

Dust & Emissions Management Plan



Site Clear Solutions

12-13 Conduit Road, Norton Canes, Cannock, WS11 9TJ

January 2025

Ref: SCS.PT.DEMP.2501.v6

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1. INTRODUCTION

AC Environmental Consulting Ltd, on behalf of Site Clear Solutions, have prepared a Dust & Emissions Management Plan (DEMP) for the Site Clear Solutions site located on 12-13 Conduit Road, Norton Canes, Cannock, WS11 9TJ.

1.1 Site Location

The site is located on an industrial estate and is bordered to the north, south and west by additional industrial and commercial businesses with residential areas beyond. The east of the site is bordered by woodland and open fields with residential areas beyond. The site currently operates as a processing and storage facility for non-hazardous and hazardous waste in the Cannock area and has done so for several years. Previous uses of the site were for industrial/commercial purposes. There are no records/evidence of any pollution incidents on the site or near the site.

The Air Quality Management Area (AQMA) map from DEFRA has been checked and the site is located in a Nitrogen Dioxide (NO₂) Air Quality Management Area.

1.2 Site Operations

The site is designed to operate as a processing and storage facility for non-hazardous and hazardous waste. The site is operating under planning permission Ref: CH.19/01/778 W which was granted in March 2019. In August 2023, Site Clear Solutions Ltd obtained an Environmental Permit, reference EPR/WE4296AB/A001, and permits the site to accept up to 21,800 tonnes of waste per annum, of which no more than 3,050 tonnes per annum will be hazardous waste. The company also operates the site under the ISO9001 Quality system and the ISO14001 Environmental system. Each waste stream has its own processing/storage area within the building or external yard, with some wastes being stored in concrete bays. It is anticipated that tonnages will vary at an average of 70 tonnes per day. The site uses a variety of equipment and machinery including a baling machine (including conveyor), compacting and baling machines, cable granulation machine, polystyrene compacting machine, forklift trucks and an industrial jet washer. These items will only be used during operational hours.

Site Clear Solutions Ltd are seeking to vary the environmental permit to include the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of non-hazardous clinical waste. These wastes have primarily been getting sent to landfill, and occasionally for EfW incineration. However, installing an Advetec aerobic composting machine that utilises bio-stimulants, will enable rapid aerobic digestion of the organic matter found within the non-hazardous clinical waste, which will considerably reduce its volume and mass. The expected output (known as floc – a loosely clumped mass of particulate material) will be fit to use as Solid Recovered Fuel (SRF). The maximum quantity

of waste proposed for treatment by aerobic digestion is up to 8 tonnes per day, 2,440 tonnes per annum. The permit variation application seeks to allow the treatment of no more than 8 tonnes of non-hazardous waste per day, equating to 2,440 tonnes per annum.

Analysis on the feedstock has determined that there is sufficient organic matter and moisture for the aerobic biological process (composting) to work successfully. This has been further demonstrated through on-site trials with the feedstock with a site in Derby. The biological process is speeded up with the addition of bio-stimulants.

The biological process – composting – stays within expected composting parameters of temperature (no greater than 70 degrees and oxygen content of the waste). Under these conditions there is no breakdown of complex synthetic organic material, therefore posing no threat to human health or the environment. In essence is it's the same process as used in large scale aerobic composting or bio-drying Mechanical Biological Treatment Plants (MBTs), that accept this type of feedstock nappies etc. as part of the residual waste stream.

The site layout has been designed to enable efficient processing and storage of non-hazardous and hazardous waste. The central area of the site is kept free of wastes and materials. All equipment/vehicles when not in use, are stored outside of the permitted area away from stockpiles and plant. Mobile plant is stored in the mobile plant storage area in the building. The site is entirely surfaced with impermeable concrete and has a sealed drainage system draining via interceptor to a sewer. The site perimeter consists of a mixture of palisade fencing ranging between 1.8m and 2.1m in height, and concrete panel walls measuring 4m in height.

The site handles non-hazardous and hazardous waste which has been collected from various sources nationally. The waste is collected using their own transport and from outside contractors bringing the waste to the site. The waste is inspected upon arrival and if approved, it is transferred to the receiving area of the external yard. The hazardous waste includes WEEE, batteries, fluorescent tubes, paint, resin & solvents, adhesives, and aerosols & oil. The non-hazardous waste includes plasterboard, inert waste, paper, cardboard, scrap metal and plastic. Prior to unloading, the waste deliveries are inspected by site staff for non-conforming waste. If non-conforming waste is identified, it will be removed immediately from the load and transferred to the non-conforming waste bay, to the northwest of the external area, pending removal to a suitable permitted facility. If the non-conforming waste cannot be removed from the load, the entire load will be rejected and will be transferred to the non-conforming waste bay pending removal to a suitable permitted facility.

Waste is stored in stockpiles throughout the site that are allocated for waste streams including general waste, plastic, inert waste, paints and resins, plasterboard, clinical waste, copper and WEEE. Inside the building there is storage for WEEE and clinical waste. In the external yard, there are a variety of storage areas for waste in designated areas to the north, northwest, east, and central areas of the yard, where wastes will be stored in labelled containers in bays, or in 40 cyd skips, 40 cyd enclosed skip, and plasterboard waste is in a covered 8 cyd skip. The yard also has a quarantine area and a weighbridge. To the northwest of the external yard there is a chemistry laboratory. There are also two gas bottle cages, an empty bin/drum storage area, a canteen, and an overnight vehicle parking area in the external yard. The car park is situated along the western boundary.

The building comprises of several separate areas for both the processing and storage of waste. The main area of the building includes a WEEE processing area, the mobile plant storage area, balers and the office. It is crucial to note that balers are located internally, or externally under the covered bay, and they will not be used for hazardous waste. The hazardous waste is to be repackaged only. To the south of the building, there are several separate areas. The granulation and destruction areas are currently used for the granulation of copper wires. Once processed, the copper is stored in the area and the plastic is transferred to an assigned storage bay. The clinical waste transfer station is used for the sorting of clinical waste which is then stored in clinical waste wheelie bins or dedicated storage containers. The remaining areas of the building to the south consists of mezzanine storage, the traffic office, and the office and headquarters.

The range of waste accepted on site is in accordance with the Environmental Permit reference EPR/WE4296AB/A001, and planning permission Ref: CH.19/01/778W. Waste is stored in stockpiles on an impermeable surface with sealed drainage and is processed and stored for up to one month.

1.3 Potential for Emissions

Due to the types of waste accepted on site, there is the potential for dust to arise. Further information on the potential sources of dust can be found in section 3.2. All areas where vehicles and plant are operated are on a concrete surface. The current areas of hardcore surface will be converted to impermeable concrete prior to the commencement of site operations. Operating vehicles and plant on the concrete surface will prevent the potential for mud and therefore reduce the risk of material from being transferred onto the public highway by vehicles exiting the site. Any accumulation of dust on site will be removed by hand through sweeping or by using a mechanical sweeper as per the housekeeping measures within Section 5.

The permit variation application seeks to vary the environmental permit to include the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of non-hazardous clinical waste. The digestion unit is a full enclosed system and does not produce dust.

The waste, prior to being fed into the digestion unit, will be loaded into a hopper which connects to a shredder, both of which will be located externally, in the yard. The shredder will be located parallel to the Advetec XO22 aerobic digester. The Untha RS40-1000 shredder will shred the waste into 50mm particle size, the shredded waste is then augered into the digester. The Untha RS40-1000 shredder has been designed to produce low noise and dust pollution with its low speed cutting shafts.

The by-products of the aerobic digestion system include water vapour, carbon dioxide, condensate, which are vented to the air, and a post-process residue (floc, i.e. a loosely clumped mass of particulate material). The entire aerobic digestion process takes approximately 72 hours to complete. There are no pumps or pipework associated with this process other than the outlet vents which are stainless steel 304 attached to external plastic vent stacks. There will be two point source emissions to air from the aerobic digester, which are these vents. The process maintains a level of moisture within the system, which minimises the potential for dust.

The 2 vent stacks on the XO22 are located at the outfeed end of the process. Each vent is 150mm diameter, the top of the vent is at a height of approximately 4.4M above the adjacent ground level. Fresh air is introduced into the aerobic process by a pair of externally mounted fans on the infeed end of the XO22. These fans run in a Duty/Standy configuration where they switch over from fan to fan at a predetermined set point of typically 1-hour intervals. The operation of the fan is monitored by the system and a fan failure is sent out as an alert condition through the cloud-based monitoring system. The flow rates from each outlet vent can be seen in Appendix G. Additionally, there is an in-line gas monitoring system that continuously monitors levels of methane (CH4), carbon monoxide (CO), volatile organic compound (VOCs) and sulphur dioxide (SO2) leaving the vents. In the unlikely event of detection of any of these parameters, an alarm is raised.

Post process Floc will be collected and stored in a 40 cubic yard compactor, externally, which, when nearing capacity, arrangements will be made for the compactor to be swapped with an empty one, and the full one will be transported off site.

There are no other expected emissions to be produced on site.

1.4 Emissions Prevention

The operations will be governed by conditions attached to the Environmental Permit, reference EPR/WE4296AB/A001 and planning permission Ref: CH.19/01/778W which has been granted. Abatement measures include the use of hoses, manual and mechanical sweeping, and the covering of any exposed stockpiles with tarpaulin as per the housekeeping measures within Section 5. As part of a management procedure, daily inspections take place, and where visible accumulations of dust are present, road sweepers shall be employed to sweep the highway. Further detail on these measures is provided within Section 5.

The site's concrete surface makes it easy to clean regularly in accordance with the cleaning schedule provided in Appendix B using a manual or mechanical sweeper if any accumulation of dust becomes visible. The easily maintained concrete surface prevents the build-up of potential dust, mud, and debris, therefore reducing the risk of material being transferred to the public highway by vehicles exiting the site. The means of prevention discussed are based on existing site management procedures and the planning permission guidance. Further details on emission control and maintenance can be found in Table 3.1 and 3.2.

1.5 Purpose of DEMP

The purpose of this document is to meet the requirements of and reassure the Environment Agency that the potential for dust produced from the site's operations is mitigated and controlled in every possible way.

The DEMP has been prepared with the aim of obtaining a variation to the environmental permit to allow for a recycling and storage facility for non-hazardous and hazardous waste, including the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of non-hazardous clinical waste at 12-13 Conduit Road, Norton Canes, Cannock WS11 9TJ.

The audience of this document is the planning authority and Environment Agency for approval, and the operational staff on site. The document will be made available to the on-site operational staff by being stored in the site office and online. Also, staff will be trained in the requirements of the DEMP via toolbox talks.

1.6 Sensitive Receptors

The site has various sensitive receptors nearby that may be vulnerable to dust emissions. They are referred to as sensitive receptors due to them being in areas where the occupants are more susceptible to the adverse effects of exposure to high levels of dust and particulates. These receptors include residential, commercial, and industrial premises. However, due to the scale and activities

carried out at the site, the likelihood of dust pollution is deemed to be low. The risks are mitigated on site by having various measures in place, therefore the nearby receptors are not vulnerable to dust pollution. During any incident, receptors will be notified via phone call or by operatives knocking on doors and informing them of the incident and advising them to remain indoors. Their distances to the working area and their sensitivity to dust emissions is shown in Table 1.1.

The nearest residential housing is approximately 243m to the west on Walsall Road (B4154) and 245m to the east on Beaumont Way, which have the highest sensitivity to dust emissions due to their close proximity to the site. There are two schools and one nursery within the vicinity of the site; Jerome Primary School that is located approximately 530m to the northwest, Honeybuns Nursery situated approximately 443m to the northwest and Norton Canes Primary Academy approximately 770m to the northeast of the site. A medical centre named Norton Canes Medical Centre is situated approximately 355m to the northeast. There are also various designated sites within 1km of the site. The site is situated approximately 877m to the west of the SSSI Chasewater and the Southern Staffordshire Coalfield Heaths, 1km to the north of Cannock Extension Canal SSSI and SAC, 367m to the north of a Local Wildlife Site (LWS) and is immediately adjacent to a Protected Habitats site that is located to the east and southeast of the site.

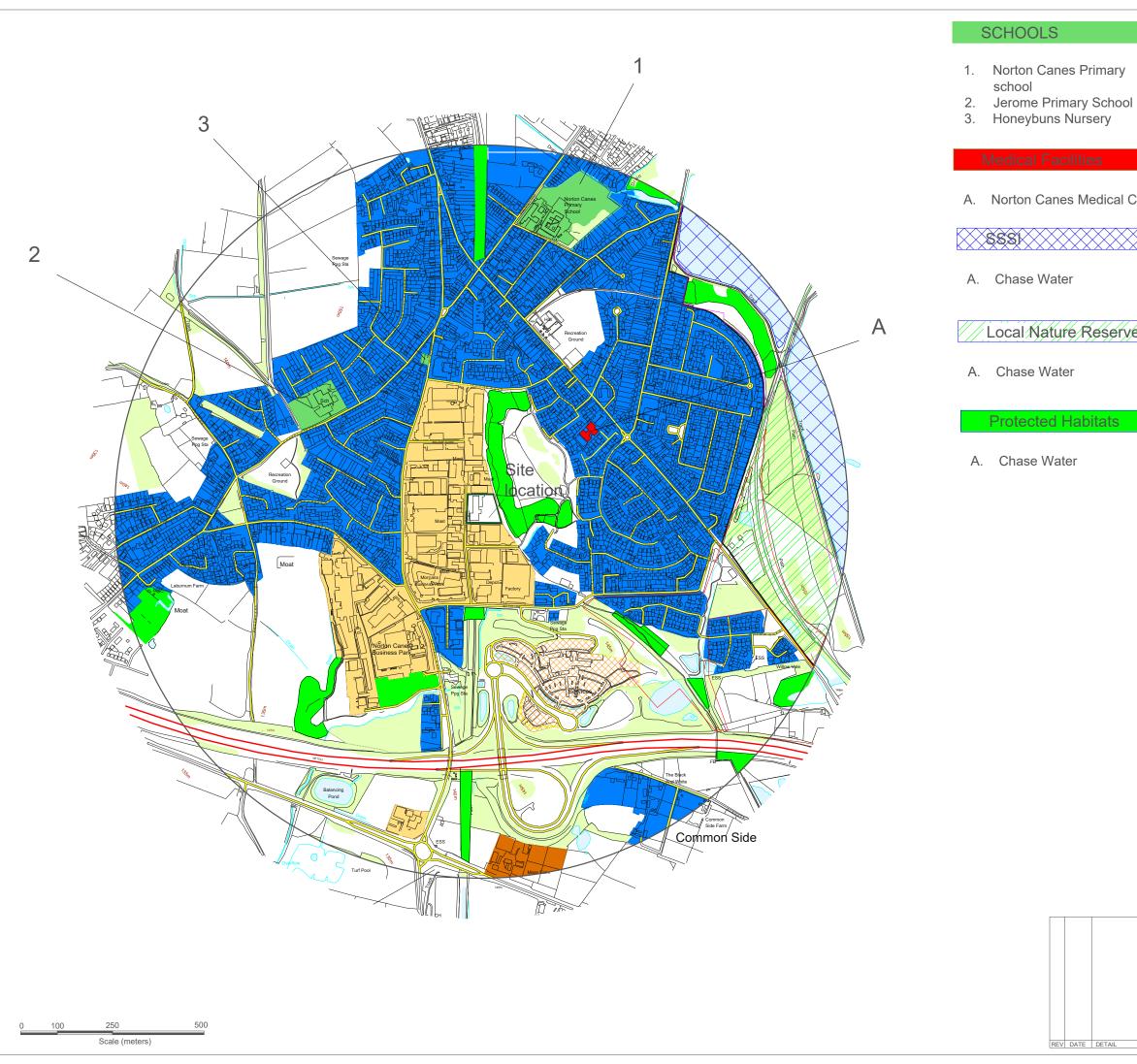
Due to the nature of the operations on site, the greatest proportion of dust emitted is largely deposited within 100m of the dust source. It is important to note that none of the receptors are within a 100m range of the site. As stated by the Guidance on the Assessment of Mineral Dust Impacts for Planning 2016, it is acknowledged that the greatest impacts from dust emissions will be within 100m of the source, referring to both small and large dust particles. This indicates that none of the receptors will be greatly impacted by any potential dust producing operation on the site. The less dense dust material only reaches a maximum of 500m, meaning the receptors beyond 500m of the site are at a very low risk of being impacted by fine dust. The map displaying the locations of the sensitive receptors is shown in Figure 1.1. There are also other dust producing operations occurring close to the residential housing, including numerous auto repair shops, a builder's merchants, a hardware shop and the M6 Toll.

Additional receptors not considered sensitive within the 1000m radius include a church located approximately 650m to the north. Also, there is a community centre situated approximately 525m to the northeast and additional recreational facilities such as bars, restaurants and pubs to the north. Chase water and fields surround the area up to the 1000m range. These receptors have not been identified as sensitive due to them being located beyond 500m of the site, therefore being at very low risk of impact from potential dust emitted from the site.

There are no other expected emissions to be produced on site besides dust. The operations on site will not cause the receptors positioned further away from the site to be given greater consideration in terms of dust impacts. There are no factors that would cause a receptor close to the site not to be considered a receptor. There are however other sources of dust close to some of the receptors, including numerous auto repair shops, a builder's merchants, a hardware shop and the M6. Detail on the other potential local sources of dust is given in Table 1.2.

A wind rose for Norton Canes, shown in Figure 1.2, indicates that the prevailing winds blow from the southeast which suggests that the receptors situated to northwest will be the most impacted by potential dust.

Figure 1.1 Nearby Sensitive Receptors



A. Norton Canes Medical Centre



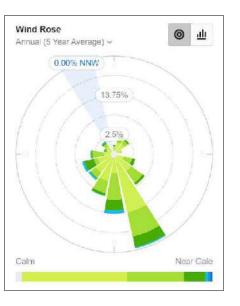
Local Nature Reserve



AC ENVIRONMENTAL

Environment House Werrington Road Stoke-on-Trent ST2 9AF





Local Nature Reserve

SSSI

Motorway service station

Educational Facilities

Industrial/ Commercial

Residntial

Medical Facilities

Motorway Roads

SITE CLEAR SOLUTIONS

12-13 Conduit Road Norton Canes Cannock WS11 9TJ



PERMIT APPLICATION

KEY RECEPTOR PLAN

SCALE @A3	DATE	DRAWN BY	CHECKED BY	
1:10000	Mar 2025	T Kearns	D Alcock	
	DRAWING NO		REVISION	
	230327	230327SCS103		

25%

Figure 1.2 Wind rose showing the average wind direction and strength at Site Clear Solutions



Table 1.1 Distances to selected, representative sensitive locations

Boundary	Closest property	Approximate distance to Site Clear Solutions site boundary (m)
East	Residential houses on Beaumont Way	245
West	Walsall Road	243
Northwest	Jerome Primary School	530
Northwest	Honeybuns Nursery	443
Northeast	Norton Canes Primary Academy	770
Northeast	Norton Canes Medical Centre	335
East	Chase Water SSSI	877
South	Cannock Extension Canal SSSI and SAC	1,000
South	Local Wildlife Site	367
East and Southeast	Norton Canes Protected Habitats	0

Table 1.2 Sources of Dust and/or other Emissions

Company	Address	Type of Business	Distance from Site Clear Solutions site boundary (m)
M6 Toll Motorway	South of the site	Motorway	670
AER Stafford	Bellsize Close, Norton Canes	Plastic products supplier	260
Norbert Dentressangle	Bellsize Close, Norton Canes	Transport Company	240

XPO Logistics	Bellsize Close,	Storage facility	220
8	Norton Canes		
	Norton Canes		
Jointing Technologies	Bellsize Close,	Utilities Contractor	195
Ltd	Norton Canes		
	Troncom cames		
Synatel	Walsall Road,	Electronics	210
Instrumentation	Norton Canes	Manufacturer	
Brownhills Asphalt	Walsall Road,	Groundwork,	175
Tarmac Limited	Norton Canes	property	
		maintenance and	
		surfacing	
VMTP Midlands Ltd	Conduit Road,	Car repairer	115
	Norton Canes		
Javas & Daddinatas	Conduit Dood	Duildon	105
Joyce & Reddington	Conduit Road,	Builder	105
	Norton Canes		
Midland Air Tools	Walsall Road,	Pneumatic tools	220
	Norton Canes	supplier	
	Troncom cames	Supplie.	
Fluid Technologies	Walsall Road,	Industrial equipment	175
	Norton Canes	supplier	
Trust Automotive	Walsall Road,	Vehicle Repair Shop	175
	Norton Canes		
RLS Tooling Ltd	Walsall Road,	Tool manufacturer	135
KES TOOMING Eta	Norton Canes	1001 manaractarer	133
	Norton Canes		
TGI Corporation	Conduit Road,	Clothes and Fabric	0
	Norton Canes	wholesaler	
Lindale Building	St James House,	Electrician	0
Services Ltd	Conduit Road		
Autosmart	Walsall Road,	Cleaning products	210
International Ltd	Norton Canes	supplier	

R A Auto Repairs	Conduit Road,	Vehicle repair shop	60
·	Norton Canes		
Rimac Fabrications Ltd	Conduit Road,	Flooring contractor	70
	Norton Canes		
Norton Gates &	Conduit Road,	Manufacturer	70
Fencing Fabrication	Norton Canes		
Halas Deadwate	Walsall Bood	Handware also a	100
Halco Products	Walsall Road,	Hardware shop	190
	Norton Canes		
West Midland	Conduit Road,	Vehicle inspection	90
Transmission	Norton Canes		
J P Autobodies	Conduit Road,	Vehicle repair shop	75
J F Autoboules	Norton Canes	venicle repair snop	73
	Norton Carles		
Chase Tyres Specialists	Conduit Road,	Tyre shop	95
Ltd & MOT Centre	Norton Canes		
Wilkes Distribution	Conduit Road,	Transportation	100
Services	Norton Canes	service	
DG Automotive	Conduit Road,	Vehicle repair shop	110
	Norton Canes		
HBL Plastics	Conduit Road,	Plastic injection	140
	Norton Canes	moulding service	
Tube Polishing &	Conduit Road,	Metal finisher	130
Engineering	Norton Canes		
Midlands Nautique	Walsall Road,	Marine Broker	175
	Norton Canes		
SV Direct	Potty Lana Narta	Manufactura	225
SK Direct	Bettys Lane, Norton	Manufacturer	235
	Canes		
Redmore (UK) Ltd	Bettys Lane,	Machine shop	215
	Cannock		

Ranton Building Conduit Road, Building materials 220 Supplies Ltd Norton Canes supplier Redirack Bettys Lane, Norton Canes Stakapal Limited Bettys Lane, Norton Canes Sunstore Ltd Bettys Lane, Norton Manufacturer 245 Sunstore Ltd Bettys Lane, Norton Medical supply store 260 Canes John Horton Plant Hire Rolling Mill Road, Industrial equipment supplier Affordable Fencing Walsall Road, Norton Canes The Brock Metal Co Ltd Walsall Road, Norton Canes Metal supplier 350 Metal supplier 350	
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Norton Canes The Brock Metal Co Ltd Walsall Road, Metal supplier 350	
The Brock Metal Co Ltd Walsall Road, Metal supplier 350	
Norton Canes	
Industrial Coating Rolling Mill Road, Painting 330	
Services Norton Canes	
Central Milled Lead Rolling Mill Road, Manufacturer 380	
Norton Canes	
Edmondson Racing Rolling Mill Road, Mechanical 345	
Norton Canes engineering	
Premier Platforms Rolling Mill Road, Industrial equipment 380	
Norton Canes supplier	
Norton Aluminium Ltd Norton Green Lane, Aluminium supplier 390	
Norton Canes	
Stainless Metal Norton Green Lane, Steel stockholder 330	
Solutions Norton Canes and supplier	

G Mech Fabrications	Norton Green Lane,	Steel fabricator	400
Ltd	Norton Canes		
Owen Autobodies Ltd	Norton Green Lane,	Car body shop	575
	Norton Canes		

2. OPERATIONS AT SITE CLEAR SOLUTIONS

2.1 Waste Deliveries to Site Clear Solutions

Waste is collected from customer's premises in the site's own vehicles and delivered to the site using their own vehicles. Third party contractors' vehicles are also used for waste deliveries. These particular vehicles and their emissions ratings are provided in table 2.1 below, although the list is subject to change over time. Further detail on the waste accepted on site, the onsite processes and their destinations within the facility are shown in Table 2.2 and Figure 2.1.

Table 2.1 Waste delivery vehicles and emissions ratings

Group	Make	Model	Emissions
HGV	MAN	TGL 12.220	Euro 6
HGV	MAN	TGM 18.250	Euro 6
HGV	DAF	CF	Euro 6
Vans	MERCEDES	SPRINTER	221
Vans	RENAULT	MASTER	323
Vans	RENAULT	MASTER	323
Vans	RENAULT	MASTER	236
Vans	RENAULT	MASTER	236
Vans	RENAULT	MASTER	236
Vans	RENAULT	MASTER	236
Vans	MERCEDES	SPRINTER	244
Vans	MERCEDES	SPRINTER	244
Yard/Office	JCB	Forklift	n/a
Yard/Office	Toyota	Forklift	n/a
Yard/Office	Yale	Forklift	n/a
Welfare Van	MERCEDES	SPRINTER	210
Directors	Volvo	XC90 hybrid	63
Directors	Lotus	Eletre	0

Waste consists of a variety of non-hazardous waste, including plastic, inert waste, plasterboard, bagged 'offensive' clinical waste, scrap metal, cardboard and paper, and a range of hazardous waste including WEEE and clinical waste. Further detail on the waste accepted on site, the onsite processes and their destinations within the facility are shown in Table 2.2 and Figure 2.1. All waste is delivered to site in vehicles that are sealed or sheeted. In the absence of a wheel wash, if required, vehicles will be dampened down using the onsite hoses upon arrival and before exiting the site. The main source of water is mains water, however there are also two IBC containers filled with water present on site which can be used in the event of a drought or a hose ban.

Drivers are required to inspect loads prior to uplift and the checks include load security, potentially dangerous wastes, and hot loads. If a load is deemed to present a risk, then the driver reports this to site management who will advise the customer that the load cannot be collected and the reasons for that.

Loads are also inspected at the site by site staff prior to tipping. Loads being tipped are also supervised so that any issues which were hidden and not identified prior to tipping can be seen. The aim of this is to ensure that a problematic load is not tipped and allowed to stand for a period of time, potentially allowing dust and emissions to accumulate. Prior to tipping an accepted load, the load can be dampened down with a hose to reduce the risk of dust becoming airborne and exceeding the height of the boundary walls and being carried on the breeze. Loads are checked to ensure the following criteria is met:

- i) EWC Code on the waste transfer note conforms to the waste inside the container.
- ii) Permit waste acceptance criteria waste meets with the criteria of the environmental permit and the planning permission for example, waste accepted would be within the permissible tonnage and waste type acceptance criteria.
- iii) The waste is not odorous waste is likely to be odorous if it has elements of putrescible waste and food residue.

If an issue is identified with non-conforming waste, the load shall be transferred to the quarantine area and site management alerted. Action taken may be to segregate and remove the problematic waste to a secure area or to sort the load, removing acceptable waste to recycling and to invite suitable qualified contractors to collect the problematic waste.

A driver induction will be conducted, and this briefing includes information on dust mitigation. Where possible incoming wastes should be pre-booked. However, in cases where waste is not pre-booked, a driver induction and waste acceptance procedure will be carried out. Waste accepted onto the site, whether pre-booked or not, will be visually inspected upon reception to the site in order to ensure that the waste is compliant with the site's permitted waste types and EWC Code description given by the produce/holder as listed on the waste transfer description.

Any wastes that do not comply with the site's permitted waste types shall be reloaded, rejected, and recorded in the rejection log.

There is one weighbridge on site where all vehicles will be weighed on arrival prior to tipping and on exit. All weights will be recorded and kept within the container office that is in the centre of both weighbridges. Further detail on this procedure can be found in the Site Management Plan.

In terms of records, Duty of Care notes, Waste Transfer notes are all kept. Additionally, input records consisting of EWC Codes as well as the source and quantity of the waste received will also be kept.

2.2 Overview of Waste Processing, Dust, and other Emission Controls

Processing operations within the building includes granulation, stripping and dismantling of WEEE, and baling. In the external yard, the hazardous processing area is located to the north-west of the yard, where hazardous wastes and laboratory smalls are repackaged. Once waste is accepted into the receiving area in the external yard, it is immediately transferred to the assigned processing areas, depending on waste stream. Once processed, the waste is moved to the assigned storage area according to waste stream. Storage areas include areas within the building, and several storage areas in the external yard consisting of 40cyd skips and concrete walled bays. Paper, cardboard and plastics are baled for efficient storage. It is crucial to note that the receiving area is the only temporary stockpile on site. The receiving area is emptied daily and the stockpile in this area will strictly remain 0.5m below the perimeter wall. Waste will be removed from this area within 24 hours. As shown on Drawing Ref: 230327SCS107, the receiving area has a visual dust monitoring position which will be inspected at the start and end of each working day during the site management inspections as per the housekeeping measures in Section 5.

The permit variation seeks to incorporate the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of no more than 8 tonnes of non-hazardous clinical waste per day, equating to 2,440 tonnes per annum. The XO22 digester will be located on the yard. Waste awaiting processing will be stored within the clinical waste transfer station which is bagged clinical waste in yellow bins. The volume of waste stored in this area is 73.2m3.

All waste processing areas and stockpile storage are situated on an impermeable concrete surface which is easy to clean with a sealed drainage system. The site surface will be cleaned using either manual or mechanical sweepers when there is the visible accumulation of dust or immediately following an incident as per the housekeeping measures in Section 5. The site access roads are constructed of tarmac which allows the easy and efficient removal of dust accumulations. There are concrete panel walls measuring 4m in height along the eastern and eastern corners of the perimeter which shield the stockpiles from the wind. The concrete perimeter walls, where there are designated areas used for the storage of hazardous and flammable waste, will also reduce the risk of the spread of dust through wind-whipping. It is ensured that all wastes are kept below 0.5m of the top of the concrete panel wall and the top of the bays at all times. All wastes stored in the concrete walled bays are stored on pallets or IBCs, which are covered using plastic, so this reduces the impact of the wind on the stockpiles. Plasterboard will be stored in a covered skip which will also reduce the risk of dust.

There is a receiving area within which waste is temporarily deposited before being transferred to designated processing areas. Further information on this operation can be found below. It is crucial to note that the position of the reception bay is protected from the prevailing wind directions so that it reduces wind-whipping of stockpile materials. The potentially dusty wastes brought to site are given in Table 2.2 below and their locations are shown on Drawing Ref: 230327SCS107.

Table 2.2 Potentially dusty wastes brought to Site Clear Solutions

EWC code	Description	Process	Destination within
			the facility
03 01 04*	Sawdust, shavings, cuttings, wood, particle board and veneer containing hazardous substances	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
03 01 05	Sawdust, shavings, cuttings, wood, particle board other than those mentioned in 03 01 04	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
06 13 02*	Spent activated carbon (except 06 07 02)	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
06 13 03	Carbon Black	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
06 13 05*	Soot	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
08 02 01	Waste coating powders	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Building
10 01 01	Bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	Hand picking and sorting of recyclables from input waste with the assistance of mobile plant.	Covered bay (in lidded containers)
10 01 02	Coal fly ash	Hand picking and sorting of recyclables from input waste with	Covered bay (in lidded containers)

		the assistance of	
		mobile plant.	
10 01 03	Fly ash from peat and	Hand picking and	Covered bay (in lidded
	untreated wood	sorting of recyclables	containers)
		from input waste with	·
		the assistance of	
		mobile plant.	
10 01 04*	Oil fly ash and boiler	Hand picking and	Covered bay (in lidded
	dust	sorting of recyclables	containers)
		from input waste with	
		the assistance of	
		mobile plant.	
10 01 05	Calcium-based	Hand picking and	Covered bay (in lidded
	reaction wastes from	sorting of recyclables	containers)
	flue-gas	from input waste with	
	desulphurisation in	the assistance of	
	solid form	mobile plant.	
10 01 13*	Fly ash from	Hand picking and	Covered bay (in lidded
	emulsified	sorting of recyclables	containers)
	hydrocarbons used as	from input waste with	
	fuel	the assistance of	
10 01 14*	5	mobile plant.	0 11 /: 1:11
10 01 14	Bottom ash, slag and	Hand picking and	Covered bay (in lidded
	boiler dust from co-	sorting of recyclables	containers)
	incineration	from input waste with	
	containing hazardous substances	the assistance of	
10 01 15	Bottom ash, slag and	mobile plant. Hand picking and	Covered bay (in lidded
100113	boiler dust from co-	sorting of recyclables	containers)
	incineration other	from input waste with	containers
	than those mentioned	the assistance of	
	in 10 01 14	mobile plant.	
10 01 16*	Fly ash from co-	Hand picking and	Covered bay (in lidded
	incineration	sorting of recyclables	containers)
	containing hazardous	from input waste with	
	substances	the assistance of	
		mobile plant.	
10 01 17	Fly ash from co-	Hand picking and	Covered bay (in lidded
	incineration other	sorting of recyclables	containers)
	than those mentioned	from input waste with	
	in 10 01 16	the assistance of	
		mobile plant.	
10 02 10	Mill Scales	Hand picking and	Covered bay (in lidded
		sorting of recyclables	containers)
		from input waste with	
		the assistance of	
		mobile plant.	
10 03 19*	Flue-gas dust	Hand picking and	Covered bay (in lidded
	containing hazardous	sorting of recyclables	containers)
	substances	from input waste with	

		the assistance of	
		mobile plant.	
10 03 20		Hand picking and	Covered bay (in lidded
	Flue-gas dust other	sorting of recyclables	containers)
	than those mentioned	from input waste with	
	in 10 03 19	the assistance of	
		mobile plant.	
10 03 21*	Other particulates and	Hand picking and	Covered bay (in lidded
	dust (including ball-	sorting of recyclables	containers)
	mill dust) containing	from input waste with	
	hazardous substances	the assistance of	
		mobile plant.	
10 03 22	Other particulates and	Hand picking and	Covered bay (in lidded
	dust (including ball-	sorting of recyclables	containers)
	mill dust) other than	from input waste with	
	those mentioned in 10	the assistance of	
	03 21	mobile plant.	
10 04 04*	Flue-gas dust	Hand picking and	Covered bay (in lidded
		sorting of recyclables	containers)
		from input waste with	
		the assistance of	
10.01.05*		mobile plant.	
10 04 05*	Other particulates and	Hand picking and	Covered bay (in lidded
	dust	sorting of recyclables	containers)
		from input waste with	
		the assistance of	
40.05.02*	El l l	mobile plant.	Consider Palental
10 05 03*	Flue-gas dust	Hand picking and	Covered bay (in lidded
		sorting of recyclables	containers)
		from input waste with	
		the assistance of	
10.05.04	Other particulates and	mobile plant.	Cavarad bay /in liddad
10 05 04	Other particulates and dust	Hand picking and	Covered bay (in lidded
	uust	sorting of recyclables from input waste with	containers)
		the assistance of	
		mobile plant.	
10.06.02*	Eluo gas dust	•	Covered bay (in lidded
10 06 03*	Flue-gas dust	Hand picking and sorting of recyclables	Covered bay (in lidded
		from input waste with	containers)
		the assistance of	
		mobile plant.	
10 06 04	Other particulates and	Hand picking and	Covered bay (in lidded
10 00 04	dust	sorting of recyclables	, .
	uust	from input waste with	containers)
		the assistance of	
		mobile plant.	
10 07 04	Other particulates and	Hand picking and	Covered bay (in lidded
200,04	dust	sorting of recyclables	• •
	4430	from input waste with	containers)

		the assistance of	
		mobile plant.	
10 08 04	Particulates and dust	Hand picking and	Covered bay (in lidded
		sorting of recyclables	containers)
		from input waste with	,
		the assistance of	
		mobile plant.	
10 08 15*	Flue-gas dust	Hand picking and	Covered bay (in lidded
	containing hazardous	sorting of recyclables	containers)
	substances	from input waste with	
		the assistance of	
		mobile plant.	
10 08 16	Flue-gas dust other	Hand picking and	Covered bay (in lidded
	than those mentioned	sorting of recyclables	containers)
	in 10 08 15	from input waste with	
		the assistance of	
10.00.00#	=1	mobile plant.	
10 09 09*	Flue-gas dust	Hand picking and	Covered bay (in lidded
	containing hazardous	sorting of recyclables	containers)
	substances	from input waste with the assistance of	
10 09 10	Flue-gas dust other	mobile plant.	Covered bay (in lidded
10 09 10	than those mentioned	Hand picking and sorting of recyclables	
	than those mentioned	from input waste with	containers)
		the assistance of	
		mobile plant.	
10 09 11*	Other particulates	Hand picking and	Covered bay (in lidded
	containing hazardous	sorting of recyclables	containers)
	substances	from input waste with	oontainers,
		the assistance of	
		mobile plant.	
10 10 12	Other particulates	Hand picking and	Covered bay (in lidded
	other than those	sorting of recyclables	containers)
	mentioned in 1 010 11	from input waste with	
		the assistance of	
		mobile plant.	
10 11 05	Particulates and dust	Hand picking and	Covered bay (in lidded
		sorting of recyclables	containers)
		from input waste with	
		the assistance of	
10 12 02	Double dates and direct	mobile plant.	Covered barries lister
10 12 03	Particulates and dust	Hand picking and	Covered bay (in lidded
		sorting of recyclables from input waste with	containers)
		the assistance of	
		mobile plant.	
10 13 06	Particulates and dust	Hand picking and	Covered bay (in lidded
10 10 00	(except 10 13 12 and	sorting of recyclables	containers)
	10 13 13)	from input waste with	containers)
	10 10 10 10		

		the assistance of	
		mobile plant.	
12 01 01	Ferrous metal filings	Hand picking and	Granulation area
	and turnings	sorting of recyclables	
	ana tarriings	from input waste with	
		the assistance of	
		mobile plant.	
12 01 02	Ferrous metal dust	Hand picking and	Granulation area
	and particles	sorting of recyclables	
	·	from input waste with	
		the assistance of	
12 01 03	Non-ferrous metal	mobile plant. Hand picking and	Granulation area
12 01 03	filings and turnings	sorting of recyclables	Granulation area
	mings and turnings	from input waste with	
		the assistance of	
		mobile plant.	
12 01 04	Non-ferrous metal	Hand picking and	Granulation area
	dust and particles	sorting of recyclables	
	·	from input waste with	
		the assistance of	
		mobile plant.	
12 01 05	Plastics shavings and	Hand picking and	Building
	turnings	sorting of recyclables	
		from input waste with	
		the assistance of	
15.01.01		mobile plant.	D 111:
15 01 01	Paper and cardboard	Hand picking and	Building
	packaging	sorting of recyclables from input waste with	
		the assistance of	
		mobile plant, then	
		baled.	
15 01 06	Mixed packaging	Hand picking and	Building and 40cyd
	1 0 0	sorting of recyclables	- ,
		from input waste with	skip in external yard
		the assistance of	
		mobile plant, then	
		baled.	
15 01 10	Packaging containing	Hand picking and	Enclosed 40 cyd skip
	residues of or	sorting of recyclables	
	contaminated by	from input waste with	
	hazardous substances	the assistance of	
		mobile plant, then baled.	
15 01 11	Metallic packaging	Hand picking and	Enclosed 40 cyd skip
13 01 11	containing a	sorting of recyclables	Lilciosed 40 cyd skip
	hazardous solid	from input waste with	
	porous matrix (for	the assistance of	
	example asbestos),	mobile plant, then	
	,//	baled.	

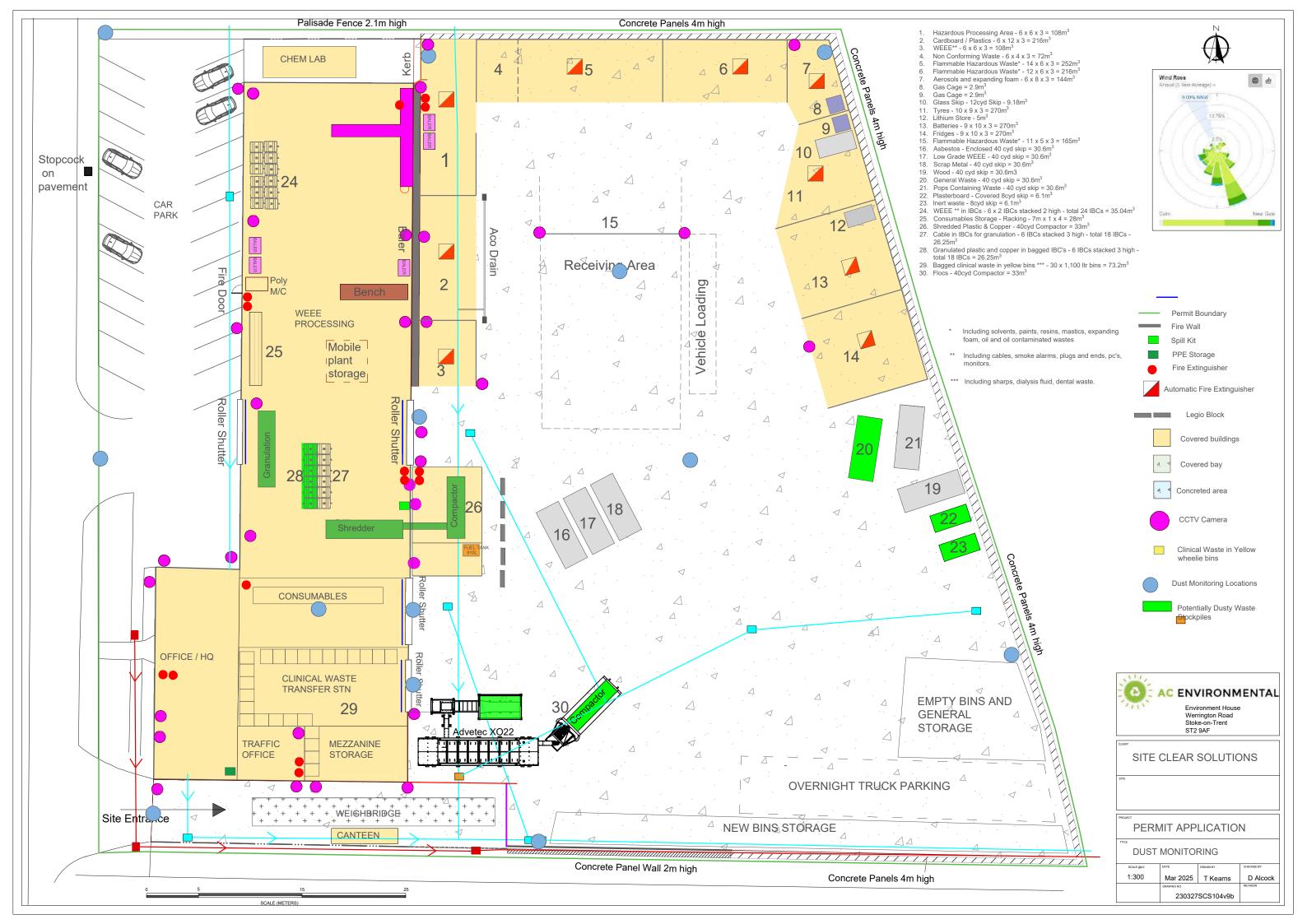
	including empty		
	pressure containers		
16 02 12	Discarded equipment	Hand picking and	Enclosed 40 cyd skip
	containing free	sorting of recyclables	
	asbestos	from input waste with	
		the assistance of	
		mobile plant.	
17 01 01	Concrete	Hand picking and	8 cyd skip
		sorting of recyclables	5 5 7 5 5 mp
		from input waste with	
		the assistance of	
		mobile plant.	
17 01 02	Bricks	Hand picking and	8 cyd skip
-/	2	sorting of recyclables	o o, a op
		from input waste with	
		the assistance of	
		mobile plant.	
17 01 03	Tiles and ceramics	Hand picking and	8 cyd skip
17 01 03	Thes and ceramics	sorting of recyclables	o cya saip
		from input waste with	
		the assistance of	
		mobile plant.	
17 01 07	Mixtures of concrete,	Hand picking and	8 cyd skip
17 01 07	bricks, tiles, and	sorting of recyclables	o cyu skip
	ceramics other than	from input waste with	
	those mentioned in 17	the assistance of	
	01 06	mobile plant.	
17 05 03	Soil and stones	Hand picking and	8 cyd skip
17 03 03	containing hazardous	sorting of recyclables	o cyu skip
	substances	from input waste with	
	Substances	the assistance of	
		mobile plant.	
17 05 04	Soil and stones other	Hand picking and	8 cyd skip
17 03 04	than those mentioned	sorting of recyclables	o cyu skip
	in 17 05 03	from input waste with	
	111 17 03 03	the assistance of	
		mobile plant.	
17.05.05	Drodging spoil	·	9 and chip
17 05 05	Dredging spoil	Hand picking and sorting of recyclables	8 cyd skip
	containing hazardous substances	from input waste with	
	Substances	the assistance of	
17 05 06	Drodging speil other	mobile plant.	0 and akin
17 03 00	Dredging spoil other than those mentioned	Hand picking and	8 cyd skip
		sorting of recyclables	
	in 17 05 05	from input waste with the assistance of	
17.05.07	Trook ballast	mobile plant.	مربط مانات
17 05 07	Track ballast	Hand picking and	8 cyd skip
	containing hazardous	sorting of recyclables	
	substances	from input waste with	

		the assistance of	
17.05.00	Track ballast other	mobile plant.	O as al alain
17 05 08	than those mentioned	Hand picking and sorting of recyclables	8 cyd skip
	in 17 05 07	from input waste with	
	111 17 03 07	the assistance of	
		mobile plant.	
17 06 01	Insulation materials	Hand picking and	Enclosed 40 cyd skip
	containing asbestos	sorting of recyclables	
		from input waste with	
		the assistance of	
		mobile plant.	
17 06 03	Other insulation	Hand picking and	8 cyd skip
	materials consisting of	sorting of recyclables	
	or containing	from input waste with	
	hazardous substances	the assistance of	
17.00.01		mobile plant.	
17 06 04	Insulation materials	Hand picking and	Covered 8 cyd skip
	other than those mentioned in 17 06 01	sorting of recyclables	
	and 17 06 03	from input waste with the assistance of	
	and 17 00 03	mobile plant.	
17 06 05	Construction materials	Hand picking and	Enclosed 40 cyd skip
17 00 03	containing asbestos	sorting of recyclables	Enclosed 40 cyd skip
	90	from input waste with	
		the assistance of	
		mobile plant.	
17 08 01	Gypsum-based	Hand picking and	Covered 8 cyd skip
	construction materials	sorting of recyclables	
	contaminated with	from input waste with	
	hazardous substances	the assistance of	
47.00.00		mobile plant.	
17 08 02	Gypsum-based	Hand picking and	Covered 8 cyd skip
	construction materials	sorting of recyclables	
	other than those mentioned in 17 08 01	from input waste with the assistance of	
	mentioned in 17 08 01	mobile plant.	
17 09 04	Mixed construction	Hand picking and	8 cyd skip
1, 05 04	and demolition wastes	sorting of recyclables	o cya ship
	other than those	from input waste with	
	mentioned in 17 09	the assistance of	
	01, 17 09 02 and 17 09	mobile plant.	
	03		
19 01 10*	Spent activated	Hand picking and	Covered bay (in lidded
	carbon from flue-gas	sorting of recyclables	containers)
	treatment	from input waste with	
		the assistance of	
19 01 11*	Rottom ash and slag	mobile plant.	Covered hay lin lidded
19 01 11.	Bottom ash and slag containing hazardous	Hand picking and sorting of recyclables	Covered bay (in lidded
	substances	from input waste with	containers)
	วนมริเสทีเยร	nom input waste with	

		the assistance of	
10.04.42	Dattara ask and slav	mobile plant.	Carraged harrilla lidded
19 01 12	Bottom ash and slag other than those	Hand picking and sorting of recyclables	Covered bay (in lidded
	mentioned in 19 01 11	from input waste with	containers)
	mentioned in 19 01 11	the assistance of	
		mobile plant.	
19 01 13*	Fly ash containing	Hand picking and	Covered bay (in lidded
15 01 15	hazardous substances	sorting of recyclables	, ,
	nazaraous substances	from input waste with	containers)
		the assistance of	
		mobile plant.	
19 01 14	Fly ash other than	Hand picking and	Covered bay (in lidded
	those mentioned in 19	sorting of recyclables	containers)
	01 13	from input waste with	containers
		the assistance of	
		mobile plant.	
19 01 15*	Boiler dust containing	Hand picking and	Covered bay (in lidded
	hazardous substances	sorting of recyclables	containers)
		from input waste with	,
		the assistance of	
		mobile plant.	
19 01 16	Boiler dust other than	Hand picking and	Covered bay (in lidded
	those mentioned in 19	sorting of recyclables	containers)
	01 15	from input waste with	
		the assistance of	
10.00.01		mobile plant.	
19 09 04	Spent activated	Hand picking and	Covered bay (in lidded
	carbon	sorting of recyclables	containers)
		from input waste with the assistance of	
		mobile plant.	
19 10 03	Fluff-light fraction and	Hand picking and	Building
13 10 03	dust containing	sorting of recyclables	Dullullig
	hazardous substances	from input waste with	
	nazaraous substances	the assistance of	
		mobile plant.	
19 10 04	Fluff-light fraction and	Hand picking and	Building
	dust other than those	sorting of recyclables	
	mentioned in 19 10 03	from input waste with	
		the assistance of	
		mobile plant.	
19 12 09	Minerals (for example	Hand picking and	8 cyd skip
	sand, stones)	sorting of recyclables	
		from input waste with	
		the assistance of	
		mobile plant.	
20 01 41	Wastes from chimney	Hand picking and	Covered bay (in lidded
	sweeping	sorting of recyclables	containers)
		from input waste with	11 11 11 11 11 11

		the assistance of	
		mobile plant.	
20 03 03	Street-cleaning	Hand picking and	40cyd skip in external
	residues	sorting of recyclables	a mad
		from input waste with	yard
		the assistance of	
		mobile plant.	





The site has planning permission to handle up to 21,800 per annum, of which no more than 3,050 tonnes per annum will be hazardous waste. The site layout has been designed to enable efficient recycling of the permitted non-hazardous and hazardous waste and incorporates various processing and storage areas.

The site aims to accept a variety of waste in line with the permit including hazardous and non-hazardous waste. The hazardous waste includes WEEE, batteries, fluorescent tubes, paint, resin & solvents, adhesives, aerosols & oil, clinical waste, asbestos and gas bottles. The non-hazardous waste includes plasterboard, inert waste, bagged 'offensive' clinical waste, scrap metal, paper, and cardboard. The waste is brought onto site using the site's own vehicles and third party contractors. Prior to unloading, the waste deliveries are inspected by site staff for non-conforming waste. If non-conforming waste is identified, it will be removed immediately from the load and transferred to the non-conforming waste bay to the northwest of the external area pending removal to a suitable permitted facility. If the non-conforming waste cannot be removed from the load, the entire load will be rejected, and will be transferred to the non-conforming waste bay pending removal to a suitable permitted facility.

The various waste types stated in the previous section will be accepted from different sources and stored in designated areas, concrete walled bays and 40cyd skips in the external yard. Material will be weighed at the weighbridge located near the site entrance along the southern side of the unit building. Upon arrival, waste will be transferred to the receiving area which is located to the north of the external yard to be sorted by hand and with the assistance of mobile plant. Once sorted, the waste is transferred to the building for processing according to waste stream. Processing on site includes granulation, stripping and dismantling of WEEE, and baling. It is crucial to note that the granulation process will be enclosed within the granulation area of the building. Once processed within the building, the majority of waste is then stored in one of the assigned storage areas in the external yard which include the 40cyd skips. Copper from the granulation processing is stored within the building and clinical waste is stored within the clinical waste transfer station in yellow clinical waste wheelie bins.

The perimeter walls of the site and the concrete bays act as a dust shield. The accepted wastes are not dusty in nature, except general waste which can be dusty. The processing of the cable on site, including granulation and stripping, can produce dust, though cable processing occurs only inside the building.

The shredding of the bagged offensive non-hazardous waste, prior to it being fed into the digester can also produce dust, however, the shredders low speed cutting shafts minimise dust and noise from this

operation.

When accumulations of dust become visible, or immediately following an incident, the manual use of onsite hoses to dampen stockpiles and surfaces further prevents the spread of dust across the site and to neighbouring properties. On arrival and prior to tipping in the reception bay, the onsite hoses are used to spray loads with visible accumulations of dust to minimise the risk of a spread of dust and particulates when tipping. There is also an industrial jet wash on site that will be used on vehicles with visible accumulations of dust, debris, and mud as per the housekeeping measures in Section 5.

2.3 Mobile Plant and Equipment

The Air Quality Management Area (AQMA) map from DEFRA has been checked and the site is located in a Nitrogen Dioxide (NO₂) Air Quality Management Area. Nitrogen dioxide gas is a by-product of internal combustion engines and the site uses several items of plant with internal combustion engines. The following table lists the type, model and emissions rating for the mobile plant and equipment used on site:

Description	Make	Model	Emission Rating
Forklift Trucks	Toyota	Telescopic Lift Truck	Tier 4
Handler	JCB	JCB Wastemaster	Tier 4
Forklift Trucks	Yale	Forklift Truck	Tier 4

The Cannock Chase Council Air Quality Action Plan was produced in November 2013 and sets out targets on how to monitor and reduce emissions to improve air quality in the area. The site's location is beneficial as it provides a valued processing and storage facility for non-hazardous and hazardous waste in the local area and is situated within a purpose built industrial estate surrounded by similar operations. The site is also within 700m of the M6 toll road and the A5 which provides major transport links, reducing the need for site vehicles to take alternative longer routes, therefore reducing emissions produced.

A speed limit of 5mph will be strictly adhered to on site at all times and there will be no idling of plant or vehicles when not in use. It is crucial to note that the site is located on a purpose built industrial estate and is surrounded by additional industrial and commercial properties with the M6 toll motorway running approximately 670m to the south. Surrounding receptors also contributing to the release of NO₂ include the M6 toll motorway, Ranton Building Supplies, Marcote UK Ltd Industrial Coatings, and DG Automotive.

Plant machinery will be maintained by the supplier and will be serviced in accordance with the manufacturer's specifications and recommendations with a LOLER being performed annually. Plant will be cleaned down at the end of the working week. Defect checks will be performed daily by the user of the plant machinery and any defects noted will be recorded on the defect form and the repair will be arranged with the supplier.

In the event of a breakdown, either of vehicles, plant or machinery, a contingency process is followed which involves options such as fixing the item internally, covering the broken down item with a replacement, hiring a supplier to fix the item and renting additional equipment. If none of these options are suitable, operations may have to cease on site and the relevant affected parties will be contracted immediately with a date of when operations can continue. If replaced, the item will be replaced with the lowest emission standard possible at the time of purchase. Both ultra-low and low sulphur fuels are used. Breakdowns will be recorded, and the Environment Agency will be contacted with the nature of the problem and when it is expected for the site to return to normal operations.

Staff are trained on induction and are given refresher training at least annually via toolbox talks. Visitor driver inductions are given to inform them of all dust mitigation measures they can undertake. Control measures are in place to reduce emissions include the strong enforcement of a ban on idling site vehicles and plant.

3. DUST AND PARTICULATE (PM₁₀) MANAGEMENT

3.1 Responsibility for Implementation of the DEMP

The site manager will exercise day-to-day control of the site, either personally or by delegation to suitably trained and responsible staff. The site manager will be responsible to the satisfactory working of the site and for ensuring compliance with the DEMP.

Daily records will be kept at the start of operations and again in the middle of the working day. The records will be kept on site for a minimum of two years and will be made available on request for inspection by the relevant authorities.

Staff at all levels will receive the necessary training and instruction in their duties relating to all operations and the potential sources of dust emissions. Particular emphasis will be given to plant and equipment malfunctions and abnormal conditions.

Staff are trained on induction and given refresher training at least annually via toolbox talks.

Site Management will ensure that external hauliers and other visitors are aware of the need to comply with the provisions of this site plan so far as they are relevant to their activities on site.

Any member of staff who fails to comply with the provisions of the DEMP will be retrained as necessary. External hauliers and other visitors failing to observe the requirements of the plan will be asked to leave the site.

The DEMP will be reviewed annually or in response to an incident.

3.2 Sources and Control of Fugitive Dust/Particulate Emissions

3.2.1 Sources of Potential Emissions

The principal dust sources anticipated would be from waste sorting, processing, loading and tipping operations and site transport, which may also raise visible dust. Processing operations including cable granulation, cable stripping, dismantling off WEEE, and baling occurs within the enclosed building. The risk of the spread of dust from these activities is therefore highly unlikely. The repackaging of hazardous wastes occurs in a covered bay, and the nature of the materials means that the spread of dust from this is unlikely.

The permit variation application seeks to vary the environmental permit to include the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of non-hazardous clinical waste. As identified in Section 1.3, the digestion unit is a full enclosed system and does not produce dust,

The waste, prior to being fed into the digestion unit, will be loaded into a hopper which connects to a shredder, both of which will be located externally, in the yard. The Untha RS40-1000 shredder will shred the waste into 50mm particle size, the shredded waste is then augered into the digester. The Untha RS40-1000 shredder has been designed to produce low noise and dust pollution with its low speed cutting shafts.

The by-products of the aerobic digestion system include water vapour, carbon dioxide, condensate, which are vented to the air, and a post-process residue (floc, i.e. a loosely clumped mass of particulate material). The entire aerobic digestion process takes approximately 72 hours to complete.

Post process Floc will be collected and stored in a 40 cubic yard compactor, externally, which, when nearing capacity, arrangements will be made for the compactor to be swapped with an empty one, and the full one will be transported off site.

Windblown dust emissions may also occur when moderate to high winds blow across materials in stockpiles. The concrete panel wall along the eastern boundary and sections of the northern and

southern boundary reaches a height of 4m. This wall will also protect against prevailing winds reaching the external stockpiles and therefore reduce the risk of wind-whipping of dust from outdoor stockpiles and vehicle movements and the spread of dust to nearby sensitive receptors including the Norton Canes protected habitat and residential properties. Loose materials are kept to an absolute minimum and all wastes are stored in labelled containers in concrete walled bays, or in skips.

The external stockpiles will not increase the risk of emissions as they are appropriately positioned within bay walls and the stockpile height will strictly remain 0.5m below the height of the bay walls. Site management will undertake inspections at the start and end of each day to ensure there is no accumulation of dust. As stated within Section 3.6, any exposed external stockpiles will be covered with tarpaulin at the end of each day to ensure out of hours emission prevention. During windy and dry weather, following a weather forecast check, any dusty and exposed external stockpiles will be dampened and covered with tarpaulin.

The moisture content of stockpiles of potentially dusty and dusty wastes will be controlled to prevent the material becoming friable through dampening down the stockpiles on a weekly basis, immediately in response to an incident or during windy/dry weather as per the housekeeping measures in Section 5.

Typically, the greatest proportion of dust emitted from any site operations is largely deposited within 100m of the source as stated in The Guidance on the Assessment of Mineral Dust Impacts for Planning 2016. It is beneficial to note that the main sensitive receptors, detailed in Section 1.7, are in excess of 100m away from the site. However, paper and plastics are much less dense that mineral dusts and consequently may be carried for a much greater distance before settling. Adverse impacts due to dust emissions from the site may therefore be experienced up to 500m or more form the source.

As shown in Figure 1.2, the prevailing winds blow towards the southeast and south for a combined total of approximately 44.3% of the time. This shows that the wind blows towards the receptors in the northeast, consisting of mostly residential housing.

Table 3.1 details the potential sources of dust from operations being undertaken on site and their pathways, receptors, and suitable mitigation measures.

Table 3.1 Source-Pathway-Receptor routes for dust producing operations on site.

Source	Pathway	Receptor	Mitigation
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	1		,
Vehicles entering	Tracking of	Norton Canes protected	Vehicles are enclosed or will be
and/or leaving	mud and dust	habitats, residential	sheeted. Hosing down of vehicles
the site with mud	onto public	properties, SSSI Chase	with site hoses or jet wash if
on wheels and	highway and	Water and the Southern	accumulation of debris is visible.
tracking dust on	subsequent	Staffordshire Coalfield	3 rd party sweepers used to clean
to or off the site.	atmospheric	Heaths, Cannock	the highway when accumulation
	dispersion	Extension Canal SSSI	of mud and dust is visible. All as
		and SAC, Local Wildlife	per the housekeeping measures
		Site (LWS)	in Section 5.
Debris falling off	Tracking of	Norton Canes protected	Routine check of vehicles as they
vehicles that	debris on to	habitats, residential	enter the site and use an onsite
arrive uncovered.	the site from	properties, SSSI Chase	hose/jet wash to clean the
	external	Water and the Southern	vehicles. Sweeping of site surface
	vehicles and	Staffordshire Coalfield	when accumulation of debris is
	subsequent	Heaths, Cannock	visible. All as per the
	atmospheric	Extension Canal SSSI	housekeeping measures in
	dispersion	and SAC, Local Wildlife	Section 5.
		Site (LWS)	
Vehicles and	Atmospheric	Norton Canes protected	Site speed limit is strictly set to
plant moving	dispersion	habitats, residential	5mph and vehicle idling is
around the site	from the	properties, SSSI Chase	prohibited. On site hoses will be
kicking up dust.	movement of	Water and the Southern	used to dampen the concrete
	vehicles	Staffordshire Coalfield	surfaces. Routine sweeping of
	around the	Heaths, Cannock	the site. All as per the
	site	Extension Canal SSSI	housekeeping measures in
		and SAC, Local Wildlife	Section 5. Operations will cease
		Site (LWS)	in windy weather where airborne
			dust is visible.
Road vehicles	Atmospheric	Norton Canes protected	Onsite hoses used to spray the
tipping waste	dispersion	habitats, residential	loads prior to tipping and to
		properties, SSSI Chase	dampen concrete surfaces.
		Water and the Southern	Routine sweeping as part of a
		Staffordshire Coalfield	cleaning regime and when
		Heaths, Cannock	accumulation of dust is visible.
		L	

		Extension Canal SSSI	All as per the housekeeping
		and SAC, Local Wildlife	measures in Section 5.
		Site (LWS)	Operations will cease in windy
			weather where airborne dust is
			visible.
Windblown dust	Atmospheric	Norton Canes protected	Dusty stockpiles will be
from temporarily	dispersion	habitats, residential	dampened with onsite hoses. In
exposed		properties, SSSI Chase	particularly windy weather dusty
stockpiles		Water and the Southern	stockpiles will be hosed prior to
		Staffordshire Coalfield	loading into the receiving area.
		Heaths, Cannock	All as per the housekeeping
		Extension Canal SSSI	measures in Section 5. Non-
		and SAC, Local Wildlife	hazardous waste stockpiles may
		Site (LWS)	be baled. The concrete panel
			wall along the eastern boundary
			will also shield outdoor
			stockpiles from wind.
Forklift Trucks	Atmospheric	Norton Canes protected	Onsite hoses used to dampen
	dispersion	habitats, residential	concrete surfaces. Operations
		properties, SSSI Chase	will cease in windy weather
		Water and the Southern	where airborne dust is visible. All
		Staffordshire Coalfield	as per the housekeeping
		Heaths, Cannock	measures in Section 5.
		Extension Canal SSSI	
		and SAC, Local Wildlife	
		Site (LWS)	
Baler machines	Atmospheric	Norton Canes protected	Onsite hoses used to dampen
	dispersion	habitats, residential	concrete surfaces. All baling
		properties, SSSI Chase	operations are enclosed within
		Water and the Southern	the unit building. Operations will
		Staffordshire Coalfield	cease in windy weather where
		Heaths, Cannock	airborne dust is visible. All as per
		Extension Canal SSSI	the housekeeping measures in
			Section 5.

		and SAC, Local Wildlife	
		Site (LWS)	
Shredding of	Atmospheric	Norton Canes protected	Shredding speed and particle size
clinical waste	dispersion	habitats, residential	should be adjusted to be optimal
		properties, SSSI Chase	to minimise the release of dust.
		Water and the Southern	Operations will cease in windy
		Staffordshire Coalfield	weather where airborne dust is
		Heaths, Cannock	visible.
		Extension Canal SSSI	
		and SAC, Local Wildlife	
		Site (LWS)	
Site surfaces	Wind-	Norton Canes protected	Site speed limit is strictly set to
	whipping of	habitats, residential	5mph limiting wind-whipping
	surface dust	properties, SSSI Chase	from vehicles. Onsite hoses used
	subsequent	Water and the Southern	to dampen concrete surfaces.
	atmospheric	Staffordshire Coalfield	Concrete surfaces make them
	dispersion	Heaths, Cannock	easy to sweep during cleaning
		Extension Canal SSSI	regime of when accumulation of
		and SAC, Local Wildlife	dust is visible. All as per the
		Site (LWS)	housekeeping measures in
			Section 5.
Loading waste	Atmospheric	Norton Canes protected	Hosing down of vehicles before
back on to	dispersion	habitats, residential	they exit the site if there is
vehicles		properties, SSSI Chase	visible accumulation of debris.
		Water and the Southern	Operations will cease in windy
		Staffordshire Coalfield	weather where airborne dust is
		Heaths, Cannock	visible. All as per the
		Extension Canal SSSI	housekeeping measures in
		and SAC, Local Wildlife	Section 5.
		Site (LWS)	
Particulate	Atmospheric	Norton Canes protected	Site speed limit is strictly set to
emissions from	dispersion	habitats, residential	5mph and vehicle idling is
the exhaust of		properties, SSSI Chase	prohibited. The use of low
		Water and the Southern	

vehicles/ plant /		Staffordshire Coalfield	sulphur fuels and downward
machinery on site		Heaths, Cannock	facing exhausts/blow off valves.
		Extension Canal SSSI	
		and SAC, Local Wildlife	
		Site (LWS)	
Generators, plant	Atmospheric	Norton Canes protected	Site speed limit is strictly set to
and other non-	dispersion	habitats, residential	5mph and vehicle idling is
road going mobile		properties, SSSI Chase	prohibited. Routine sweeping as
machinery		Water and the Southern	part of a cleaning regime when
		Staffordshire Coalfield	accumulation of dust is visible.
		Heaths, Cannock	All as per the housekeeping
		Extension Canal SSSI	measures in Section 5.
		and SAC, Local Wildlife	
		Site (LWS)	

3.2.2 Controls

The operations will be governed by conditions attached to the planning permission which has been granted. Operations will also be governed by the environmental permit which may be granted in due course. The following means of prevention are based on existing site management procedures and the planning permission guidance.

Relevant parts of current best practice for minerals can also be taken to apply to waste management and processing operations and will be referred to as appropriate. The essence of guidance for the minerals industry is that dust impacts can be controlled by effective site management.

Weather Conditions

As an over-riding requirement, if during windy conditions any operations are identified as causing or likely to cause visible emissions across the site boundaries, or if abnormal emissions are observed within the site, the site manager will immediately modify, reduce, or suspend those operations until either effective remedial actions can be taken or the weather conditions giving rise to the emissions have moderated. No major incidences have been reported in previous years.

Loading and Tipping

Drop heights will be controlled during all loading and tipping operations to reduce the entrainment of dust into the atmosphere. Routine hosing of the stockpiles in accordance with the housekeeping measures in Section 5 will take place to dampen the material and reduce dust emissions when the material slumps.

On arrival and prior to tipping, the onsite hoses will be used to spray the loads in order to reduce the risk of the spread of dust and particulates when tipping.

Site Traffic

All site traffic will keep to designated routes. The designated routes will be dampened using the onsite hoses and will be swept where accumulations of dust are visible to dampen and remove any loose materials in accordance with the cleaning schedule in Appendix B.

Standard good practice will be adopted for site traffic, including:

- Avoiding abrupt changes in alignment;
- Weekly clearing, wetting and maintenance of yard surfaces;
- Setting site speed limit strictly to 5mph;
- Evenly loading vehicles to avoid spillages; and
- Regular application of water in dry conditions

Road Transport

All vehicles carrying material into or out of the site will be enclosed or securely sheeted. The wheels, chassis, and under-bodies of departing vehicles will be inspected for cleanliness by the driver. If a substantial amount of dust, debris and mud is visible, the vehicle will be cleaned and further inspected by the driver before proceeding towards the site entrance. A drained hard-standing equipped with a hose and brush will be provided for this purpose. In the absence of a wheel wash, vehicles will be dampened down using the onsite hoses. The main source of water is mains water, however there are also two IBC containers filled with water present on site which can be used in the event of a drought or a hose ban.

All site surfaces will be dampened in particular conditions such as dry, hot, or windy weather or when accumulations of dust are visible through the use of an onsite hose in accordance with the cleaning schedule provided in Appendix B. Yard surfaces will be cleaned using manual sweepers as required and will be swept to remove loose materials. A speed limit of 5mph is set on site.

The site entrance will be inspected daily to ensure that track-out is not carried out onto the public highway. A road sweeper will be deployed when accumulations of dust are visible to remove any muddy or loose deposits.

Wind-blown across stockpiles and loose materials

Material stockpile areas will be clearly designated, and loose materials will be kept to an absolute minimum. Hazardous and flammable wastes are stored in labelled containers in the concrete walled bays in the external yard and within 40cyd skips which shield the stockpiles from the wind. Plasterboard is stored within a covered 8 cyd skip in the external yard. The remaining stockpiles, which consist of clinical waste, granulated copper and WEEE, are stored in the building. Any loose materials both inside and outside these designated areas will be swept to minimise the generation of wind-blown dust.

Other Matters

General matters and the management of the site can affect the likelihood of significant dust emissions. These include:

- High standards of housekeeping to minimise track-out and wind-blown dust;
- The use of clean water for dust suppression that has coverage over all parts of all stockpiles, to avoid re-circulating fine material; and
- Effective staff training in respect of the causes and prevention of unacceptable emissions of dust.

The water supply to the dust suppression installations will be protected against frost to ensure availability at all times.

3.2.3 Maintenance

Effective control of dust emissions requires the maintenance and proper operation or all plan and equipment, including fixed and mobile dust suppression equipment. Dust suppression equipment such as on site hoses and an industrial jet washer will be used to deal with dusty loads to ensure that the risk of dust leaving the site is minimised. A programme of planned maintenance will be carried out on all plant and equipment in accordance with the manufacturer's recommendations to ensure that it operates at optimum efficiency.

Stocks of essential spares and consumable items will be held at the site or kept readily available for use at short notice.

Any malfunction of breakdown leading to abnormal emissions will be dealt with within 24 hours and operations will be modified or suspended until normal working can be restored. All such malfunctions, and the actions taken, will be recorded in the site logbook. If control measures fail will cease and the regulator will be informed.

Table 3.1 Source-Pathway-Receptor Routes

Source	Pathway	Receptor	Type of	Where relationship can be
			impact	interrupted
Mud	Tracking dust	Norton	Visual soiling,	Remove mud before vehicles leave
	on wheels and	Canes	also	site using the onsite hoses and
	vehicles, then	protected	consequent	industrial jet wash.
	mud dropping	habitats,	resuspension	
	off	residential	as airborne	
	wheels/vehicles	properties,	particulates	
	when dry	SSSI Chase		
		Water and		
		the		
		Southern		
		Staffordshire		
		Coalfield		
		Heaths,		
		Cannock		
		Extension		
		Canal SSSI		
		and SAC,		
		Local		
		Wildlife Site		
		(LWS)		
i				

Debris	Falling off	Norton	Visual soiling,	All waste vehicles are solid and
	waste vehicles	Canes	also	waste remains within the enclosed
		protected	consequent	vehicles at all time prior to
		habitats,	resuspension	unloading. A mechanical road
		residential	as airborne	sweeper will be hired weekly to
		properties,	particulates	clean and sweep the public
		SSSI Chase		highway.
		Water and		
		the		
		Southern		
		Staffordshire		
		Coalfield		
		Heaths,		
		Cannock		
		Extension		
		Canal SSSI		
		and SAC,		
		Local		
		Wildlife Site		
		(LWS)		
Tipping,	Atmospheric	Norton	Visual soiling	Minimise source strength by
	dispersion	Canes	and airborne	means of low drop heights and
and	uispersion	protected	particulates	shielding the stockpiles in bays
sorting of		habitats,	particulates	and behind the concrete panel
wastes in		residential		wall from wind whipping,
the open		properties,		positioning sources away from
the open		SSSI Chase		receptors. Also spraying of loads
		Water and		on arrival prior to tipping with the
		the		onsite hoses.
		Southern		
		Staffordshire		
		Coalfield		
		Heaths,		
		Cannock		

		Fyto:-sis:-		
		Extension		
		Canal SSSI		
		and SAC,		
		Local		
		Wildlife Site		
		(LWS)		
Vehicle	Atmospheric	Norton	Airborne	Regulatory controls and best-
exhaust	dispersion	Canes	particulates	practice measures to minimise
	dispersion		particulates	
emissions		protected		source strength through
		habitats,		downward facing exhausts etc.
		residential		
		properties,		
		SSSI Chase		
		Water and		
		the		
		Southern		
		Staffordshire		
		Coalfield		
		Heaths,		
		Cannock		
		Extension		
		Canal SSSI		
		and SAC,		
		Local		
		Wildlife Site		
		(LWS)		
		(====,		
Non road	Atmospheric	Norton	Airborne	Regulatory controls and best-
going	dispersion	Canes	particulates	practice measures to minimise
machinery		protected		source strength including low
exhaust		habitats,		sulphur fuels and anti-idling
emissions		residential		measures.
		properties,		
		SSSI Chase		
		1		

the Southern Staffordshire Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding of non- hazardous clinical waste externally water and the Southern Staffordshire Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Airborne particulates particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. properties, SSSI Chase			Water and		
Southern Staffordshire Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding of non- hazardous clinical waste externally Southern Staffordshire Coalfield Heaths, Cannock Extension Canes Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Low speed cutting shafts on the shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.					
Staffordshire Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding of non- hazardous clinical waste externally Staffordshire Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Airborne Dow speed cutting shafts on the shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.					
Coalfield Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding of non- hazardous clinical waste externally Coalfield Heaths, Cannock Extension Canes Airborne particulates Low speed cutting shafts on the barredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.					
Heaths, Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding Atmospheric (LWS) Shredding of non- hazardous clinical waste externally Heaths, Cannock Extension Airborne Airborne particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.					
Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding Atmospheric (LWS) Shredding of non- hazardous clinical waste externally Cannock Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Low speed cutting shafts on the shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.			Coalfield		
Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding of non- hazardous clinical waste externally Extension Canal SSSI and SAC, Local Wildlife Site (LWS) Airborne Low speed cutting shafts on the shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.			Heaths,		
Canal SSSI and SAC, Local Wildlife Site (LWS) Shredding Atmospheric dispersion hazardous clinical waste externally Canal SSSI and SAC, Local Wildlife Site (LWS) Airborne Low speed cutting shafts on the shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.			Cannock		
and SAC, Local Wildlife Site (LWS) Shredding Atmospheric Norton Airborne Low speed cutting shafts on the particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. waste externally properties,			Extension		
Local Wildlife Site (LWS) Shredding Atmospheric (LWS) Of non- hazardous clinical waste externally Low speed cutting shafts on the Low speed cutting shafts on the particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.			Canal SSSI		
Wildlife Site (LWS) Shredding Atmospheric Norton Airborne Low speed cutting shafts on the of non-dispersion Canes particulates shredder means less dust. The untha RS40-1000 shredder is designed for low speed shredding to produce less dust. waste externally properties,			and SAC,		
Shredding Atmospheric Norton Airborne Low speed cutting shafts on the of non-dispersion Canes particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. waste externally properties,			Local		
Shredding Atmospheric Norton Airborne Low speed cutting shafts on the of non-dispersion Canes particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. waste externally properties,			Wildlife Site		
of non- dispersion Canes particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. externally particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.			(LWS)		
of non- dispersion Canes particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust. externally particulates shredder means less dust. The Untha RS40-1000 shredder is designed for low speed shredding to produce less dust.		_			
hazardous protected Untha RS40-1000 shredder is designed for low speed shredding waste externally properties,					
clinical habitats, designed for low speed shredding waste externally properties, designed for low speed shredding to produce less dust.		dispersion		particulates	
waste residential to produce less dust. externally properties,	hazardous		protected		Untha RS40-1000 shredder is
externally properties,	clinical		habitats,		designed for low speed shredding
	waste		residential		to produce less dust.
SSSI Chase	externally		properties,		
,			SSSI Chase		
Water and			Water and		
the			the		
Southern			Southern		
Staffordshire			Staffordshire		
Coalfield			Coalfield		
Heaths,			Heaths,		
Cannock			Cannock		
Extension			Extension		
Canal SSSI					
and SAC,					
Local					
Wildlife Site					
(LWS)					
			(2)		

Table 3.2 Measures that will be used on site to control dust/particulates (PM_{10}) and other emissions

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
Preventative I	Measures		
Site /	The location chosen	Easy to implement as part	This measure will be used
process	for the development	of good practice. Site	the entire time that the site
layout in	of the operation is as	activities are strategically	is operational.
relation to	far as is reasonably	positioned to lower the	
receptors	practical from local	risk of adverse impact on	
	sensitive receptors as	surrounding receptors.	
	can be designed.		
Site speed	The speed limit on site	Easy to implement as part	Speed limits are in place at
limit, 'no	is 5 mph. Reducing	of good practice. Drivers	all times. Failure to comply
idling' policy	vehicle movements	are inducted onto site and	with speed limits shall be a
and	and idling should	speed limits are strictly	disciplinary matter for Staff
minimisation	reduce emissions	enforced by site	and cause other drivers to
of vehicle	from vehicles.	management.	be banned from site.
movements	Procurement policy to		
on site	only purchase clean		
	burn road vehicles		
	and non-road going		
	mobile machinery.		
	Enforcement of a		
	speed limit reduces		
	re-suspension of		
	particulates by vehicle		
	wheels.		
Minimising	Minimising the height	Easy to implement as part	Site staff are trained in the
drop heights	at which waste is	of good practice.	various dust mitigation
for waste.	handled should		measures required on site.
	reduce the distance		This is done at induction
	over which debris,		and reinforced through
	dust and particulates		annual toolbox talks. Any

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
Good house-	could be blown and dispersed by winds. Having a consistent,	Easy to implement and	changes to the DEMP are also introduced to staff via toolbox talks. This measure will be used
keeping	regular housekeeping regime that is supported by management, will ensure site is regularly checked and issues remedied to prevent and remove dust and particulate build up. A cleaning schedule is in place to ensure that any accumulations of dust that do occur are removed. A copy of the cleaning schedule can be found in Appendix B.	requires minimal equipment. Encourages a sense of pride and satisfaction amongst the staff which promotes vigilance and a positive culture. Staff should target the areas not caught by the road sweeper and other cleaning apparatus. Site management are responsible for ensuring that inspection stake place and cleaning is undertaken in compliance with the schedule.	the entire time that the site is operational.
Sheeting of vehicles	Prevents the escape of debris, dust, and particulates from vehicles as they travel. All vehicles are already enclosed.	Clearly in the site management system, driver induction and implemented as appropriate measures.	This requirement will be enforced all the time that the site is operational.
Hosing of vehicles on exit	May remove some dirt, dust, and particulates from the lower parts of vehicles	This is included in the emissions prevention measures and will be undertaken when visible	This will be undertaken when visible staining of site roads occurs to prevent mud being taken out on

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
	although likely to be	staining of the internal	onto the public highway
	less effective than a	road occurs.	and in accordance with the
	more powerful wheel		housekeeping measures.
	wash.		
Ceasing	Mobilisation of dust	Likely to reduce dust and	When identified, the
operation	and particulates is	particulate emissions, no	cessation measure will be
during high	likely to be greater	previous record of dust	taken out across the entire
winds	during periods of	pollution in previous	site.
and/or	strong winds and	years.	
prevailing	hence ceasing		
wind	operation at these		
direction	times may reduce		
	peak pollution events.		
Mechanical	A mechanical sweeper	Easy to implement as part	This measure will be
sweeper	will be used to clear	of good practice.	implemented in response to
hired weekly	any visible deposits		observations of
or within 24	made by vehicle		accumulations of dust or
hours of an	wheels from the		mud on site roads.
incident to	concrete surface of		In the event that a sweeper
remove any	the site roads.		cannot be deployed, site
material			management shall consider
spread by			the potential for dusts to be
vehicle			raised from vehicles
wheels.			travelling on site rods, the
			potential for dusts/mud to
			be taken off-site onto the
			public highway or for dusts
			to be created by vehicles
			operating on site roads and
			in the event that any of
			these situations occur, shall

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
Easy to clean	Creating an easy to	Considered good overall	suspend inputs to the site until mitigation measures and normal conditions can be restored. This measure will be
concrete	clean impermeable	based on dust and	implemented across all
impermeable surfaces	surface, using materials such as concrete as opposed to unmade (rocky or muddy) ground within the site and on site haul roads. This should reduce the amount of dust and particulate generated at ground level by vehicles and site activities.	particulate reduction but potentially costly and disruptive to retrofit. There are maintenance and cleaning procedures in place for the concrete surface.	concrete surfaces for the entire time that the site is operational. Cleaning will be undertaken in accordance with the cleaning regime and the housekeeping measures.
Minimisation	Minimising the height	Likely minimal return on	This measure will be used
of waste	at which waste is	potentially costly layout	the entire time that the site
storage heights and volumes on	handled should reduce the distance over which debris,	The amount of waste that	is operational.
site	dust and particulates could be blown and dispersed by winds. Reducing storage volumes should reduce the surface area over which	can be managed on site without causing dust and particulate pollution should be identified in the management system.	

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
	particulates can be		
	mobilised.		
Do not	With less material in	Easy to implement as part	This measure will be used
overload the	the hopper, there's	of good practice. Bags on	the entire time that the site
shredder	less movement and	clinical waste should be	is operational.
hopper	agitation during	fed into the hopper at a	
	loading and	steady flow, rather than	
	shredding. This can	many bags being dumped	
	minimize the release	in all at once.	
	of fine particles into		
	the air.		
Remedial Mea	asures		
On-site	Road sweeping	A mechanical sweeper will	This measure will be used
sweeping	vehicles damp down	be used to clear visible	when there is the visual
	dust and particulates	accumulations of dust and	build-up of dust during
	whilst brushing and	mud. Manual sweeping	inspection and in
	collecting dust and	and cleaning within the	compliance with the
	particulates form the	building is a daily activity	cleaning regime and
	road surface,	carried out in accordance	housekeeping measures.
	particularly at the	with a schedule.	
	kerbside. Mechanical		
	sweeper shall be hired		
	in weekly or within 24		
	hours of an incident.		
Storage of	Stockpiles within	Easy to implement as part	This measure will be used
external	concrete storage bays	of good practice. Reduces	the entire time that the site
stockpiles in	are stored on pallets	wind speed across the site	is operational.
concrete	or IBCs which are	which indirectly controls	
storage bays	covered with plastic	the potential for dust and	
and 40cyd	and 40cyd skips	particulate emissions.	
skips.	contains the material		

Abatement	Description / Effect	Overall consideration and	Trigger for implementation
Measure		implementation	
	which shields the	Maintenance is covered in	
	stockpiles from wind	the site management	
	and therefore reduces	system and procedures.	
	dust spread risk.		
Concrete	The concrete panel	This is a well-established	This measure will be used
panel wall	wall is located on the	approach and works well	the entire time that the site
measuring	eastern boundary and	in association with other	is operational.
4m high	stretching around the	measures e.g. hosing of	
	northeastern and	surfaces and routine	
	southeastern corners	sweeping as per the	
	of the site. The wall	housekeeping measures.	
	will prevent the		
	spread of dust and		
	debris to		
	neighbouring		
	properties. The height		
	reduces wind-blow.		
Water	Dampening down of	Quite water intensive.	This measure will be used
suppression	site areas and	Routine spraying of	when observations by staff
with hoses &	spraying all areas of	stockpiles covered in the	indicate that stockpiles are
water jets	all stockpiles using	site management system	dry and weather conditions
	hoses can reduce dust	and maintenance plans as	could give rise to
	and particulate re-	per the housekeeping	windborne dusts, to ensure
	suspension and may	measures.	stockpiles and the concrete
	assist in the cleaning		surface are dampened
	of the site if combined		down. All in accordance
	with sweeping.		with the housekeeping
			measures.

3.3 Other Considerations

Water usage / availability:

There may be the occasional use of a mains water hose that will only produce a maximum volume possible of a single tap. If this is insufficient in mitigating onsite dust, then the site will cease operations until the dust is removed.

In the event of a drought:

As mentioned above, in the event of dry weather, a mains water hose will be used to dampen stockpiles and site surfaces in order to reduce the spread of dust. In the event the mains water hose is not working or there is a hose ban, the two IBC containers full of water will be used to dampen the stockpiles and site surfaces.

Abnormal conditions and ceasing operations:

If the use of mains water from the hose or the use of water from the IBC storage containers is insufficient in mitigating onsite dust, then the site will cease operations until the dust is removed. Extreme winds have the potential to result in an issue with accumulations of dust and airbourne dust. Mobilisation of dust and particulates is likely to be greater during periods of strong winds and hence ceasing operation at these times may reduce peak pollution events.

3.4 Enclosure of Waste Processing & Storage Areas

Wastes are enclosed appropriately when considering the nature and scale of the site. The majority of the processing operations occurs in the enclosed space of the building. The enclosure of waste processing within the building will significantly reduce the risk of dust spreading outside of the site as the structure of the warehouse will act as a dust barrier. The surfaces, plant and storage areas within the warehouse will be cleaned in strict accordance with the cleaning schedule provided within Appendix B to ensure the accumulation of dust is prevented. The building is equipped with roller shutter doors which can be shut to significantly reduce the risk of any potential dust from waste processing activities spreading across the external yard and to neighbouring properties.

Once processed, the majority of waste is relocated, in labelled containers, to the storage areas and bays, and 40cyd skips in the external yard. WEEE, clinical waste and granulated copper are stored within the building. There are several designated storage areas and concrete storage bays located on the external yard, and the 40cyd skips are distributed throughout the external yard, leaving the central area of the yard clear for the quarantine area.

Loose external stockpiles will be kept to an absolute minimum and will not increase the risk of emissions as they are appropriately positioned within bay walls and the stockpile height will strictly remain 0.5m below the height of the bay walls. Site management will undertake inspections at the start and end of each day to ensure there is no accumulation of dust. Loose stockpiles will be dampened whenever necessary, and in the event that site management identify the accumulation of dust upon inspection, the loose stockpiles will be dampened immediately, and the vicinity swept. As stated within Section 3.6 below, any exposed external stockpiles will be covered with tarpaulin at the end of each day to ensure out of hours emission prevention. During windy and dry weather, following a weather forecast check, the loose external stockpiles, where necessary, will be dampened and covered with tarpaulin.

The moisture content of any stockpiles of potentially dusty and dusty wastes will be controlled to prevent the material becoming friable through dampening down the stockpiles on a weekly basis, immediately in response to an incident or during windy/dry weather.

WEEE waste is treated within the designated area of the building only, along with the granulation and shredding of cable. The treatment will be fully enclosed by the building's structure which is equipped with roller shutter doors. Site management will undertake an inspection at the start and end of each working day for accumulations of dust. In the event that accumulations of dust are identified in the hazardous waste treatment area during the inspection, the area will be swept immediately. This will significantly reduce the risk of further accumulations, and the resultant spread of dust to the external yard.

There is a small amount of dust produced during the granulation process which remains within an enclosed area of the building. As detailed within Appendix B, a daily cleaning schedule is strictly adhered to in line with the insurance recommendations which includes sweeping and vacuuming of the area on a daily basis. The vacuuming procedure will ensure that the dust is captured and stored securely.

The hazardous waste processing area is located externally in an enclosed bay. The nature of the wastes being processed there will not give rise to dust, however, as detailed within Appendix B, the cleaning schedule will be adhered to on a daily basis.

The permit variation application seeks to vary the environmental permit to include the operation of 1 Nr Advetec XO22 aerobic digestion unit for the treatment of non-hazardous clinical waste. The digestion unit is a full enclosed system and does not produce dust.

The bagged clinical waste is stored in the building until processing commences.

The waste, prior to being fed into the digestion unit, will be loaded into a hopper which connects to a shredder, both of which will be located externally, in the yard. The Untha RS40-1000 shredder will shred the waste into 50mm particle size, the shredded waste is then augered into the digester. The Untha RS40-1000 shredder has been designed to produce low noise and dust pollution with its low speed cutting shafts.

3.5 Visual Dust Monitoring

Activities that have the potential to cause dust emissions, as detailed in Section 3.2, will be monitored at the start-up of operations and again during the working day, therefore twice a day. This will include a visual assessment of any impacts beyond the downwind site boundary. Weekly site inspections will also be undertaken by a COTC holder.

The site will be visually monitored at the site entrance and at every stockpile twice a day during the site inspections undertaken by site management. Further detail on the locations of visual dust monitoring are displayed in the drawing provided in Figure 2.1.

All observations and findings, including wind and other weather conditions, will be noted in the daily records. In the event that dust is observed during visual monitoring during working hours, the identified area will be swept immediately. If the dust has been observed during windy or dry weather conditions, any dusty stockpiles will be dampened down using the site hose.

Should visible dust be generated, the Site Manager will act immediately to identify the sources of dust and take the necessary corrective action. Each event, its cause and the action taken will be noted in the daily records. Formal reporting of dust incidents will be recorded in the site incident log, and any offsite notifications of dust shall be considered as complaints.

If necessary, to avoid potential nuisance, Site Management will instruct the reduction or suspension of any operation or process causing visible dust emissions across the site boundary towards any sensitive receptor until the emissions can be controlled.

All site personnel will be instructed to inform Site Management whenever visible dust emissions are observed, or appear likely to occur, as a result of any operation or process. There will be a procedure in place for senior management to review the feedback from the visual monitoring.

3.6 Out of Hours Prevention and Monitoring

Arrangements for the out of hours prevention of emissions include:

 In the event the accumulation of dust has been identified by site management during their end of day inspection, exposed external stockpiles will be dampened down before closure.

- Covering any exposed external stockpiles with tarpaulin before closure each day.
- Ensuring all roller shutter doors of the warehouse are sealed and locked at the end of each working day.

The site does not have 24/7 security staff and therefore Arrangement for the out of hours monitoring of emissions include:

- The building will be locked and sealed at the end of each working day ensuring all internal stockpiles are fully enclosed.
- Site management will undertake perimeter inspections and the start and end of each day. In the event accumulations of dust are observed, they will be swept immediately.
- All exposed external stockpiles with the potential to be dusty will be covered with tarpaulin at the end of each working day.

3.7 Dust Suppression

Site management will undertake a site inspection, including the site perimeter, dusty stockpiles, and vehicle movement areas, at the start and end of each day in order to identify any accumulations of dust. In the event that an accumulation of dust is identified during these inspections, they will be swept immediately. The key forms of dust suppression on site are sweeping, the use of the mains water hose, rags for the wiping down of machinery, vacuuming of the granulation area, and a hose to dampen any stockpiles and site surfaces. In the event the hose is not in use, water from the IBC containers on site can be used for the dampening process.

There are several aspects of the site infrastructure that also contribute to dust suppression. All waste processing occurs undercover, in a controlled area, or indoors within the building. The site has various concrete bays in the external yard. The structure of the bay walls will act as a barrier reducing the risk of the spread of dust, and additionally protecting them from potential wind-whipping. There is a 4m high concrete panel wall which runs along the eastern boundary, and northeastern and southeastern corners of the site. The concrete panel wall will also act as a barrier to potential wind-blown dust, significantly reducing the risk of the spread of dust to nearby receptors. At the end of each working day, any potentially dusty stockpiles will be covered with tarpaulin to reduce the risk of the spread of dust via wind-whipping out of hours.

One activity likely to produce dust is the granulation operations which occur strictly indoors within the building. Granulation takes place in an enclosed area within the building and the small amount of dust produced remains within this enclosed area where it is vacuumed.

Another activity likely to produce dust is the clinical waste shredding operations which occur

externally and is required for the clinical waste to be fed into the digester unit. The low speed cutting shafts will minimise the dust quantities produced.

As detailed within Appendix B, a daily cleaning schedule is strictly adhered to in line with the insurance recommendations which includes sweeping and vacuuming of the areas on a daily basis. The vacuuming procedure will ensure that the dust is captured and stored securely.

The location, type of dust suppression, and frequency of dust suppression is detailed within the cleaning schedule provided in Appendix B.

4. PARTICULATE MATTER MONITORING

As shown on the DEFRA AQMA map, the site is not within a Particulate Matter (PM_{10}) Air Quality Management Area and the distance of the site from the sensitive receptors means that the use of permanent particulate matter monitoring is not justified.

5. PREVENTATIVE HOUSEKEEPING MEASURES

There are various housekeeping measures in place on site which significantly reduce the risk of the accumulation and spread of dust across and off site including:

- Enclosing the majority of the waste processing indoors within the warehouse.
- Enclosing all external waste with the potential to produce dust within a concrete wall bay and the wastes stored within the bays are contained within labelled containers on pallets, or IBCs which are covered with plastic.
- Ensuring any external stockpiles remain 0.5m below the height of the retaining wall.
- Enclosing all plasterboard / gypsum waste within a covered 8 cyd skip.
- Washing and dampening down any dusty / dirty vehicles upon arrival and exit with the site hoses in accordance with the cleaning schedule in Appendix B.
- Yard surfaces will be swept manually once a week or whenever necessary.
- Hiring a mechanical sweeper weekly or within 24 hours after an incident to clean and remove dust, mud, litter and other debris on the nearby haul roads and Highway.
- Site management to undertake site inspections at the start and end of each working day, and before and after deliveries, including perimeter inspections, to ensure no accumulation of dust, debris, or litter. Any accumulations will be immediately swept.
- Undertaking a weather forecast check once every 24 hours in anticipation of potential windy weather.

- All site surfaces to be dampened in particular conditions such as dry, hot, or windy weather
 or when accumulations of dust are visible through the use of an onsite hose.
- Avoiding activities that could spread dust and particulates, mud or litter during high winds e.g.
 loading and unloading waste from vehicles.
- Operations will cease in windy weather where airborne dust is visible.

A detailed cleaning schedule is provided within Appendix B.

6. ACTIONS WHEN AN INCIDENT OF DUST IS REPORTED

The following actions are taken:

- 1. Site management assesses yard activities and the nature of the waste handling and deliveries immediately prior to the incident being reported, to work out the cause.
- 2. If the source cannot be ascertained with 100% confidence, the site supervisor suspends the likely dust/particulate generating activities.
- 3. If the source is within the site's control the site supervisor takes appropriate action in terms of dust/particulate abatement, to ensure that the alarm is not re-activated. This may take the form of the following:
 - a. Investigating the source of the dust/particulates to prevent a reoccurrence.
 - b. Suspending operations which are not being conducted using best practice controls as set out in Table 3.1.
 - c. Additional use of the dust abatement measures.
 - d. Logging findings of a -c in the site diary, and also in the reporting template within the relevant appendix of the Environmental Permit.

If an effective abatement technique cannot be identified and implemented, and dust levels remain visible at the site boundary, then operations should be suspended.

In all cases, any new "lessons learned" from the site management's investigations are considered by the company directors and implemented into a dust & particulate emission management (if not already included), to prevent a reoccurrence of the incident.

7. REPORTING AND COMPLAINTS RESPONSE

In line with the Site Management Plan and the ISO9001 quality system, a complaints form will be completed for every complaint received about Site Clear Solutions. All complaints will be recorded in a complaint register, a copy of which is attached in Appendix A. These records will be stored on file

for a period of 6 years. In the event of a dust complaint, the complaint will be investigated with immediate effect and the Environment Agency will be informed to assist within the investigation.

A record of all copies of correspondence and telephone file notes will be made in the complaints register.

7.1 Engaging with the Community

Site Clear Solutions Ltd understand the importance of open communication with their neighbours. If an issue arises that may impact the surrounding community, a committed, proactive approach is taken, through the following outreach activities:

Website:

There is a dedicated website section that provides detailed information about the site, including ongoing activities, remedial actions, and a clear complaints channel.

Meetings:

In the event of a significant incident or issue that might cause odour concerns, additional steps will be taken to keep the community informed. This will include:

- A formal letter drop informing local residents about the issue, any actions being taken to address it, and planned improvements for the site.
- An invitation to residents and neighbours to contact Site Clear Solutions directly or attend a public meeting to discuss the issue in more detail.

7.2 Reporting of Complaints

The site operates a complaints procedure as part of its ISO9001 quality system.

All complaints will be recorded in a complaint form (see Appendix A), and reported to the Site Manager, who will investigate the circumstances and ensure that the necessary corrective measures are taken. A prompt response will be made to the complainant and a record, including copies of all correspondence and telephone file notes, will be made in the complaints register. Relevant authorities, e.g. Cannock Chase District Council, will be advised in writing within one week of any dust complaint received, together with details of the findings of the investigation and any corrective measures which have been taken.

In the event of any substantiated complaint, the effectiveness of the DEMP will be reviewed. All complaints will be engaged with and responded to directly. Neighbouring businesses will be reassured that any complaints will be dealt with immediately through direct engagement with site management

and a follow up phone call once the nature of the complaint has been resolved. If numerous complaints are received, operations will cease.

If numerous complaints are received, particularly in regard to fugitive emissions, operations will cease until onsite conditions have been improved.

7.3 Management Responsibilities

Site management will alert Company Directors of any complaints in accordance with the quality system. Complaints registered will be discussed at monthly management meetings and any trends will be analysed. The monthly management meetings will instigate further remedial measures including reviews of the DEMP in response to any issues arising. Summary

This DEMP has been produced on behalf of Site Clear Solutions in order for the site to meet the requirements of an reassure the Environment Agency that the potential for dust produced operations is mitigated and controlled in every possible way. The aim is to be granted an environmental permit to allow the discussed operations to commence on site.

The DEMP aims to control any potential sources of dust to prevent dust emission impacts on the surrounding receptors, including several that are sensitive. All possible source-pathway-receptor routes have been identified and suitable abatement measures have been assigned to each one to minimise the potential dust caused from onsite operations.

The DEMP will be reviewed annually to ensure it is up to date or following a dust incident by the ineffectiveness of the plan.

7.4 Summary

This DEMP has been produced on behalf Site Clear Solutions Ltd in order for the site to meet the requirements of and reassure the Environment Agency that the potential for dust produced from the site's operations is mitigated and controlled in every possible way. The aim is to be granted an environmental permit to allow for the proposed operations to continue on site.

The DEMP aims to control any potential sources of dust to prevent dust emission impacts, and sources of NO₂, to prevent NO₂ emission impacts, on the surrounding receptors, including several that are sensitive. All possible source-pathway-receptor routes have been identified, and suitable abatement measures have been assigned to each one to minimise the potential dust and emissions caused from onsite operations.

The DEMP will be reviewed annually to ensure it is up to date or following a dust and / or emissions incident by the ineffectiveness of the plan.

APPENDICES

Appendix A – Dust Complaint Form

Customer Details				
Customer Name -				
Address –				
Postcode -				
Customer				
Contact Details -				
Tel -				
Email -				
Date -				
Complaint Ref				
Number -				
Complaint				
Details -				
Investigation Details				
Investigation carried out by -				
Position -				
Date & time investigation carried				
out -				
Weather conditions -				
Wind direction and speed -				
Investigation findings -				
Feedback given to Environment				
Agency and/or local authority -				
Date feedback given -				
Feedback given to public -				
Date feedback given -				

Review and Improve		
Improvements needed to		
prevent a reoccurrence -		
Proposed date for completion of		
the improvements -		
Actual date for completion -		
If different insert reason for		
delay -		
Does the dust management plan		
need to be updated -		
Date that the dust management		
plan was updated -		
Closure		
Site manager review date		
Site manager signature to confirm no further action		
required		

Appendix B – Cleaning Schedule

Location	How it is cleaned	Frequency
Floors under the plant	Hose	Weekly / immediately
		following an incident
	Manual Sweep	Weekly / immediately
		following an incident
Racking	Hose	Weekly / immediately
	Manual Sweep	following an incident
Behind bays	Hose	Weekly / immediately
		following an incident
	Manual Sweep	Weekly / immediately
		following an incident
External bays	Hose	Weekly / upon emptying /
	Manual Sweep	immediately following an
		incident.
Walkways	Hose	Weekly / immediately
	Manual Sweep	following an incident
WEEE processing area	Hose	Weekly / immediately
	Manual Sweep	following an incident
Granulation area	Vacuum	Daily / immediately following
	Manual Sweep	an incident
Receiving area	Hose	Immediately upon
	Manual Sweep	accumulation of dust, debris
		or litter identified from daily
		inspections / weekly /
		immediately following an
		incident.
Hazardous waste repackaging area	Manual Sweep	Weekly / immediately
		following an incident
Yard surface	Hose	Immediately upon
	Manual Sweep	accumulation of dust, debris
		or litter identified from daily
		inspections / weekly /

		immediately following an
		incident.
Warehouse surface	Hose	Immediately upon
	Manual Sweep	accumulation of dust, debris
		or litter identified from daily
		inspections / weekly /
		immediately following an
		incident.
Base of perimeter	Manual Sweep	Immediately upon
		accumulation of dust, debris
		or litter identified from daily
		inspections / weekly /
		immediately following an
		incident.
Filter units	Wipe with rags	Weekly / immediately
		following an incident
Motors	Wipe with rags	Weekly / immediately
		following an incident
Framework	Wipe with rags	Weekly / immediately
		following an incident
Haul Roads	Mechanical Sweeper	Weekly / within 24 hours of
		an incident
Highway	Mechanical Sweeper	Weekly / within 24 hours of
		an incident
By signing this document I confirm		
that the screen cleaning has been		
done and all materials removed.		

Appendix C – Visual Monitoring Check Sheet

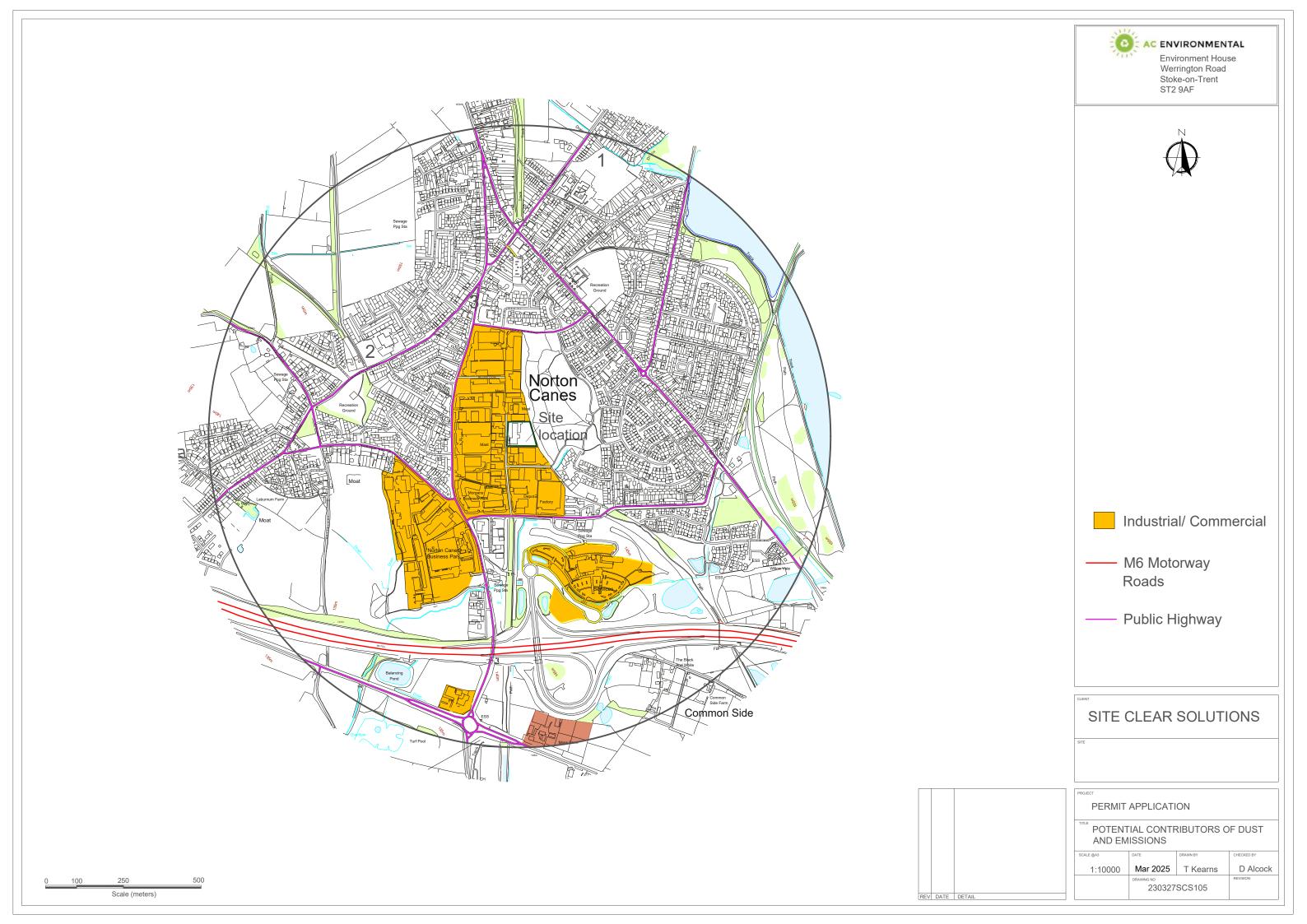
Name:	Date:	Time:
	Wind strength / direction	
Weather	Conditions e.g. dry, showers	

Location of visible accumulation of dust	Time	Visible Dust	Dust Mitigation Action
Access road surface			
Yard surface			
Internal surface of building			
Airborne			
Stockpiles			

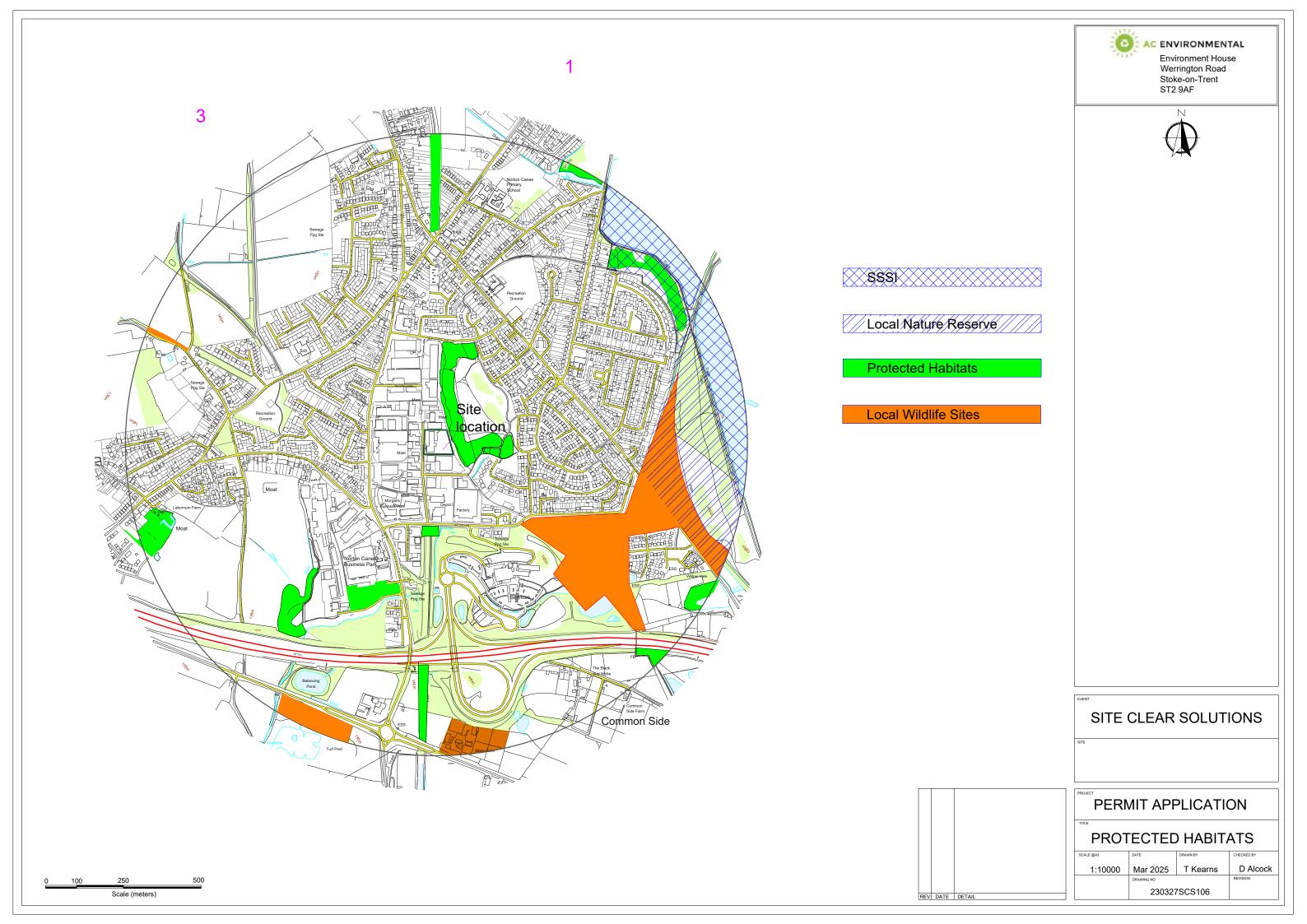
Appendix D – Record of Actions

Name:	Date:	Time:	
Location of visible	Dust control measure used	√ or ×	
accumulation of dust			
	Mechanical sweepers		
	Hosing down of vehicles and		
Access Road Surface	surface to dampen		
	Mechanical sweeper		
	Manual sweeper		
	Hosing down of vehicles and		
Yard Surface	surface to dampen		
	Manual sweeper		
Internal surface of	Hosing down of surface to		
building	dampen		
	Extreme circumstances:		
	cease operations		
	immediately		
	Wrapped baling of		
	plastic waste		
	Hosing down of stockpiles		
Stockpiles	to dampen		

Appendix E – Other Sources of Emissions Drawing Ref: 230327SCS105



Appendix F - Protected Habitats Drawing Ref: 230327SCS106



Appendix G – Advetec XO22 Outlet Vents – Flow Range

The flow rates from each outlet vent operate in the following ranges.

XO22 Air Flo			
Fan Speed	Deadhead restriction	Outlet 1	Outlet 2
%	%	СМН	СМН
100	0	360	360
60	0	145	145
45	0	98	98
100	50	150	150
60	50	96	96
45	50	72	72
W			
Unlikely			
Likely o	perating range		