanks are fitted with high-level alarms. These tanks are in an engineered bund with a capacity equivalent to 110% of a single tank capacity. All tanker connection points are also located within the bund containment area to prevent leaks entering the yard drainage network.

3.3.5 To minimise the risk of hydraulic / fuel spillages and leaks, resident site vehicles and plant are checked and serviced at manufacturer recommended intervals. This is combined with daily checks of plant to enable any defects to be reported to the Site Manager for resolution.

3.3.6 Regular inspections will be carried out to monitor the conditions of the internal and external drains including all engineered surfaces.

Emissions Monitoring

3.3.7 The integrity of the engineered surfaces and drainage systems will be inspected weekly, and catchpits / interceptors emptied at a minimum annually. Any damaged area will be assessed to determine if any pollution of the land will have occurred and a record maintained in the site diary.

3.4 Odour

Emissions Control

3.4.1 The site will handle wastes with the potential to generate odour. This is mainly associated with the Non-hazardous liquids and Hazardous Alcohol and Cosmetics repackaging and blending that occurs onsite.

3.4.2 Hazardous Alcohols and Cosmetics will be shredded within their glass packaging by the 30kw industrial shredder.

3.4.3 The repackaging of these wastes will occur within an enclosed building, which will minimize the release of any odours.

3.4.4 The equipment features a water supply which will continuously spray during the shredding processes to minimise odour emissions and the risk of combustion.

3.4.5 This also features an alcohol vapour scrubbing system which will extract air from the base of the infeed conveyor, as well as the discharge conveyor, releasing it once it is filtered.

3.4.6 Non-hazardous liquids will also be processed in the same building, however these will used a separate depackaging equipment as their packaging consists of PET and metal cans.

3.4.7 The facility will operate under written management procedures maintained in the form of an Odour Management Plan (OMP) (*Doc. Ref.: BF5094/11)*

3.4.8 A visual inspection of each load is carried out in the unloading area prior to deposit. A further inspection is carried out by a Site Operative once the waste has been unloaded. At each stage of these checks if waste is deemed to be highly odorous it will be rejected from the facility.

3.4.9 If waste is considered unacceptable because of an odour rejection, the delivery vehicle will be re-loaded and sent off-site. If the waste has already been deposited, the vehicle details will be noted and will be requested to return to site to collect the unacceptable waste. A Waste Rejection Note will be issued in both cases. If reloading is not possible, the waste will be transferred to a designated, enclosed quarantine container and removed to a suitable facility within the shortest practicable time.

3.4.10 The majority of the proposed waste types are not putrescible and therefore it is not considered likely that a high risk of odour will be presented. Putrescible waste, or those with the potential to generate odour, will only be stored indoors and / or in sealed containers.

3.4.11 Food will be handled onsite, however only the secondary packaging will be removed. Waste stored externally will still be within its sealed primary packaging.

<u>Emissions Monitoring</u>

3.4.12 Details of all odour monitoring are detailed in the Odour Management Plan (*Doc Ref.: BF5094/11).* The Site Manager or other nominated personnel will carry out weekly olfactory monitoring around the site and its boundaries to determine if any wastes present at the site are generating significant odours.

3.4.13 A general daily odour inspection will be conducted. All staff are required to report to management should there be a significant odour. The results and meteorological conditions will be recorded in the site diary and kept in the offices.

3.5 Noise

<u>Emissions Control</u>

3.5.1 All treatment activities are carried out internally. External operations are restricted to the unloading and storage of treated wastes, including associated forklift movements. The internal operation of all processing plant forms the primary mode of noise control at the facility. The western elevation of the main processing building also consists of acoustic cladding to minimise noise transfer through the building envelope to the nearest noise sensitive receptor located ~160m to the west of the site. Electrically powered forklift trucks are used onsite

3.5.2 All site plant and vehicles will undergo a regular programme of maintenance and servicing in line with manufacturers recommendations. The only plant on site will be a waste handler and loading shovel.

3.5.3 It should be noted that the surrounding land uses primarily comprise industry, commerce and agriculture, none of which are sensitive receptors to noise. The nearest residential properties to the site are located 160m west, with other residential areas at a greater distance. Due to the distance at which residential properties are situated and the sites surrounding roads (including the A41) and extensive industrial and commercial areas, the residual noise levels associated with the operation of the facility will not have a significant impact on any noise sensitive receptors. A Noise Impact Assessment is presented in **Appendix 5.**

Emissions Monitoring

3.5.4 Given the nature of the proposed operations, it is not necessary to commence instrumental noise monitoring.

3.5.5 Noise that is likely to lead to unacceptable emissions off site will be noted and a record made. An attempt will be made to identify the source of the noise and ensure it is ameliorated or otherwise removed off site. A record will be made of such incidents and the corrective actions taken.

3.6 Scavengers, Insects and Other Pests

Emissions Control

3.6.1 The facility will only accept packaged food wastes, with treatment limited to manual removal of outer packaging only. The perishable goods within will not be removed from the primary containment packaging.

3.6.2 Due to the secure nature of the wastes, it is likely they will be subject to tighter controls prior to delivery meaning the risk of infestation is considered low. Infested waste loads will be rejected.

3.6.3 Putrescible waste will be typically stored for up to 2 days, and up to a maximum of 5 days. Any putrescible wastes accepted onsite will be processed as a priority. In the event a waste store becomes infected by scavengers and / or insects, it will be transferred off site as soon as reasonably practicable and the additional measures outlined below may be implemented to treat the material, if necessary, for example, via the use of insecticides.

3.6.4 The internal storage and handling of wastes will serve to reduce the risk of scavengers, insects and other pests from being attracted to the site. Good housekeeping protocols will also aid in reducing the risk of pests and scavengers being attracted to the site by ensuring that waste residue does not build up.

3.6.5 Should insects posing a nuisance be observed at site, insecticides offering rapid knock-down and long-term treatment shall be utilised. A specialist contractor shall inspect the facility weekly during the summer months and at appropriate frequencies at other times.

3.6.6 Inspections for rats and other pests are to be carried out routinely. A specialist contractor will also attend to any isolated incidents on request. In the event that evidence of pests is observed, appropriate control measures are put in place.

3.6.7 A record of all incidents related to pests are kept in the site diary.

Emissions Monitoring

3.6.8 Monitoring of the site for signs of infestations of scavengers, insects and other pests will be conducted daily during the Site Checks. Furthermore, site operatives will be told to report any signs of infestations that they observe while carrying out their daily tasks. If any evidence of such infestations are observed, this will be noted and reported to the Site Manager or nominated deputy who will action control measures to rectify the issue as soon as practicable. Any incidents will be noted in the Site Diary.

3.7 Litter

Emissions Control

3.7.1 All wastes accepted will be treated and stored in their appropriate location as soon as possible after delivery.

3.7.2 The site boundary comprises security fencing, and is double gated, which will further minimise the escape of litter.

3.7.3 All vehicles delivering waste to site will be fully enclosed or sheeted to prevent littler being blown from the vehicle.

3.7.4 Should any material be carried beyond the site boundary, it will be collected immediately. Any incidents will be recorded in the site diary/log.

Emissions Monitoring

3.7.5 Due to the low risk of litter emanating from the site owing to the high level of containment, dedicated monitoring for litter is not deemed necessary at the site. The site operatives and staff will report any signs of litter immediately with daily site checks and inspections also carried out. In the unlikely event that litter is observed, actions will be taken immediately to identify the source, conduct litter picking and record the incident in the Site Diary.

3.8 Mud and Debris

Emissions Control

3.8.1 An Environmental and Accidents Risk Assessment (EARA) *(Doc. Ref.: BF5094/08)* has been carried out to support the management of the waste activities. This assessment identified a low risk that any mud or debris will be transferred to the highway given the nature of the waste to be handled and the provision of engineered surfaces throughout site.

Emissions Monitoring

3.8.2 The deposit of mud and debris is not expected to be an issue that will arise as part of the waste operations. All waste storage and treatment areas, service areas and roads immediately surrounding the facility will comprise of impermeable, hard engineered surfacing which will be maintained to prevent rutting and minimise the opportunity of mud and debris being tracked onto public networks.

3.8.3 All site areas and public highway networks immediately outside the facility's boundary will be subjected to general housekeeping and materials transit measures.

3.8.4 In order to ensure the road cleaning methods are adequate, a daily inspection of the area of Chimney Road immediately outside the site will be undertaken by the Site Manager or a nominated person when the facility is open for receiving or dispatching wastes. Details of the inspections and any remedial measures taken will be recorded.

3.8.5 All measures taken to ensure any impact relating to mud and debris is minimised are presented in the Dust and Emissions Management Plan *(Doc. Ref.: BF5094/10).*

4.0 MANAGEMENT SYSTEMS

4.1 Environment, Health, Safety and Quality System

4.1.1 The facility will operate under the IMS accredited ISO14001:2018 Environmental Management System (see **Appendix 2**). The ISO14001 standard comprises of 17 elements that need to be met by any organisation seeking formal recognition for their EMS, which are:-

- An environmental policy supported by senior management
- The identification of environmental aspects and impacts, and the identification of significant environmental impacts that the organisation may cause;
- Identification of environmental compliance requirements;
- The development of objectives and targets, and their environmental management programs;
- Defined resources, roles, responsibilities and authorities for environmental management;
- The development of competence, training and awareness procedures;
- A communication process of the EMS to all stakeholders and interested parties;
- The development of EMS documentation as required by the standard;
- The development of document control procedures;
- The development of operational control procedures;
- The development of emergency preparedness and response procedures;
- The development of procedures to monitor and measure operations that can have significant impact to the environment;
- An evaluation of compliance procedure;
- Procedures developed for the management of non-conformance, corrective and preventative actions;
- The development of a records management procedure;
- A program for completing internal EMS audits and corrective actions; and
- The development of procedures for management review by senior management.

4.1.2 The EMS will ensure that all wastes are managed in accordance with the permit and duty of care, including relevant appropriate measures and Best available techniques (BAT) such that the environmental and health risks are controlled. This includes provisions for waste acceptance, storage, treatment and transfer, as well as appropriate record keeping and defined procedures.

4.1.3 Audits and inspections will be conducted to a suitable standard to meet the requirements of the management system and whilst key environmental performance related figures will be reported annually to the EA as per the requirements of the Environmental Permit.

4.1.4 Environmental issues will be considered when purchasing items of plant and when design changes are being undertaken at the facility. These considerations will be documented.

4.1.5 Records will be kept of all items required by the Environmental Permit, other legislation and operating procedures.

4.2 Competence

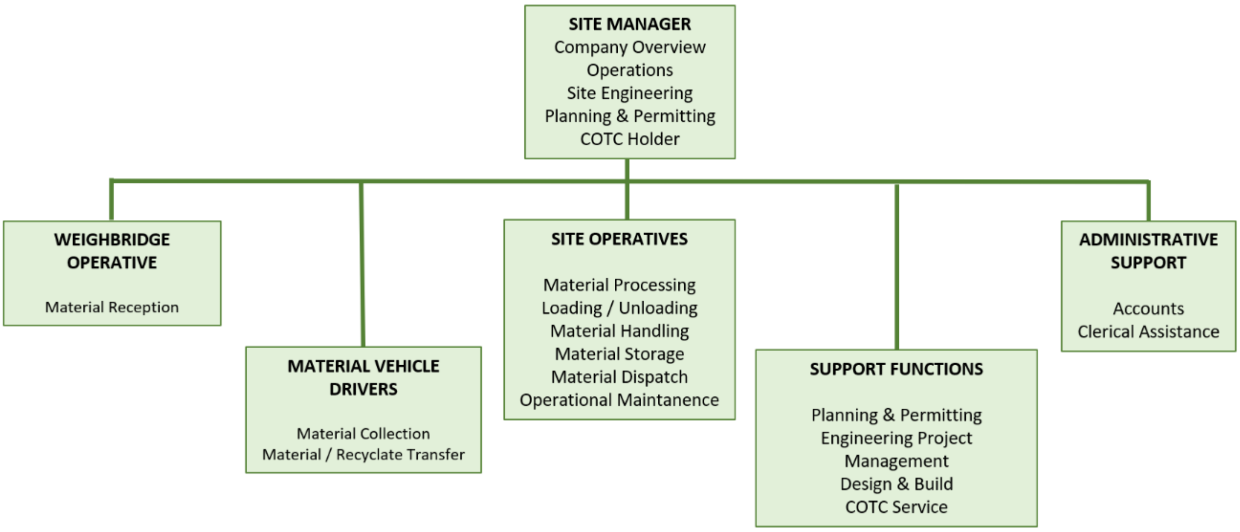
4.2.1 Technical competence for the waste facility will be provided via the WAMITAB Certification Scheme. Employees are selected based upon relevant experience within the waste management and recycling industry.

4.2.2 In order to comply with the regulatory requirements as stated in the Environmental Permitting Regulations, Biffa propose to provide experienced person/s with the appropriate technical competence qualifications to manage the facility going forward.

4.3 Staffing

4.3.1 The likely staffing arrangements are outlined in the company organogram as shown in **Figure 2**.

Figure SS1: Management Structure for Tipton SWaRF



4.3.2 **Appendix 6** outlines the roles and responsibilities of staff employed within the organisation.

4.4 Training

4.4.1 Any new employees are given full induction training by the Site Manager or other appropriately qualified person(s) as appointed by the Site Manager.

4.4.2 Additionally, staff and operatives will receive training to ensure they can perform their role competently.

4.4.3 The assessment of competences of staff is made by the Site Manager or other appropriately qualified person(s) on an ongoing basis. All staff are trained to ensure that they are competent to undertake their respective duties. Particular attention is given to familiarisation of staff with the Environmental Permit for the site, the potential emissions from the site and the prevention of accidental emissions. Training will be tailored to individual requirements.

4.5 Operating Procedures

4.5.1 Biffa have developed a number of specific standard operating procedures (SOPs) which cover the onsite activities at the proposed facility. Copies of these SOPs are held electronically on Biffa central server. These will be periodically reviewed and updated where deemed necessary.

4.6 Maintenance Procedures

4.6.1 A documented maintenance schedule is developed in accordance with equipment suppliers and manufacturer's recommendations. Any plant that is used will be hired with a full repair/maintenance contract (which includes oils, greases etc) incorporating specified response times to reduce downtime. An inspection regime is developed for each piece of plant in order to visually inspect condition and identify immediate repair requirements.

4.7 Records

4.7.1 A record of the types and quantities (in tonnes) of wastes received and removed from the facility will be maintained. A summary of the types and quantities of wastes deposited at the site and removed from the site will be provided to the EA quarterly in an agreed format. All Duty of Care documentation in relation to waste movements will be kept for 5 years.

4.7.2 The following significant events at the facility will be recorded, as detailed below:

- Maintenance;
- Breakdowns;
- Emergencies;
- Problems with waste received and action taken;
- Facility inspections;
- Attendance of technically competent management at the facility;
- Despatch of records to the Agency;
- Severe weather conditions;
- Complaints received;
- Visitors to the facility;
- Pest or vermin incidents; and
- Rejected loads and the reason for rejecting the load.

4.7.3 The Site Manager or nominated person will maintain a record of all the above information in the site log or on inspection forms, as appropriate. Records relating to significant events will be kept for up to 6 years, or where involving off site environmental effects or pollution of land or groundwater until permit surrender.

4.7.4 All records and copies of inspection forms will be kept at the facility at all times and will be available for inspection at all reasonable times by any authorised officer of the EA.

4.7.5 The facility records may be kept either as:

- Hand generated log;
- Computer generated hard copies; or
- Computer permanent storage media.

4.7.6 To ensure the security of records they will be housed in either locked containers or kept in offices that shall be locked when not attended.

4.7.7 Records will be disposed of in accordance with company policy, which shall ensure an appropriately secure method e.g., shredding and recycling, where feasible.

4.8 Visitors

4.8.1 Persons visiting the facility will be required to report to the site office. A record of the time and reason for their visit will be logged in the signing-in book. Visitors entering the working areas will be briefed and inducted with respect to facility safety and accompanied where necessary.

4.8.2 All visitors will be made aware of the requirement for Personal Protective Equipment (PPE). No person will be allowed entry to the facility without the correct protective equipment. The facility employees are responsible for the Health and Safety of all visitors and will ensure that they are given sight of a copy of the Health and Safety Plan and are made aware of any potential threats to their safety or welfare.

4.8.3 There will be additional induction requirements for contractors visiting site that are providing a service or undertaking works such as maintenance. A permit to work system will be employed for more hazardous maintenance activities to ensure compliance with health and safety requirements.

4.9 Site Inspections and Audit

4.9.1 Every working day, site inspections within the operational areas and Environmental Permit boundary. The facility shall be inspected on every working day by the Site Manager or other nominated persons for defects in plant, equipment or structure or in any working practice that may affect satisfactory compliance with the Environmental Permit. Inspections shall be undertaken by staff suitably qualified and/or experienced in the day-to-day operation of the facility. An Operation and Maintenance Daily Check Sheet is included in **Appendix 7** which includes the following inspection points:

- Waste storage levels;
- Waste type storage area separation;
- Cleanliness;
- Site emissions;
- Leakages/Spillages;
- Monitoring data (where relevant);
- Mobile plant condition; and
- Integrity of site surfacing, drainage systems and security provisions, where applicable.

4.9.2 The above daily monitoring will aid in the identification of significant emissions, including noise, dust and odour. The completion of these daily inspections will allow for the sources of any recorded emissions to be located, identify the responsible party and hence attribute responsibility for remedial action.

4.9.3 Should an on-site problem be identified, the Site Manager or nominated person will arrange for the appropriate mitigation technique to be applied as soon as is reasonably practicable.

4.9.4 Should a fugitive emission source be identified as being outside the Environmental Permit Boundary of the proposed site, then the Site Manager or appointed deputy will make contact with the operators of the facility containing the emission source and inform them accordingly, where this is able to be identified.

4.9.5 Records shall be kept of daily inspections and shall be made available for inspection as reasonably required by authorised officers of the EA. Any defects shall be rectified promptly.

4.9.6 In addition, under the environmental management system, the site is subject to both internal and external audit. Copies of the audits will be kept in the site office.

4.10 Site Security

4.10.1 All reasonable precautions are taken to prevent unauthorised access to the site.

4.10.2 Due to the nature of the site, the security arrangements will be more comprehensive than typical waste transfer / treatment operations.

4.10.3 Access to the facility will be via the Eastern entrance onto Chimney Road. This entrance will be double gated, to ensure the site remains secure even when vehicles are entering or leaving.

4.10.4 All visitors and employees at the site will be subject to an 'airport style' set of security checks to ensure that no confiscated goods are able to be taken offsite. This includes searches and the use of a metal detector.

4.10.5 An extensive CCTV monitoring solution will be utilised with a layout of cameras that provide overlapping coverage of all areas of the site within the boundary. The CCTV will be monitored, and the site patrolled 24/7/

4.10.6 The integrity of the site boundary, entrance and exit gateway as well as perimeter structures are inspected on a daily basis. Any damage to the integrity of the boundary, gates or any other security structure, where practicable, will be repaired by the end of the working day. If it is not possible to make repairs within a working day, temporary repair measures will be implemented. Final repairs will be carried out within 7 working days of the damage being detected or any other such period as agreed in writing with the EA. All damage and repairs (temporary or permanent) are recorded in the Site Diary.

4.11 Site Identification Board

4.11.1 A site identification board is attached to the frontage of the site detailing the following information:

- The permit holder's name (company name) and permit number;
- An emergency contact name and the permit holder's emergency telephone number 0800 917 6896;
- A statement that the site is permitted by the Environment Agency; and
- The Environment Agency incident hotline 0800 80 70 60

4.11.2 The site identification board will be inspected on a weekly basis and any damage repaired within 7 working days for minor repairs and for major repairs at a timescale agreed with the Environment Agency. Details of any damage and repairs undertaken are recorded in the Site Diary.

4.12 Complaints

4.12.1 Any complaints relating to the facility will be managed as follows:

- Details of the complaint and the complainant will be logged in the Site Diary and electronically.
- The complaint will be investigated. Corrective actions and preventative actions will be undertaken where the source of the complaint can be identified and is attributable to activities undertaken at the facility.
- The details of the action taken will be reported back to the complainant. This will include cases where the complaint is unsubstantiated i.e. the complaint fails to be linked to any activity occurring at the facility. All investigate works and compliant outcomes will be recorded in the Site Diary.

4.13 Staff Welfare Facilities

4.13.1 Staff rest and wash facilities are situated adjacent to the site offices.

4.13.2 A designated smoking area is available adjacent to the site offices. This is illustrated on **Drawing No. BF5094/12/05**.

4.14 Non-Compliances

4.14.1 Staff responsible waste acceptance checks will be trained to effectively identify and manage non-conformances in the loads received, complying with EA Guidance and any permit conditions.

4.15 Health and Safety

4.15.1 The company recognises the importance of Health and Safety for both its staff and visitors to its facility. The company will develop appropriate Health and Safety practices for the site which are in line with those adopted by similar sites operated by Biffa.

4.16 Accidents / Incidents / Non-Conformances

4.16.1 The likelihood and consequences of accidents and associated preventative / mitigating measures are presented in the Environmental and Accident Risk Assessment for the site *(Document Reference: BF5094/08).*

4.16.2 Biffa has written procedures for handling, investigating, communicating and reporting of potential non-compliances and environmental complaints and associated remedial actions. Any non-compliances identified onsite will be reported to the EA within 24 hours. Details of the non-compliance and corrective actions will be recorded on appropriate recording forms and held electronically for a period no less than two years. Any records of non-compliance will be archived until Environmental Permit surrender.

4.16.3 Daily site inspections will be conducted by the Site Manager or other nominated representatives for defects in plant, equipment or structures or in any working practice that may affect satisfactory compliance with the Environmental Permit. Inspections shall be undertaken by staff suitably qualified and/or experienced in the day-to-day operation of the facility. The main points of inspection shall include:

- Waste storage levels
- Waste type storage area separation
- Cleanliness
- Site emissions
- Leakages / Spillages
- Monitoring data (where relevant)

- Plant condition
- Integrity of site surfacing, drainage systems and security provisions, where applicable

4.16.4 Should a problem be identified, the Site Manager will arrange immediate repair or other appropriate remedial action.

4.16.5 Records shall be kept of daily inspections and shall be made available for inspection as reasonably required by authorised officers of the EA. Any defects shall be rectified as soon as reasonably practicable.

4.16.6 In addition, under the Biffa's Integrated Management System (IMS), the site will be subject to both internal and external audit. Copies of the audits will be kept in the site office.

5.0 ACCIDENTS & THEIR CONSEQUENCES

5.1 Emergency Planning

5.1.1 An Environmental and Accidents Risk Assessment (EARA) has been prepared in support of this application (Doc. Ref.: *BF5094/08).* The matrix identifies potential hazards at the facility, the likelihood and consequence of an accident or emergency relating to hazards, and the risk management measures that will be put in place to ensure that risks are reduced to an acceptable level.

5.2 Emergency Contact

5.2.1 In the event of any significant environmental emergency / incident, a representative of Biffa will notify the EA by telephone immediately but first having due regard for the incident at hand and any remediation actions required to ensure the safety of site personnel and the immediate environment.

5.2.2 Details of any environmental incident will be confirmed to the EA in writing by e-mail on the next working day after identification of the incident. This confirmation will include: the time and duration of the incident, the receiving environmental medium or media where there has been any emission as a result of the incident, an initial estimate of the quantity and composition of any emission, the measures taken to prevent or minimise any further emission and a preliminary assessment of the cause of the incident.

5.2.3 Any incident notified to the EA will be investigated and a report of the investigation sent to the EA. The report will detail, as a minimum, the circumstances of the incident, an assessment of any harm to the environment and the steps taken to bring the incident to an end. The report will also set out proposals for remediation and for preventing a repetition of the incident.

5.3 Control of Fires

5.3.1 No waste will be burned within the confines of the site boundary. All fires within the facility will be treated as a potential emergency and dealt with accordingly. Fires may occur in relation to:

- Plant failure – fixed or mobile plant fires
- Within waste in delivery vehicles
- Within waste storage areas

5.3.2 If the fire can be controlled without endangering operatives, appropriate actions will be undertaken using available fire-fighting equipment. Fires will be tackled by a minimum of two facility operatives.

5.3.3 In the event that a large fire occurs at the facility, the following actions would be undertaken:

- Person(s) discovering the fire will raise the alarm.
- Report the incident to the Site Manager.
- All site personnel and visitors will be accounted for and evacuated to a safe location.
- Contact the emergency services and state the nature of the incident.
- Ensure access is clear for the emergency services but prevent access to the facility from anyone else until the emergency is over.
- Follow all instructions given by the emergency services.
- The EA will be informed forthwith of any fires that occur at the facility.

5.3.4 Office areas are provided with smoke alarms and a dedicated fire alarm with audible and visual signals in the key building areas. Hose reels and handheld extinguishers are also strategically placed around the site, the locations and types of extinguishers have been agreed with the local Fire Officer. Out of hours remote third party monitoring and CCTV will also be implemented. All mobile plant vehicles will be ATEX certified.

5.3.5 All fire-fighting equipment at the facility will be clearly marked and tested, at appropriate intervals, to confirm their suitability and functionality. Site personnel will be made aware of the locations of all fire-fighting equipment and will be trained in their correct use.

5.3.6 A record of the occurrence of a fire will be maintained in the site log, along with any actions taken. An Incident and Accident Report will be completed by the Site Manager.

5.3.7 Following approval by the fire services and / or Site Manager, any residues from the fire will be disposed of accordingly at a suitable permitted waste management facility.

5.3.8 In accordance with the latest industry and Environment Agency guidance, a Fire Prevention Plan has been prepared (Doc .Ref.: BF5094/09).

5.4 Explosions

5.4.1 In the unlikely event that unexpected materials with explosive elements are discovered within a waste delivery that has already been accepted, the following action would be taken:

- Contact the Site Manager or in their absence, the nominated deputy.
- Check that all site personnel and visitors are accounted for and are moved to a safe location.
- Contact the emergency services and state the nature of the incident (including whether any fires have occurred).
- Follow all instructions given by the emergency services.
- If injuries have occurred, medical assistance will be called.
- No further wastes will be accepted at the facility until the Site Manager has given authority.
- The EA will be informed forthwith of any arisings of explosive materials or any explosions that occur.

5.4.2 The equipment used in the treatment of wastes with potentially explosive products has built-in mitigation.

5.4.3 Once the emergency is over and the emergency services have declared that the area is made safe, an incident report shall be completed. A written account of the incident will also be forwarded to the EA no later than 14 days after the incident.

5.5 Flooding

5.5.1 The Environment Agency's flood zone mapping shows that the site lies within a Flood Zone 1 which is described as having a 'low probability' of flooding (less than 1 in 1,000 annual probability of river or sea flooding). The nearest area of flood risk is located within the fluvial channel of the River Tame that flows to the west of the site, into which the site's surface water drainage network discharges.

5.5.2 The following actions may be taken by the Site Manager or other designated person where flooding from any source presents a risk to the site:

- If possible, all stocks of chemicals / fuel will be removed from the risk areas.
- All plant will be removed from the area at risk.

5.5.3 Facility operatives will not attempt to enter the flooded area until a risk assessment has been undertaken or the flood has subsided.

5.5.4 It should be noted that all waste will be unloaded, stored, treated and loaded internally and is highly unlikely to be affected by flood waters.

5.6 Control of Leaks and Spillages

5.6.1 Only liquid wastes conforming to the expected alcohol and cosmetics specifications will be accepted.

5.6.2 Any spills or leaks from wastes will be captured by the sealed internal drainage system which can be pumped and transfer off-site to an appropriate facility by tanker.

5.6.3 Daily visual inspections of concrete surfaces for signs of ponding, overflowing onto exposed surfaces or ineffective drainage will be conducted. Facility operatives will report any such incidents to the Site Manager. Should the concrete surfaces show signs of ineffective drainage, no further use will be permitted until repairs to concrete or drainage systems are undertaken.

5.6.4 Above ground storage tanks and bunded areas will be inspected weekly whilst the facility is operational. In the event of a spillage, facility operatives will inform the Site Manager who is responsible for assessing the situation and deciding on the most appropriate actions to be undertaken.

5.6.5 All necessary measures will be taken to contain any spillage or discharge by means of suitable material and equipment. The actions undertaken will depend on the size of the spillage, the location of the spillage in relation to sensitive receptors and the nature of the spilled material.

5.6.6 Where spillages of dry wastes occur, these will be cleared by either manual or mechanical means, for example handpicking, sweeping or shovelling, dependant on the size and location of the spillage.

5.6.7 Minor spillages of liquid will be contained using spillage kits. This material will be disposed of in a manner appropriate to the type of material absorbed. Materials from used from spill kits will be replaced. Should a significant spillage occur on an external non-waste storage area, the penstock valve will be closed to prevent the discharge of the spilled material to surface water. The spillage will be contained as much as possible, and cleaning will be conducted.

5.6.8 If a major spillage of liquid occurs the following actions will be undertaken, where appropriate:

- Report the occurrence to the Site Manager immediately.
- Trained facility operatives will take immediate action to try and contain the leak where it is safe to do so.
- If it is safe to do so, the cause of the spill or leak will be isolated and / or moved to a bunded area.

- If the liquid spillage is large, inert material such as clay or sandbags will be used to make a temporary containment bund to prevent pollution of any surface water, land or groundwater. The Site Manager or designated person will contact the EA to discuss best practicable disposal options.
- Access to the immediate area should be restricted until a disposal/clean up solution is implemented.
- If the spillage cannot be contained using approved methods, senior management will be contacted immediately, and specialist advice and help will be sought.
- If a vehicle is identified as leaking, wherever practicable, it will be stored on an impermeable pavement within a bunded area, where the spillage can be contained until such time as a repair is affected.

5.6.9 The Environment Agency will also be informed in accordance with the permit requirements of major spillages, having due regard to first take appropriate measures to deal with any emergency in hand.

5.6.10 The locations of spillage kits and other emergency equipment will be detailed within the Site Emergency Plan.

5.7 Investigation of Accidents & Incidents

5.7.1 For any accident, incident or dangerous occurrence, an ‘Incident and Accident Report’ will be completed by the Site Manager. All relevant details of the accident, incident or dangerous occurrence will be recorded, together with any additional statement, photographs, logs or records that may assist in the full investigation of the accident, incident or dangerous occurrence.

5.7.2 After an Environmental Incident and Emergency has been made safe, an investigation will be conducted, if necessary, by the Site Manager and other Personnel as appropriate.

6.0 SITE DECOMMISSIONING/CLOSURE

6.1 General

6.1.1 The operational nature and design will aid the decommissioning process. All remaining raw and waste materials at the site will be removed and disposed of or relocated to another designated site, in the event of the process of permit surrender being initiated. Any areas of engineered surfacing can be removed and treated if/as required.

6.1.2 Items of plant will be removed and reused, reconditioned, or recycled as appropriate.

6.2 Site Condition Report

6.2.1 An updated Site Condition Report *(Doc. Ref.: BF5094/06)* has been prepared to support this application.

APPENDICES

APPENDIX 1

Evidence of Technical Competence

CIWM

Continuing Competence Certificate

This certificate confirms that

Anthony Davis

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 07/01/2026

TSH	Transfer - Hazardous Waste
TMH	Treatment - Hazardous Waste
TMNH	Treatment - Non Hazardous Waste

Expiry Date:
07/01/2028

Verification date: 05/01/2026

Authorised:

Responsible Officer

Learner ID: 12744

Certificate No.: 5296412

Date of Issue: 07/01/2026

CIWM Chief Executive Officer

The Chartered Institution of Wastes Management

Scan code on reverse to authenticate that this is a genuine paper

WAMITAB

WASTE MANAGEMENT INDUSTRY TRAINING AND ADVISORY BOARD

CERTIFICATE No: 06337

CERTIFICATE OF TECHNICAL COMPETENCE

This Certificate confirms that

Anthony Richard Davis

has demonstrated the standard of technical competence required for the management of a facility of the type set out below

Facility Type:

Level 4 in Waste Management Operations -

Managing Transfer Hazardous Waste (4TSH)

WAMITAB 1989 INCORPORATED

Authorising Signatures:

Director General

Director

Date of issue: 27 October 2004

WAMITAB

WASTE MANAGEMENT INDUSTRY TRAINING AND ADVISORY BOARD

CERTIFICATE No: 06336

CERTIFICATE OF TECHNICAL COMPETENCE

This Certificate confirms that

Anthony Richard Davis

has demonstrated the standard of technical competence required for the management of a facility of the type set out below

Facility Type:

Level 4 in Waste Management Operations -

Managing Treatment Hazardous Waste (4TMH)

Authorising Signatures:

Director General

Director

Date of issue: 27 October 2004

WAMITAB INCORPORATED 1989

City & Guilds

NATIONAL VOCATIONAL QUALIFICATION

MANAGING TREATMENT OPERATIONS - CLINICAL OR SPECIAL WASTE
LEVEL 4
(Q1026784)

IS AWARDED TO

ANTHONY RICHARD DAVIS

THE HOLDER HAS A NUMBER OF FORMAL UNIT
CREDITS BY WHICH THIS AWARD WAS ACHIEVED

AWARDED OCTOBER 2004 0410/021004 /073404/OWH2273/1/20/04/76

D T Young
Chairman
The City and Guilds of London Institute

C Humphries
Director-General
The City and Guilds of London Institute

QCA

CORAM · DEO · LABORAMUS

N001

APPENDIX 2

ISO Certification

Certificate of Registration

This is to certify that the Environmental Management System of:

Biffa Group

Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TZ, United Kingdom

(Central function listed above. See appendix for additional locations)

applicable to:

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

has been assessed and registered by NQA against the provisions of:

ISO 14001:2015

This registration is subject to the company maintaining an environmental management system, to the above standard, which will be monitored by NQA

Managing Director

Certificate No.	601
ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027
EAC Code:	39

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Group Certificate No. 601 Coronation Road Cressex Business Park High Wycombe Buckinghamshire HP12 3TZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Westmill Landfill Site SG12 0ES Certificate No. 601/1 Westmill Farm Westmill Ware Hertfordshire SG12 0ES United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - North Herts Landfill Site SG5 3RT Certificate No. 601/2 North Herts Landfill Site Bedford Road Hitchin Hertfordshire SG5 3RT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Bramford Landfill Site IP8 4DE Certificate No. 601/3 Paper Mill Lane Bramford Ipswich IP8 4DE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Redhill Landfill Site RH1 4ER Certificate No. 601/12 Patteson Court Landfill Cormongers Lane Redhill RH1 4ER United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Bradford Transfer Station BD4 8YF Certificate No. 601/13 Bradford Transfer Station Peace Street Bradford West Yorkshire BD4 8YF United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - St Neots Recycling PE19 2HB Certificate No. 601/14 Unit 6-7 1 Marston Road St. Neots Cambridgeshire PE19 2HB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Cottonmouth Landfill Site BT36 4QN Certificate No. 601/15 140 Mallusk Road Newtownabbey County Antrim BT36 4QN United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Waresley & Hartlebury Landfill Operations DY10 4JB Certificate No. 601/16 Hartlebury and Waresley Landfill Operations Whitlenge Lane Kidderminster Worcestershire DY10 4HB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Irlam Recycling M44 5AY Certificate No. 601/23 Industrial Collection Division Gilchrist Road Manchester M44 5AY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Nottingham Transfer Station NG4 2JR Certificate No. 601/25 Nottingham Transfer Station Private Road 2 NOTTINGHAM NG4 2JR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Ltd. Cardiff Depot, Transfer Station & Recycling Facility (I&C) Certificate No. 601/27 Viking Place, Roath Dock Cardiff Docks Cardiff CF10 4TS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

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Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Skelton Grange Landfill Site LS15 4HD Certificate No. 601/29 Skelton Grange Landfill Site Newsam Green Leeds LS15 9AD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited- West Manchester MRF & Transfer Station and Workshop Certificate No. 601/30 Junction Works Bickershaw Lane Wigan WN2 5TB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Derby MRF DE24 8EJ Certificate No. 601/31 Derby MRF Unit 4 Trafalgar Park Way Derby Derbyshire DE24 8EJ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Colnbrook Landfill Site SL3 8AB Certificate No. 601/32 Sutton Lane Slough SL3 8AB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

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Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited -Trecatti Landfill Site CF48 4AB Certificate No. 601/33 Trecatti Landfill Site Pant-y-Waun Merthyr Tydfil Mid Glamorgan CF48 4AB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Ugley Landfill Site CM22 6HT Certificate No. 601/34 Cambridge Road Ugley Bishop's Stortford Hertfordshire CM22 6HT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited -Wembley Transfer Station HA0 1ES Certificate No. 601/35 Wembley Transfer Station Marsh Road Wembley Middlesex HA0 1ES United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Aldridge MRF WS9 8EX Certificate No. 601/37 Westgate Aldridge Walsall Staffordshire WS9 8EX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Kilsyth Treatment & Transfer Plant G65 9LP Certificate No. 601/38 13 Kilsyth Road Twechar Glasgow G65 9LP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Burscough HW - L40 8LD Certificate No. 601/39 7 Tollgate Crescent Burscough Industrial Estate Ormskirk L40 8LT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Stevenage HW - AL9 7HF Certificate No. 601/40 Welham Green Hazardous Waste Transfer Station Unit B Traveller's Lane Hatfield AL9 7HF United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Milton Keynes Transfer Station - MK6 1NE Certificate No. 601/41 Chesney Wold Milton Keynes MK6 1NE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Dewsbury Transfer Station - WF13 3LX Certificate No. 601/42 Low Mill Lane Dewsbury WF13 3LX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Broxburn MRF - EH52 5AU Certificate No. 601/43 Unit 33B, 2/8 Westerton Road Broxburn EH52 5AU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Atherstone HW - CV9 1JG Certificate No. 601/44 Unit 12 Fourways Atherstone CV9 1JG United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited-Sheffield HW - S20 3FG Certificate No. 601/45 Holbrook Rise Sheffield S20 3FG United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Studley Grange Landfill Site SN4 9QT Certificate No. 601/46 Studley Swindon SN4 9QT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Wilnecote Landfill Site B77 1LT Certificate No. 601/48 Rush Lane Dosthill Tamworth Staffordshire B77 1LT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Edmonton MRF (Atlas) N9 0BD Certificate No. 601/49 Unit 2 Aztec 406 London Middlesex N9 0BD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Ufton IVC CV33 9PP Certificate No. 601/50 In Vessel Composting Site Ufton Landfill Site Leamington Spa Warwickshire CV33 9PP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Eye Landfill Site PE6 7TH Certificate No. 601/51 Eye Landfill Site Eyebury Road Peterborough PE6 7TH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Caerphilly MRF - CF82 7TR Certificate No. 601/52 Unit 3 Willow Way Dyffryn Business Park Caerphilly CF82 7TR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Southampton TS & Recycling Centre Certificate No. 601/58 Link House Tower Lane Eastleigh SO50 6NZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Leicester Certificate No. 601/59 Ball Mill Hoods Close Leicester LE4 2BN United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Bodmin Certificate No. 601/61 Windwhistle Depot, Windwhistle House Cooksland Road Bodmin Cornwall PL31 2RH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Melton Certificate No. 601/62 Recycling Centre Lake Terrace Melton Mowbray Leicestershire LE13 0BZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Cannock Certificate No. 601/64 Poplars Land Fill Site Lichfield Road Cannock Staffordshire WS11 8NQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - South Staffs Certificate No. 601/65 Poplars Land Fill Site Lichfield Road Cannock Staffordshire WS11 8NQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Norwich
Certificate No. 601/67
William Frost Way Longwater Business Park
Norwich Norfolk NR5 0JS
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Municipal Limited - St Austell
Certificate No. 601/68
Tregongeeves Depot, Tregongeeves Lane, St Mewan
St. Austell Cornwall PL26 7DS
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Municipal Limited - Warwick
Certificate No. 601/69
Lower House Farm Birch Coppice Industrial Estate
Atherstone CV9 2QA
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Municipal Limited - South Oxford & Vale of White Horse
Certificate No. 601/70
Unit 126 Site 1 Station Road
Abingdon Oxfordshire OX14 3DA
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Wirral Certificate No. 601/71 Dock Road South Wirral Cheshire CH62 4SQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - South Bucks Certificate No. 601/73 Dropmore Road Depot Dropmore Road Burnham Buckinghamshire SL1 8ND United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Arun Certificate No. 601/74 Harwood Road Depot Harwood Road Littlehampton West Sussex BN17 7AU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Edinburgh Transfer Station - EH5 1QD Certificate No. 601/75 West Shore Road Edinburgh EH5 1QD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Lincoln Certificate No. 601/78 Lincoln Contract, Central Depot Stampend, Waterside South Lincoln Lincolnshire LN5 7JD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Swindon Transfer Station - SN3 4PD Certificate No. 601/80 Bridge End Road, Swindon SN3 4PD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Anglesey Certificate No. 601/81 Angelsey Industrial Estate Gaerwen Anglesey LL60 6HR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Kilsby Landfill Site CV23 8XF Certificate No. 601/82 Grove Farm Daventry Road Rugby Warwickshire CV23 8XF United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa West Sussex MBT - Brookhurst Wood RH12 4QD Certificate No. 601/83 Brookhurst Wood Langhurst Wood Road Horsham West Sussex RH12 4QD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Pebsham Landfill Site TN38 8AY Certificate No. 601/85 Freshfields Bexhill Road St. Leonards-on-Sea East Sussex TN38 8AY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Manchester Certificate No. 601/86 Manchester 1st Floor Council Depot Hammerstone Road, Manchester M18 8EQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - York Transfer Station - YO26 7QF Certificate No. 601/88 Unit 13 Marston Moor Business Park, Tockwith YO26 7QF United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Attleborough HW - NR17 2QZ Certificate No. 601/91 Unit 51 Maurice Gaymer Road Attleborough NR17 2QZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Loughborough HW - LE12 5TR Certificate No. 601/93 Plot F & Car Park, Wymeswold Industrial Park Wymeswold Lane Burton on the Wolds LE12 5TR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Poplars Landfill Site WS11 8EQ Certificate No. 601/94 Poplars Landfill Site Lichfield Road Cannock Staffordshire WS11 8EQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Brookhurst Wood Landfill Site RH12 4QD Certificate No. 601/95 Brookhurst Wood Landfill Site Langhurst Wood Road Horsham West Sussex RH12 4QD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Eversley Transfer Station RG27 8BP Certificate No. 601/96 Star Hill Sawmills Star Hill Hook Hampshire RG27 8BP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Poplars AD Plant WS11 8NQ Certificate No. 601/99 Poplars Anaerobic Digestion Facility (Known as Poplars AD) Cannock Staffordshire WS11 8NQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Tandridge Certificate No. 601/100 Warren Lane Depot Warren Lane Oxted Surrey RH8 9DB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Edmonton Transfer Station N17 0UN Certificate No. 601/103 Edmonton Transfer Station 81 Garman Road London N17 0UN United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Ltd. Cardiff Transfer Station (R&E) Certificate No. 601/104 Leckworth Industrial Estate Bessemer Close Cardiff CF11 8DL United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Attlebridge Landfill Site NR9 5TD Certificate No. 601/105 Reepham Road Attlebridge Norwich NR9 5TD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - East Hants & Winchester Certificate No. 601/106 Barfield Close Winchester Hampshire SO23 9SQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Glasgow Transfer Station G4 0LP Certificate No. 601/107 360 Pinkston Road Glasgow G4 0LP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Chelmsford Recycling CM3 3AW Certificate No. 601/108 Chelmsford Recycling Industrial Estate, Waltham Road Chelmsford CM3 3AW United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited Wednesbury Treatment Centre WS10 7NR Certificate No. 601/109 Wednesbury Treatment Centre Potters Lane Wednesbury WS10 7NR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Swarf (Foxyards) DY4 9AQ Certificate No. 601/110 Bean Road Tipton DY4 9AQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Bradford Recycling BD4 7EZ Certificate No. 601/111 Linton Street Bradford West Yorkshire BD4 7EZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Lean Quarry Certificate No. 601/116 Lean Farm Landfill Horningtops Cornwall PL14 3QD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - TRAFFORD PARK Certificate No. 601/117 Wharf Road Trafford Park Manchester M17 1BS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Ufton Landfill Site CV33 9PP Certificate No. 601/122 Ufton Landfill Site UftonNr Southam Leamington Spa Warwickshire CV33 9PP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - St Erth Certificate No. 601/123 St Erth Depot, St Erth Industrial Estate Rose an Grouse, Canonstown Hayle Cornwall TR27 6LP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

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Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Leicester Transfer Station LE7 1GQ Certificate No. 601/124 90 High Street Syston Leicestershire LE7 1GQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Risley Landfill Site WA3 6BY Certificate No. 601/127 Moss Side Farm Silver Lane Warrington WA3 6BY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - WALPOLE AD Certificate No. 601/129 Walpole Pawlett Bridgwater Somerset TA6 4TF United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - Bonnyrigg Depot (Edinburgh) Certificate No. 601/132 Unit 4a Dalhousie Business Park Carrington Road Bonnyrigg Midlothian EH19 3HY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Corby Depot
Certificate No. 601/133
Oakley MRF and Depot Pilot Road
Corby NN17 5YH
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa I&C Limited - Exeter
Certificate No. 601/135
Compound 60 Greendale Business Park
Exeter Devon EX5 1EW
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa I&C Limited - HERSDEN
Certificate No. 601/137
Unit 9 Stone Way Lakesview
International Business Park
Hersden Kent CT3 4GP
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa I&C Limited - THETFORD 3
Certificate No. 601/138
5 Howlett Way
Thetford Norfolk IP24 1HZ
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

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Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Salmon Pastures Depot (Sheffield) Certificate No. 601/139 Salmon Pastures Warren Street Sheffield S4 7WT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Chard HWRC (Somerset) Certificate No. 601/142 Beeding Close Chard Somerset TA20 1BB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Newham Certificate No. 601/143 Lighteridge Hill Truro TR1 2XR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Crawley Certificate No. 601/144 Metcalf Way Depot Metcalf Way Crawley West Sussex RH11 7SU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

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Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa R&E Limited - Milton Keynes MRF Certificate No. 601/146 53 Colts Holm Road Wolverton Milton Keynes MK12 5QD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Houghton le Spring Landfill Site DH4 4AU Certificate No. 601/147 The Quarry Quarry Row Houghton Le Spring DH4 4AU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Tipton Transfer Station DY4 7BY Certificate No. 601/148 Tipton Transfer Station Chimney Road Tipton DY4 7BY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Roxby Landfill Site DN15 0BD Certificate No. 601/149 Winterton Road Scunthorpe DN15 0BD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

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Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Etwall IVC Composting DE65 6GX Certificate No. 601/150 Etwall Composting Boundary Road Etwall Derbyshire DE65 6GX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Grimsby Transfer Station DN31 2RL Certificate No. 601/151 Grimsby Transfer Station Gilbey Road Grimsby Lincolnshire DN31 2RL United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Ltd. East London Depot, Transfer Station & Recycling Facility (I&C) Certificate No. 601/155 Maybell Farm Ripple Road Barking Essex IG11 0TT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Hull Transfer Station Certificate No. 601/157 Bailing Plant, Stoneferry Road, Hull HU8 8AU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Bude
Certificate No. 601/158
Kingshill Depot, Unit 15 & 16 Kingshill Industrial Estate
Bude Cornwall EX23 8QN
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Municipal Limited - Liskeard
Certificate No. 601/159
Moorswater Depot Old Station Road
Liskeard Cornwall PL14 4LA
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Waste Services Limited - Meece Landfill Site ST15 0QN
Certificate No. 601/160
Meece Landfill Site Swynnerton
Stone Staffordshire ST15 0QN
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

Biffa Municipal Limited - Rutland
Certificate No. 601/161
Rutland Contract, Unit 4 Station Court
Whissendine Road, Ashwell
Oakham Leicestershire LE15 7LT
United Kingdom

The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date: 6 April 2004
Reissued: 30 August 2024
Valid Until: 2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Stratford upon Avon Certificate No. 601/162 The Council Yard Avenue Farm Industrial Estate Stratford-upon-Avon Warwickshire CV37 0HR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Newstead Transfer Station - ST4 8HT Certificate No. 601/163 Newstead Materials Recycling Facility Alderflat Drive, Newstead Industrial Estate Stoke-on-Trent Staffordshire ST4 8HX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Standen Heath Landfill - PO30 2PD Certificate No. 601/165 Plot 45 Manners View Newport Isle of Wight PO30 2PD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Sheffield Transfer Station - S9 5FE Certificate No. 601/166 359-361 Greenland Road Sheffield South Yorkshire S9 5FE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - St Helens Transfer Station - WA9 1LT Certificate No. 601/167 Navigation Road Pocket Nook St. Helens WA9 1LT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - Heathfield Workshop Certificate No. 601/169 John Acres Lane Kingsteignton Newton Abbot Devon TQ12 3GP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Specialist Services Limited - SOUTH EAST TANKERS Certificate No. 601/170 Slough Sewage Works Slough SL1 9EB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa HAZ Limited - SOUTH WEST TANKERS Certificate No. 601/171 Crown Industrial Estate Priorswood Taunton TA2 8QY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Taunton OWRC Certificate No. 601/173 Crown Industrial Estate Priorswood Taunton TA2 8QY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Ford MRF (West Sussex) Certificate No. 601/174 Phase 1 Hunterford Business Park Ford Arundel West Sussex BN18 0FL United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - Corby MRF & TS Certificate No. 601/175 Oakley MRF & TS Pilot Road Corby NN17 5YH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Dimmer OWRC Certificate No. 601/176 Dimmer Lane Castle Cary Somerset BA7 7NR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Hinkley Point C Certificate No. 601/178 C Power Station Bridgwater TA5 1UD United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - Salmon Pastures TS (Sheffield) Certificate No. 601/179 Salmon Pastures Warren Street Sheffield S4 7WT United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - Bonnyrigg TS (Edinburgh) Certificate No. 601/180 Unit 4a Dalhousie Business Park Carrington Road Bonnyrigg Midlothian EH19 3HY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Crawley TS (West Sussex) Certificate No. 601/181 Metcalf Way Crawley West Sussex RH11 7SU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa R&E Limited - Lancing TS (West Sussex) Certificate No. 601/182 Unit 17 Chartwell Road Lancing West Sussex BN15 8TU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - POOLE (V) Certificate No. 601/183 PARKSTONE WASTE TRANSFER STATION ASTON WAY POOLE BH12 4FE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Specialist Services Limited - Maple Lodge Certificate No. 601/184 Maple Lodge Denham Way Rickmansworth Hertfordshire WD3 9SQ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics The provision of waste management and recycling solutions and operation of a packaging waste compliance scheme
Biffa R&E Limited - East Grinstead HWRS (West Sussex) Certificate No. 601/186 Highgrove Imberhorne Road East Grinstead West Sussex RH19 1TZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa I&C Limited - Cornwall Roche Depot and Workshop Certificate No. 601/187 Unit D, Victoria Business Park Roche St Austell Cornwall PL26 8LX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Burgess Hill TS (West Sussex) Certificate No. 601/188 Burgess Hill Fairbridge Way Burgess Hill West Sussex RH15 8AR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Cheddar HWRC (Somerset) Certificate No. 601/189 Wedmore Road Cheddar Somerset BS27 3AE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Crewkerne HWRC (Somerset) Certificate No. 601/190 Blacknell Lane Crewkerne Somerset TA18 7HE United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Dimmer HWRC (Somerset) Certificate No. 601/191 Dimmer Lane Castle Cary Somerset BA7 7NR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Dulcote HWRC (Somerset) Certificate No. 601/192 Dulcote Hill Dulcote BA5 3PZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Dulverton HWRC (Somerset) Certificate No. 601/193 Dulverton HWRC Brushford Road Dulverton Somerset TA22 9AA United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Frome HWRC (Somerset) Certificate No. 601/194 Frome HWRC Manor Furlong Frome Somerset BA11 4RN United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Highbridge HWRC (Somerset) Certificate No. 601/195 Isleport Business Park Highbridge Somerset TA9 4PW United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Minehead HWRC (Somerset) Certificate No. 601/196 Mart Rd Industrial Estate Minehead Somerset TA24 5BJ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Poole HWRC (Somerset) Certificate No. 601/197 Poole Brickworks Nynehead Wellington Somerset TA21 9HH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Taunton TS Certificate No. 601/198 Crown Industrial Estate Priorswood Taunton TA2 8QY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
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Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Saltlands HWRC (Somerset) Certificate No. 601/199 Saltlands Hwrc Saltlands Ave Bridgwater Somerset TA6 3JG United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Somerton HWRC (Somerset) Certificate No. 601/200 Somerton HWRC Bancombe Industrial Estate Somerton Somerset TA11 6SB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Street HWRC (Somerset) Certificate No. 601/201 Street HWRC Farm Road Street Somerset BA16 0BB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Williton HWRC (Somerset) Certificate No. 601/202 Roughmoor Williton Industrial Estate Williton Somerset TA4 4RA United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Yeovil HWRC (Somerset) Certificate No. 601/203 Artillery Road Yeovil Somerset BA22 8PP United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Blantyre HWRC (South Lanarkshire) Certificate No. 601/204 East Avenue Blantyre Industrial Estate Blantyre Lanarkshire G72 0JB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - East Kilbride HWRC (South Lanarkshire) Certificate No. 601/205 Peel Park Road College Milton East Kilbride Lanarkshire G74 5LV United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Larkhall HWRC (South Lanarkshire) Certificate No. 601/206 Baird Avenue Strutherhill Industrial Estate Larkhall ML9 2WW United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Municipal Limited - Rutherglen HWRC (South Lanarkshire) Certificate No. 601/207 Eastfield Waste and Recycling Centre Cambuslang Road Rutherglen G72 7DB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Srathhaven HWRC (South Lanarkshire) Certificate No. 601/208 Hamilton Road Industrial Estate Strathaven ML10 6UB United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Billingshurst HWRS (West Sussex) Certificate No. 601/209 Newbridge Road Billingshurst West Sussex RH14 9HY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Bognor Regis HWRS (West Sussex) Certificate No. 601/210 Shripney Road Bognor Regis West Sussex PO22 9PA United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa R&E Limited - Crawley HWRS (West Sussex) Certificate No. 601/211 Metcalf Way Crawley West Sussex RH11 7SU United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Littlehampton HWRS (West Sussex) Certificate No. 601/212 Mill Lane Wick Littlehampton West Sussex BN17 7PH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Midhurst HWRS (West Sussex) Certificate No. 601/213 Bepton Road Midhurst West Sussex GU29 9QX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Horsham HWRS (West Sussex) Certificate No. 601/214 Horsham HWRC Worthing Road Horsham West Sussex RH13 0AR United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa R&E Limited - Shoreham HWRS (West Sussex) Certificate No. 601/215 Shoreham HWRC Brighton Road Shoreham West Sussex BN43 6RJ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Worthing HWRS (West Sussex) Certificate No. 601/216 Worthing HWRC Willowbrook Road Worthing West Sussex BN14 8NA United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Westhamptnett HWRS (West Sussex) Certificate No. 601/218 Westhampnett Coach Road Westhampnett West Sussex PO18 0NS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Westhampnett TS (West Sussex) Certificate No. 601/219 Westhampnett Coach Road Westhampnett West Sussex PO18 0NS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa R&E Limited - Chelson Meadow MRF (Plymouth) Certificate No. 601/220 The Ride Plymstock Plymouth Devon PL9 7JA United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa R&E Limited - Masons MRF (Ipswich) Certificate No. 601/221 Great Blakenham Ipswich Suffolk IP6 0JX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Certificate No. 601/222 Collins Road Heathcote Industrial Estate Warwick CV34 6TF United Kingdom	The collection, transport, sorting, separation, treatment, recycling, recovery and disposal of controlled waste including household, municipal, commercial and industrial waste (including hazardous and difficult waste). The operation of materials recycling facilities, household waste recycling facilities, composting plants, wood processing facilities, transfer stations including security shredding operations, energy from waste plants, landfill sites, gas utilisation plants, logistics depots, vehicle workshops and associated procurement activities
Biffa I&C Limited - Bargeddie Depot Certificate No. 601/223 Langmuir Way Bargedie Glasgow G69 7RW United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Limited - Shakespeare Farm Certificate No. 601/224 Shakespeare Farm Ratcliffe Highway Rochester Kent ME3 8RN United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Waste Services Limited - Avonmouth Recycling BS11 9HW Certificate No. 601/225 Unit 7 Yara Trading Estate St. Andrews Road Bristol BS11 9HW United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Amberstone Certificate No. 601/226 2a Amberstone Hailsham BN27 1PH United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Taunton HWRC (Somerset) Certificate No. 601/227 Crown Industrial Estate Priorswood Taunton TA2 8QY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Ltd. Cardiff Hazardous Waste Transfer Station (I&C) Certificate No. 601/228 Curran Embankment Riverside Cardiff CF10 5FX United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Portsmouth Certificate No. 601/229 Unit 26 A/B/C Alchorne Place Portsmouth PO3 5QL United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Polymers Certificate No. 601/230 PET Seaham Unit 9, Foxcover Distribution park Seaham SR7 7DN United Kingdom	The provision of waste management and recycling solutions and operation of a packaging waste compliance scheme
Biffa R&E Limited - East Grinstead TS (West Sussex) Certificate No. 601/231 Highgrove Imberhorne Road East Grinstead West Sussex RH19 1TZ United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

Certificate of Registration

Appendix to Certificate Number: 601

Includes Facilities Located at:

Biffa Waste Services Ltd Certificate No. 601/232 WES Building Plastics Road Redcar TS10 4RG United Kingdom	The provision of waste management and recycling solutions and operation of a packaging waste compliance scheme
Biffa - Bourne Mill Depot Workshop Certificate No. 601/233 Guildford Road Farnham Surrey GU9 9PS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa Municipal Limited - Bourne Mill Depot Certificate No. 601/234 Guildford Road Farnham Surrey GU9 9PS United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics
Biffa I&C Limited - EASTERN TANKERS Certificate No. 601/236 Vopak Terminal Oliver Road Essex RM20 3EY United Kingdom	The provision of full waste management services including collection, treatment and cleaning. The processing and disposal of waste and recyclable materials as well as the production and sale of energy and recovered commodities including aggregates, paper, glass, metals and plastics The provision of waste management and recycling solutions and operation of a packaging waste compliance scheme

UKAS MANAGEMENT SYSTEMS 0015

SSIP SAFETY SCHEMES IN PROCUREMENT

ISO Approval Date:	6 April 2004
Reissued:	30 August 2024
Valid Until:	2 September 2027

APPENDIX 3

EWC Code List

Table 1- Waste Operations: [Activity Ref: *Physical Treatment of Non-Hazardous Wastes for recovery* (manual sorting, separation, shredding, milling, evaporation, compaction and baling]

Code	Waste Description
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	**Waste from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing**
02 01 04	Waste plastics
02 01 07	Waste from forestry
02 01 09	Agrochemical waste other than those mentioned in 02 01 08
02 01 10	Waste metal
02 03	**Wastes from fruit, vegetable, cereals, edible oils, cocoa, coffee, tea and Tobacco preparation; conserve production; yeast and yeast extract Production, molasses preparation and fermentation**
02 03 02	Waste from preserving agents
02 03 04	Materials unsuitable for consumption or processing
02 05	**Wastes from the dairy products industry**
02 05 01	Materials unsuitable for consumption or processing
02 06	**Wastes from the baking and confectionery industry**
02 06 01	Materials unsuitable for consumption or processing
02 07	**Wastes from the preparation of alcoholic and non-alcoholic beverages (Except coffee, tea and cocoa)**
02 07 04	Materials unsuitable for consumption or processing
03	**WASTE FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 01	**Waste from wood processing and the production of panels and furniture**
03 01 05	Sawdust, shavings, cuttings, wood partial board and veneer other than those mentioned in 03 01 04
03 03	**Waste from pulp, paper and cardboard production and processing**
03 03 07	Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	Waste from sorting of paper and cardboard destined for recycling
04	**WASTE FROM THE LEATHER, FUR AND TEXTILE INDUSTRY**
04 01	**Waste from the leather and fur industry**
04 01 09	Waste from dressing and finishing
04 02	**Waste from the textile industry**
04 02 09	Wastes from composite materials
04 02 21	Waste from unprocessed textile fibres
04 02 22	Waste from processed textile fibres
06	**WASTES FROM INORGANIC CHEMICAL PROCESSES**
06 03	**Wastes from mfsu of salts and their solutions and metallic oxides**
06 03 14	Solids salts and solutions other than those mentioned in 06 03 11 and 06 03 13
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 02	**Wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 13	Waste Plastic
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS) ADHESIVES, SEALANTS AND PRINTINK INKS.**
08 01	**Waste from the MFSU and removal of paint and varnish**
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
08 02	**Wastes from the MFSU of other coatings**
08 02 01	Waste coating powders
08 02 03	Aqueous suspensions containing ceramic materials

Code	Waste Description
08 03	**Waste from mfsu of printing inks**
08 03 13	Waste ink other than those mentioned in 08 03 12*
08 03 18	Waste printing toner other than those mentioned in 08 03 17*
08 04	**Wastes from the MFSU of adhesives and sealants (including waterproofing products)**
08 04 10	Waste adhesives and sealants other than those mentioned in 08 04 09
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**Wastes From Photographic Industry**
09 01 07	Photographic film and paper containing silver or silver compounds
09 01 08	Photographic film and paper free of silver or silver compounds
09 01 09	Single-use cameras with batteries
09 01 10	Single-use cameras without batteries
09 01 12	Single-use cameras containing batteries other than those mentioned in 09 01 11
10	**WASTES FROM THERMAL PROCESSES**
10 11	**Waste from the manufacture of glass and glass products**
10 11 12	Waste glass other than those mentioned in 10 11 11*
15	**WASTE PACKAGNG; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND) PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	**Packaging (including separately collected municipal packaging waste)**
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
15 02	**Absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 02	**Batteries and Accumulators**
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15
16 03	**Off-specification Batches and Unused Products**
16 03 04	Inorganic wastes other than *those* mentions in 16 03 03
16 03 06	Organic wastes other than those mentioned in 16 05 05
16 05	**Gases in pressure containers and discarded chemicals**
16 05 05	Gases in pressure containers other than those mentioned in 16 05 04*
16 06	**Batteries and Accumulators**
16 06 05	Other batteries and accumulators
16 10	**Aqueous liquid waste destined for off-site treatment**
16 10 02	Aqueous liquid waste other than those mentioned in 16 10 01*
16 10 04	Aqueous concentrates other than those mentioned in 16 10 03*
17	**CONSTRUCTION AND DEMOLITION WASTE (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**Concrete, bricks, tiles and ceramics**

Code	Waste Description
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastics
17 04	**Metals including their alloys**
17 04 01	Copper, Bronze, Brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Mixed metals
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR OTHER RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTE NOT ARRISING FROM IMMEDIATE HEALTH CARE)**
18 01	**Waste from natal care, diagnosis, treatment or prevention of disease in Humans**
18 01 01	Sharps (except 180301) clean sharps
18 01 04	Waste whose collection and disposal is not subject to special requirements in order to prevent disease e.g. linen, casts, clothing
18 01 07	Chemical other than those mentioned in 18 01 06*
18 01 09	Medicines other than those mentioned in 18 01 08*
18 02	**Waste from research, diagnosis, treatment or prevention of disease involving animals.**
18 02 03	Waste whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	Chemical other than those mentioned in 18 02 05*
18 02 08	Medicines other than those mentioned in18 01 07*
19	**WASTES FROM WASTE MANAGEMENT FACILITYS, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMANCONSUMPTION AND WATER FOR INDUSTRTAL USE**
19 12	**Wastes from the mechanical treatment of waste *(for* example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	Paper and cardboard
19 12 02	Ferrous Metal
19 12 03	Non-Ferrous Metal
19 12 04	Plastic and Rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 191206
19 12 08	Textiles
20	**MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPERATELY COLLECTED FRACTIONS**
20 01	**Separately Collected Fractions (except 15 01)**
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable Kitchen and canteen waste
20 01 10	Biodegradable Kitchen and canteen waste
20 01 11	Clothes
20 01 25	Textiles
20 01 26	Edible oil and fat
20 01 28	Oil and fat other than those mentioned in 20 01 25
20 01 29	Paint, inks, adhesives and resins other than those mentioned in 20 01 29

Code	Waste Description
20 01 32	Medicines other than those mentioned in 20 01 31
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 36	Discarded electrical and electronic equipment other than those mentioned in20 01 21,20 01 23 and 20 01 35
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 02	**Garden and park waste**
20 02 01	Biodegradable waste
20 02 03	Other non-biodegradable waste
20 03	**Other municipal wastes**
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 03	Waste from markets
20 03 07	Bulky waste

Table 2: Storage and Repackaging of Hazardous Products / Online Returns [Activity Refs: *Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging* (5.3 Part A(1)(a)(iv)) and *Storage of hazardous waste* (S5.6 Part A(1)(a))]

Code	Waste Description
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
0201	**Waste from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing**
02 01 08*	Agrochemical waste containing dangerous substances
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS) ADHESIVES, SEALANTS AND PRINTINK INKS.**
08 03	**Waste from mfsu of printing inks**
08 03 12*	Waste ink containing dangerous substances
08 03 17*	Waste printing toner containing dangerous substances
08 04	**Wastes from the MFSU of adhesives and sealants (including waterproofing products)**
08 04 09*	Waste adhesives and sealants containing organic or other dangerous substances
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**Wastes From Photographic Industry**
09 01 11*	Single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
15	**WASTE PACKAGNG; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND) PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 02	**Absorbents, filter materials, wiping cloths and protective clothing**
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths and protective clothing contaminated by dangerous substances
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**End of life vehicles from different means of transport (including off road machinery) and wastes from dismantling of end of life vehicles and vehicle maintenance (except 13,14,16 06 and 16 08)**
16 01 07*	Oil filters
16 02	**Wastes from electrical and electronic equipment**
16 02 09*	Transformers and capacitors containing PCBs

Code	Waste Description
16 02 10*	Discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	Discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 12*	Discarded equipment containing free asbestos
16 02 13*	Discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	Hazardous components removed from discarded equipment
16 03	**Off-specification Batches and Unused Products**
16 03 03*	Inorganic wastes containing dangerous substances
16 03 05*	Organic waste containing dangerous substances
16 05	**Gases in pressure containers and discarded chemicals**
16 05 04*	Gases in pressure containers (including halos) containing dangerous substances
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 08*	cytotoxic and cytostatic medicines
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 07*	cytotoxic and cytostatic medicines
20	**Municipal WASTES (Household WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTION WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**Separately Collected Fractions (except 15 01)**
20 01 13*	Solvents
20 01 31*	cytotoxic and cytostatic medicines
20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous materials

Table 3: Hazardous Vape / WEEE Destruction [Activity Ref: *Physio-chemical Treatment of hazardous wastes* (S5.3 A(1)(a)(ii))]

Code	Waste Description
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 02	**Wastes from electrical and electronic equipment**
16 02 09*	Transformers and capacitors containing PCBs
16 02 10*	Discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 12*	Discarded equipment containing free asbestos
16 02 13*	Discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	Hazardous components removed from discarded equipment
20	**Municipal WASTES (Household WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTION WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**Separately Collected Fractions (except 15 01)**
20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries

Code	Waste Description
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous materials

Table 4: Hazardous Nitrous Oxide Cannister Destruction [Activity Ref: Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii))]

Code	Waste Description
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 05	**Gases in pressure containers and discarded chemicals**
16 05 04*	Gases in pressure containers (including halos) containing dangerous substances

Table 5: Hazardous Cigarettes Destruction [Activity Ref: *Physico-chemical Treatment of hazardous wastes* (S5.3 A(1)(a)(ii))]

Code	Waste Description
15	**WASTE PACKAGNG; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND) PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED.**
15 02	**Absorbents, filter materials, wiping cloths and protective clothing**
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths and protective clothing contaminated by dangerous substances
16 03	**Off-specification Batches and Unused Products**
16 03 03*	Inorganic wastes containing dangerous substances
16 03 05*	Organic waste containing dangerous substances

***Table 6: Hazardous Alcohol and Cosmetics** Destruction [Activity Refs: Physio-chemical Treatment of hazardous wastes (S5.3 A(1)(a)(ii)) and Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving blending or mixing (5.3 A(1)(a)(iii))]*

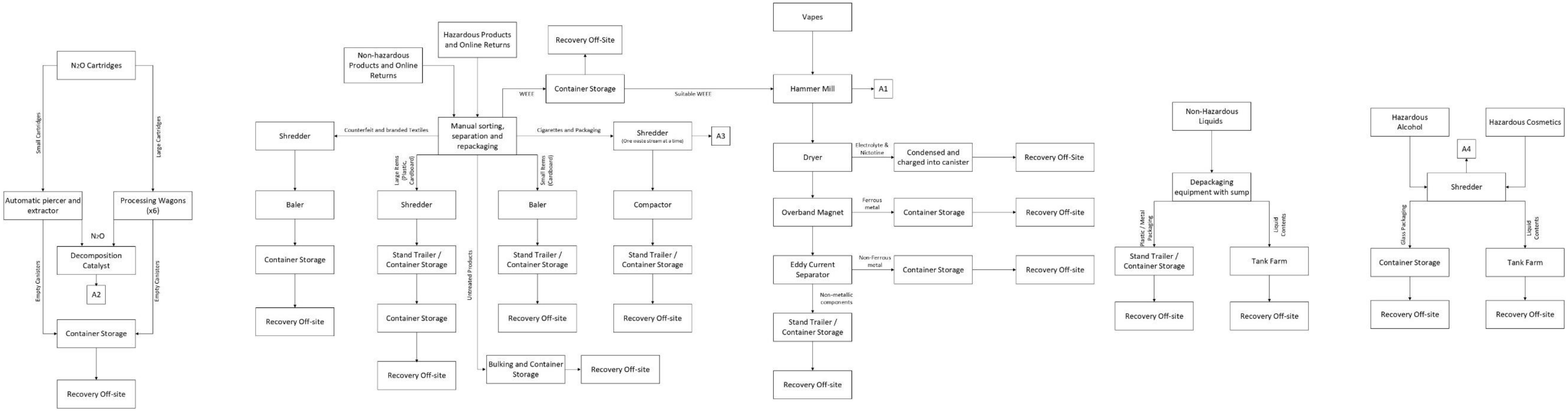
Code	Waste Description
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
0201	**Waste from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing**
02 01 08*	Agrochemical waste containing dangerous substances
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 03	**Off-specification Batches and Unused Products**
16 03 03*	Inorganic wastes containing dangerous substances
16 03 05*	Organic waste containing dangerous substances
20	**MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPERATELY COLLECTED FRACTIONS**
20 01	**Separately Collected Fractions (except 15 01)**
20 01 13*	Solvents

APPENDIX 4

Site Process Flow

Tipton SWARF **Site Process Flow**

Updated 24/11/2025



APPENDIX 5

Noise Impact Assessment

Chimney Road, Tipton – Secure Waste and Recycling Facility

Noise Impact Assessment for Planning Application

4th November 2025

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Version	1	2	3
Comments	Noise Assessment	Revised Operations Description	
Date	19th September 2025	4th November 2025	
Authored By	Janec Lillis-James MSc, BSc MIOA	Neil Morgan MSc MIOA	
Reviewed By	Antony Best BSc (Hons) MIOA	-	
Checked By	Neil Morgan MSc MIOA	-	
Project Number	25-001	25-001	

Contents

Figures

Tables

1. Introduction

1.1. Overview

inacoustic has been commissioned to undertake a noise impact assessment in relation to the proposed redevelopment of the former Waste Transfer Station at Chimney Road, Tipton, into a Secure Waste and Recycling Facility.

The following technical noise assessment has been produced to accompany a Planning Application to Sandwell Metropolitan Borough Council and is based upon environmental noise measurements undertaken at the site and a subsequent 3-dimensional noise modelling exercise.

This noise assessment is necessarily technical in nature; therefore a glossary of terms is included in Appendix A to assist the reader.

1.2. Scope and Objectives

The scope of the noise assessment can be summarised as follows:

- A sound monitoring survey was undertaken at a discrete location representative of the closest noise-sensitive receptors to the Site;
- An assessment of potential noise impacts with respect to the prevailing acoustic conditions at existing off-site receptors; and
- Recommendation of mitigation measures, where necessary, to comply with the requirements of the National Planning Practice Guidance in England: Noise[1] and BS4142:2014+A1:2019[2].

[1] Department for Communities and Local Government (DCLG), 2014. National Planning Practice Guidance for England: Noise. DCLG.
[2] British Standard Institution. BS 4142:2014+A1: 2019: Methods for rating and assessing industrial and commercial sound.

2. Legislation and Policy Framework

The development proposals for the Site are guided by the following policy directives and guidance:

2.1. National Policy

2.1.1. National Planning Policy Framework, 2024

The *National Planning Policy Framework* (NPPF)[3] sets out the UK Government's planning policies for England. Planning policy requires that applications for planning permission must be determined in accordance with the development plan, unless material considerations indicate otherwise.

The NPPF is also a material consideration in planning decisions. It sets out the Government's requirements for the planning system and how these are expected to be addressed.

Under Section 15; *Conserving and Enhancing the Natural Environment*, in Paragraph 187, the following is stated:

"Planning policies and decisions should contribute to and enhance the natural and local environment by:

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability.".

Paragraph 198 of the document goes on to state:

"Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;
b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason"

Paragraph 198 refers to the Noise Policy Statement for England, which is considered overleaf.

[3] Ministry of Housing, Communities & Local Government (MHCLG), December 2024. National Planning Policy Framework. HMSO. London.

2.1.2. Noise Policy Statement for England, 2010

The underlying principles and aims of existing noise policy documents, legislation and guidance are clarified in *DEFRA: 2010: Noise Policy Statement for England* (NPSE)[4]. The NPSE sets out the *"Long Term Vision"* of Government noise policy as follows:

"Promote good health and good quality of life through the effective management of noise within the context of Government policy on sustainable development".

The NPSE outlines three aims for the effective management and control of environmental, neighbour and neighbourhood noise:

- *"Avoid significant adverse impacts on health and quality of life;*
- *Mitigate and minimise adverse impacts on health and quality of life; and*
- *Where possible, contribute to the improvement of health and quality of life".*

The guidance states that it is not possible to have a single objective noise-based measure that defines *"Significant Observed Adverse Effect Level (SOAEL)"* that is applicable to all sources of noise in all situations and that not having specific SOAEL values in the NPSE provides the necessary policy flexibility until further evidence and suitable guidance is available.

2.1.3. National Planning Practice Guidance in England: Noise, 2014

Further guidance in relation to the NPPF and the NPSE has been published in the *National Planning Practice Guidance in England: Noise* (NPPG Noise)[5], which summarises the noise exposure hierarchy, based on the likely average response. The following three observed effect levels are identified below:

- **Significant Observed Adverse Effect Level**: This is the level of noise exposure above which significant adverse effects on health and quality of life occur;
- **Lowest Observed Adverse Effect Level**: This is the level of noise exposure above which adverse effects on health and quality of life can be detected; and
- **No Observed Adverse Effect Level**: This is the level of noise exposure below which no effect at all on health or quality of life can be detected.

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[4] Department for Environment, Food and Rural Affairs (DEFRA), 2010. Noise Policy Statement for England. DEFRA.
[5] Department for Communities and Local Government (DCLG), 2014. National Planning Practice Guidance for England: Noise. DCLG.

Criteria related to each of these levels are reproduced in Table 1.

TABLE 1: SIGNIFICANCE CRITERIA FROM NPPG IN ENGLAND: NOISE

Perception	Examples of Outcomes	Increasing Effect Level	Action
Not Noticeable	No Effect	No Observed Effect	No specific measures required
Noticeable and Not Intrusive	Noise can be heard, but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect	No specific measures required
		Lowest Observed Adverse Effect Level	
Noticeable and Intrusive	Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
		Significant Observed Adverse Effect Level	
Noticeable and Disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and Very Disruptive	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory	Unacceptable Adverse Effect	Prevent

2.2. Assessment Criteria

2.2.1. BS4142:2014+A1:2019

BS4142:2014+A1:2019 sets out a method to assess the likely effect of sound from factories, industrial premises or fixed installations and sources of an industrial nature in commercial premises, on people who might be inside or outside a dwelling or premises used for residential purposes in the vicinity.

The procedure contained in BS4142:2014+A1:2019 for assessing the effect of sound on residential receptors is to compare the measured or predicted sound level from the source in question, the $L_{Aeq,T}$ *specific sound level*, immediately outside the dwelling with the $L_{A90,T}$ background sound level.

Where the sound contains a tonality, impulsivity, intermittency and other sound characteristics, then a correction depending on the grade of the aforementioned characteristics of the sound is added to the specific sound level to obtain the $L_{Ar,Tr}$ *rating sound level*. A correction to include the consideration of a level of uncertainty in sound measurements, data and calculations can also be applied when necessary.

BS4142:2014+A1:2019 states: *"The significance of sound of an industrial and/or commercial nature depends upon both the margin by which the rating level of the specific sound source exceeds the background sound level and the context in which the sound occurs"*. An estimation of the impact of the specific sound can be obtained by the difference of the rating sound level and the background sound level and considering the following:

- *"Typically, the greater this difference, the greater the magnitude of the impact."*
- *"A difference of around +10dB or more is likely to be an indication of a significant adverse impact, depending on the context."*
- *"A difference of around +5dB is likely to be an indication of an adverse impact, depending on the context."*
- *"The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context."*

During the daytime, the assessment is carried out over a reference time period of 1-hour, with the night-time assessment being carried out over a reference period of 15 minutes. The periods associated with day or night, for the purposes of the Standard, are considered to be 07.00 to 23.00 and 23.00 to 07.00, respectively.

3. Site Description

3.1. Site and Surrounding Area

The proposed development is located at Chimney Road, Tipton, West Bromwich, DY4 7BY, within a predominantly industrial area. The Black Country New Road (A41) lies approximately 45 m west of the site, and the Walsall Canal is situated around 125 m further west.

The application boundary and nearest noise-sensitive receptors are shown in Figure 1. The nearest noise-sensitive receptors (NSRs) are residential properties located approximately 160 m west of the site, beyond the A41.

The existing acoustic environment is dominated by road traffic noise, primarily from the A41.

Figure 1: Site Location

3.2. Proposed Development Overview

The proposed Secure Waste and Recycling Facility will involve a variety of internal and external operations, several of which are anticipated to generate noise either through mechanical processes or associated vehicle movements.

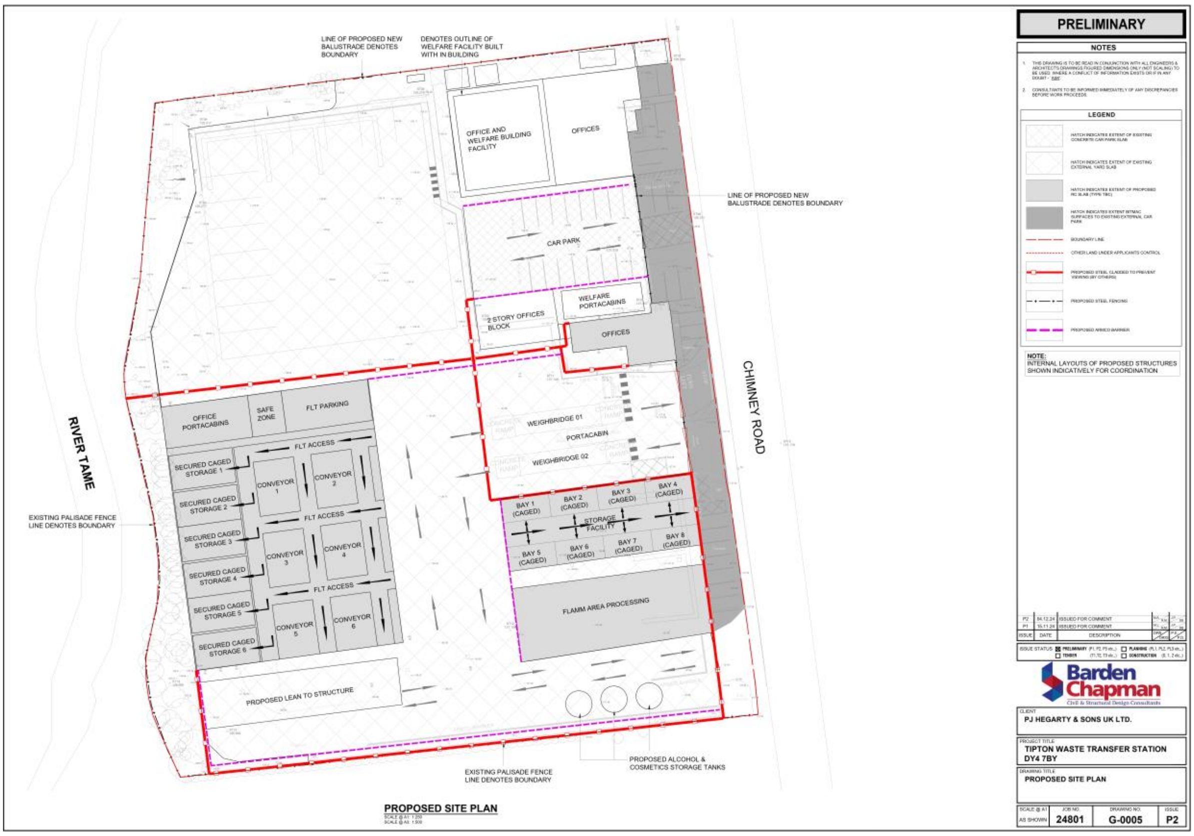
Within the main processing building, areas will be used for the manual sorting and destruction of waste products. These materials will then be shredded, baled, or compacted using fixed mechanical equipment. A dedicated line will also be used for the treatment of pressurised metal containers, involving mechanical shredding and degassing, with residual gases treated via a catalyst unit prior to emission.

In a newly constructed building at the southeastern extent of the site, hazardous and non-hazardous liquids within glass, plastic, or metal containers will be processed. This will include shredding and compaction or baling of materials for segregation and off-site recovery. While these operations will take place internally, their acoustic characteristics have been carefully considered in the modelling, particularly the potential for intermittent or impulsive noise during glass shredding.

Externally, a shovel loader will be used to transfer materials between buildings and storage areas. Forklift trucks will also be in operation across the site to move palletised materials, both inside and outside of buildings. Vehicle movements associated with the site will include articulated HGVs, vans, RoRo and skip wagons, and staff or visitor cars, with deliveries and collections restricted to the hours between 06:00 and 22:00. The handling of hazardous materials is expected to be controlled to avoid excessive impact noise.

All of the above activities have been represented within the noise assessment on the layout shown in Figure 2, using assumptions regarding source levels, duty cycles, building containment, and operational patterns.

FIGURE 2: PROPOSED DEVELOPMENT



4. Measurement Methodology

4.1. General

The prevailing noise conditions in the area have been determined by an environmental noise survey conducted between Wednesday 6th August and Tuesday 12th August 2025.

4.2. Measurement Details

All noise measurements were undertaken by a consultant certified as competent in environmental noise monitoring, and, in accordance with the principles of BS 7445[6].

All acoustic measurement equipment used during the noise survey conformed to Type 1 specification of British Standard 61672[7]. A full inventory of this equipment is shown in Table 2 below.

Table 2: Inventory of Sound Measurement Equipment

Position	Make, Model & Description	Serial Number	Calibration Certificate Number	Calibration Due Date
MP1	Rion NL-53 Sound Level Meter	00810575	CONF032202	19/03/2026
	Rion NH-25 Preamplifier	11118		
	Rion UC-59 Microphone	19968		
MP2	Rion NL-53 Sound Level Meter	00965159	TCRT25/1213	06/03/2027
	Rion NH-25 Preamplifier	65386		
	Rion UC-59 Microphone	18640		
MP3	Rion NL-52 Sound Level Meter	00965097	TCRT25/1214	06/03/2027
	Rion NH-25 Preamplifier	65324		
	Rion UC-59 Microphone	10223		
All	Rion NC-74 Acoustic Calibrator	34904966	1178397	20/03/2026

The sound measurement equipment used during the survey was field calibrated at the start and end of the measurement period. A calibration laboratory has calibrated the field calibrator used within the twelve months preceding the measurements. A drift of less than 0.2 dB in the field calibration was found to have occurred on the sound level meters.

The weather conditions were monitored via the deployment of a tipping rain gauge and anemometer and were found to be conducive with environmental noise measurement; comprising no precipitation and low wind speeds, below 5ms^{-1}. The microphone was fitted with a protective windshield for the measurement, which is described in Table 3, with a plan indicating its location shown in Figure 3.

[6] British Standard 7445: 2003: Description and measurement of environmental noise. BSI
[7] British Standard 61672: 2003: Electroacoustics. Sound level meters. Part 1 Specifications. BSI.

TABLE 3: MEASUREMENT POSITION DESCRIPTION

Measurement Position	Description
MP1	A largely unattended daytime and night-time measurement of sound under free-field conditions, at a height of 1.5 metres above local ground level, located towards the east of the site approximately 15 m to the west of Chimney Road and 125 m to the east of A41. The sound environment was dominated by road traffic noise mainly from the A41.
MP2	A largely unattended daytime and night-time measurement of sound under free-field conditions, at a height of 1.5 metres above local ground level, located towards the northwest of the site approximately 65 m to the west of Chimney Road and 100 m to the east of A41. The sound environment was dominated by road traffic noise mainly from the A41.
MP3	An attended daytime measurement of sound under free-field conditions, at a height of 1.5 metres above local ground level, located at receptors. The sound environment was dominated by road traffic noise mainly from the A41.

FIGURE 3: MEASUREMENT POSITIONS

4.3. Results Summary

The summarised results of the unattended environmental noise measurements MP1 and MP2 are presented in Table 4, with time histories and statistical analyses presented under Appendix B.

TABLE 4: SUMMARY OF NOISE MEASUREMENT RESULTS

Measurement Position	Period	Noise Level, dB		
		$L_{Aeq,T}$	L_{A90}	L_{Amax}
MP1	Daytime 07:00-19:00	54	48	72
	Night-time 23:00-07:00	49	36	70
	Early Morning (06:00 – 07:00)	53	46	73
MP2	Daytime 07:00-19:00	55	48	75
	Night-time 23:00-07:00	51	39	70
	Early Morning (06:00 – 07:00)	53	45	74

Due to the absence of a secure location at the nearest noise-sensitive receptors, a three-hour attended survey was undertaken at a nearby accessible location to enable a comparison with the unattended measurement positions MP1 and MP2.

The purpose of this exercise was to determine which long-term monitoring position provides a background sound level most representative of conditions at the receptors. The results of the attended survey (MP3) are summarised in Table 5, alongside a comparison of L_{A90} background sound levels recorded at MP1 and MP2.

TABLE 5: ATTENDED SURVEY RESULTS FOR COMPARISON

Measurement Start Time	Measured L_{A90}		
	MP1	MP2	MP3
12:30	49.6	49.5	48.8
12:45	50.3	50.9	49.8
13:00	49.8	51.2	48.9
13:15	49.9	50.8	49.1
13:30	49.9	51.3	49.6
13:45	50.3	52.8	50.1
14:00	50.6	52.1	50.4
14:15	50.9	51.2	51.2
14:30	50.1	50.9	49.9
14:45	50.7	51.3	49.2
15:00	51.0	52.4	49.8
15:15	50.9	52.4	51.6

Based on the results presented above, the L_{A90} levels measured at MP1 are considered broadly comparable to those obtained during the attended survey near the noise-sensitive receptors. As such, the background sound levels recorded at MP1 have been adopted for use in the assessment presented in this report.

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5. Operational Noise Assessment

5.1. Noise Modelling

5.1.1. General

The site previously operated as a Waste Transfer Station, and as such, much of the infrastructure required to support the proposed Secure Waste and Recycling Facility is already in place. However, the introduction of new plant and processing equipment necessitates a reassessment of potential noise impacts associated with the redeveloped site.

This assessment adopts a worst-case operational scenario, assuming that all proposed noise-generating activities, both internal and external, could occur simultaneously during operating hours.

Three operational scenarios have been modelled to reflect the proposed site activity and varying levels of environmental sensitivity throughout the day and night time periods.

During the daytime period (07:00–23:00), all waste processing operations are assumed to be active, alongside the full range of associated vehicle movements, including deliveries and collections.

The night-time period (23:00–06:00) represents the quietest hours of the day. In this scenario, all internal waste processing operations are assumed to continue as normal; however, no HGV or staff vehicle movements are assumed to occur.

Finally, the early morning period (06:00–07:00) has been treated as a transitional hour in which both internal operations and vehicle movements may occur. This hour falls within the night-time reference period defined by BS 4142:2014+A1:2019, and has therefore been considered separately to reflect the heightened sensitivity of nearby receptors during this time.

5.1.2. Operational Assumptions

This assessment is based on information provided by the applicant regarding the proposed operations within the redeveloped facility. All key noise-generating processes and supporting activities have been incorporated into the noise model using representative equipment types and reasonable worst-case assumptions regarding usage and simultaneity.

Processing will involve a hammermill located within the main building, used for the milling and separation of items. Manual sort and destruction activities will include conveyor-fed shredding and compaction of selected waste. Textile processing is expected to involve a similar setup, comprising a conveyor, shredder, and baler for non-hazardous fabric materials. Metal can processing has been modelled with a baler, following the degassing of pressurised containers.

Glass processing will take place in the new enclosed building and is expected to include tipping of glass waste onto a conveyor, mechanical shredding, and subsequent discharge into a skip. Due to the nature of this process, short-duration impact noise has been accounted for in the modelling where appropriate.

In addition to fixed plant, the assessment includes associated mobile equipment. A shovel loader will be used for the movement of materials between buildings and bays, and electric forklifts will operate throughout the site for pallet handling. Both types of plant are assumed to operate during daytime and early morning periods.

The following daily vehicle movements have been provided by the applicant and form the basis of the traffic inputs used in the noise model:

- Articulated HGVs: 15 inbound and 15 outbound movements for waste delivery, plus 4 outbound (and 4 return) movements for processed material collection — total of 38 movements.
- Vans: 6 inbound and 6 outbound — total of 12 movements.
- RoRo wagons: 4 inbound and 4 outbound — total of 8 movements.
- Multi-bucket skip wagon: 1 inbound and 1 outbound — total of 2 movements.
- Staff and visitor cars: 27 inbound and 27 outbound — total of 54 movements.

This results in a combined total of 114 vehicle movements per day, distributed across the 06:00–22:00 delivery window unless otherwise stated. RoRo wagons will not load during the night-time period.

5.1.3. Source Data

The sound source data used in this assessment for the various waste processing activities is presented in Table 6. This data has been primarily derived from our accumulated in-house library, which includes measured sound levels from a range of comparable, operational waste and recycling facilities assessed by the consultancy.

TABLE 6: SOUND SOURCE DATA

Source	Sound Power Level, L_{WA} (dB)	Assumed % Operating Time	Periods of Operation
Hammermill	107	Continuous	Day/Early Morning/Night
Conveyer	98	Continuous	Day/Early Morning/Night
Shredder	104	Continuous	Day/Early Morning/Night
Baler	97	Continuous	Day/Early Morning/Night
Glass Drop	105	Intermittent but Frequent	Day
Shovel Loader	102	5 per hour	Day/Early Morning/Night
Forklift	98	20 per hour	Day/Early Morning/Night
HGVs Incoming	98	6 per hour	Day/Early Morning
HGVs Outgoing	98	6 per hour	Day/Early Morning
RoRo Skip Loading/Unloading	106	1 per hour	Day

5.1.4. Internal Reverberant Noise Level

As the hammermill, conveyors, shredders, and balers, manual sort/destruction, textile processing, and metal can processing lines will be housed within the existing main processing building, an internal reverberant sound pressure level has been calculated to reflect the cumulative noise environment within the structure. This internally generated level has been incorporated into the noise model to account for potential sound breakout through the building envelope. The calculated internal level is presented in Table 7 below.

TABLE 7: CALCULATED INTERNAL REVERBERANT NOISE LEVEL

Item	Octave Band Noise Level, dB								
	dBA	63	125	250	500	1k	2k	4k	8k
Internal Reverberant Noise Level dB	80	80	77	76	77	76	69	65	60

5.1.5. Building Envelope

The sound insulation performance of the building envelope has been accounted for in the model using the sound reduction data presented in Table 8.

TABLE 8: SOUND REDUCTION INDEX OF BUILDING COMPONENTS

Component	Type / Material	SRI – dB(A)
Wall Cladding	Kingspan Panel or similar	23
Roof Cladding	Corrugated with Translucent panels	18
Main Roller Shutter Doors	Roller shutters have assumed to be open	0

5.1.6. Calculation Process

Calculations were carried out using iNoise 2024.3, which undertakes its calculations in accordance with guidance given in ISO9613-1:1993 and ISO9613-2:2024.

5.1.7. Sound Data Assumptions

Given that the land between the development and the nearest receptors is mixed, the ground factor has been set according to ground type. The ground area associated with the conurbation and area surrounding the site has been set with a ground factor of 0.2. Where there is significant green space, the ground factor has been set to 0.8.

The ambient temperature has been assumed to be 10°C, with a relative humidity of 70% and an Air Pressure of 101.33 kPa.

It has been assumed that all processes will occur simultaneously, representing a worst-case scenario. In order to accurately model the land surrounding the development, an AutoCAD DXF drawing was produced, which was based on data provided by the Ordnance Survey. The land contours throughout the area were modelled using Environment Agency LiDAR data with a resolution of 1 m.

HGVs have been modelled using moving point sources with a velocity of 16 kph, the forklifts have been modelled using moving point sources with a velocity of 10 kph, and the external plant has been modelled using point sources.

5.1.8. Specific Sound Level Map

A sound map of the predicted specific sound level arising from cumulative typical waste processes and operations at the closest receptors to the Site during the Daytime, Night-time and Early Morning can be seen in Figure 4, Figure 5 and Figure 6.

FIGURE 4: SPECIFIC SOUND LEVEL MAP OF CUMULATIVE OPERATIONS – DAYTIME

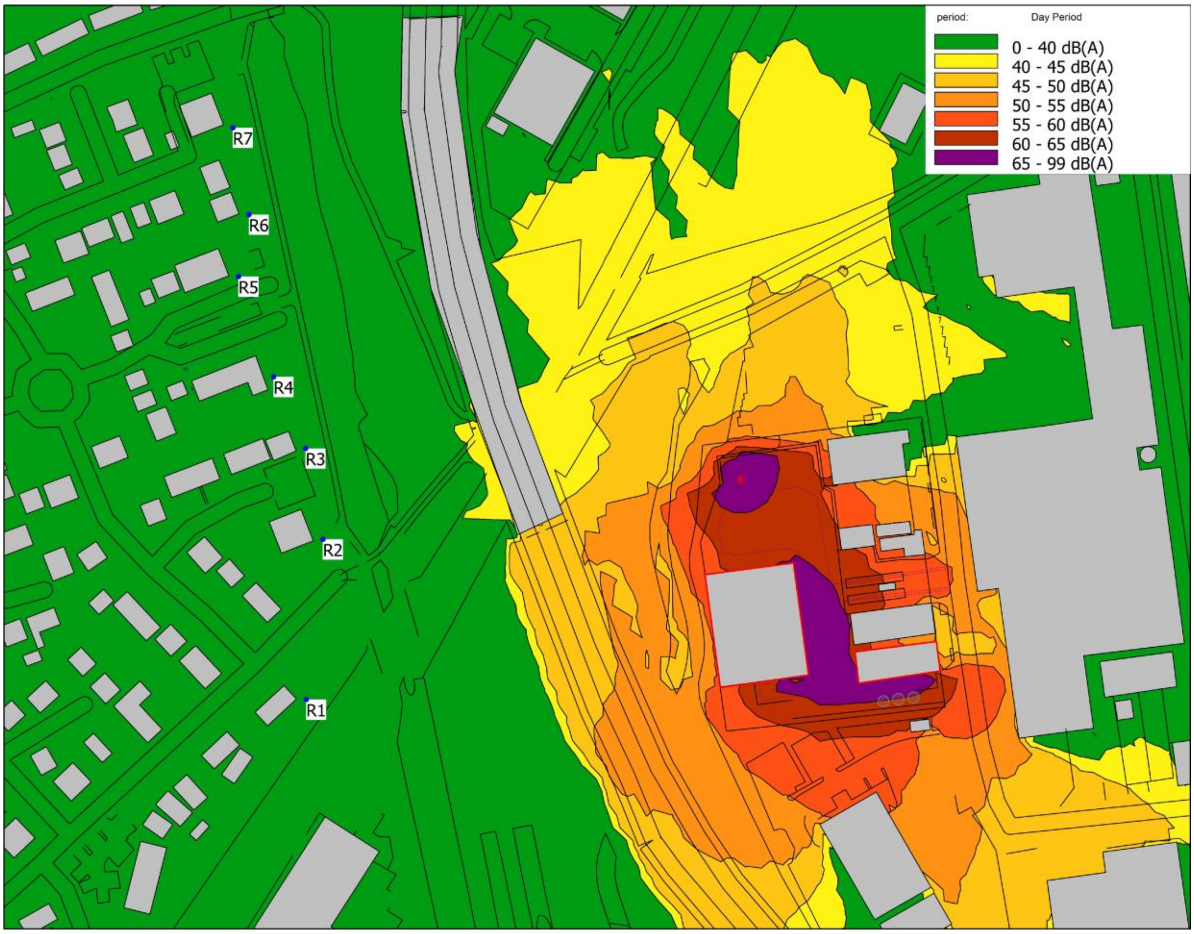


FIGURE 5: SPECIFIC SOUND LEVEL MAP OF CUMULATIVE OPERATIONS – NIGHT-TIME

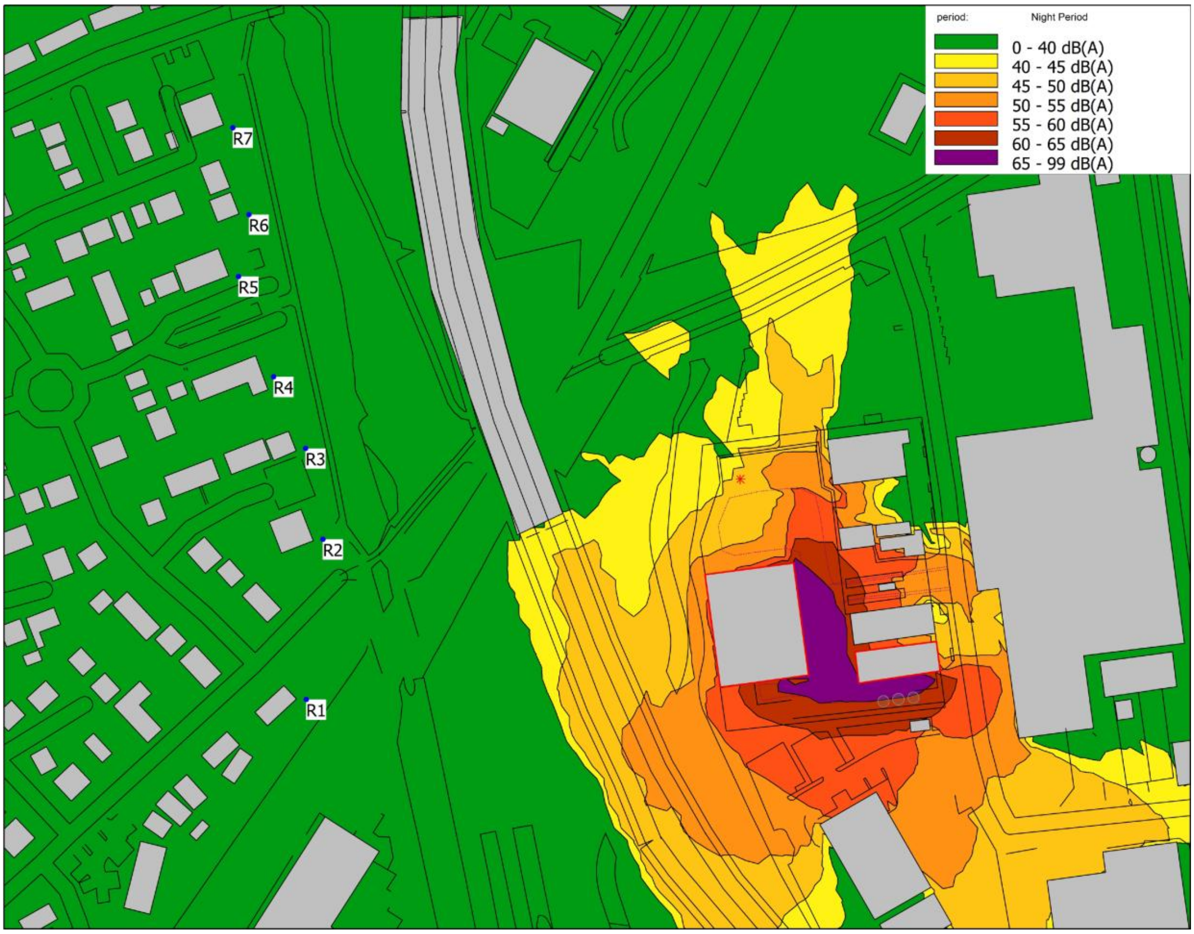
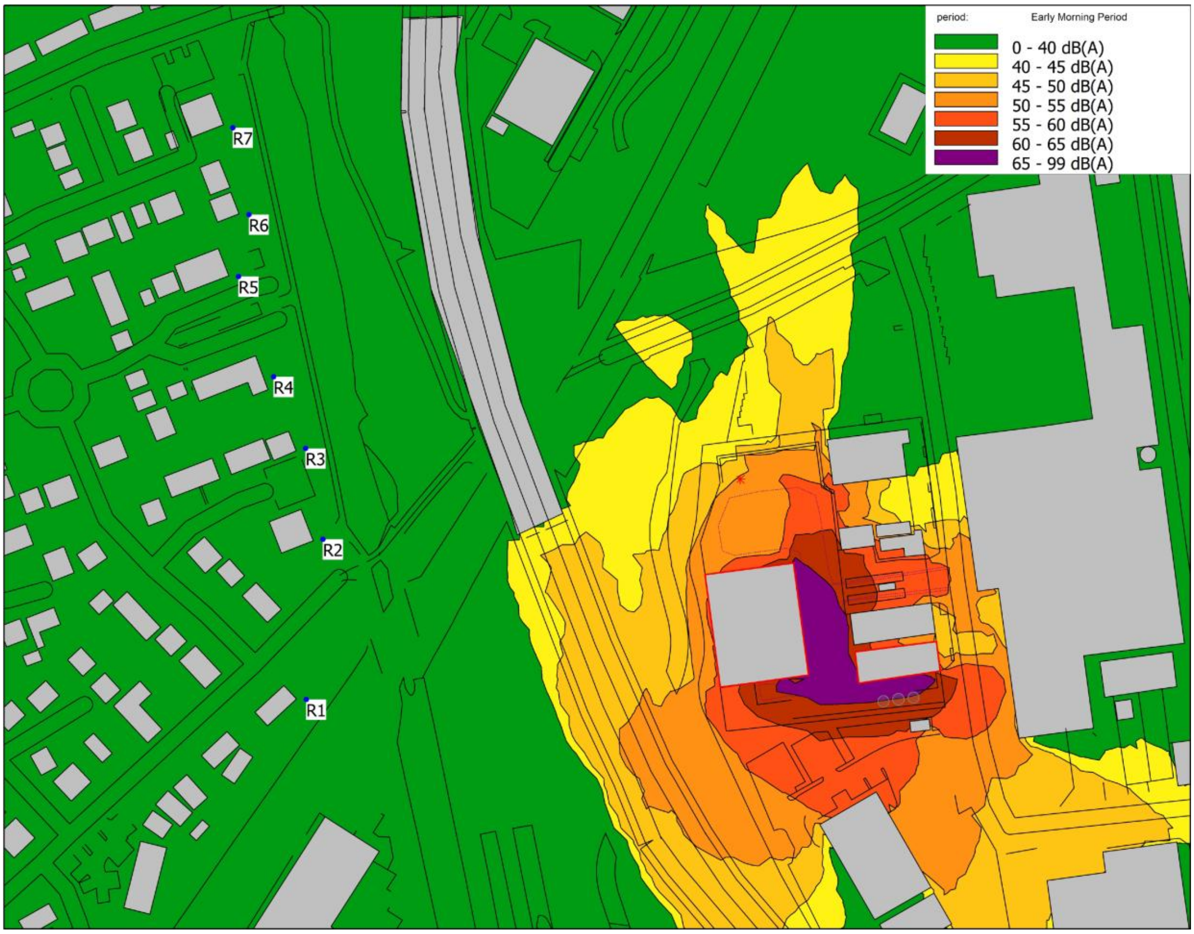


FIGURE 6: SPECIFIC SOUND LEVEL MAP OF CUMULATIVE OPERATIONS – EARLY MORNING



5.1.9. Specific Sound Level Summary

The predicted specific sound level arising from worst-case operations at the closest receptors to the Site, as shown in Figure 4 can be seen below in Table 9.

TABLE 9: PREDICTED SPECIFIC SOUND LEVEL SUMMARY

Receptors	Specific Sound Level $L_{Aeq,T}$ - dB		
	Day	Early Morning	Night
R1	33	33	33
R2	38	31	30
R3	36	32	30
R4	36	33	31
R5	35	33	32
R6	35	33	31
R7	35	33	31

5.2. Assessment

5.2.1. Rating Penalty Principle

Section 9 of BS4142:2014+A1:2019 describes how the rating sound level should be derived from the specific sound level, by determining a rating penalty.

BS4142:2014+A1:2019 states:

"Certain acoustic features can increase the significance of impact over that expected from a basic comparison between the specific sound level and the background sound level. Where such features are present at the assessment location, add a character correction to the specific sound level to obtain the rating level. This can be approached in three ways:

a) subjective method;
b) objective method for tonality;
c) reference method."

Given that the Proposed Development is not operational, the subjective method has been adopted to derive the rating sound level from the specific sound level. This is discussed in Section 9.2 of BS4142:2014+A1:2019, which states:

"Where appropriate, establish a rating penalty for sound based on a subjective assessment of its characteristics. This would also be appropriate where a new source cannot be measured because it is only proposed at that time, but the characteristics of similar sources can subjectively be assessed.

Correct the specific sound level if a tone, impulse or other characteristics occurs, or is expected to be present, for new or modified sound sources."

BS4142:2014+A1:2019 defines four characteristics that should be considered when deriving a rating penalty, namely; tonality; impulsivity; intermittency; and other sound characteristics, which are defined as:

Tonality

A rating penalty of +2 dB is applicable for a tone which is *"just perceptible"*, +4 dB where a tone is *"clearly perceptible"*, and +6 dB where a tone is *"highly perceptible"*.

Impulsivity

A rating penalty of +3 dB is applicable for impulsivity which is *"just perceptible"*, +6 dB where it is *"clearly perceptible"*, and +9 dB where it is *"highly perceptible"*.

Other Sound Characteristics

BS4142:2014+A1:2019 states that where *"the specific sound features characteristics that are neither tonal nor impulsive, though otherwise are readily distance against the residual acoustic environment, a penalty of +3 dB can be applied."*

Intermittency

BS4142:2014+A1:2019 states that when the *"specific sound has identifiable on/off conditions, the specific sound level ought to be representative of the time period of length equal to the reference time interval which contains the greatest total amount of on time … if the intermittency is readily distinctive against the residual acoustic environment, a penalty of +3 dB can be applied."*

5.2.2. Rating Penalty Assessment

Considering the content of Section 5.2.1, an assessment of the various sound sources associated with the Proposed Development, in terms of whether any rating penalties are applicable, and has been detailed in Table 10.

TABLE 10: RATING PENALTY ASSESSMENT

Sound Characteristic	Penalty	Discussion
Tonality	0 dB	All mobile plant operating on site, including forklift trucks and shovel loaders, will be fitted with broadband reversing alarms, and no other sources are expected to emit tonal components of sufficient prominence to be clearly perceptible at receptor locations. Given the distance to the nearest noise-sensitive receptors, the containment provided by buildings, and the influence of residual sound from road traffic on the A41, it is considered unlikely that any site-related sounds will exhibit tonal characteristics at the assessment locations. Accordingly, no correction has been applied for tonality.
Impulsivity	0 dB	While some short-duration events may occur within the site, such as tipping or mechanical handling, these are not expected to result in clearly impulsive characteristics at receptor locations. No correction has been applied for impulsivity.
Intermittency	0 dB	Site activities are expected to occur with sufficient regularity to avoid the perception of distinct intermittency. No correction has been applied for this feature.
Other Sound Characteristics	+3 dB	Although the site operations are not expected to be tonal or impulsive at receptor locations, certain activities, such as mechanical processing, tipping, or material handling, may still be acoustically distinctive during occasional periods. These sounds may be perceptible and recognisable as industrial in character, even if not strongly tonal or intermittent. As such, a +3 dB correction has been applied under 'Other Sound Characteristics' in accordance with BS 4142:2014+A1:2019.

In summary, a +3 dB rating penalty has been applied to the typical operation of the Proposed Development.

5.3. Uncertainty

BS4142:2014+A1:2019 requires that the level of uncertainty in the measured data and associated calculations is considered in the assessment. The Standard recommends that steps should be taken to reduce the level of uncertainty.

5.3.1. Measurement Uncertainty

BS4142:2014+A1:2019 states that measurement uncertainty depends on a number of factors, including the following, which are applicable to the Proposed Development:

"   …

b) the complexity and level of variability of the residual acoustic environment;
…
d) the location(s) selected for taking the measurements;
…
g) the measurement time intervals;
h) the range of times when the measurements have been taken;
i) the range of suitable weather conditions during which measurements have been taken;
…
k) the level of rounding of each measurement recorded; and
l) the instrumentation used."

Each of the measurement uncertainty factors outlined above have been considered and discussed in Table 11.

TABLE 11: MEASUREMENT UNCERTAINTY FACTORS

Measurement Uncertainty Factor Reference	Level of Uncertainty	Discussion
b)	0 dB	Residual acoustic environment is relatively constant, hence no correction for a complex residual acoustic environment.
d)	0 dB	Measuring adjacent to the closest affected receptor to the site, has enabled the determination of the worst-case background level.
g)	0 dB	Measurement time intervals were set in accordance with BS4142:2014+A1:2019, hence no further correction needs to be made.
h)	0 dB	Measurements were undertaken over a continuous and substantial time period.
i)	0 dB	No periods of significant wind or precipitation were noted during the utilised part of the measurement.
k)	0 dB	Measured values were rounded to 1.0 dB, therefore rounding would not have had a significant impact on the overall typical background sound levels.
l)	0 dB	The acoustic measurement equipment accorded with Type 1 specification of British Standard 61672, and were deployed with appropriate wind shields.

In summary, no uncertainty budget has been considered in the assessment, to account for measurement uncertainty.

5.3.2. Calculation Uncertainty

BS4142:2014+A1:2019 states that calculation uncertainty depends on a number of factors, including the following, which are applicable to the Proposed Development:

" ...

- b) *uncertainty in the operation or sound emission characteristics of the specific sound source and any assumed sound power levels;*
- c) *uncertainty in the calculation method;*
- d) *simplifying the real situation to "fit" the model (user influence on modelling); and*
- e) *error in the calculation process."*

Each of the calculation uncertainty factors outlined above have been considered and discussed in Table 12.

TABLE 12: CALCULATION UNCERTAINTY FACTORS

Calculation Uncertainty Factor Reference	Level of Uncertainty	Discussion
b)	0 dB	Sound source levels are based on robust archive data and worst-case assumptions of likely operations.
c)	0 dB	Calculations were undertaken in accordance with ISO 9613, which is considered a *"validated method"* by BS4142:2014+A1:2109.
d)	0 dB	The real situation has not been simplified for the purposes of this assessment; however, a worst-case operational scenario has been assumed for the purposes of the assessment.
e)	0 dB	ISO 9613-2 indicates that there is a ±3 dB accuracy to the prediction method, however, no corrections are considered necessary, given the unlikely nature of the worst-case scenario considered.

In summary, no uncertainty budget has been considered in the assessment, to account for calculation uncertainty.

The overall uncertainty is considered to be small enough that it would not affect the conclusions of the assessment.

5.3.3. BS4142:2014+A1:2019 Assessment

The rating level, as calculated from the predicted specific sound level, has been assessed in accordance with BS 4142:2014+A1:2019, at the closest NSRs, and can be seen in Table 13, Table 14 and Table 15 for the Daytime, Night-time and and Early Morning respectively.

TABLE 13: BS 4142:2014+A1:2019 ASSESSMENT – DAYTIME (07:00-23:00)

Receptor	Specific Sound Level, $L_{Aeq,T}$ (dB)	Rating Penalty (dB)	Rating Level, L_{ArTr} (dB)	Daytime Background Sound Level, $L_{A90,T}$ (dB)	Excess of Rating over Background Sound Level (dB)
R1	33	3	36	48	-12
R2	38	3	41	48	-7
R3	36	3	39	48	-9
R4	36	3	39	48	-9
R5	35	3	38	48	-10
R6	35	3	38	48	-10
R7	35	3	38	48	-10

TABLE 14: BS 4142:2014+A1:2019 ASSESSMENT – NIGHT-TIME (23:00-07:00)

Receptor	Specific Sound Level, $L_{Aeq,T}$ (dB)	Rating Penalty (dB)	Rating Level, L_{ArTr} (dB)	Night-time Background Sound Level, $L_{A90,T}$ (dB)	Excess of Rating over Background Sound Level (dB)
R1	33	3	36	36	0
R2	30	3	33	36	-3
R3	30	3	33	36	-3
R4	31	3	34	36	-2
R5	32	3	35	36	-1
R6	31	3	34	36	-2
R7	31	3	34	36	-2

TABLE 15: BS 4142:2014+A1:2019 ASSESSMENT –EARLY MORNING 06:00-07:00)

Receptor	Specific Sound Level, $L_{Aeq,T}$ (dB)	Rating Penalty (dB)	Rating Level, L_{ArTr} (dB)	Night-time Background Sound Level, $L_{A90,T}$ (dB)	Excess of Rating over Background Sound Level (dB)
R1	33	3	36	46	-10
R2	31	3	34	46	-12
R3	32	3	35	46	-11
R4	33	3	36	46	-10
R5	33	3	36	46	-10
R6	33	3	36	46	-10
R7	33	3	36	46	-10

The assessment demonstrates that, across all operational periods, the rating levels at the nearest noise-sensitive receptors are equal to or below the typical background sound levels, with the majority falling well below.

During the daytime period (07:00–23:00), rating levels range from 36 to 41 dB, remaining 7 to 12 dB below background, indicating a low impact in BS4142-terms.

In the night-time period (23:00–06:00), rating levels range from 33 to 36 dB, with all receptors experiencing levels that are equal to or below background.

During the early morning period (06:00–07:00), which falls within the night-time reference period, all rating levels are at least 10 dB below background, demonstrating a substantial margin of compliance during this more sensitive time.

Overall, the assessment concludes that the proposed operations are not expected to give rise to adverse noise impacts at nearby residential receptors, in accordance with the guidance set out in BS 4142:2014+A1:2019.

5.4. Best Available Techniques

While the assessment demonstrates that the site can operate without the need for additional acoustic mitigation, a number of good practice measures are recommended to ensure that noise emissions remain controlled and do not increase over time. The following measures should continue to be implemented as part of day-to-day site management:

- Material drop heights should be kept to a minimum, particularly during tipping and loading activities.
- Where material handling occurs near the north-western boundary, operations above the height of bay walls should be minimised where practicable.
- All fixed and mobile plant should be subject to regular maintenance to prevent mechanical faults (e.g. squeaks, rattles, or loose components) that could introduce a perceptible off-site character.

These measures represent basic Best Available Techniques (BAT) and support ongoing compliance with both planning and environmental noise control objectives.

6. Conclusion

inacoustic has been commissioned to assess the potential noise impact associated with the proposed redevelopment of the previously operational Waste Transfer Station located at Chimney Road, Tipton, into a Secure Waste and Recycling Facility.

This technical noise assessment has been prepared in support of a Planning Application to Sandwell Metropolitan Borough Council. It is based on baseline environmental noise measurements undertaken near the site and a detailed 3D noise modelling exercise that reflects the proposed building layout, processing operations, and associated vehicle movements.

The assessment methodology contained in British Standard 4142: 2014+A1:2019 '*Method for rating and assessing industrial and commercial sound*' has been used in conjunction with supplementary acoustic guidance.

The assessment identifies that the Proposed Development will give rise to rating levels that do not exceed the measured background sound level in the area during the day, early morning and night time periods, thus giving rise to a 'Low Impact'.

Consequently, the assessment demonstrates that the Proposed Development will give rise to sound impacts that would be within the range of NOAEL of the NPPG England guidance.

For ease of reference, the definition of *No Observed Adverse Effect Level* in PPGNoise is reproduced below:

"Noise can be heard, but does not cause any change in behaviour, attitude or other physiological response. Can slightly affect the acoustic character of the area but not such that there is a change in the quality of life."

Since the Proposed Development conforms to British Standard and National Planning Policy requirements, it is recommended that noise should not be a considered constraint to the approval of this Planning Application, providing that the plant is constructed and operated in accordance with the acoustic assumptions and recommendations set out within this report.

7. APPENDICES

7.1. Appendix A – Definition of Terms

Sound Pressure	Sound, or sound pressure, is a fluctuation in air pressure over the static ambient pressure.
Sound Pressure Level (Sound Level)	The sound level is the sound pressure relative to a standard reference pressure of 20µPa ($20x10^{-6}$ Pascals) on a decibel scale.
Decibel (dB)	A scale for comparing the ratios of two quantities, including sound pressure and sound power. The difference in level between two sounds s1 and s2 is given by 20 log10 (s1 / s2). The decibel can also be used to measure absolute quantities by specifying a reference value that fixes one point on the scale. For sound pressure, the reference value is 20µPa.
A-weighting, dB(A)	The unit of sound level, weighted according to the A-scale, which takes into account the increased sensitivity of the human ear at some frequencies.
Noise Level Indices	Noise levels usually fluctuate over time, so it is often necessary to consider an average or statistical noise level. This can be done in several ways, so a number of different noise indices have been defined, according to how the averaging or statistics are carried out.
$L_{eq,T}$	A noise level index called the equivalent continuous noise level over the time period T. This is the level of a notional steady sound that would contain the same amount of sound energy as the actual, possibly fluctuating, sound that was recorded.
$L_{max,T}$	A noise level index defined as the maximum noise level during the period T. L_{max} is sometimes used for the assessment of occasional loud noises, which may have little effect on the overall L_{eq} noise level but will still affect the noise environment. Unless described otherwise, it is measured using the 'fast' sound level meter response.
$L_{90,T}$	A noise level index. The noise level exceeded for 90% of the time over the period T. L_{90} can be considered to be the "average minimum" noise level and is often used to describe the background noise.
$L_{10,T}$	A noise level index. The noise level exceeded for 10% of the time over the period T. L_{10} can be considered to be the "average maximum" noise level. Generally used to describe road traffic noise.
Free-Field	Far from the presence of sound reflecting objects (except the ground), usually taken to mean at least 3.5m
Facade	At a distance of 1m in front of a large sound reflecting object such as a building façade.
Fast Time Weighting	An averaging time used in sound level meters. Defined in BS 5969.

In order to assist the understanding of acoustic terminology and the relative change in noise, the following background information is provided.

The human ear can detect a very wide range of pressure fluctuations, which are perceived as sound. In order to express these fluctuations in a manageable way, a logarithmic scale called the decibel, or dB scale is used. The decibel scale typically ranges from 0 dB (the threshold of hearing) to over 120 dB. An indication of the range of sound levels commonly found in the environment is given in the following table.

TABLE 16: TYPICAL SOUND LEVELS FOUND IN THE ENVIRONMENT

Sound Level	Location
0dB(A)	Threshold of hearing
20 to 30dB(A)	Quiet bedroom at night
30 to 40dB(A)	Living room during the day
40 to 50dB(A)	Typical office
50 to 60dB(A)	Inside a car
60 to 70dB(A)	Typical high street
70 to 90dB(A)	Inside factory
100 to 110dB(A)	Burglar alarm at 1m away
110 to 130dB(A)	Jet aircraft on take off
140dB(A)	Threshold of Pain

The ear is less sensitive to some frequencies than to others. The A-weighting scale is used to approximate the frequency response of the ear. Levels weighted using this scale are commonly identified by the notation dB(A).

In accordance with logarithmic addition, combining two sources with equal noise levels would result in an increase of 3 dB(A) in the noise level from a single source.

A change of 3 dB(A) is generally regarded as the smallest change in broadband continuous noise which the human ear can detect (although in certain controlled circumstances a change of 1 dB(A) is just perceptible). Therefore, a 2 dB(A) increase would not be normally be perceptible. A 10 dB(A) increase in noise represents a subjective doubling of loudness.

A noise impact on a community is deemed to occur when a new noise is introduced that is out of character with the area, or when a significant increase above the pre-existing ambient noise level occurs.

For levels of noise that vary with time, it is necessary to employ a statistical index that allows for this variation. These statistical indices are expressed as the sound level that is exceeded for a percentage of the time period of interest. In the UK, traffic noise is measured as the L_{A10}, the noise level exceeded for 10% of the measurement period. The L_{A90} is the level exceeded for 90% of the time and has been adopted to represent the background noise level in the absence of discrete events. An alternative way of assessing the time varying noise levels is to use the equivalent continuous sound level, L_{Aeq}.

This is a notional steady level that would, over a given period of time, deliver the same sound energy as the actual fluctuating sound.

To put these quantities into context, where a receiver is predominantly affected by continuous flows of road traffic, a doubling or halving of the flows would result in a just perceptible change of 3 dB, while an increase of more than 25%, or a decrease of more than 20%, in traffic flows represent changes of 1 dB in traffic noise levels (assuming no alteration in the mix of traffic or flow speeds).

Note that the time constant and the period of the noise measurement should be specified. For example, BS 4142 specifies background noise measurement periods of 1 hour during the day and 15 minutes during the night. The noise levels are commonly symbolised as $L_{A90,1hour}$ dB and $L_{A90,15mins}$ dB. The noise measurement should be recorded using a 'FAST' time response equivalent to 0.125 ms.

7.2. Appendix B – Sound Measurement Results

FIGURE 7: MEASURED TIME HISTORY – MP1

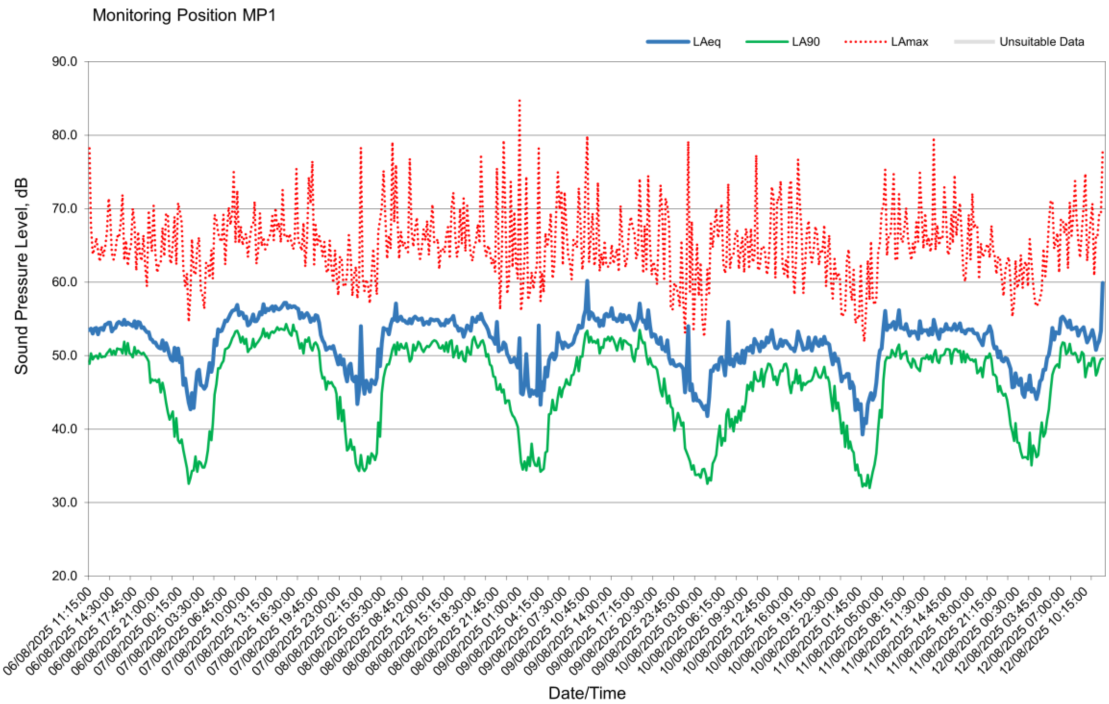
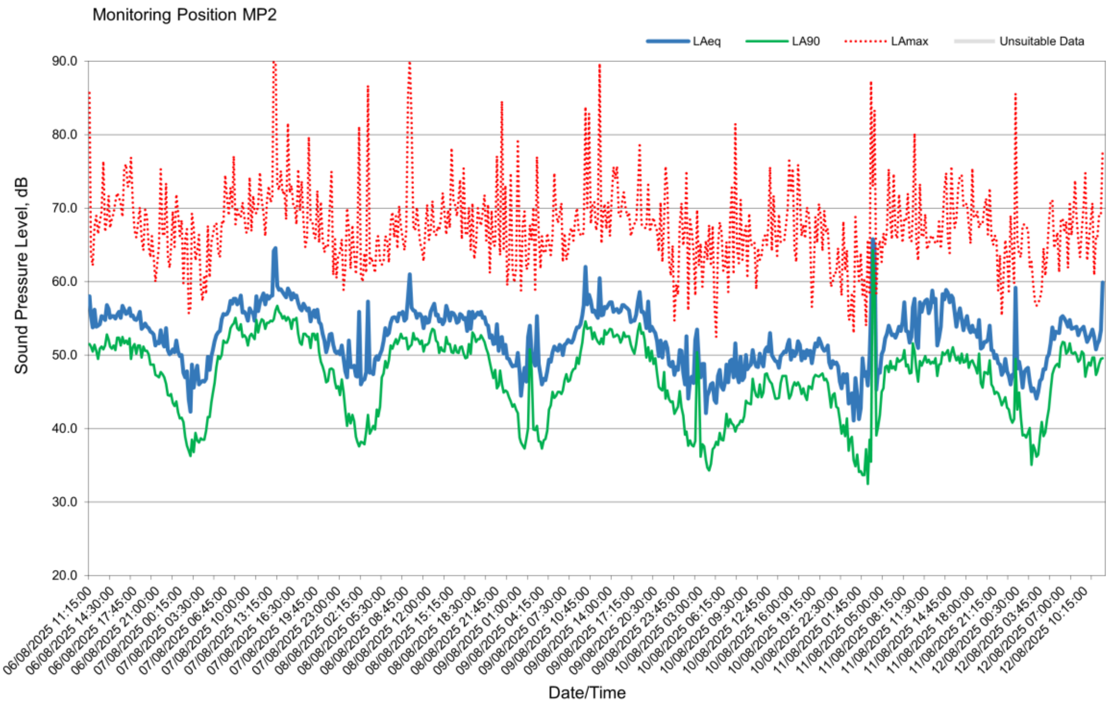


FIGURE 8: MEASURED TIME HISTORY – MP2



7.3. Appendix C - Statistical Analysis

Figure 9: Daytime Background Sound Level Analysis – MP1

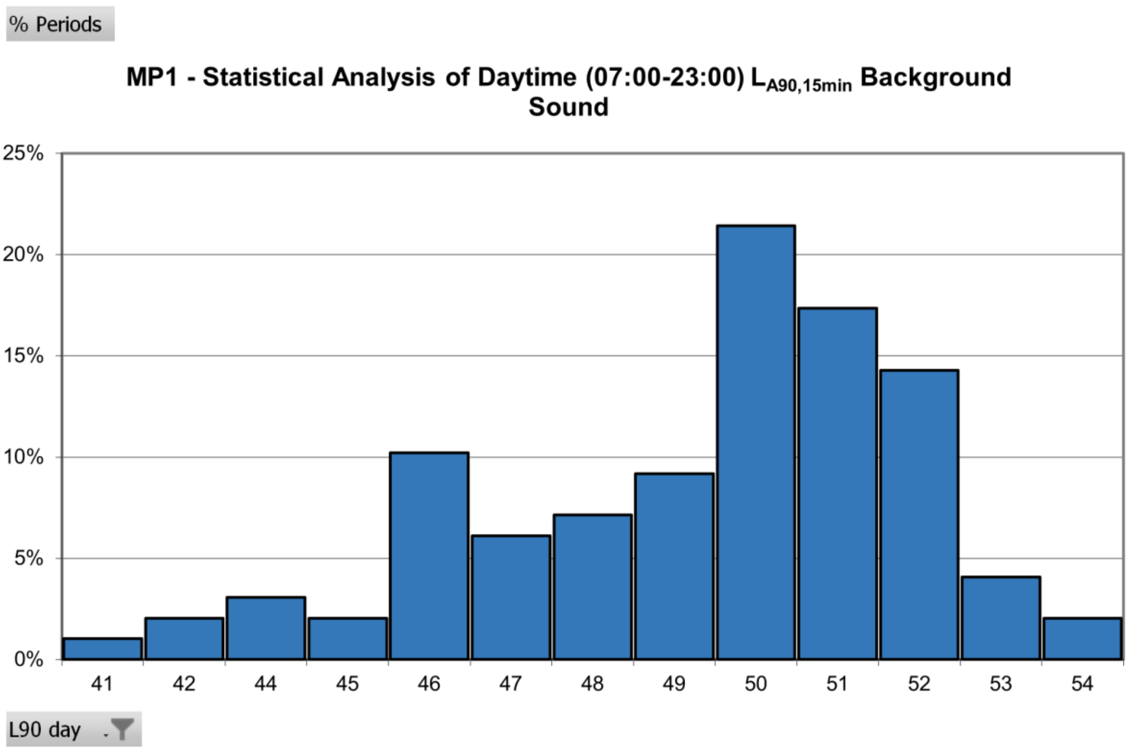


Figure 10: Evening Background Sound Level Analysis – MP1

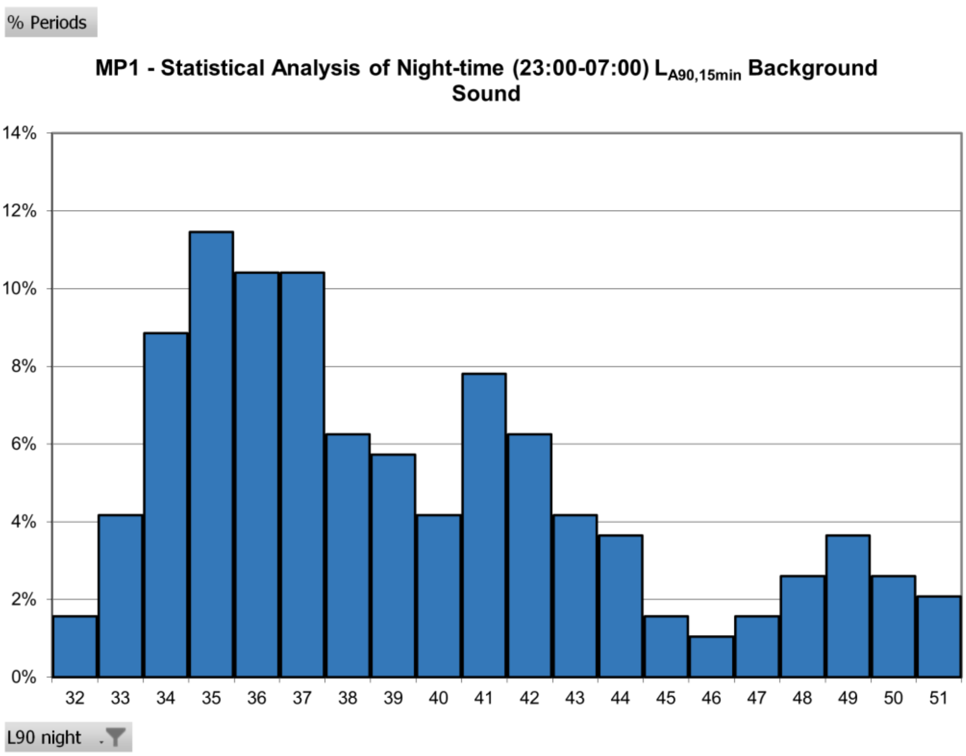


FIGURE 11: DAYTIME BACKGROUND SOUND LEVEL ANALYSIS – MP2

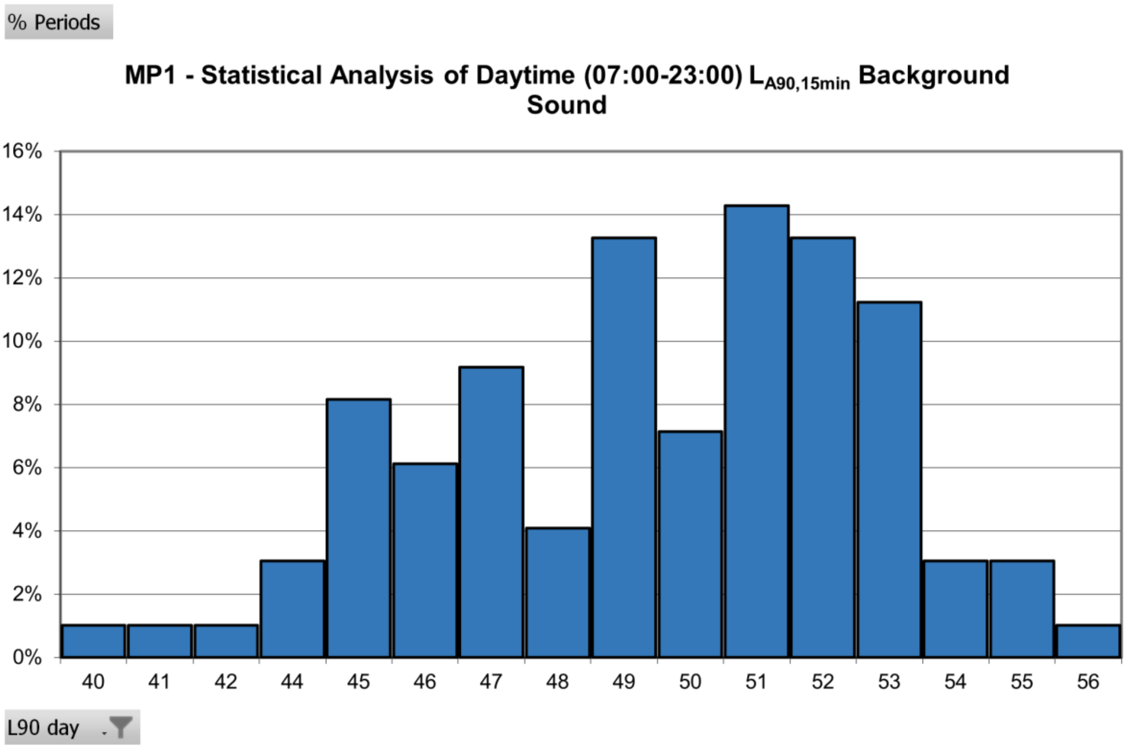
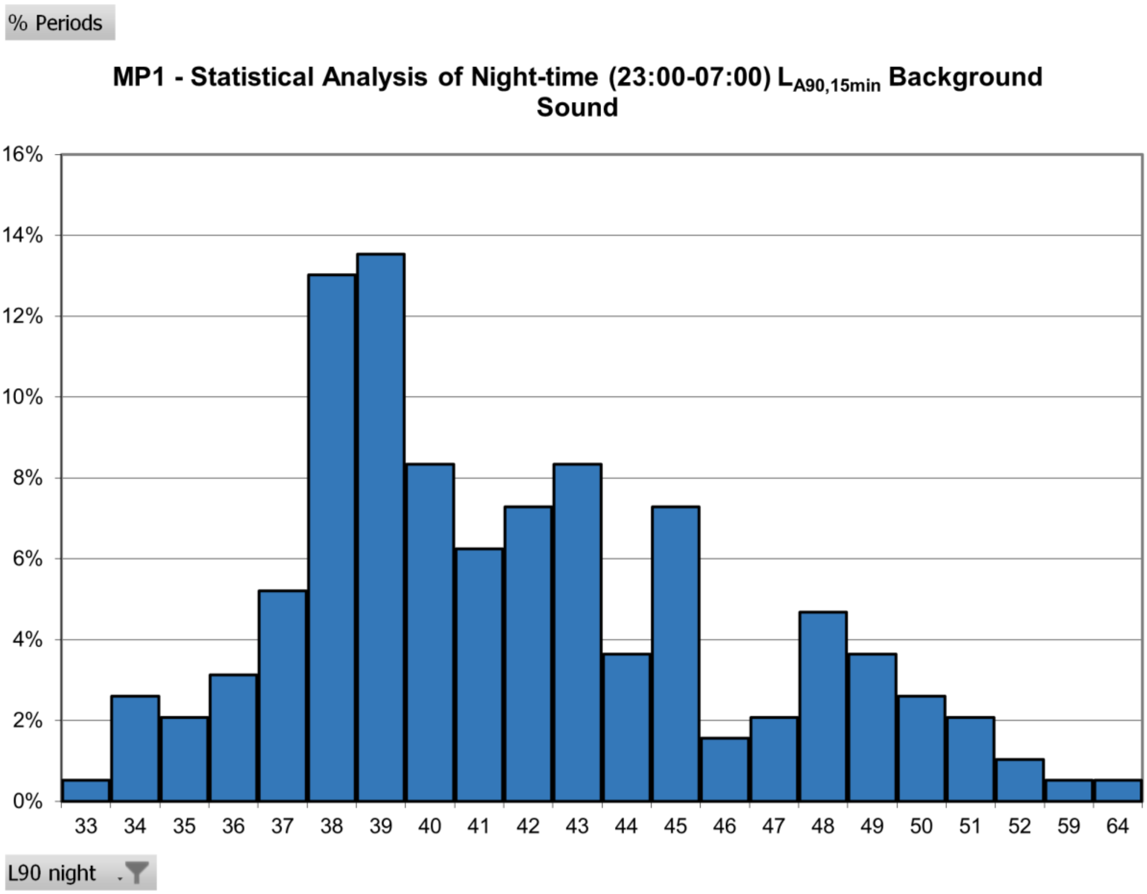


FIGURE 12: EVENING BACKGROUND SOUND LEVEL ANALYSIS – MP2



APPENDIX 6

Staff Responsibilities

BIFFA WASTE SERVICES LIMITED
TIPTON SWARF

STAFF RESPONSIBILITIES SUMMARY

Managerial Level

Regional Operations Manager/Director (Office Based)

- Company Overview and strategic business input.
- Operations input.
- Business development.
- Financial Overview and control.
- Compliance Issues.

Site Manager (Site Based)

- Financial control on a day to day basis.
- Operations control on a day to day basis.
- COTC Holder.
- Compliance with Environmental, Health and Safety and Quality requirements.
- Management of site staff.
- Operational compliance and maintenance scheduling.

Operative Level

Weighbridge Operator

- Reception of loads and dispatch of loads.
- Duty of Care checks and confirmation of appropriate paperwork.

Admin Assistants

- Clerical support to operations including sales and general administration duties.

LGV Driver / Machine Drivers / Site Operatives

- Collection and delivery of materials.
- Unloading and loading of materials.
- Duty of Care checks in terms of load inspection and confirmation of appropriate paperwork.
- Appropriate storage of operational materials and waste materials.
- Undertaking maintenance and cleaning schedules.
- Compliance with environmental, health and safety and product requirements.

APPENDIX 7

Operation & Maintenance Daily Checklist

Operation and Maintenance Daily Check Sheet Biffa Waste Services Limited					
COTC		**Date**		**Time**	
Weather					

Site Wide Inspections	**Condition** Last check	**Condition** This check	**Comments and Corrective Action**
	□	□/□	
Dust Visually inspect the site for evidence of dust accumulation (on surfaces) and generation (from vehicle/waste movements) Is there any visible evidence of dust buildup on vehicle/hard standing surfaces?			
Odour Undertake olfactory monitoring (sniff test) for odour around the site boundary, at surface water discharge point and next to waste storage areas. Record any identified odours, their intensity, their location on-site and their source ***Note: Odour monitoring procedure and Odour intensity scale are included overleaf for reference***			
Litter Inspect the site for evidence of litter (operational areas and surrounding fence line)			

Site Wide Inspections	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Noise During site inspection listen for any elevated/unusual noises Record any identified noises above background levels, their location on site and their source			
Scavengers, Insects and Other Pests Inspect the site for signs of infestation or attracting scavengers			

Odour Monitoring Procedure:

1. The duration spent at each monitoring locations should be a minimum of 1 minute;
2. Continue to breathe normally during inspection;
3. During this time undertaken assessments for the other listed site wide inspection aspects (dust, litter, noise and scavenger, insects and other pests) and record any comments.

Odour Intensity Scale:

0. No detectable odour
1. Very faint odour (only just detectable)
2. Faint odour (barely detectable, need to stand still and inhale facing into the wind)
3. Distinct odour (detected while walking and breathing normally)
4. Strong odour (easily detected while walking and breathing normally, possibly offensive)
5. Very strong odour (bearable, but offensive)
6. Extremely strong odour (not bearable)

Area Inspected	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Internal Access Routes Inspect access routes for wear and cracks. Also inspect for litter and dust.			
Concrete, Tarmac and Hardstanding Surfacing Inspect impermeable surfaces for wear and cracks.			
General Drainage Check for wear and blockages.			
Waste Storage Areas (internal and external) Check storage areas for wear and damage. Check not overfilled.			
Waste Vehicle Parking Inspect impermeable surfaces for wear and cracks.			
Mobile (Materials Handling) Plant Inspect for damage/leaks before and after use.			
Vehicle exhaust treatment additive storage container Check for potential leaks, cracks and holes.			
Staff Vehicle Parking Inspect impermeable surfaces for wear and cracks.			
General Tools/Equipment Inspect for defects before and after use			

Biffa

Area Inspected	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Safety Equipment Check for defects.			
Security – Fence line, CCTV and access gates Check for damages			

APPENDIX 8

List of Directors

Operation and Maintenance Daily Check Sheet Biffa Waste Services Limited					
COTC		**Date**		**Time**	
Weather					

Site Wide Inspections	**Condition**		**Comments and Corrective Action**
	Last check	**This check**	
	□	□/□	
Dust Visually inspect the site for evidence of dust accumulation (on surfaces) and generation (from vehicle/waste movements) Is there any visible evidence of dust buildup on vehicle/hard standing surfaces?			
Odour Undertake olfactory monitoring (sniff test) for odour around the site boundary, at surface water discharge point and next to waste storage areas. Record any identified odours, their intensity, their location on-site and their source ***Note: Odour monitoring procedure and Odour intensity scale are included overleaf for reference***			
Litter Inspect the site for evidence of litter (operational areas and surrounding fence line)			

Site Wide Inspections	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Noise During site inspection listen for any elevated/unusual noises Record any identified noises above background levels, their location on site and their source			
Scavengers, Insects and Other Pests Inspect the site for signs of infestation or attracting scavengers			

Odour Monitoring Procedure:

1. The duration spent at each monitoring locations should be a minimum of 1 minute;
2. Continue to breathe normally during inspection;
3. During this time undertaken assessments for the other listed site wide inspection aspects (dust, litter, noise and scavenger, insects and other pests) and record any comments.

Odour Intensity Scale:

0. No detectable odour
1. Very faint odour (only just detectable)
2. Faint odour (barely detectable, need to stand still and inhale facing into the wind)
3. Distinct odour (detected while walking and breathing normally)
4. Strong odour (easily detected while walking and breathing normally, possibly offensive)
5. Very strong odour (bearable, but offensive)
6. Extremely strong odour (not bearable)

Area Inspected	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Internal Access Routes Inspect access routes for wear and cracks. Also inspect for litter and dust.			
Concrete, Tarmac and Hardstanding Surfacing Inspect impermeable surfaces for wear and cracks.			
General Drainage Check for wear and blockages.			
Waste Storage Areas (internal and external) Check storage areas for wear and damage. Check not overfilled.			
Waste Vehicle Parking Inspect impermeable surfaces for wear and cracks.			
Mobile (Materials Handling) Plant Inspect for damage/leaks before and after use.			
Vehicle exhaust treatment additive storage container Check for potential leaks, cracks and holes.			
Staff Vehicle Parking Inspect impermeable surfaces for wear and cracks.			
General Tools/Equipment Inspect for defects before and after use			

Biffa

Area Inspected	Condition		Comments and Corrective Action
	Last check	This check	
	□	□/□	
Safety Equipment Check for defects.			
Security – Fence line, CCTV and access gates Check for damages			

APPENDIX 9

Biffa Standard Operating Procedures

Pre-Acceptance of Containerised Waste

1. Document Information

	Name & Job Title	Date
Document Author	Kiri Perkinson Environmental Compliance Manager	Feb 2025
Document Approver		

2. Version Control

Version Number	Date	Description of Changes	Next Review Date
0.1	Feb 2025	N/A	

3. Definitions

Abbreviation	Definition
CSF	Customer Service Functions
L2	L2 Chemist (determined by training)
L3	L3 Chemist (determined by training)
PTAF	Pre Technical Assessment Form
SDS	Safety Data Sheet

4. Purpose

To prevent the acceptance of unsuitable wastes, all waste streams destined for Biffa transfer stations are subject to a pre-acceptance process involving the producer, Sales, Operations, Customer Service Functions and Technical personnel.

This procedure ensures that incoming waste is correctly identified, classified, labelled, priced and the onward fate of the waste is determined prior to acceptance at the site. Waste should not be accepted without a clear method of treatment or disposal route being determined.

5. Scope

This procedure is to be followed by all personnel involved in the enquiry process.

6. Responsibilities

It is the responsibility of all relevant teams and their management including, customer services functions the technical team and site chemists to ensure that this procedure is being followed.

7. Procedure

Enquiries are generally received from one of the following sources:

1. Waste Producers
2. Customer Service Functions
3. Third Party Brokers
4. Waste Management Companies

Quotation Stage

The minimum information required to allow a new enquiry to be set up is as follows:

- Details of the waste producer including their organisation name and address
- Contact name and details including email address and phone number
- Nature of the business including SIC code

The information above is entered directly on to the Central System or via the online packaged goods system. The customer details will be entered by either the business Customer Service Functions or the Technical Sales Team. The Central System enquiry screen will generate a unique reference number suffixed by the letter E. The enquiry will subsequently be identified by this number.

The minimum information required to allow a category assessment to provide a quotation is the core 4 questions:

1. What is the waste?

2. What is the size of the container/s?
3. How many do you have?
4. How was the waste generated?

*Where appropriate and safe photos of waste should be provided as standard.

Additional information requirements which have been identified for a specific waste stream are documented in the additional parameters table. These questions can either be confirmed at initial enquiry stage or assumptions documented as part of the quotation caveats.

For low-risk waste enquiries a quotation will be provided by utilising the company matrix which will stipulate any assumptions and caveats made during the pricing process.

For medium and high-risk waste enquiries a quotation will be provided which has been assessed by L2 chemist. The chemist will either utilise the company matrix or locate a suitable onward disposal point and obtain a disposal cost and apply agreed margin. The price along with any assumptions and caveats will be provided in the format of a quote which will also stipulate any additional pre-acceptance information that is required before the waste can undergo a full technical assessment. Where required it may be appropriate to verify the pre-acceptance information which has been provided by contacting or visiting the producer.

For some enquiries the analysis of a pre-acceptance sample would be required before the waste can be quoted and/or collected. The quantity of sample required are the square root of N+1 for waste of the same composition, or where the waste is variable every container is sampled The collection of a sample in conjunction with a waste declaration document will be submitted to an internal laboratory. Biffa's WDD includes details relating to sample preservation, variation etc template ID BIFSSIND02 WDD.

If the customer agrees to the quotation provided and wishes to proceed, all pre-acceptance information must be obtained and suitably recorded in the designated drive.

Only in instances where the quotation request was via a third party broker or waste management company will details relating to the previous holder and age of the waste be obtained and confirmed.

All customers will be required to provide an estimate of the annual waste quantity we are expected to receive.

Technical Assessment Stage

The technical assessment of a waste stream will be carried out by either;

Appropriately trained staff for low risk waste streams assessment will be completed by utilising one of our pre-determined central system templates which have been set up by a level 3 chemist.

Or for medium/high risk waste streams an appropriately trained staff member with a minimum qualification of HNC in chemistry or above and job role specific training.

Common waste streams have been assessed for risk to both site personnel and the environment as per Table 1 below.

TABLE 1 RISK RATING DEFINITION		
	LOW RISK	Incidents would not likely result in any harm to the environment or injury to personnel.
	MEDIUM RISK	Incidents would have a low probability to result in any harm to the environment or injury to personnel.
	HIGH RISK	Incidents would be more likely to result in harm to the environment or injury to personnel.

Examples of waste streams and their risk rating are documented in the waste categorisation table a copy is located in the appendix to this procedure.

Waste streams requiring technical assessment can be appropriately described using one of 6 categories listed below:

- Articles
- Retail Products
- Mixed Wastes
- Unchanged Industrial Products
- Process Waste
- Lab Smalls

Definitions of the categories are available in Table 4 located in appendix of this procedure.

The technical assessment process includes using information obtained from the customer to determine the waste streams:

- Hazard Properties
- EWC code
- Composition

This information is used in conjunction with the current technical guidance document in order to accurately classify a waste stream.

Technical Assessment Roles and Responsibilities and waste stream pre-acceptance information requirements

The below table documents the waste category, risk factor, assessment level and pre-acceptance information requirements.

TABLE 2 TECHNICAL PRE-ACCEPTANCE ASSESSMENT TABLE							INFO REQUIRED		
CATEGORIES		RISK	CSF	L2	L3		PTAF	SDS	Sample
1	ARTICLE	Low	✓	✓	✓		⊗	⊗	⊗
2	RETAIL PRODUCTS	Low	✓	✓	✓		⊗	⊗	⊗
		Medium	⊗	✓	✓		⊗	⊗	⊗
		High	⊗	⊗	✓		⊗	✓	⊗
3	MIXED WASTE	Low	✓	✓	✓		⊗	⊗	⊗
		Medium	⊗	✓	✓		✓	*	⊗
		High	⊗	⊗	✓		✓	*	⊗
4	UNCHANGED INDUSTRIAL PRODUCTS	Medium	⊗	✓	✓		⊗	✓	⊗
		High	⊗	⊗	✓		⊗	✓	⊗
5	PROCESS WASTE	High	⊗	⊗	✓		⊗	⊗	✓
6	LAB SMALLS	High	⊗	⊗	✓		⊗	⊗	⊗
	* SDS where applicable								

Definitions of job roles and qualification requirements available in Table 3 located in appendices.

For waste categories 1-4 and 6, where a physical sample is not required as part of the pre-acceptance information gathered from the customer, the designated requirement and associated category will be recorded directly in central system.

Low Risk Enquiries Requiring Technical Assessment without a Pre-Acceptance Sample

For Low risk waste streams technical information is stored for use via a template which can be utilised by appropriately trained staff. Additional waste stream specific questions are documented in the appendix of this procedure in the additional parameters table.

Medium Risk Enquiries Requiring Technical Assessment without a Pre-Acceptance Sample

A minimum of a level 2 chemist will assess the enquiry details. This assessment includes verification that pre-acceptance information has been collected and recorded appropriately. Additional waste stream specific questions are documented in the appendix of this procedure in additional parameters table.

High Risk Enquiries Requiring Technical Assessment without a Pre-Acceptance Sample

A minimum of a level 3 chemist will assess the enquiry details. This assessment includes verification that pre-acceptance information has been collected and recorded appropriately including any additional waste stream specific details as per the additional parameters table located in the appendix of this procedure. That the assigned EWC codes are allowed by the permit and making a final determination as to whether a pre-acceptance sample is required.

Enquiries Requiring a Pre-Acceptance Sample

If the customer wishes to proceed with the collection a sample(s) are obtained along with a completed Waste Declaration Document(s) (WDD) BIFSSIND02. Samples are taken by a technically competent person which could be the producer, sales consultant or chemist. Information to demonstrate that the sample is representative should be detailed on the WDD. This will include location of the sampling point, capacity and number of containers sampled, method of sampling, number of samples and degree of consolidation, operating conditions at time and preservation techniques (if any).

Each sample is labelled fully with the information listed below:

- Waste Producer name
- Waste description
- Name of individual who has taken the sample
- Date
- Preservation technique (if applicable)
- Applicable hazards

Samples and WDD's are assessed by a level 3 chemist who will determine what analysis is required based upon the available information and the intended disposal route.

Samples are analysed at a location with appropriate standards i.e. UKAS, MCERTS or internal quality standards. This could be one of the following:

- The laboratory at the intended disposal point
- A third party laboratory
- Biffa laboratory

Once the analysis is complete the laboratory assessment screen in the central system is completed and a level 3 chemist will assess the enquiry. This assessment includes verification that the assigned EWC codes are allowed by the permit. All analytical information must be uploaded to the sample assessment screens of the relevant enquiry on the Central System.

Laboratory Smalls

A laboratory small is defined for the purpose of this SOP as generally a pure chemical <5Ltrs in size generated from the clearance of a lab or similar activity.

For lab smalls a fully itemised list should be provided.

A level 3 chemist must assess all laboratory smalls lists to ensure they contain no excluded items i.e. explosives, radio actives or controlled drugs etc

Healthcare Waste

Healthcare waste for the purpose of this SOP can be either clinical or offensive waste from a non-healthcare activity e.g. universities, research etc. Chemical waste from a healthcare setting is permitted and will be assessed in line with this SOP.

Re-Assessment of Pre-Acceptance Information

Waste acceptance information should be reassessed against the information that was required for a waste stream at pre-acceptance if the:

- Waste changes
- Process giving rise to the waste changes
- Waste received does not conform to the pre-acceptance information (SOP 04)

In all cases, you must reassess the information required at pre-acceptance on an annual basis.

Booked Waste Loads

Once a load has been technically assessed and routed for delivery to a Biffa Transfer Station, the waste stream and booked quantities will be reviewed by an L2 or L3 chemist to confirm that the site has sufficient capacity to accept it. As part of this pre-acceptance verification the chemist will also check the CoMAH calculator to ensure the site will not exceed any threshold quantities.

Records

All written pre-acceptance information such as sds sheets and ptaf's must be recorded in the designated drive.

All computerised information must be accessible directly by the site.

All records are to be kept for a minimum of three years.

APPENDIX DOCUMENTATION

- Customer Enquiry new/existing process flow
- Pre-acceptance process flow
- BIFSSIND01 PTAF
- BIFSSIND02 WDD
- Table 3 Job roles and relative qualifications
- Table 4 Definition of categories
- Waste categories examples
- Additional Parameters
- Waste template ID's

APPLICABLE REFERENCE GUIDANCE NOTES

Relevant sections of these guidance documents should be used in conjunction with this procedure.

- WM3
- Misuse of drugs act

Waste Acceptance and Tracking

1. Document Information

	Name & Job Title	Date
Document Author	Kiri Perkinson	Feb 2025
Document Approver		

2. Version Control

Version Number	Date	Description of Changes	Next Review Date
0.1	Feb 2025		

3. Definitions

Abbreviation	Definition

4. Purpose

To ensure that all waste received at the facility is assessed, accepted and managed in compliance with the sites environmental permit. Ensuring that waste arriving on site is correctly identified, that it conforms to the Pre-Acceptance Technical Assessment and to verify the arrangements in place for compliant storage, processing and onward transfer of the waste.

5. Scope

This procedure applies to all incoming packaged goods containerised waste received at the facility. This procedure is to be followed by all personnel involved in the enquiry process.

6. Responsibilities

It is the responsibility of the site management to ensure that all waste arriving on their site has been assessed in accordance with this procedure.

It is the primary responsibility of the Chemist to assess all waste arriving on site in accordance with this procedure.

7. Procedure

General

Waste can only be accepted at the site if the pre-acceptance procedure (SOP 01) has been followed.

Waste can only be brought onto site on days set by the chemist or by the Depot manager, on confirmation with the chemist that storage capacity is available and the COMAH threshold would not be exceeded.

Waste can only be accepted when there is a minimum of 2 members of staff on site one of which must be a chemist (minimum HNC qualified) and one of which must be able to drive a fork lift truck.

Waste can only be accepted if an approved disposal route has been identified.

Wastes should generally be accepted only by a chemist, except for those streams classified as low risk through the pre-acceptance process. In such cases, appropriately trained staff may also manage acceptance. Appropriate training should include, but is not limited to, relevant guidance and knowledge of the permit requirements.

If waste is not permitted to be accepted onsite such as radioactive materials, explosives, unknowns or other prohibited categories the non-conformance procedure must be followed, and the waste must be placed into quarantine.

Sites that accept waste must ensure that all reception and storage areas including quarantine and sampling zones are constructed with impermeable surfaces and equipped with self-contained drainage systems, preventing and spillages from entering the wider drainage network or escaping the site.

Waste Offloading Procedure

In order to comply fully with this procedure, all waste delivered to the transfer station shall be off-loaded into the reception area (as marked on the site storage plan) in such a way that all containers, pallets etc are physically removed from the vehicle and separated according to hazard before being placed into the reception area to allow a full and complete inspection by the site chemist. It is not acceptable for waste (either full or part load) to remain on the vehicle for immediate transfer to a final disposal facility.

The chemist shall check that all relevant documentation is valid i.e. consignment note, controlled waste transfer note and contains information identifying hazardous characteristics, composition, etc. and that quantities match those documented. Issues or discrepancies must be resolved and a non-conformance report BIFSSIND03 raised.

The chemist shall visually inspect the waste and its packaging to ensure as far as possible that it is safe to offload.

If it appears safe to offload and there is adequate space in the reception area, the chemist shall direct the operative to offload the waste with due care using forklift trucks or other suitable mechanical means.

If the load is not safe to unload, the chemist shall notify the Depot manager and/or site Health and Safety Business Partner for further instructions.

Waste Acceptance

No waste should be accepted or processed at the installation without verification of the information supplied for Pre-Acceptance. Verification checks can include but are not limited to written documentation, physical verification and/or analytical confirmation of components. Information provided at pre-acceptance was determined by the categorisation of the waste.

Containers will be assessed for suitability at the pre-acceptance stage of an enquiry assessment includes their suitability for transport, integrity and use by date. If on arrival any containers are found to be leaking, damaged or corroded they must be re-drummed and/or over drummed immediately and a non-conformance raised as per SOP 04. All containers must have well-fitting lids and all closures in place.

In addition plastic or fibre packaging must be further risk assessed for suitability and if the containers are in date.

Pallets containing boxes shrink wrapped together must be broken down and inspected to ensure all materials are identified.

Once the waste in is the reception area the Chemist must carry out a series of checks to ensure that the waste delivered conforms to the pre-acceptance characterisation as detailed on the transport documentation and enquiry system. Acceptance checks must be completed within one working day of receipt of the waste. Table 1 provides details for chemists on what checks need to be carried out for which category of waste. Table 1 acceptance can be found in the appendix to this procedure.

Acceptance checks are a confirmatory inspection based on the requirements of the waste category and include but are not restricted or limited to appearance, odour and pH and physical form these are referred to as the "CORE 4". Samples taken for the purposes of CORE 4 testing will be returned to the waste container on completion. Where required further analysis of process waste samples must be completed and the sample retained for at least 2 days after the waste has left site. Where multiple of containers of the same waste require analysis in most instances it is appropriate to produce a composite sample using square root of N+1, or where the waste is variable every container is to be sampled. Where appropriate, and safe to do so, core samples must be taken and analysis carried out by an appropriate laboratory. If core samples aren't taken the reason for alternative sampling technique and a justification must be documented. Samples submitted to onsite laboratories must be accompanied by a WDD.

Any analysis sample results will be stored electronically against a unique reference number and stored electronically. Any discrepancies identified in analytical data from pre-acceptance information provided will result in a non-conformance and SOP 04 must be followed.

The weight of the incoming waste is recorded. This weight is to be ascertained by either weighing individual containers or from a list of generic weights determined separately or from volumetric measurements linked to densities. A generic weights matrix is to be maintained by the site chemist.

Relevant information must be logged on the Incoming Waste Verification spreadsheet. This would include but is not restricted to the value of the pH, physical state, confirmation of and justification for the sampling regime i.e. core sample, homogeneous liquid, and where safe, an assessment and description of odour. If no odour present, this should be recorded. If additional analysis is required a core sample is taken and submitted to a laboratory for analysis.

The container labelling is checked to ensure its presence and that the information relating to the waste description, chemical identity, associated hazards and other carriage notation is correct. In addition the container is checked to ensure that no extraneous (obsolete, historical, irrelevant) labelling or markings are present. If found they are removed or obscured. Where necessary the chemist will re-label the container with the most appropriate information for storage and waste compatibility.

Each drum is individually and clearly identified with the following information:

- An identification label linked to the enquiry
- a description of the waste that also gives its chemical identity and composition
- a unique tracking system reference – ticket number
- the date of arrival on site
- a hazard code or codes (using a product or transport symbol)

If waste containers are shrink-wrapped on pallets, or you shrink-wrap containers, once inspected you can label the shrink wrap with all the relevant information. If a shrink-wrapped load is split, you must make sure you mark or label each individual container with all the relevant information.

The Chemist identifies the most appropriate storage bay, based upon chemical composition and with due regard to compatibility with other materials stored in the bay. This is in accordance with HSE guidance note HSG71 and HSG51.

The tracking code and storage bay identification are logged onto the Incoming Waste Verification spreadsheet.

The Chemist directs the operative to transfer the container to the designated storage bay. The bay log sheets are updated daily.

If the waste does not match the description on the documentation or the waste falls outside of the Permit, the Depot manager shall be contacted. A non-conformance report will then be completed BIFSSIND03. The customer should be notified of the non-conformance/rejection and the reports maintained on site for review by the Agency. In instances of repeated breaches, the Agency should be informed as soon as practicable.

If the non-conformance is due to incompatibility, then the wastes will be segregated immediately to remove any hazard. Once segregation is complete the non-conformance report will be compiled as above.

The site COMAH aggregate values are updated maintaining a value below 0.75 of the appropriate threshold limit. Management approval must be sought if this value is to be exceeded. This information must be updated on the site tracking system.

Contaminated clothing, packaging or rags will be subject to a visual inspection should there be any signs of other contamination ie swarf, metallic objects or general detritus they would be further inspected and subject to sorting and repacking as required.

Storage of Waste in the Reception Area

The reception area is not to be used as a storage area all containers must be checked within one working day of receipt.

Immediately after verification all containers are to be transferred to their appropriate storage bay.

If for any reason the waste cannot be verified immediately upon arrival i.e. arrived on site too late, as a minimum any potentially incompatible materials i.e. oxidisers and flammables, water reactives must be removed from the reception area and placed in their appropriate storage bays. No potentially incompatible wastes are to be left in the reception area overnight.

Laboratory Smalls Acceptance

All lab smalls prior to acceptance should have been sorted and segregated at source. Acceptance checks are a visual inspection for damaged containers.

Laboratory Smalls will only be accepted on site if packed by a Biffa / Hazpack Chemist, or by a third party who has packed the laboratory smalls in accordance with our procedure.

Containers must be checked within one working day of receipt.

Once checked the container can be moved to the appropriate storage area.

Laboratory smalls that need to be sorted for onward disposal must be moved to a dedicated repackaging area.

Where laboratory smalls are accepted and it cannot be verified that they have been packed in accordance with the laboratory smalls packing procedure, they should be unpacked on the day of arrival (where practicable), segregated for compatibility and subsequently repacked.

Receipt of laboratory smalls is covered by a separate procedure – Lab Smalls Working Practice (SOP 06).

Records

The Consignment note or Duty of Care note is signed by the Chemist. All returns records are to be kept for the lifetime of the site.

APPENDIX DOCUMENTATION

- Table 1 acceptance criteria
- IVS Template
- WDD
- Site layout plan – reception & sampling

APPLICABLE REFERENCE GUIDANCE NOTES

Relevant sections of these guidance documents should be used in conjunction with this procedure.

Storage of Containerised Waste Transfer Station

1. Document Information

	Name & Job Title	Date
Document Author	Kiri Perkinson	Feb 2025
Document Approver		

2. Version Control

Version Number	Date	Description of Changes	Next Review Date
0.1	Feb 2025		

3. Definitions

Abbreviation	Definition

4. Purpose

To ensure that hazardous and non-hazardous containerised materials are stored in the Transfer Station (and supervised/monitored) in such a way as to prevent exposure to harmful substances and to prevent the occurrence of any adverse reaction that could initiate or propagate an incident involving the loss of control of the materials stored on site.

5. Scope

This procedure is to be followed by all site personnel.

6. Responsibilities

It is the responsibility of the site management and site chemists to ensure that all waste arriving on site is stored in accordance with this procedure.

7. Procedure

General

Primary, secondary and teriatiary containment systems are in place for packaged goods storage

Separate storage areas will be maintained for material combinations that have the ability to react adversely together. Examples of such prohibited combinations include but are not limited to:

- Acids and Cyanides
- Acids and Alkalis
- Oxidisers and flammables
- Acids and Hypochlorites
- Acids and Nitrates/Nitrites
- Flammables and Ignition sources
- Reducing agents and oxidisers/acids
- Acids and Sulphides

Storage on site has been laid out according to chemical composition in accordance with HSE guidance notes HSG71 and HSG51 and DSEAR Regulations.
The bay layout is shown on the site storage plan with further details in relation to storage areas capacity detailed in Table 1 located in the appendix to this procedure . Storage areas should be located to eliminate or minimise double handling of waste. Wastes can only be stored in the defined bays.

Storage areas shall be clearly labelled / marked in accordance with the prevailing Regulations to identify clearly the contents, the nature of the hazardous materials and the storage capacity within them. If due to particular circumstances (and in accordance with the Permit) an alternative bay is used to store waste that is necessarily compatible with other material stored therein, additional temporary signage will be incorporated to identify the nature of, and the hazards associated with, the additional stored materials.

The maximum annual storage capacity for the site is that which is stated within the Permit, and this must not be exceeded.

No stored containers shall exceed the bay boundary, and the total quantity of waste stored in each bay must not exceed the stated maximum.

Site Chemists will check and report on the operational status of the facility on a daily basis. This will include the current capacity, and an assessment of incoming-outgoing wastes, any safety related issues, and site drainage infrastructure.

Waste Storage & Segregation – Packaged Goods

All containers will be labelled with:

- The date of arrival
- The relevant hazardous property code(s)
- The chemical identity/composition (The sole use of trade names and/or acronyms to identify the contents is not permitted)
- A unique reference number that allows identification through stock control and cross reference back to the acceptance and pre-acceptance records – drum ID

All labelling must be weather proof and resilient enough to stay attached and legible throughout the whole time of storage on site and transportation to the disposal point.

A site chemist shall assign the storage area for wastes having completed the appropriate analysis in accordance with Waste Acceptance Procedure (SOP 02) and following an assessment concerning the compatibility of the materials that may already be in the area and any particular hazards associated with the waste e.g. water reactive materials must for example be stored under cover/indoors whilst light sensitive materials should be stored away from direct sun light.
Prior to any waste being allocated a storage destination, the integrity of packaging must have been confirmed and any remedial measures taken as a part of the Waste Acceptance Procedure (SOP 02) completed. Containers must not be put into storage or put into quarantine without well fitting lids, caps and valves etc.

The Bay Logs (incoming waste verification spreadsheet) shall be updated to show the location of each individual waste before the end of the day and displayed for access by the emergency services.

Drums, IBCs or other suitably secured palletised waste must not be stored more than two high (unless being placed into racking designed specifically for this purpose) and adequate aisle access must be provided for permit inspection / removal of containers from the bay. Containers must be stored in such a manner that their labels are visible.

Daily inspections of the conditions of the containers, pallets, bunding etc will take place to identify, in particular, signs of damage, deterioration and leakage. Records must be kept of these inspections and any remedial actions e.g. over-drumming / re-drumming etc taken to deal with leaks etc noted in the site diary. If it is necessary to over-drum or redrum any waste, the identification markings from the original container must be transferred to the new container. Large quantities of wastes in over-drums should be avoided by re-drumming as appropriate.

Pallets damaged to the extent that the stability of the containers is or may become compromised should be replaced. Plastic shrink-wrap should only be used to provide secondary stability to drum/container storage in addition to the use of sound pallets.

IBC containers are to be stored against walls in preference to palletised drums with their valves facing into the aisle for ease of leak detection. Where it is unavoidable to store drums directly against walls, a pallet label, with full BAT labelling requirements, will be applied facing into the aisle space identifying all the containers on that pallet. I.e. details can be seen for inaccessible containers.

All spillages of waste should be logged in the site diary and should be dealt with in accordance with the Incident Management/Emergency Plan. Where spillages >200l occur the Regulator should be informed if appropriate.

Activities that create a clear fire risk (e.g. grinding, welding, and charging of FLT batteries) should not be carried out within the storage area, even if it is not formally classified as storage and may need to be carried out under a permit to work system.
Storage areas for containers holding flammable or highly flammable wastes should be within bays that have appropriately constructed firewalls and/or meet the requirements of HSG51, HSG71 and CS21.

The Bay Logs must be amended showing all new waste entries and outgoing waste exiting the site. This shall be updated a minimum of once a day.
Storage areas should be clearly marked with the quantity and hazardous characteristics of the wastes stored therein. Signs should comply with The Health and Safety (Safety Signs and Signals) Regulations 1996.

Waste Storage & Segregation – Aerosols

Aerosols shall be stored in suitably ventilated containers away from any sources of ignition and separated from other wastes in accordance with HSG71 and HSG 51.
Storage areas should be free from combustible materials other than aerosols packaging and wooden pallets on which they stand. Where they are not stored under cover or indoors, suitable lidded and ventilated containers shall be used to prevent contact with rain and reduce the potential for rusting. During storage all closures should remain in secured in place. Aerosols should not be stored in open containers (e.g. cut off IBCs).

Aerosols received in insecure or flammable containers/packaging e.g. in cardboard boxes, shrink-wrapped on pallets must be stored in cages or transferred to secure ventilated containers to prevent the risk of them spreading fires by missiling or ejection. Cages should be robust, fire-resistant and of an appropriate mesh size to constrain the aerosols and prevent ejection. The cage shall have a mesh roof.

Aerosols held in containers that are not able to collect and hold liquids released from the aerosols should be provided with suitable containment measures e.g. drip trays or transferred to secure containers that are able to retain free liquid.
Containers used to store aerosols should not be overfilled as this can result in canisters being actuated and releasing their contents.

Wherever possible and practical aluminium aerosols should not be stored with rusty steel aerosols or in direct contact with unprotected or rusty steel containers.

Waste Storage & Segregation – Laboratory Smalls

All lab smalls received on site packed by a Biffa Hazpak Chemist will be packed in accordance with the Laboratory smalls working practice procedure (SOP 06) and will have been inspected in accordance with the Waste acceptance procedure (SOP 02). Lab smalls packed by third parties not deemed to be in accordance with the procedure shall have been re-packed prior to storage. The Laboratory smalls working practice procedure and the waste acceptance procedure preclude the mixing of incompatible materials within the same drum.

Packed laboratory smalls shall be labelled with a single generic label that most accurately describes the contents and hazard and should bear the words “laboratory smalls”.

Packed laboratory smalls shall be stored in the appropriate storage bay away from the lab smalls processing area.

Waste Storage – Gas cylinders

Gas cylinders, whether full, part full or nominally empty should be stored in the relevant gas cage/bay dedicated to this purpose taking into account segregation and the potential for adverse reaction.

Cylinders must be stored upright and if necessary secured in this position. Cylinders must not be double stacked.

Waste Storage – Flammable Wastes

Flammable waste should be stored separately from other wastes in the sites designated bay. Flammable waste storage areas should be well-ventilated to prevent the buildup of flammable vapours. Areas should be free from potential ignition sources. Waste should be stored under cover and if stored outside protected from direct sunlight, heat, and moisture. The site flam bay will be in a DSEAR zoned area please refer to the site DSEAR assessment for further information.

Waste Storage-Oily Rags

Inspections of oily rag containers in their storage area should be carried out at the end of each shift using an infrared thermometer. Any containers which are showing an increased temperature or hot spots should be removed from the storage area and the issue notified to site management for further investigation.

Turnover

Stock records must be checked and reported on a weekly basis to prevent accumulations of waste and to ensure expeditious removal from site to ensure the prevailing maximum storage period is not exceeded.

Storage within the reception area is not permitted where this also serves as the dispatch area (subject to appropriate scheduling and management) and in any case should not extend beyond one working day. The total storage time on site will depend upon a number of factors e.g. the nature, characteristics and quantity of the waste. However all waste should be removed from storage in the transfer station within a maximum of six months from the date of receipt.

Should it seem likely that waste will be stored beyond the 6 month limit, Site Management are to notify the EA, in advance, to request approval of prolonged storage, providing adequate justification and target date for disposal. The request to the EA should be recorded on non conformance form BIFSSIND03 noting the above details, EA response and final close out on completion.

Site Inspection

Site personnel are to conduct daily inspections of the sites storage facilities to ensure compliance with Permit and licence requirements and general safety systems. Inspections are recorded on company management system.

Site personnel are to conduct an inspection of the sites security, safety and welfare facilities on a weekly basis as listed on company management system.

The person carrying out the inspection must record any issues identified, the remedial action required, and the priority to be given to the actions and sign the form to confirm that each area has been inspected.

Once complete the inspection form is passed to the COTC holder or authorised person who will sign and date the form and monitor completion of the remedial actions.

Disposal of Containerised Waste

Any waste acceptance samples taken (including composite samples where appropriate) or samples from bulked waste will be retained for a minimum of 2 days following removal of the waste from site.

No bulking should take place until a full compatibility assessment has been performed in accordance with the procedure for bulking of waste in transfer stations (SOP 05). This includes transfer from drums into bulk storage or into a treatment tank.

Bulk Storage vessels etc

Reference within appropriate measures for requirements for bulk storage, bunding around storage vessels, pipe work etc is beyond the scope of this procedure which pertains only to storage of containers in transfer stations.

APPENDIX DOCUMENTATION

- Table 1 Site bays locations and capacities (Site Specific)
- Topographic survey (Site Specific)
- HSG 71 Table 2
- Site Specific DSEAR Assessment

APPLICABLE REFERENCE GUIDANCE NOTES

Relevant sections of these guidance documents should be used in conjunction with this procedure.

- HSG 71 Chemical Warehousing
- HSG 51 The storage of flammable liquid in containers
- Dangerous substances and explosive atmospheres regulation 2002
- HSG 140 Safe use and handling of flammable liquids
- Guidance for the storage and treatment of aerosol cannisters and similar packaged wastes
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Non-Conformance and Waste Rejection

1. Document Information

	Name & Job Title	Date
Document Author	Kiri Perkinson	Feb 2025
Document Approver		

2. Version Control

Version Number	Date	Description of Changes	Next Review Date
0.1	Feb 2025		

3. Definitions

Abbreviation	Definition

4. Purpose

To identify issues relating to loads and disseminate that information to rectify the issue and prevent future re-occurrences.

5. Scope

This procedure is to be followed by all transfer station personnel.

6. Responsibilities

It is the responsibility of the Site Chemist to ensure that this procedure is initiated, and a non-conformance report BIDSSIND03 is raised and passed to the appropriate personnel and that a record is retained.

It is the responsibility of relevant management to ensure that the outcomes of this non-conformance are acted upon and monitored.

7. Procedure

Non conformance of waste

Where waste arrives on site and aspects of the load are considered to be non-conforming to either statutory requirements, current site rules and procedures or outside of the waste acceptance criteria the following procedure shall be put into action. Examples of non-conforming load categories are below:

- Operational
- Environmental
- Commercial
- Health and Safety
- Other/Combination

Examples of these incidents that may fall into the above categories are detailed in table 1. Example of rectifying actions can be found in table 2. Both tables can be found in the appendix to this procedure

Non-conforming loads will either be loads that can be processed and accepted onto site or those that cannot be accommodated. For wastes that cannot be accommodated, the rejection procedure below will be instigated.

In all cases, a non-conformance report form BIFSSIND03, will be completed by the site Chemist, detailing the date and time of arrival, Enquiry number, producer/customers name and a description of the non-conformance. Appropriate actions will be assigned by the Chemist and the non-conformance will be allocated to the correct team for resolution.

Allocated actions must be completed within 48 hours.

If acceptance of the load is dependent on agreement from the customer the waste will be placed in the quarantine bay or labelled as 'Quarantine' and placed in an appropriate storage bay. Agreement with the customer will be obtained in writing and where necessary a purchase order obtained. Turnaround of waste within the quarantine bay should not exceed five working days.

Once all actions have been taken, these actions and any outcomes will be listed on the central non-conformance database. Information will be made available to the relevant agency if required.

Rejection of waste

An assessment of the load will be made to ascertain whether it is suitable and safe to return to the highway. Where the waste does not match the description provided on the paperwork, the chemist will provide a more accurate description, which should then be discussed with the relevant agency.

Remedial action will be taken to ensure the load's safety where an assessment finds it to be unsafe. All due regard for the safety of site personnel will be taken and where necessary a risk assessment of any remedial action will be undertaken. Details of the rejection will be given to the sales team who will inform the customer of the rejection. The appropriate paperwork will be annotated to say the load has been rejected and the site will retain a copy.

Giving due regard for drivers' hours and other transport commitments, the load will be sent back to the producer/customer or other agreed alternative disposal facility.

If rejected material is required to remain on site, it will be labelled and stored appropriately. Every effort should be made to ensure that this storage period is as short as possible and certainly no more than 5 working days. Following this period the waste will be removed from the Site as detailed above.

Completion of Consignment Notes for Rejected Wastes

When a consignment or part of a consignment is rejected the consignee must state in section E of the standard consignment note or section D of the multiple consignment note that the waste is rejected and the reason for rejection. The consignee retains one copy, gives one copy to the carrier and as soon as reasonably practicable sends a copy to the consignor. A copy must be sent to the producer or holder if they are not the consignor.

The carrier must inform the relevant agency that the waste has been rejected and give them the appropriate details.

The carrier/producer are responsible for raising a new consignment note for transfer of the consignment to a new consignee.

APPENDIX DOCUMENTATION

- Table 1 Non-Conformance Categories with examples
- Table 2 Non-Conformance action examples
- Process Flow Chart
- BIFSSIND03 Non-conformance report

APPLICABLE REFERENCE GUIDANCE NOTES

Relevant sections of these guidance documents should be used in conjunction with this procedure.

APPENDIX 10

Relevant Convictions

Relevant Convictions

Company/individual: Biffa Waste Services Limited.
Position of individual: N/A.
Court: Doncaster Magistrates Court.
Date of conviction: 05/06/89
Offence: The relevant offence for which Biffa Waste Services Limited was convicted on 5th June 1989 under s3 of the Control of Pollution Act 1974 related to handling of asbestos wastes at the Company's landfill site at Finningley, near Doncaster, South Yorkshire. Bagged asbestos waste was received in bulk (approximately 35 m^3 containers) and when tipped could not be handled in a satisfactory manner.
Penalty imposed: Fine £1000.
Outstanding appeals: N/A
Additional information: To prevent a re-occurrence a revised working plan method was introduced and the Waste Disposal Licence for the site was amended to restrict the size of bagged asbestos loads to 10.7 m^3 containers. No further incidents of this nature have occurred.

Company/individual: Biffa Environmental Technology Limited/ Mr. R. B. Tate.
Position of individual: R. B. Tate, Director.
Court: West Bromwich Magistrates Court.
Date of conviction: 29/06/92
Offence: The relevant offence for which Biffa Environmental Technology was convicted on 29th June 1992 under s3 of the Control of Pollution Act 1974 related to the emission of chlorine gas from the Company's liquid waste treatment plant at Wednesbury, West Midlands. A quantity of dilute waste acid was added to a treatment tank already containing rainwater contaminated with dilute waste bleach, the resulting reaction causing the release of chlorine gas from the plant.
Penalty imposed: Fine £500 and £1000 costs.
Outstanding appeals: N/A
Additional information: To prevent a re-occurrence of the above incident the treatment methodology was changed. No further incidents of this nature have occurred.

Company/individual:	Island Waste Services Limited.
Position of individual:	N/A.
Court:	Newport Magistrates Court, Isle of Wight.
Date of conviction:	12/06/00
Offence:	The two relevant offences for which Island Waste Services was convicted on 12th June 2000 under s33(6) of the Environmental Protection Act 1990 related to two breaches of licence conditions at the Company's Lynbottom landfill site, Isle of Wight. A breach of condition 11.4 related to the inability to cover waste by the end of the working day due to a failure of site plant. A breach of condition 7.9 related to the failure to record details of the failure of the site plant and stand-by plant on the same day in the site diary.
Penalty imposed:	Fine £3500 and £2700 costs.
Outstanding appeals:	N/A
Additional information:	To prevent a re-occurrence site specific procedures have been revised.

Company/individual:	Biffa Waste Services.
Position of individual:	N/A
Court:	Bournemouth Magistrates Court.
Date of conviction:	17/09/02
Offence:	The relevant offence for which Biffa Waste Services was convicted on 17th September 2002 under s33(1)(c) and s33(6) of the Environmental Protection Act 1990 related to keeping of waste on land in a manner likely to cause pollution to the environment at the Whites Pit landfill site in Wimborne, Dorset at which Biffa are the operator. Odour arose in relation to a leachate tankering operation.
Penalty imposed:	Fine £7000 and £5881.14 costs.
Outstanding appeals:	N/A
Additional information:	No further incidents of this nature have occurred.

Company/individual: Barge Waste Management.
Position of individual: N/A
Court: Salisbury Magistrates Court.
Date of conviction: 20/09/02
Offence: The relevant offence for which Barge Waste Management was convicted on 20th September 2002 under s33(6) of the Environmental Protection Act 1990, related to the acceptance of food waste at the company's Whiteparish landfill, near Salisbury in Wiltshire.
Penalty imposed: Fine £8500 and £2291 costs.
Outstanding appeals: N/A
Additional information: To prevent a re-occurrence procedures have been augmented in relation to the inspection of materials accepted at the site.

Company/individual: Biffa Waste Services.
Position of individual: N/A
Court: Cannock Magistrates Court (sitting at Stafford).
Date of conviction: 22/07/04
Offence: The two relevant offences for which Biffa Waste Services was convicted on 22nd July 2004 under s33(6) and s33(1)(b) of the Environmental Protection Act 1990 related to a breach of condition F8 of the waste management licence and keeping of waste on land otherwise than in accordance with the waste management licence at the Poplars landfill site in Cannock, Staffordshire at which Biffa are the operator. Condition F8 requires that precautions are taken effectively to deal with (vermin and) insects on the site. The site had failed to maintain cover in several small areas, which was deemed the precaution to deal effectively with flies.
Penalty imposed: Fine of £8,000 on the first charge with no further fine on the second charge, and costs of £17,500 were awarded to the Environment Agency.
Outstanding appeals: N/A
Additional information: The offences subject to the above prosecutions occurred during 6th and 28th June 2001. Since the date of the offence, Biffa has been actively engaged in a regular and proactive program of fly control measures on site, including application of insecticides, fly surveys and fly counts. No further incidents of this nature have occurred.

Company/individual:	Biffa Waste Services.
Position of individual:	N/A
Court:	Northampton Magistrates Court
Date of conviction:	17/07/07
Offence:	The three relevant offences for which Biffa Waste Services was convicted on 17th July 2007 under s34 of the Environmental Protection Act 1990 related to failure to provide a sufficiently comprehensive description of waste on three similar consignments sent to WasteGo's hazardous waste landfill site at Kingscliffe, Peterborough. The materials were predominantly hair care products (shampoos, aerosols, mousses etc) transferred from Biffa's Cardiff Special waste facility to the hazardous waste landfill site.
Penalty imposed:	Fine of £4,000 on the first offence with no further fine on the second or third offences, and costs of £16,872.72 were awarded to the Environment Agency.
Outstanding appeals:	N/A
Additional information:	In pleading guilty to the above offences, mitigation was pleaded that WasteGo had still been provided with sufficient information, including the presence of liquids, to have enabled their rejected the wastes at the pre-notification stage, the booking in stage, or at the weighbridge. WasteGo had appeared not to follow their own procedures and the Agency appeared to have enabled a number of operators to continue to forward similar consignments over a prolonged period of time, before intervening and taking action, this point being accepted by the Magistrate. Since the date of the offence, Biffa has undertaken an audit of procedures at the Cardiff transfer station to ensure that wastes are being correctly described and pre-notified. No further incidents of this nature have occurred.

Company/individual:	Biffa Waste Services.
Position of individual:	N/A
Court:	Hertford Magistrates Court
Date of conviction:	06/11/07
Offence:	The relevant offence for which Biffa Waste Services was convicted on 6th November 2007 under regulation 32 (1)(b) Part 6 of the Pollution Prevention and Control (England and Wales) Regulations 2000, and section 2 of the Pollution Prevention and Control Act 1999, related to failure to comply with condition 2.6.12 of Pollution Prevention and Control permit BK1988 relating to Westmill landfill site, by allowing odours to be emitted at levels from the site likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the permitted installation boundary as perceived by an authorised officer of the Agency. Biffa were found guilty of four counts of the same offence occurring on 4th November 2004, 21st and 31st January 2005 and 3rd February 2005.
Penalty imposed:	Fine of £5,000 on each count (£20,000 in total), and costs of £12,500 were awarded to the Environment Agency.
Outstanding appeals:	N/A
Additional information:	A Post Conviction Plan has been requested by the Agency and is being prepared for submission within the required deadline. Whilst Biffa has been convicted of failing to control odour in accordance with permit condition 2.6.12 at Westmill landfill, Biffa was at the time complying with the odour management plan forming part of the Operating Techniques approved under the Permit. The Westmill Permit was issued using an early permit template. The permit template has been revised subsequently as a result of Environmental Appeals lodged by operators. The latest permit template recognises that odour may arise despite an operator complying with their Operating Techniques. The current version in the national template states “Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour”. If this condition were contained within the Westmill permit at the time, it is unlikely that a conviction would have been secured. The Agency are currently revising all PPC permits, including Westmill’s, in line with the new template, that will incorporate the revised odour condition.

Company/individual: Biffa Waste Services.
Position of individual: N/A
Court: West Bromwich Magistrates Court
Date of conviction: 22/05/09
Offence: The relevant offences for which Biffa Waste Services was convicted comprised the following, all brought under the Pollution Prevention and Control (England and Wales) Regulations 2000 (the Regs):

1. Conviction under regulation 32 (1)(b) of the Regs, for a breach of condition 1.1.1 of Permit XP3631SE applying to Wednesbury Waste Management Resource Centre, on or before 23rd November 2006, by having inadequate management procedures on site for contractors who caused a tank to partially collapse during decommissioning.
2. Conviction under regulation 32 (1)(d) of the Regs, by failing to comply with an enforcement notice on or before 18th May 2007, relating to improvements to storage of wastes at the same facility.
3. Conviction under regulation 32 (1)(b) of the Regs, for a breach of condition 1.1.1 of the above Permit on or before 26th July 2007, by failing to store wastes in accordance with BAT requirements as implemented through Sector Guidance Note S5.01

Penalty imposed: Fine of £20,000 on each count (£60,000 in total), and costs of £17,500 were awarded to the Environment Agency, along with a victim surcharge of £15.

Outstanding appeals: N/A
Additional information: A Post Conviction Plan has submitted to the Agency. In relation to the first offence concerning the collapse of a tank, Biffa immediately self reported the incident, put in place measures to deal with the incident, and complied with items in a subsequent suspension notice. The tank collapse was caused by a contractor working outside of the agreed method statement and without a Permit to Work. At the time, procedures were already under review following changes to the CDM Regulations, and shortcomings found during an investigation into this incident relating to signing in, contractor induction and Permit to Work systems were improved and have been implemented to prevent a future re-occurrence.

The second and third offences related to pre-acceptance checks, waste storage and labelling highlighted by the Agency during an audit. No issues had been raised since issue of the PPC permit, until the audit and the site was operating in compliance with procedures that had been approved in writing during the permit determination process. Revised procedures have since been submitted to the Agency for approval.

Company/individual: Biffa Waste Services.
Position of individual: N/A
Court: Derby Magistrates Court

Date of conviction:	14/10/09
Offence:	The relevant offence for which Biffa Waste Services was convicted under Section 33(6) of the Environmental Protection Act 1990, comprised two counts of failing to handle asbestos wastes at Elvaston landfill site in accordance with the waste management licence, EAWML43256, and operational working plan on 17th May 2007 and 21st May 2007.
Penalty imposed:	Fine of £40,000, with costs of £15,400 being awarded to the Environment Agency, and a victim surcharge of £15.
Outstanding appeals:	N/A
Additional information:	The Company had agreed to operate the site so that asbestos wastes were deposited in pre-constructed lands to minimise the potential for asbestos escape. This method of operation was not being utilised at the time of the offences as the space available in the operational ell became restricted, and Site management did not seek to agree new working practices with the Environment Agency. After the incidents that gave rise to the above convictions, the Site's staff were retrained in the relevant procedures and the there were no further issues related to asbestos disposal. Infilling of the Site was wastes was subsequently completed and the Site closed during October 2007. A Post Conviction Plan was completed.

Company/individual:	Biffa Waste Services.
Position of individual:	N/A
Court:	Sunderland Magistrates Court
Date of conviction:	08/07/11
Offence:	The relevant offences for which Biffa Waste Services was convicted under Section 38(1)(b) of the Environmental Permitting Regulations 2007 and Section 2 of and Schedule 1 to, the Pollution Prevention and Control Act 1999, comprised two counts of breaching the odour condition, contained in environmental permit reference BU8045IR at its Houghton Le Spring Landfill site on 7th February 2010 and 2nd March 2010.
Penalty imposed:	Fine of £15,000 for the first offence and £12,000 for the second offence, with costs of £8, 250 being awarded to the Environment Agency, and a victim surcharge of £15.
Outstanding appeals:	N/A
Additional information:	Since the events that gave rise to the prosecution, Biffa has increased the area of permanent cap at the Site, on which permanent gas control infrastructure is installed. The Site is also subject to regular maintenance checks which include searching for areas of odour release, and rapid implementation of remedial maintenance where required to minimise emissions. Closer liaison is also being undertaken with the Agency via scheduled meetings with the Area Environment Manager and ad hoc meetings to enable a quicker dialogue in relation to complaints.

Company/individual:	Greenstar Environmental Limited.
Position of individual:	N/A
Court:	Walsall Magistrates Court
Date of conviction:	18/07/11
Offence:	The relevant offence for which Greenstar Environmental Limited was convicted under Regulation 23(2) and 40(4) of the Producer Responsibility Obligations (Packaging Waste) Regulations 2007, comprised the issuing of an ePackaging Waste Export Recovery Note (ePERN) for a non accredited reprocessing site in China, during November 2009.
Penalty imposed:	Fine of £3,500, with costs of £4,864.20 being awarded to the Environment Agency, and a victim surcharge of £15.
Outstanding appeals:	N/A
Additional information:	The offence was the result of an administrative oversight, which meant that the correct accreditation was not in place to claim the recovery notes. Whilst Greenstar has accepted full responsibility for this error, the Greenstar business has since been acquired by Biffa, who already have stringent controls in place to ensure that a similar situation does not reoccur. In addition, the business is no longer an accredited exporter, as a decision was taken to close this operation down, and therefore a similar offence in the future is unlikely.

Company/individual:	Biffa Waste Services Limited.
Position of individual:	N/A

Court:	Chelmsford Magistrates Court
Date of conviction:	17/04/12
Offence:	The relevant offence for which Biffa Waste Services Limited was convicted under Regulations 12(1)(a) and 38(1)(a) of the Environmental Permitting (England and Wales) Regulations 2010 comprised the storage of containers of waste materials at the Company's workshop located at Basildon, to the extent that the activity would have constituted a regulated facility, for which no Environmental Permit was held at the time.
Penalty imposed:	Fine of £8,000, with costs of £2,282.12 being awarded to the Environment Agency, and a victim surcharge of £15.
Outstanding appeals:	N/A
Additional information:	The offence was the result of an accumulation of containers returned to the depot from customers following termination of contracts, or for repair. The containers should be returned empty and Biffa had procedures in place to empty containers, unless they are defective and cannot be lifted by the relevant collection mode vehicle, but there are issues with customers who place further wastes in these containers before they can be removed from site back to the depot by suitable transport. Biffa also had procedures to ensure that any containers returned to depots and workshops which contained further wastes are emptied within 24 hours. Internal investigation identified that site management had not followed these procedures, resulting in an accumulation of containers over a 2 month period, during which time, senior management were not made aware of the issue. Following the issue being highlighted by the Agency, Biffa acted swiftly to remove all wastes from the site. The Site Manager was subject to displinary action following investigation. Revised procedures were issued along with advice to all managers concerning the removal of wastes in such circumstances. A post conviction plan has also been submitted to the Environment Agency.

Company/individual:	Biffa Waste Services Limited.
Position of individual:	N/A
Court:	Sunderland Magistrates Court
Date of conviction:	20/02/13
Offence:	The five relevant offences for which Biffa Waste Services Limited was convicted under Regulations 12(1)(a), 38(1)(a) and 39(1) of the Environmental Permitting (England and Wales) Regulations 2010 comprised breaches of Permit conditions 3.1.1, 3.2.1, 3.2.3, 3.3.1 and 4.3.1 as a result of two different types of incident relating to discharges from the site.
Penalty imposed:	Fine of £15,000 for breach of Permit condition 3.1.1, and four fines of £22,500 for the other four Permit conditions, along with costs of £26,949.73 being awarded to the Environment Agency, and a victim surcharge of £15.
Outstanding appeals:	N/A

Additional information:	The first incident was a one off accidental release following overtopping of a temporary leachate holding tank when an employee left his post in contravention of clear instructions relating to the supervision of filling of the tank. This resulted in a breach of Permit condition 3.1.1. As a result of the incident, the employee has been severely reprimanded, and the tank replaced with a fully bunded and alarmed tank. The second incident was a fugitive emission of leachate over an unforeseen pathway, relating to the design of a site haul road that crossed over the site perimeter engineering, resulting in a breach of Permit condition 3.3.1. As a direct consequent of this breach, Biffa also incurred convictions for breaches of Permit conditions 3.2.1 for discharge of mecoprop (then a list I substance) and 3.2.3 for discharge of ammoniacal nitrogen above permit trigger levels. A failure to submit the correct notification of the mecoprop breach also resulted in a breach of Permit condition 4.3.1. The Company identified the discharge through routine monitoring and reported this to the Agency and co-operated fully with the Agency to investigate and remedy the cause of the discharge. Remedial works were undertaken to the haul road design, and modelling was undertaken by specialist groundwater consultants to investigate possible effects of the discharge on receptors and to design remedial works. Design and inspection procedures for haul road crossing points were also amended to prevent a similar occurrence in the future. A post conviction plan has also been submitted to the Environment Agency.

Company/individual:	Biffa Waste Services Limited.
Position of individual:	N/A
Court:	Wood Green Crown Court
Date of conviction:	20/06/19
Offence:	Biffa Waste Services Limited was convicted under Regulation 23 of Transfrontier Shipment of Waste Regulations 2007. There were two counts representing two different shipments to China.
Penalty imposed:	Fine of £350,000, Environment Agency awarded costs of £240,000, proceeds of crime order of £9,912 and a victim surcharge of £120.
Outstanding appeals:	Determined – see conviction dated 30/07/2021.
Additional information:	The offence related to two shipments of waste paper to China through brokers Cyclelink and Mark Lyndon. It was found by the Jury that the level of contamination in relation to 7 containers of waste paper was sufficient to render the material "waste collected from households" and as such breached the Regulations. The offence occurred in 2015 and since that time the Edmonton facility has been significantly modified and processes improved. It was accepted that there will always be some contamination within waste paper processed in facilities such as those operated by Biffa in this case, although no specific

level of acceptable contamination has been set by the Environment Agency or the Court. A Post Conviction Plan has been prepared and submitted to the Agency in relation to this matter.

Company/individual:	Biffa Waste Services Limited.
Position of individual:	N/A
Court:	Wood Green Crown Court
Date of conviction:	30/07/2021
Offences:	The four relevant offences for which Biffa Waste Services Limited was convicted were of 4 breaches of Regulation 23 of the Transfrontier Shipment of Waste Regulations 2007 between October 2018 and April 2019:
Offence (1)	Between 30th September 2018 and 6th November 2018, transport of material from Edmonton MRF Unit 2 Aztec 406 12 Ardra Road off Meridian Way Edmonton, London, N9 0BD. Transport of two containers of waste specified in Article 36(1)(b) of the European Waste Shipments Regulation 1013/2006, that was destined for recovery in India, a country to which the OECD Decision does not apply, contrary to Regulation 23 of the Transfrontier Shipment of Waste Regulations 2007
Offence (2)	Between 30th September 2018 and 6th November 2018, transport of material from Edmonton MRF Unit 2 Aztec 406 12 Ardra Road off Meridian Way Edmonton, London, N9 0BD. In relation to containers other than those referred to in Offence 1, the transport of waste specified in Article 36(1)(b) of the European Waste Shipments Regulation 1013/2006 that was destined for recovery in India, a country to which the OECD Decision does not apply, contrary to Regulation 23 of the Transfrontier Shipment of Waste Regulations 2007.
Offence (3)	Between 20th December 2018 and 8th February 2019 transport of material from Edmonton MRF Unit 2 Aztec 406 12 Ardra Road off Meridian Way Edmonton, London, N9 0BD Transport of three containers of waste specified in Article 36(1) (b) of the European Waste Shipments Regulation 1013/2006, that was destined for recovery in Indonesia, a country to which the OECD Decision does not apply, contrary to Regulation 23 of the Transfrontier Shipment of Waste Regulations 2007.
Offence (4)	Between 20th December 2018 and 8th February 2019 transport of material from Edmonton MRF Unit 2 Aztec 406 12 Ardra Road off Meridian Way Edmonton, London, N9 0BD

	In relation to containers other than those referred to in Summons 1, the transport of waste specified in Article 36(1)(b) of the European Waste Shipments Regulation 1013/2006 that was destined for recovery in Indonesia, a country to which the OECD Decision does not apply, contrary to Regulation 23 of the Transfrontier Shipment of Waste Regulations 2007.
Penalty imposed:	Fine of £1.5million, Environment Agency awarded costs of £153,827.99, proceeds of crime order of £38,388.
Outstanding appeals:	N/A
Additional information:	After the China Case, we significantly modified and upgraded our material recycling facility in question (Edmonton) and improved our processes. Such steps included:

- In 2017, we installed new automatic optical picking lines (at a cost of £6.5m) to specifically improve wastepaper quality.

- We increased our awareness campaigns and training with our customers (primarily local authorities) with the aim of reducing contamination levels of wastepaper arriving at Edmonton before we start to sort and process it.

- We increased the inspection routine on receipt of materials at Edmonton, with direct reporting back to customers of contamination found in their waste loads.

- We retrained our staff at Edmonton in relation to the picking and inspection of bales of wastepaper. All bales are checked prior to dispatch, and because they are tagged, identifying time and date, any issues with contamination are more identifiable and rectifiable.

As a result of such steps and our commitment to quality and compliance, we know that the wastepaper that we send for recycling (which is over 99% pure) is amongst the best in the UK. This is evidenced by data from the industry's MRF Code of Practice which gives Biffa a joint top ranking. It is therefore of great regret to us that, despite meeting the highest of industry standards, we have been convicted in the India and Indonesia Case. However, we fully recognise the implications of the judgment and we have taken steps to move our supply chain such that we no longer export wastepaper outside of the OECD.

We will continue to export wastepaper within the OECD because the UK does not have the infrastructure to recycle all of the wastepaper that householders and businesses send for recycling. This means that export of wastepaper is essential to avoid having to landfill or incinerate this valuable resource. While Biffa no longer exports wastepaper outside of the OECD, the industry overall has no choice but to do so.

A Post Conviction Plan has been prepared and will be submitted to the Agency in relation to this matter.

APPENDIX 11

Raw Materials Datasheet

RAW MATERIALS INVENTORY

RAW MATERIAL	FUNCTION	CHEMICAL NATURE / COMPOSITION	ADDITION RATE	FATE	POTENTIAL ENV. IMPACT	ALTERNATIVES	SIGNIFICANT ACCIDENT RISK	QUANTITY STORED
Nitrogen Gas	Inert Gas	Nitrogen Gas	To be confirmed when site is operational	Provides inert atmosphere within vape hammer mill.	Localised impact on air quality	No alternatives	Stored in pressurized container within vape processing machine.	To be Confirmed as of 27/11/2025
Oil and Grease	Lubricating plant and equipment/	Oils, greases and additives	As required by plant.	Combustion products to air, residue recycled	Localised impact on air quality	Similar products	Stored in appropriate container	N/A – Small Amounts