DUST & EMISSIONS MANAGEMENT PLAN

Unit 18, Thorn Business Park, Rotherwas Industrial Estate, Rotherwas, Hereford, HR2 6JT

Chapel Road Enterprise Ltd

Version:	1.1	Date:	14 November 2025			
Doc. Ref:	TBP-3361-F	Author(s):	EG	Checked:	СР	
Client No:	3361	Job No:	800			



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REGISTERED IN THE UK | COMPANY NO. 4850754

Document History:

Version	Issue date	Author	Checked	Description
1.0	21/02/2025	EG	СР	Application Copy
1.1	14/11/2025	EG		EA comments

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1 Introduction

1.1 General

- Oaktree Environmental Ltd have been instructed by Chapel Road Enterprise Ltd (the Operator) to prepare this Dust & Emissions Management Plan (DEMP).
- 1.1.2 This DEMP assesses the risk of dust associated with the storage and treatment of waste at Unit 18, Thorn Business Park, Rotherwas Industrial Estate, Rotherwas, Hereford, HR2 6JT and provides mitigation and control measures implemented in relation to dust from waste operations undertaken at the site.
- 1.1.3 The permit boundary is illustrated in green on Drawing No. TBP/3361/02 Permit Boundary Plan. All reference to 'the site' in this DEMP refers to the associated operations, infrastructure, plant, and equipment within this boundary.

1.2 Facility Overview

- 1.2.1 The site is operated in accordance with Environmental Permit ref. TP3595FH (the Permit).This DEMP has been produced to accompany a permit variation application.
- 1.2.2 The site is operated as a special waste transfer station with treatment.
- 1.2.3 Treatment activities will consist of the following:
 - a) Sorting (with loading shovel/360° excavator or by hand).
 - b) Manual separation (by picking line).
 - c) Screening (by using appropriate mechanical screening plant and equipment).
 - d) Shredding (by using appropriate mechanical shredder).
 - e) Storage (prior to removal).

1.3 Content of the Dust & Emissions Management Plan

1.3.1 This DEMP provides detailed information on the sources, risks, and mitigation measures relating to the potential of dust emissions from operations undertaken on site. This DEMP

has been prepared in accordance with Environment Agency guidance "Control and monitor emissions for your environmental permit" last updated 24 November 2022.

- 1.3.2 This DEMP will allow the Operator to implement an action plan should the site operatives detect the presence of airborne dust escaping beyond the site boundary, receive complaints from receptors.
- 1.3.3 The above guidance will be complied with through the implementation of this DEMP and procedures outlined within. In addition to this DEMP the site is managed and operated in accordance with a fully comprehensive Environmental Management System (EMS) which also contains procedures relating to dust.

1.4 Responsibility for Implementation of the DEMP

- 1.4.1 Ultimately the site manager is responsible for the implementation of the DEMP and for ensuring the mitigation strategies outlined in this DEMP are in place and adhered to. Where the site manager is unavailable to oversee the implementation of dust suppression and mitigation strategies, a suitably experienced site operative or the Technically Competent Manager (TCM) is delegated responsible.
- 1.4.2 All staff members have received the necessary training to deliver dust suppression measures and understand the contents and requirements detailed within this DEMP. Staff will undergo refresher training every 12 months or in the event of a dust complaint / issue or the implementation operational changes.

1.5 Reviewing and monitoring this DEMP

- 1.5.1 This DEMP will be reviewed on a biannual basis (every two years) or when a change in operation is deemed to have a potential effect on increasing dust emissions which could include any of the following:
 - a) Changes to operations (additional treatment activities).
 - b) Following a report or incident of dust emissions leaving the permit boundary.

1.6 Relevant Legislation

Air Quality Management Area (AQMA)

- 1.6.1 The system of local air quality management (LAQM) was introduced under the Environment Act 1995. LAQM requires local authorities to periodically review and assess the current and future quality of air in their areas. Where it is determined that an air quality objective is not likely to be met within the relevant time period, the authority must designate an AQMA.
- 1.6.2 The site is not located within an AQMA.

Low Emission Zone (LEZ)

- 1.6.3 A LEZ is an area that has restrictions on the type and age of vehicles permitted in it, this prevents high level of pollution emitting vehicles from entering and operating within the zone with the aim of improving air quality. High polluting vehicles are required to pay a charge to enter the zone.
- 1.6.4 The site is not located within a low emission zone.

1.7 **Hours of Operation**

1.7.1 The site will be open during the following hours for the delivery, receipt, and processing of waste:

Monday to Friday 07:30 – 17:00

Saturday 07:00-13:00

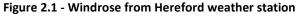
Sundays, Bank/Public holidays Closed

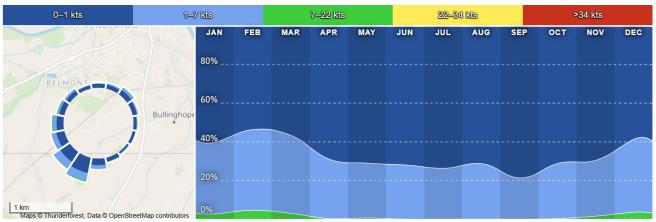
- 1.7.2 The only activities on site which will be permitted outside of these hours are onsite maintenance works, emergency deliveries of waste/plant/machinery and general office use.
- 1.7.3 During times where the site is closed or not in operation, the site will be locked and secured to prevent unauthorised access.

2 <u>Sensitive Receptors</u>

2.1 <u>Meteorology</u>

- 2.1.1 Unlike many other atmospheric pollutants, the generation of dust is particularly dependent upon weather conditions.
- 2.1.2 The prevailing meteorological conditions at any site will be dependent upon many factors, including its location in relation to macroclimatic conditions as well as more site-specific microclimatic conditions. The most significant meteorological factor is the predominant wind direction and speed.
- 2.1.3 It is considered that receptors downwind of the site will have the highest potential to be impacted by dust potentially being emitted beyond the permit boundary as dust will be transported in the direction of the prevailing wind at the time of the dust occurring.
- 2.1.4 Wind speed and direction data have been obtained from Hereford weather station which is considered to be representative of the typical conditions at the site. Daily recorded data for the period between 04/2013 01/2025 indicates that the predominant wind direction is from the southwest blowing towards receptors in the northeast, see





2.1.5 In accordance with the wind rose data in Figure 2.1 above, the predominant wind direction blows towards the northeast. Receptors northeast of the site includes a large agricultural / open field before reaching the River Wye a SSSI approximately 650m northeast of the permit boundary. A full list of sensitive receptors within 1km of the site that are considered would

be impacted by the impact of dust emitting beyond the permit boundary are shown in Table 2.1 overleaf.

2.2 Receptors

- 2.2.1 Receptors will have a varying sensitivity to dust depending on the receptor type. It is considered human receptors will have the highest sensitivity to dust, this includes receptors within close proximity to the site <250m where people spend a significant amount of time i.e. residential dwellings, workplaces, hospitals, schools and care homes.
- 2.2.2 A Receptor Plan has been prepared to illustrate the location of receptors within 1km of the site, see Appendix I, Drawing No. TBP/3361/04 Receptor Plan. As mentioned above the predominant wind direction is towards the northeast, therefore, receptors listed below that are northeast of the site are most likely to be impacted if dust emissions were to escape beyond the site boundary.
- 2.2.3 Table 2.1 overleaf details the direction and distance from the boundary of the site to the boundary of receptors within 1km of the site.

Table 2.1 - Sensitive Receptors

Receptor	Direction from Site	Approx distance from the site boundary to the receptor boundary (m)				
Commercial / Industrial						
Thorn Business Park	South	0				
Rotherwas Industrial Estate	South	0				
HTS Plant Sales	West	10				
Excalibur Sports	West	10				
SIG Roofing Hereford	West	10				
Keltruck Limited	South	20				
Sewage Treatment Works	West	280				
Welsh Water (Rotherwas wastewater treatment works)	East	570				
Residential Dwellings						
Rotherwas Close	Southwest	130				
Hampton Park Road (B4224)	North	445				
Care homes (residential)						
Gwen Walford Nursing Home	Northeast	550				
Hampton Grange Nursing Home	Northeast	580				
Aston House (assisted living)	Northeast	655				
Brockington House Care Home	North	885				
Schools						
Lakeview Nursery	South	210				
Beech House Nursery School	North	590				
Watercourses / Surface Water	er Features					
Pond	East	25				
River Wye	West	135				
Infrastructure (major roads a	and transport links)					
Transport for Wales Railway Line	West	40				
Canary Bridge (footbridge)	Northwest	520				
Ecological Sites						
River Wye (SSSI & SAC)	West	135				
Recreational / Tourist Attractio	ns					
Sustrans Portrait Bench	Northwest	240				

2.3 Other Dust and Emission Sources

- 2.3.1 It is considered there will be a natural production of dust from surrounding agricultural activities and farms. In particular the 'Fen Blows' which is the incidence of very strong winds, when it is not uncommon for soils from agricultural fields to be blown onto adjacent land.
- 2.3.2 Surrounding roads have the potential to produce dust from vehicles and maintenance issues i.e. potholes.

Site Operations

3.1 <u>Waste Deliveries & Acceptance</u>

- 3.1.1 Strict Waste acceptance procedures will be implemented on site to ensure that only suitable waste is accepted. Only those waste codes detailed in the Environmental Permit will be accepted onto the site. Waste acceptance procedures will ensure that waste will not comprise solely or mainly of dust, powders, or loose fibres.
- 3.1.2 Waste will be delivered onto / depart from site primarily by the Operators own vehicles (skip lorries). The movement of vehicles on site has the potential to cause dust emissions, particularly in dry and windy conditions. A 5mph speed limit and the minimisation of vehicle movements will be enforced on site to reduce the amount of dust generated by vehicle wheels.
- 3.1.3 All vehicles entering / exiting the site will be sheeted to minimise the likelihood of dust emissions. Loaded vehicles that are not sheeted will not be allowed to enter the site. Vehicles delivering waste will predominantly comprise skip wagons collected from householders or builders/other tradesman on behalf of householders.
- 3.1.4 Any third-party deliveries to the site will be advised that all loads must be suitably sheeted.
- 3.1.5 Vehicles entering the site will be visually inspected prior to unloading to ensure that loads comprising solely dust, powders, or loose fibres are not accepted.

3.2 Potential Dust Emissions

Waste Codes

3.2.1 Wastes listed in Table 3.1 details the EWC codes for all wastes with the potential to emit dust and particulates which are authorised to be accepted at the site in accordance with the permit. Those EWC codes highlighted red are the EWC codes which will be accepted on a regular basis, EWC codes highlighted green are wastes that could be accepted at the site but aren't accepted on a regular basis.

Table 3.1 - Wastes with Dust Potential

EUROPEAN	WASTE CATALOGUE - COMMISSION DECISION 2000/532/EC
WASTE	DESCRIPTION
CODE	
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those
	mentioned in 03 01 04
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 12	wastes from the manufacture of ceramic goods, bricks, tiles and construction
	products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal
	processing)
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL
	FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics

EUROPEAN	WASTE CATALOGUE - COMMISSION DECISION 2000/532/EC
WASTE	DESCRIPTION
CODE	
17 01 07	mixture of concrete, bricks, tiles and ceramics other than those mentioned in
	17 01 06
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	Insulation materials and asbestos-containing construction materials
17 06 05*	construction materials containing asbestos
17 08	gypsum-based construction materials
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition waste other than those mentioned in 17
	09 01, 17 09 02 and 17 09 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER
	TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR
	HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	wastes from the mechanical treatment of waste (for example sorting,
40.42.07	crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06
19 12 09	minerals (for example sands, stones)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY
	COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones
20 02 02	other municipal wastes
20 03 03	street-cleaning residues
20 03 03	Street dearning residues

- 3.2.2 Other wastes with the potential to cause dust may be accepted and are subject to the same management, mitigation and control measures included in section 4.
- 3.2.3 Reference should be made to the Risk Assessment Tables outlined in Section 5.7 and the control measures outlined in Section 4 for details of the handling procedures and mitigation measures in place for wastes stored and treated on site.

3.3 <u>Waste Storage Table</u>

- 3.3.1 Table 3.2 details the location, waste types and duration of all wastes actually stored on site.

 The waste types with dust potential have been highlighted in red.
- 3.3.2 All waste stored in bays will be stored with a minimum 1m freeboard from the maximum height of the bay wall.

Table 3.2 – Waste storage table

Storage Are	ea Details										
Plan Ref	Description	Storage type	Containment	Height / width of firewall (m)	Max width of pile (m)	Max length of pile (m)	Max height of pile (m)	Approx. area (m2)	Conversion factor used	Approx. volume (m3)	Max storage time
AREA 1	Mixed waste reception (tipping), inspection and sorting area	Unprocessed	Free-standing stockpile	N/A	10	11	3	110	0.333	110	<5 days
AREA 1A	Temporary mixed waste reception (tipping) area (clear out-of-hours)	Unprocessed	Free-standing stockpile	N/A	10	9	2	90	0.333	60	<12 hours
AREA 2	Non-recyclable / bulky waste unsuitable for processing	Partly processed (sorted by hand or grab)	Free-standing stockpile	N/A	9	10	3	90	0.333	90	<24 hours
AREA 3	Mixed waste feedstock pile	Partly processed (sorted by hand or grab)	Free-standing stockpile	N/A	9	12	3	108	0.333	108	<5 days
AREA 4	<10mm screened fines for landfill	Processed by trommel screen	Concrete interlocking storage bay	2 / 0.2	3	1.5	1	4.5	0.75	3	<8 weeks
AREA 5-9	Hand sorted recyclables i.e. wood, plastic, scrap metal, residual waste, plasterboard etc	Processed / sorted by hand on the picking line	40-cubic yard container	N/A	6.1	2.44	2.62	15	1	39 (per container)	<48 hours
AREA 10	Stone / concrete / hardcore	Processed by trommel screen	Concrete interlocking bay	3 / 0.6	3	4	2	12	0.75	18	<5 days
AREA 11	Lights (mixed waste plastic etc)	processed / separated by blower in the trommel	40-cubic yard container	N/A	6.1	2.44	2.62	15	1	39	<5 days
AREA 12	Soil / inert material	Processed	Free-standing stockpile	N/A	6.5	7	3	46	0.333	45	<5 days
AREA 13	Hardcore / stone	Processed	Free-standing stockpile	N/A	6.5	7	3	46	0.333	45	<5 days
AREA 14	Stone / concrete / hardcore	Unprocessed	Free-standing stockpile	N/A	6	6	3	36	0.333	36	<5 days
AREA 15	Soil / inert material	Processed (end of mechanical treatment process)	Free-standing stockpile	N/A	7	6	3	42	0.333	42	<5 days
AREA 16	Stone / concrete / hardcore	Processed (end of mechanical treatment process)	Free-standing stockpile	N/A	7	6	3	42	0.333	42	<5 days

Storage Are		Characa turna	Cantainmant	Haisht /	0.0	Name I amount of	8.0 lo -: -lo + - £	0	6		Na
Plan Ref	Description	Storage type	Containment	Height / width of firewall (m)	Max width of pile (m)	Max length of pile (m)	Max height of pile (m)	Approx. area (m2)	Conversion factor used	Approx. volume (m3)	Max storage time
AREA 17	Lights (mixed waste plastic etc)	Processed	Free-standing against 2 sided storage bay	2 / 0.6	3	2	1	6	0.75	5	<48 hours
AREA 18- 21	Recycled wastes from the picking line - scrap metal, plastic, residual waste, source segregated plasterboard etc (contents in each skip may vary)	Processed / sorted by hand on the picking line	40-cubic yard container	N/A	6.1	2.44	2.62	15	1	39 (per container)	<48 hours
AREA 22	Asbestos	Unprocessed	10-cubic yard container	N/A	1.8	3.8	1.5	7	1	10	<3 months
AREA 23	Wood / green waste (clean source segregated)	Unprocessed	Concrete interlocking storage bay	2.4 / 0.8	19	9	1.4	171	0.75	180	<48 hours
AREA 24	Wood (potentially contaminated processed wood from the waste transfer building)	Processed stockpile (shredded)	Free-standing against concrete panel walls	2.4 / 0.8	16	7	1.4	112	0.75	118	<72 hours
AREA 25	Shredded wood (clean shredded wood from AREA 23)	Processed stockpile (shredded)	Freestanding	N/A	7	7	2	49	0.333	33	<12 hours
AREA 26	Shredded wood (clean shredded wood from AREA 25)	Processed stockpile (shredded)	Free-standing against concrete panel walls	2.5 / 0.8	15	12	1.5	180	0.75	203	<72 hours

3.4 Overview of Site Operations

- 3.4.1 Following acceptance, mixed loads are deposited into the waste transfer and treatment building **AREA 1**. Waste will temporarily be deposited in **AREA 1** if **AREA 1** is at maximum capacity. Following tipping the waste is subject to the following treatment, recovery or disposal procedures:
 - a) Tipped waste is inspected in line with WM3 for signs of any contamination. Operatives will be trained to identify pieces of plasterboard/gypsum to ensure they are deposited into the covered plasterboard skip to avoid mixing with other wastes on site. Any non-conforming material (if any) will be picked out during this process and quarantined immediately for removal from site.
 - b) If the site manager or TCM identifies that gypsum/plasterboard is exceeding the relevant container and has potentially been contaminated with other wastes, the waste will undergo a further sort where staff will further pick out the plasterboard/gypsum. Prior to the contaminated waste leaving the site, a sample will be taken to ensure the levels of sulphate are acceptable.
 - c) Once the waste is deemed suitable and any non-conforming items have been removed, bulkier items of waste i.e. furniture, mattresses etc will be removed using a mechanical grab and stored in AREA 2. No further treatment of waste in AREA 2 will take place waste here will only be bulked for removal from site.
 - d) Remaining waste to undergo further separation via screening and the picking line are placed in a free-standing stockpile in **AREA 3** adjacent to the plant's hopper.
 - e) Stockpiled waste is then placed in the hopper and transferred through the trommel, screened fines that are <10mm (trommel fines) are deposited in a bay below the screener (AREA 4). These fines will be removed to an appropriately permitted site.
 - f) The rest of the waste continues via a conveyor belt over a 5-bay picking line to be hand sorted.
 - g) Recyclables such as wood, plastic, scrap metal and items of residual material are deposited into containers below the picking line (AREAS 5-9). Once the skips / bays beneath the picking line, waste will be bulked into larger roll-on roll-off skips in the operators overflow storage area AREAS 18-21 for storage prior to removal from site.

- h) Once full the bulked container of wood in AREA 6 will be processed through the shredder situated in the external yard of the site. Shredded wood that has originated from the waste transfer and treatment building will be stored in AREA 24 prior to removal from site for incineration. The operator also shreds clean source segregated wood on site, further information on this can be found on the following page in the shredding of wood waste section.
- i) Following the above the remaining wastes along the pickling line should be heavier items consisting of clean inert materials (stone, concrete hardcore). This material falls off the end of the conveyor into a bay (AREA 10).
- j) To further separate materials in AREA 10, material is fed into the primary trommel. This process removes any light fractions within the waste and separates the soils from the bulkier stone material. Separated soils are deposited in AREA 12 and heavier hardcore / stone into AREA 13.
- k) The final treatment process comprises processing the soils / inert material into a secondary trommel to carry out a final clean of the waste. This ensures the wastes have been treated pending specification for the required destination site.
- Any wastes delivered to the site which are predominantly inert material will be deposited in the overflow storage (AREA 14) adjacent to the trommel to prevent contamination with other wastes inside the waste transfer and treatment building.

SHREDDING OF WOOD WASTE

- a) The operator accepts clean source segregated wood and plant matter for shredding on site. Clean wood / plant matter arrives on site already source segregated and is kept separate from any potentially contaminated wood waste accepted in mixed loads within the waste transfer station.
- b) Clean source segregated wood is deposited in AREA 23 prior to processing.
- c) Following shredding, shredded material is temporarily deposited into a free-standing stockpile below the shredders conveyor belt (AREA 25). Once processed and prior to the end of the working day clean shredded material is moved to AREA 24 for storage prior to removal off site.
- d) Clean shredded material in AREA 26 is removed from site for use in a biomass boiler.

e) To prevent mixing of clean source segregated wood with wood from the waste transfer building, each waste will undergo shredding separately. Following shredding of wood from the waste transfer building and prior to shredding of clean wood, plant will undergo a thorough clean down using brushes to remove any potential residues.

3.5 Mobile Plant and Equipment

3.5.1 Table 3.3 details the plant / equipment available on site. Only trained operators will be permitted to drive / operate the plant / equipment listed below.

Table 3.3 - Plant & Equipment

Item	Number	Function
Loading shovel	1	Loading/unloading/movement/sorting
360° excavators	3	Loading/unloading/movement/sorting
Telehandler	1	Loading/unloading/movement/sorting
Picking line	1	Hand sorting recyclables from mixed waste
Blower	1	Separation of light fractions from inert material
Screener	1	Screening mixed C&D waste
Shredder	1	Shredding of material to reduce by size
Water bowser	1	Dust suppression
Trommel	2	Separation of clean soils and stones from inert material
Weighbridge	1	Accurately weighing of loads
Wheelwash	1	Removal of mud/debris from vehicles

- 3.5.2 The plant/equipment on site may vary and additional equipment may be hired-in to cope with busy periods, larger jobs or jobs with specific requirements.
- 3.5.3 All plant and equipment used on site will be subject to preventative maintenance checks to ensure effectiveness and no excess smoke from exhausts is being produced.
- 3.5.4 A no idling policy is in place which ensures that engines are switched off when vehicles or plant are not in use. This policy will ensure that tail pipe emissions are significantly reduced.

4 <u>Dust Management & Mitigation</u>

4.1 <u>Sources of Fugitive Dust / Emissions</u>

4.1.1 The main dust/emission sources which arise from site are detailed in Table 4.1 below:

Table 4.1 - Dust emission source table

Source/Plan Ref	Description
AREA 1 / 1A	The main tipping area or waste reception area
Loading of waste into mechanical plant	Loading waste into the treatment plant
Various sources	Output and storage of waste arising from treatment
Various sources	Vehicles accessing/egressing the site tracking dust on to or off the site
Various sources	Dust being emanated around from site from surfaces or wastes with dust potential not being properly contained or managed
Various sources (sorted waste bays)	Loading waste materials on to vehicles for removal off site
Various sources	Particulate emissions from the exhaust of vehicles/plant/machinery on site (NO2).
Various sources	Where wind speed reaches 4+ on the Beaufort Wind Scale.
Mechanical treatment of waste	Screening / shredding of waste have the potential to produce dust emissions from the disturbing of waste and production of finer materials.

4.2 <u>Control Measures (general/staff training/daily inspections)</u>

- 4.2.1 Good housekeeping and site practices are vital to ensure that the impacts from fugitive dust and debris impacts are controlled.
- 4.2.2 Daily inspections are undertaken on site in relation to the presence of dust / debris with corrective actions implemented upon discovery. Operational staff are suitably trained in procedures to keep the levels of dust /debris to a minimum including prevention and mitigation.
- 4.2.3 In dry and windy weather conditions recorded inspections will take place more frequently (up to three times a day). All inspections are visual and recorded on the Inspection Checklist, see Appendix II
- 4.2.4 Areas where dusts are likely to arise or build up will be continuously monitored throughout the working day and cleaned on a daily basis; paying special attention to plant and equipment where dust is more likely to build up.

- 4.2.5 The weather conditions at the site will be considered and recorded at the start of each working day so that the days operations may be planned to consider any potential increase in dust emissions from climatic conditions. If wind conditions between 4-6 on the Beaufort Wind Scale are experienced the site manager will decide whether to implement more frequent visual monitoring i.e. three times daily or periodically (every hour) or if continuous suppression is required.
- 4.2.6 If excessive windy conditions are expected (winds exceeding 6 on the Beaufort Wind Scale) the site manager can decide if stockpile heights need reducing or if some treatment operations i.e. crushing of waste needs to be temporarily suspended.

4.3 <u>Control Measures (housekeeping & schedule staff training/daily inspections)</u>

- 4.3.1 Good housekeeping and site practices are vital to ensure that the impacts from fugitive dust and debris impacts are controlled. The site undertakes regular inspections throughout the day for the presence of dust/debris with corrective actions taking place upon discovery. Operational staff are suitably trained in procedures to keep the levels of dust /debris to a minimum including prevention and mitigation. The inspections will be once a day minimum and more frequent during dry/windy weather conditions. All inspections will be visual and are recorded on the Dust Monitoring Forms shown in Appendix III. The inspections points may vary on site so are therefore not included on the drawing.
- 4.3.2 The areas listed in Table 4.1 above i.e. where dusts arise or build up will be continuously monitored throughout the working day and cleaned on a daily basis; paying special attention to the machines where dust is more likely to build up.
- 4.3.3 The Operator will rely on weather updates for wind speed/gusts using live information from the Met Office or other suitable weather website (Refer to Section 6.3 which details how the site will operate under periods of high winds).

4.3.4 The Operator will avoid fugitive dust emissions by committing to the following housekeeping schedule:

HOUSEKEEPING SCHEDULE

- Maintain a clean, well-organised site
- Use suppression systems to dampen down potentially dusty wastes
- Jet spray and disinfect storage bays when emptied
- Clean equipment that has been in contact with dusty materials
- Carry out a deep clean of the reception / processing structure and external areas once
 a quarter and record this in the site diary
- Concrete floors designed with a slope towards drainage system and designed in a way that allows easy cleaning.
- Floors sealed to prevent absorption and adsorption of dust producing residues.
- 4.3.5 The Operator has a maintenance team which carries out the cleaning and maintenance on a continual basis then a final check one hour at the end of each day or one hour before their shift ends.
- 4.3.6 In dry and/or windy weather conditions such as a high wind or a combination of dry weather and high winds where it is apparent dust escaping beyond the boundary, the site will have no other option than to shut the site and contact the Local Environment Officer.

4.4 <u>Control Measures (boundary fencing / containment)</u>

- 4.4.1 Wastes with the highest potential to produce dust (soil, stones, hardcore etc) are stored in bays or freestanding stockpiles adjacent to a panelled wall or within the waste transfer building. All wastes are stored with a minimum 1m freeboard from the surrounding containment/walls.
- 4.4.2 Fencing surrounding the site boundary comprises of 2.4m high palisade fencing. Waste storage areas have additional 2 3m concrete sleeper walls or bays adjacent to the palisade fencing for additional containment.

4.5 <u>Control Measures – site surfacing</u>

- 4.5.1 All waste storage and treatment areas comprise of impermeable concrete surfacing. The operator has the capability to dampen down surfaces and stockpiles using hosepipes and the onsite mains water supply.
- 4.5.2 Areas of impermeable concrete will be manually swept at the end of each working day to collect any litter / dust that has settled on the site surface to prevent it becoming windblown outside of operational hours.

4.6 <u>Control Measures - vehicle movements</u>

- 4.6.1 The control measures implemented by site management to minimise the risk of dust and debris emissions from dusty site surfaces and vehicle movements include:
 - a) Access to a permanent mains water supply and additional onsite water storage tanks will be available at all times, particularly during hot and dry weather conditions to ensure that the dust suppression systems can function effectively.
 - b) Vehicle speed on site is restricted to 5mph. Signs are erected at the relevant areas of the site. This reduces the potential for re-suspension of dust and particulate matter.
 - c) Exiting vehicles leaving the site will avoid all areas where wastes are stored or stockpiled. All vehicles will be checked before they leave the site to ensure no mud/dust can stretch beyond the site access. All incoming/outgoing vehicle loads will be sheeted.
 - d) If required hoses can be used to wash any dust, mud or debris off the wheels of vehicles before exiting the site.
 - e) Any mud/dust deposited off site will be treated as an emergency and cleaned by operatives using manual techniques or the operator will organise for a road sweeper to be deployed if required.
 - f) Any dust/fluff cleared from mobile plant or other areas where dust/fluff could idle will be deposited into one of various mobile wheelie bins which are located near the site office.
 - g) The operator will dampen down surfaces using a hose; paying special attention to the areas where dust/debris is likely to build-up i.e. where wastes with dust potential are

- stored. These will be behind and on top of storage bays which are not readily accessible when operations are taking place.
- h) The operator will shut down plant/machinery and hose them down to remove any dust/fluff that may have accumulated beneath them.
- 4.6.2 It must be noted the site currently accept wastes that are considered to have the potential to be dusty (soil, stones and rubble) and have had no complaints from third parties or regulators regarding dust or tracking mud/debris off site.

4.7 <u>Control Measures – site suppression</u>

- 4.7.1 **Hosepipes** There are hoses situated around the site which can be utilised to spray waste in bays and stockpiles, and for further dampening of the site surface. The hosepipes will be used daily if required to dampen down all wastes at the site to minimise the risk of dust being produced.
- 4.7.2 **Mobile water bowser** -There is a mobile water bowser situated on site that can be utilised to aid in suppression such as dampening stockpiles and site surfaces. The mobile water bowser can be filled using the main water supply and transported anywhere on site.
- 4.7.3 **Mistair Fans** Mistair fans are strategically placed above stockpiles of waste at the entrance to the waste transfer building, these provide a light misting on stockpiles to dampen waste and prevent any potential dust leaving the building and are utilised for dust suppression when required. Mistair fans / sprinklers are linked to the onsite mains water supply which will continuously supply water for suppression.
- 4.7.4 The above suppression techniques will not be in use continually but only during the following circumstances where site management will inform staff to implement them:
 - a) If the weather has been dry for three days and waste stockpiles/surface are dry.
 - b) During dry/warm conditions i.e. temperatures above 75°F.
 - c) During weather conditions when winds reach 4 or above on the Beaufort Wind Scale.

- d) In the event of operational staff or site management are noticing dust plumes appearing on site or dust emanating off site from carrying out daily on/off site inspections.
- e) In the event the operator requires to load dusty waste which may cause airborne dust once being loaded.

4.8 Control Measures – wheel wash / wash down area

- 4.8.1 Site operatives will inspect vehicles prior to leaving the site and if required clean vehicle wheels before exiting using hose pipes to reduce the risk of mud/debris being tracked off-site.
- 4.8.2 In the unlikely event that the material is deposited on the public highway it will be treated as an emergency and will be cleared immediately by the operator using manual techniques (brush, hoses) or if required a road sweeper will be organised by the site manager.

4.9 <u>Control Measures – water supply</u>

4.9.1 A permanent mains water supply is available on site to ensure that dust suppression can function effectively. Any external water pipes will be lagged to prevent frost damage during winter months and the operator will set up a notification alert system with the Met Office in the event of a drought or hot weather being imminent. This will enable the operator to source water in the short and long term and store additional tanks if required prior to a potential water ban.

4.10 <u>Control Measures – processing of waste</u>

4.10.1 **Screener / trommel** – The initial trommel onsite is situated within the waste transfer building, the building structure will provide containment of any potential dust that could be produced as part of physical treatment operations. Mistair fans positioned at the opening of the waste transfer building will provide secondary mitigation for any dust that may escape the building.

- 4.10.2 The secondary trommel is partially positioned within the building, with the hopper and deposit of waste into this being within the confines of the building and the discharge / processed waste being deposited outside the building. The secondary trommel is positioned adjacent to a concrete panel wall which will provide protection for dust being produced on site.
- 4.10.3 **Shredding** the shredder utilised on site is fitted dust suppression measures that comprise of a spray bar at the output conveyor. Suppression will be utilised at all times when shredding is taking place. No shredding will take place unless the water suppression is in operation and functioning correctly.

4.11 <u>Control Measures – storage of waste</u>

- 4.11.1 The control measures implemented by site management to minimise the risk of dust and debris emissions from the continuing storage of wastes and the loading/unloading of these include:
 - a) Stockpiles will be sprayed with water during periods of dry/windy weather to prevent excessive drying and dust formation.
 - b) In the event of dust plumes on site, dust emanating off site, dry weather conditions or when winds reach 4 on the Beaufort Wind Scale, hoses will be used to dampen storage areas and stockpiles.
 - c) Drop heights will be kept to a minimum to prevent dust emissions where adjustment permits.
 - d) All waste which has undergone sorting/separation and are stored in dedicated bays will have a minimum 1m freeboard to prevent the waste exceeding the height of the bay and causing dust plumes.
 - e) In the event of high winds outside of operational hours (the likelihood of which will be checked daily via Met Office notifications) stockpile heights of potentially dusty wastes e.g., soils, stones and aggregate will be reduced by 1m and covered with tarpaulin to prevent wind whipping of material.
 - f) All waste stored within containers will not be overfilled so waste is overflowing beyond the confines of the container.

4.12 Control Measures – vehicle movements and mobile plant

- 4.12.1 A no idling policy is in place which ensures that engines are switched off when vehicles or plant are not in use. This policy will ensure that tail pipe emissions are significantly reduced.
- 4.12.2 The operator will follow the first in first out principle on site to reduce additional movements by mobile plant.

4.13 <u>Control Measures - loading and unloading vehicles</u>

- 4.13.1 The operator of the loading plant will direct vehicles to a position and location which reduces wind whipping of loaded material.
- 4.13.2 Drop heights will be kept to a minimum and tipped in a manner to ensure the pile does not exceed the 1m freeboard height of the bays / walls.

4.14 Control Measures - Process Monitoring

- 4.14.1 Process monitoring will be undertaken by site operatives to ensure procedures are being carried out effectively.
- 4.14.2 Following removal of waste from a bay a visual inspection of the bay will be undertaken to ensure all material has been removed before refilling. This ensures no residual material is left behind that could become dry and dusty from being stored for longer than required.
- 4.14.3 To ensure the site doesn't reach capacity and is unable to accept further waste loads, visual monitoring will be undertaken of storage bays and containers. If it is evident multiple bays or containers are full or near full and have not been emptied this indicates the site is nearing full capacity and the operator will arrange for waste to be removed or delay acceptance of loads until there is sufficient capacity available.

5 <u>Dust Management Risk Assessment Model</u>

5.1 Fundamental Considerations

- 5.1.1 **Source/Hazard:** A property or situation that in particular circumstances could lead to harm.
- 5.1.2 **Consequences:** The adverse effects or harm as the result of realising a hazard which causes the quality of human health or the environment to be impaired in the short or long term.
- 5.1.3 **Risk:** A combination of the probability of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.

5.2 Pathway

- 5.2.1 Important in the assessment of a particular risk(s) and to inform the subsequent management of the risk(s) is the identification of the pathway(s) through which the risk may affect the identified receptor(s). The following are examples of pathways:
 - Air
 - Ground
 - Water
 - Direct contact / exposure

5.3 <u>Consequences</u>

5.3.1 Table 5.1 highlights the consequences of the hazard(s) identified and the abbreviations for each as used in the Risk Assessment Table 5.5 in Section 5.7.

Table 5.1 – Consequences

Abbreviation	Consequences
Α	MINOR INJURY
В	MAJOR INJURY
С	DEATH
D	AIR POLLUTION
E	WATER POLLUTION
F	POLLUTION OF LAND

5.4 Effects of consequences

5.4.1 In order to quantify the level of risk and identify the appropriate management procedures, the potential effects must be considered, as outlined in Table 5.2 below:

Table 5.2 - Potential effects

Abbreviation	Effect of Consequences	Management Required?
S	SEVERE	In all cases
Мо	MODERATE	In most cases
Mi	MILD	Occasionally
N	NEGLIGIBLE	No

Note: "Management" is the action required to reduce the risk of a hazard causing a problem on site. Contingency measures are procedures which are in place to reduce the consequences of a hazard.

5.5 Risk estimation and evaluation (probability/frequency of occurrence of hazard)

5.5.1 Table 5.3 allows the likelihood of an occurrence of an identified risk to be assessed:

Table 5.3 - Likelihood

	Probability	Evaluation
1	Very likely	Could occur during any working day
2	Likely	Could occur regularly
3	Possible	Event possible
4	Unlikely	Event very unlikely

5.6 Risk Assessment Outcome (combination of probability & consequence)

5.6.1 Table 5.4 shows the resultant risk of an identified hazard or potential situation. This uses the hierarchy of both probability and consequence to assess the level of risk. The level of risk determines what level of management would be required in order to reduce the risk of occurrence and/or scale.

Table 5.4 - Risk assessment outcome

		Consequence				
		S	Мо	Mi	N	
bility	1	High	High	Medium	Low	
	2	High	Medium	Low	Negligible	
Probabi	3	Medium	Low	Negligible	N/A	
هٔ ا	4	Low	Negligible	N/A	N/A	

- 5.6.2 Where the risk assessment outcome is high, first-level management of the risk is essential, i.e. removal of hazard, implementation of major infrastructure/structural design measures to contain the risk/hazard and company policy changes to incorporate the management of the risk. All risk management measures must be supplemented with detailed induction training, spot training and tool-box talks to ensure all site staff and users are made fully aware of the risk/hazard, all potential consequences and necessary management and contingency procedures.
- 5.6.3 Where the risk assessment outcome is medium, the management of the risk should be tackled by management or delegates. If removal of the hazard is not possible, management will normally be met through implementing minor structural design measures or by imposing procedures for the prevention of occurrences which will be conveyed to all site staff through the appropriate training, including any contingency measures/procedures.
- 5.6.4 Where the risk assessment outcome is low, the management of the risk can be done wholly through appropriate training to site staff including any contingency measures/procedures.

5.6.5 Where the risk assessment outcome is negligible, site staff should be made aware of the possibility of an occurrence and contingency measures should be readily available to all staff should they be required.

5.7 Risk Assessment Table

- 5.7.1 The following pages contain the site-specific risk assessment for the site with appropriate remedial actions, recommendations and comments included for each identified hazard, potential contaminant, or situation.
- 5.7.2 Table 5.5 also contains references to the appropriate section(s) of the site's EMS for additional management procedures.
- 5.7.3 As discussed in the section above, all situations which identify a risk from Low –High should be incorporated into the staff/visitor training schedule, where appropriate and acted on as required.
- 5.7.4 Table 5.5, overleaf details the relevant pathways and receptors for each individual dust/emission source and relevant measures required to break these linkages. The control measures outlined in Section 4 will be included within these tables as well as additional specific measures.

SEE TABLES OVERLEAF

Table 5.5 – Source, Pathway, Receptor Routes

Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments	Assessment Outcome following action & recommendation
Dust / debris on site surfaces	Air	Local human population, including industrial units, neighbouring businesses, residential dwellings and surface water features, specifically: - Site workers and visitors Thorn Business Park Rotherwas Industrial Estate Surrounding infrastructure (roads) River Wye HTS Plant Sales Excalibur Sports SIG Roofing Hereford.	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	3	Low	Site surfaces will be dampened using hose pipes. The operator will pay special attention to the areas where dust/debris is likely to build-up i.e. near to treatment plant and stockpiles. All site operatives will be trained in these procedures, and it will be the responsibility of site management to ensure the measures have been carried out. Daily housekeeping inspections are undertaken on site to clear debris and litter and prevent it from leaving the permit boundary. Vehicle speed on site is restricted to 5mph. Signs are erected at the relevant areas of the site, including the main access gates, to advise drivers of the speed limit. This will reduce the resuspension of dust and particulate matter. Exiting vehicles leaving the site will avoid all areas where wastes are stored or stockpiled. All vehicles will be checked before they leave the site to ensure no mud/dust can stretch beyond the site access. All incoming/outgoing vehicle loads will be sheeted. Vehicle wheels will be cleaned using an on-site hose pipe if required. Mud or debris deposited onto the public highway will be treated as an emergency and cleaned by site operatives. If required, the site manager will arrange for a road sweeper to be deployed on the public highway. Continuous monitoring regime in place to identify any potential for dust leaving site boundary.	Negligible

Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments	Assessment Outcome following action & recommendation
Vehicles tipping into waste reception/storage areas	Air	As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	2	Medium	The main waste reception / tipping area is situated within a building and therefore any dust would likely be contained within the building. The waste transfer building has mistair fans strategically placed along the open front, mistair fans can be activated while depositing waste to lightly dampen the pile and suppress any dust. Drop heights will be kept to a minimum to prevent dust emissions which will be no more than 1m – 2m above the plant. The loading of waste into the plant is undertaken by a 360° excavator which can deposit directly into the hoppers, this is considered better method than a loading shovel. The operator will avoid double handling of waste. Staff continue to monitor the waste to ensure it does not escape the confines of storage bays and skips / containers. The site also has access to mains water and hoses, if upon visual inspection prior to tipping waste appears like it could produce a dust plume following tipping wastes can be dampened down	Low
Loading of waste into treatment plant	Air	As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	2	Medium	while still in the skip. Drop heights will be kept to a minimum to prevent dust emissions which will be no more than 1m – 2m above the plant. The on-site access to mains water and hosepipes will offer additional suppression. The operator will avoid double handling of waste and may directly load from vehicle directly into the treatment plant if feasible. Suspension of operations during conditions where winds reach 7+ on the Beaufort Wind Scale, if dust plumes occur on site or if dust is emanating off site following on/off site inspections. The initial screener / trommel which is part of the picking line is situated within the waste transfer building and will provide a degree of protection from winds and dust becoming airborne while material is being deposited into the treatment plant. The secondary trommels hopper is situated within the waste transfer building which will provide the protection mentioned above while loading waste into treatment plant. Processed waste from the secondary trommel will be deposited outside of the building.	Low

Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments	Assessment Outcome following action & recommendation
Processing of waste as part of mechanical recycling facility comprising screener / trommel, shredding etc	Air	As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	2	Medium	Shredding – the shredder utilised on site is fitted with dust suppression which will be utilised at all times when shredding is taking place. No shredding will take place unless the water suppression is in operation and functioning correctly. Operations will reduce or suspend if the site management detect noticing dust plumes emanating on site. The storage area bays are located to ensure that vehicles leaving the site do not track through wastes. All potentially dusty waste stored in bays will be stored with a 1m freeboard from the height of the bay. The site undergoes continuous monitoring by operational staff who will continue to inspect and clean the site daily in addition to monitoring stockpile and freeboard heights.	Low
Wastes dropping from conveyors into stockpiles	Air	As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	2	Medium	Refer to the above section in terms suppression via spray bars etc. Suspension of operations during conditions where winds reach 7+ on the Beaufort Wind Scale, if dust plumes occur on site or if dust is emanating off site following on/off site inspections. The stockpiles beneath the treatment bays can be sprayed using the hose pipes during the above weather conditions. Operations will reduce or suspend if the site management detect dust plumes on site or dust emanating off site from daily on/off site inspections.	Low
Prolonged periods of dry/warm weather or conditions where winds reach 4+ on the Beaufort Wind Scale	Air	As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	2	Medium	Additional (increased from one to three times) daily visual assessment / monitoring will be on and off site around the site perimeter in order to ensure dust is not escaping beyond the site. Continual use of mobile dust suppression methods (hose pipes, mistair fans) until weather conditions change/improve or inspections detail dust emanating on/off site is not occurring.	Low

Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments	Assessment Outcome following action & recommendation
Particulate emissions from the exhaust of vehicles / plant /generators and other non- road going machinery on site.		As above	Harm to human health – respiratory irritation and illness. Air Pollution Water Pollution	Moderate	3	Low	All vehicles, plant and equipment are serviced in line with manufacturer recommendations to ensure they are fit for purpose and ensure emissions are below the acceptable level. All vehicles, plant and equipment undergo daily inspections under the site's preventative maintenance schedule to ensure no visible faults are detected. Ongoing inspections will note any faults with machinery and if a fault detected, the site/compliance manager or TCM will decommission the plant/vehicle until it is fit for purpose.	Very Low - Negligible

6 Monitoring and Contingency Measures

6.1 **Monitoring and Recording**

Visual Dust Monitoring

- 6.1.1 Dust emissions at the site will be monitored by visual observation and recorded on the Dust Monitoring Form. There are no fixed locations for dust monitoring as this will change dependent on weather conditions and the direction of wind. Monitoring will take place anywhere within and around the site boundary. Monitoring results will be recorded on the Dust Monitoring Form, see Appendix IV.
- Oust monitoring will be carried out during operational hours. Recorded visual monitoring will be undertaken at least twice a day, for a minimum of five minutes each time by appropriately trained site operatives. Visual monitoring will take place at the beginning of the working day and when operations with the highest potential to produce dust are taking place. This is considered to be the most beneficial method to ensure that mitigation measures being implemented on site are effective. It is expected that staff members will also check for dust emissions as they approach or leave the site boundary.
- 6.1.3 If excessive dust emissions (dust clouds) are observed, the site manager will establish what is causing the excessive dust emission to be generated and take remedial action. The results of the investigation and what action was taken will be recorded.
- 6.1.4 If the operator increases suppression methods and the suppression methods are still not considered suitable, operations will reduce or cease until the problem has been fully rectified. Site management will be responsible for investigating dust issues and provide additional training to staff to prevent any re-occurrences.
- 6.1.5 Extra and unplanned monitoring will be carried out on site when conditions are particularly windy (4 or above on the Beaufort scale) or dry, new activities are being undertaken, new machinery is being used or following the receipt of a complaint or incident related to dust emissions.

6.1.6 Site operatives will continuously visually monitor dust emissions whilst plant is in operation and will control dust emissions using the procedures outlined in sections 4.3 – 4.14 and asking the site manager, compliance manager, TCM or third party for advice as required. Work procedures will be stopped/adjusted should it be evident significant dust is being emitted which has the potential to migrate offsite.

6.2 Staff Shortages / Human Error

- 6.2.1 In the event of unforeseen staff shortages arising from illness, suspension or no shows, the Operator will make a judgement whether to reduce the number of incoming loads, thus reducing processing frequency and divert material to an alternative site. The operator will then seek further employment within a timely manner to ensure the site can continue to operate at its required capacity.
- 6.2.2 All staff are trained and undergo toolbox talks every 12 months (or sooner if operations change) to reduce the impact of human error. In instances where a human error has caused to an on-site dust issue, the site may suspend operations until the issue has been rectified and the member of staff will be warned and re-trained accordingly.

6.3 Weather Conditions

- 6.3.1 The site will receive Met Office weather alerts for conditions which could cause a potential on or off-site dust complaint:
 - a) Dust plumes occurring on site, potentially if winds reach 4 on the Beaufort Wind Scale
 - b) Winds exceeding 7 on the Beaufort Wind Scale
 - c) Dust escaping beyond the site boundary.
 - d) Droughts or periods of hot weather exceeding 3 major dry days which could lead to water shortages, hosepipe bans and excessive dust.

6.3.2 The operator will install the following preventative measures on site to avoid serious dust pollution:

WINDS EXCEEDING 7 ON THE BEAUFORT WIND SCALE

- No sorting, processing or treatment of any wastes which are likely to be blown around during these wind conditions; operations would also be suspended where it is evident where dust is escaping beyond the site. Operations would only continue once the problem has been rectified i.e. by carrying out suppression or reducing stockpile heights or if weather conditions improve.
- Stockpiles will be reduced to further such as a 2m freeboard to prevent the material escaping beyond the site boundary.
- Stockpiles may be covered with tarpaulin in the event the above procedures are not considered effective.
- If higher winds i,e. amber/red alert on Met Office are present, the site will deploy the above measures and may be forced to close operations until conditions have improved.

DROUGHTS/WARM, DRY WEATHER

- In cases such as a hosepipe ban or water shortage, the site will ensure there is additional
 water available i.e. tanks which can be used to ensure suppression techniques can still
 function. Tanks will include IBCs filled with water and a mobile water bowser to be
 utilised.
- The operator will contact the water company daily to see when water supply is available, operations would reduce in these instances.
- Where dust is becoming a major concern then the operator will stop processing the material and cover the piles using tarpaulin until conditions or dust suppression techniques are considered effective.

6.4 Operational/Power failure

- 6.4.1 The site manager will be contacted by staff in the event of any operational failure such as the breakdown of plant, systems or equipment and will decide whether operations are to continue or be suspended prior to corrective action being taken. Serious operational failures will be recorded in the site diary and operations suspended if dust is apparent.
- 6.4.2 All details of defects, problems and repairs carried out will be recorded on a daily inspection form. Detailed comments may also be recorded in the site diary. All repairs will be carried out as soon as practicable.
- 6.4.3 All repairs to site security will be made on the discovery of the damage and the site will be made secure until the repair has been carried out.
- 6.4.4 Any major defects found during site inspections which are likely to lead to a breach of permit conditions will be repaired by the end of the working day in which they are found, where possible. If a repair is not possible by the end of the working day and a potential breach of permit conditions may occur, the EA will be contacted to agree a suitable timescale for repair.
- The operator would also be required to make a note of any unavoidable events plant/equipment malfunctions in the site diary, rather than just actual complaints received. This will ensure that if complaints are received retrospectively from either the Council/EA or directly, any circumstances which led to that complaint as a result of elements outside of the operator's control would be able to be attributed to the cause of the complaint. If there are significant dust releases outside normal operations, the operator will cease operation, investigate, and resolve the issue before continuing.

Reporting and Complaints Response

7.1 Reporting of Complaints

- 7.1.1 Should a complaint regarding dust be received by the site, the complaint will be recorded on the complaints form and investigated in accordance with the complaint's procedure.

 Details of information to be recorded as a minimum are:
 - a) Who made the complaint.
 - b) Date & time of the complaint.
 - c) The nature of the complaint.
 - d) Action taken.
 - e) Signature.
- 7.1.2 The person completing the form will then, if possible, make a note of:
 - a) the weather conditions at the time of the problem (rain snow fog etc.)
 - b) strength and direction of the wind; and,
 - c) the activities being undertaken at the time of the complaint, particularly anything unusual.
- 7.1.3 The site manager will identify what caused the excessive dust emissions to be generated. If the excessive dust emissions have been caused by a procedure not being carried out properly, then staff will receive further training on the dust procedures and this DEMP. If the excessive dust emission has been caused by plant failure, then the plant will be repaired as soon as possible.
- 7.1.4 All complaints will be acknowledged and investigated, with resultant actions reported to the complainant. Any complaints received by the Environment Agency relating to dust emissions from the site are dealt with on the same day.
- 7.1.5 If three or more complaints are received on the same working day, the TCM will escalate the complaint, review site operations taking place and commit to stop operations until the

cause has been identified. The known cause will not commence until the issue has resolved i.e. targeted suppression or plant malfunction and repair.

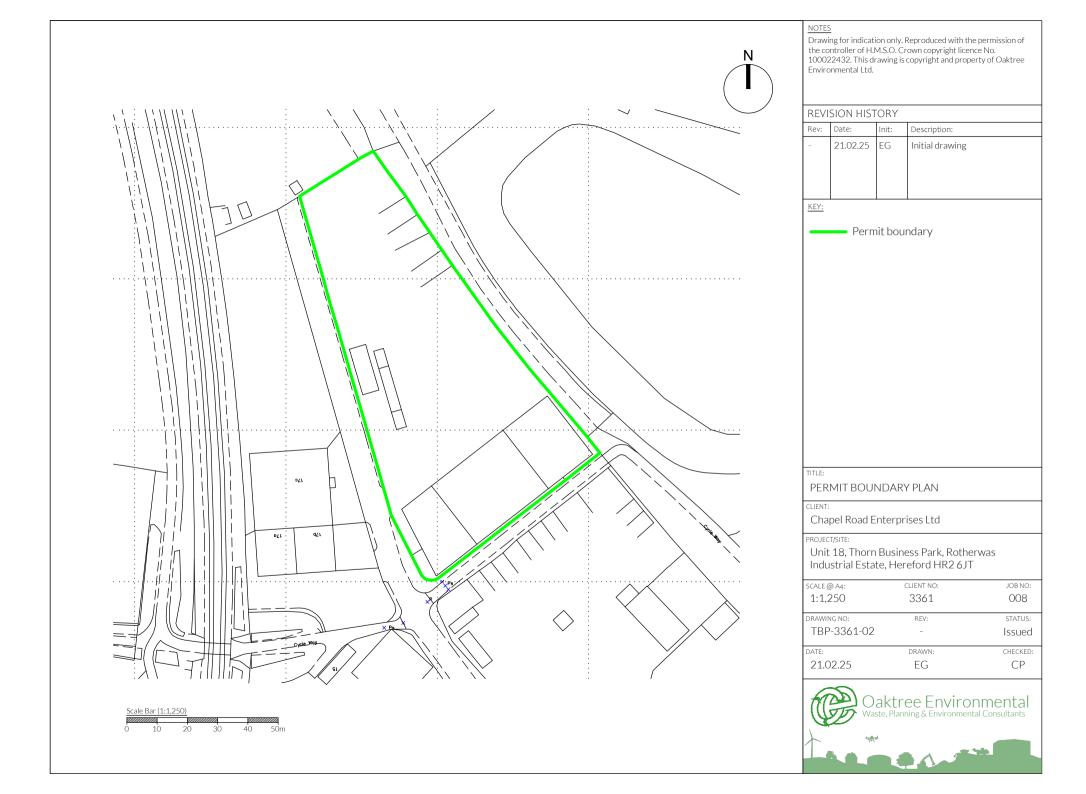
- 7.1.6 The operator would also be required to make a note of any unavoidable events plant/equipment malfunctions in the site diary, rather than just actual complaints received. This will ensure that if complaints are received retrospectively from either the Council/EA or directly, any circumstances which led to that complaint as a result of elements outside of the operator's control would be able to be attributed to the cause of the complaint.
- 7.1.7 If the source cannot be ascertained with 100% confidence, the site manager, compliance manager or TCM will either suspend or reduce the likely dust/particulate generating activities.
- 7.1.8 The EA will be notified by email of any third-party dust complaints received by the end of the working day including the complainant and the outcome of the investigation. Where complaints are substantiated as causing or likely to cause significant pollution, then the EA will be notified without delay, as required by conditions in the EP.

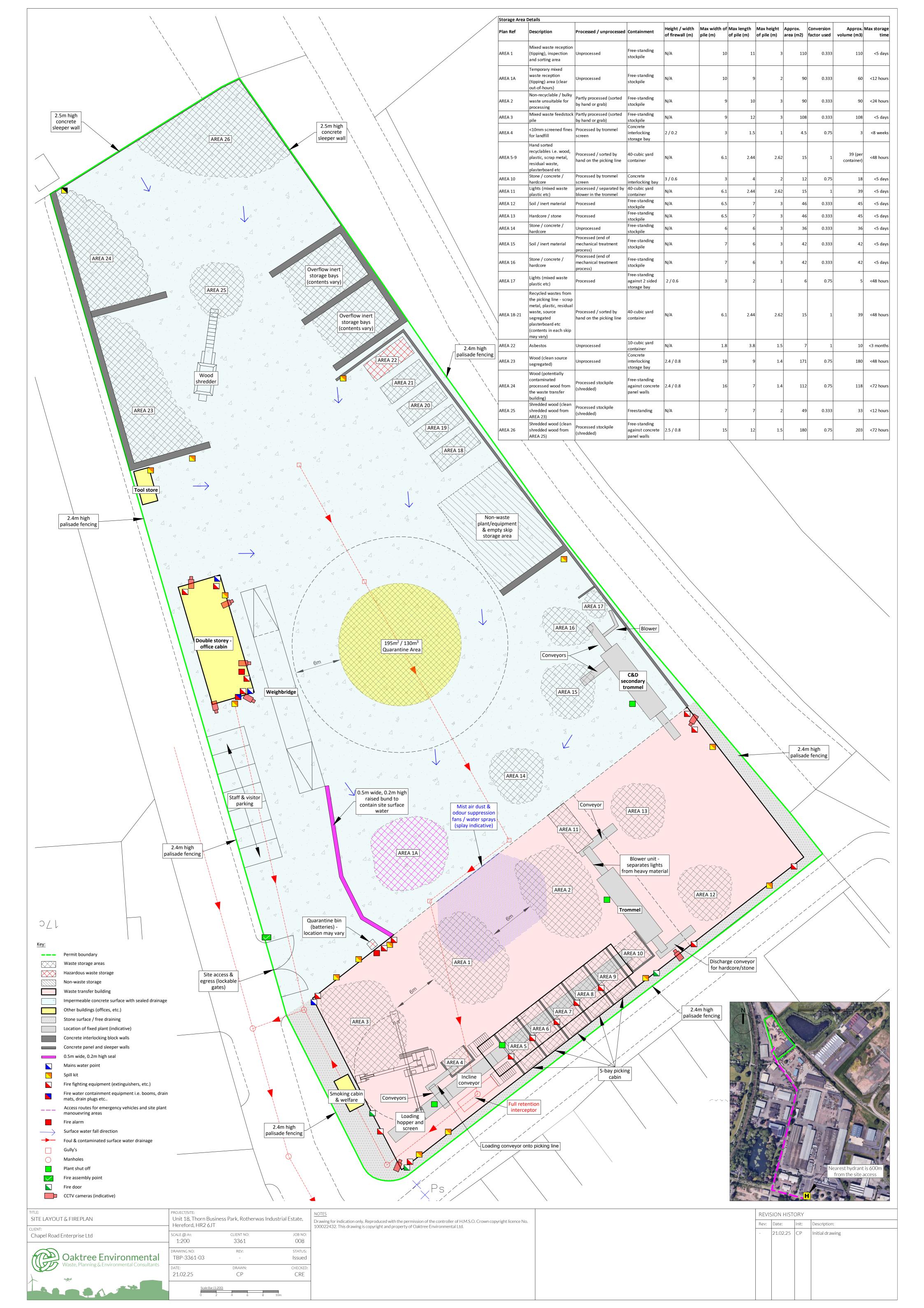
7.2 <u>Liaison with Neighbours</u>

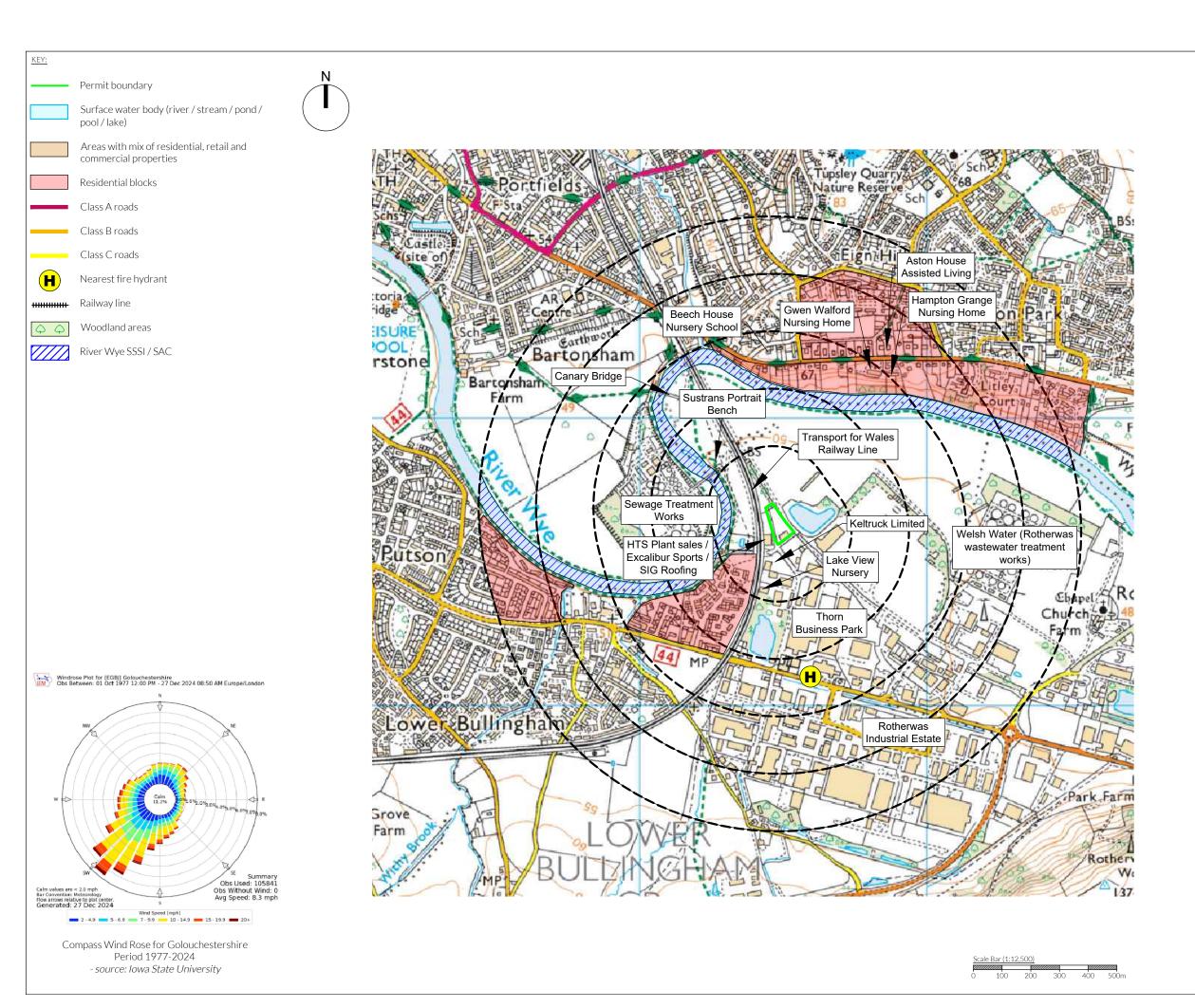
- 7.2.1 In the extreme event of significant but temporary dust releases outside normal operations, neighbours will be contacted to advise them of the situation and the action being taken. The EA will also be notified.
- 7.2.2 An open-door policy will be encouraged by the operator to enable any complaints from neighbouring premises (if received) to be dealt with immediately. The complainant will then be supplied with remedial actions taken and any procedures or measures put in place by the operator to reduce or ideally eradicate the likelihood of a subsequent complaint.
- 7.2.3 If any dust complaints are received, the complaint will be assigned to an operative familiar with the sites operation who will complete the form in Appendix III which will be kept for inspection on request by the LA and/or EA. Details of information to be completed are dates, nature of complaint, weather conditions at the time of the complaint, investigation details, action taken and a signature (as a minimum). Dust complaints will be investigated and

responded to within 24 hours and suitably reviewed by the site manager who is ultimately responsible.

Appendix I Drawings







NOTES

- Boundaries are shown indicatively.
- 2. Wind rose data shows the prevailing wind direction to be Southerly.

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REVISION HISTORY

Rev:	Date:	Init:	Description:
-	21.02.25	EG	Initial drawing

KE

Permit boundary

TITLE:

RECEPTOR PLAN

CLIENT:

Chapel Road Enterprise Ltd

ROJECT/SITE

Unit 18, Thorn Business Park, Rotherwas Industrial Estate. Rotherwas, Hereford, HR2 6JT

SCALE @ A3:	CLIENT NO:	JOB NO:
1:12,500	3361	800
DRAWING NO:	RFV:	STATUS:
	REV:	SIAIUS:
TBP-3361-04	-	Issued
DATE:	DRAWN:	CHECKED:
21.02.25	EG	CP



Appendix II Inspection Checklist

CHAPEL ROAD ENTERPRISE LTD							
DAILY INSPECTION	ON CHECKLIST						
DATE							
ITEM FOR VISUAL INSPECTION	TIME OF INSPECTION (START)	CHECKED Y/N	REMEDIAL ACTION REQUIRED				
↓	TIME OF INSPECTION (FINISH)						
EMERGENCY ACCES	SS (FREE FROM BLOCKAGES)						
COMBUSTIBLE WAS	STE STORAGE (AWAY FROM DN SOURCES)						
DAY TO INSPECT FO	E END OF THE WORKING OR SIGNS OF SELF-HEATING, ID ENSURE EXHUASTS ON TC						
DUST/FLUFF AROU	ND UNIT CHECK						
LITTER (I.E. LOOSE (COMBUSTIBLE WASTE						
PLANT/EQUIPMENT (BEFORE AND AFTE	T MAINTENANCE CHECKS R USE)						
FIRE QUARANTINE	AREA IS CLEAR OF WASTE						
DUST MONITORING	<u> </u>						
OTHER (SEE NOTES	BELOW)						
INSPECTION CARRI	ED OUT BY						
NOTES/ACTION (CONTINUE ON A SEPARATE SHEET IF NECESSARY):							
CHECKED BY		SIGNATURE					
POSITION		DATE					
SHEET		OF					

Chapel Road Enterprise Ltd WEEKLY INSPECTION CHECKLIST							
WEEK COMMENCI	NG						
ITEM FOR VISUAL INSPECTION	JAL (START)		REMEDIAL ACTION REQUIRED				
↓	(FINISH)						
,							
WASTE STORAGE A DIMENSIONS INCLU PREVENTION PLAN							
	ST (CHECK FOR UPCOMING NE IF WASTE OPERATIONS MPACTED)						
<u> </u>	JIPMENT AND SPILL KITS SHERS ARE IN PLACE AND						
INTEGRITY OF CON CRACKS ETC)	CRETE WALLS / BAYS (NO						
INTEGRITY OF IMPE	ERMEABLE PAD (NO CRACKS						
INTEGRITY OF WAT LEAKS OR CRACKS I	ER STORAGE TANK (NO ETC)						
INTERCEPTOR CAP	ACITY						
OTHER (SEE NOTES	S BELOW)						
INSPECTION CARRIED OUT BY							
NOTES/ACTION (C	ONTINUE ON A SEPARATE SH	EET IF NECESSA	ARY):				
CHECKED BY		SIGNATURE					
POSITION	•	DATE					
Sheet		of					

Chapel Road Enterprise Ltd MONTHLY INSPECTION CHECKLIST							
WEEK COMMENCI	NG						
ITEM FOR VISUAL INSPECTION	TIME OF INSPECTION (START) TIME OF INSPECTION	CHECKED Y/N	REMEDIAL ACTION REQUIRED				
↓	(FINISH)						
HOLES (IN GOOD W	ON SITE AND FREE FROM /ORKING CONDIITON)						
· ·	S SHOULD NOT BE FRAYED						
•	OCKETS NOT OVERLOADED) TINGUISHERS AVAILABLE						
FIREWATER BOOMS							
OTHER (SEE NOTES	BELOW)						
INSPECTION CARRI	ED OUT BY						
NOTES/ACTION (CO	ONTINUE ON A SEPARATE SH	EET IF NECESSA	ARY):				
CHECKED BY		SIGNATURE					
POSITION		DATE					
Sheet	t of						

Appendix III Complaints Form

Complaints Report Form						
Date Recorded	Reference Number					
Name and address of caller						
Telephone number of caller						
Time and Date of call						
Nature of complaint (noise, odour, dust, other) (date, time, duration)						
Weather at the time of complaint (rain, snow, fog, etc.)						
Wind (strength, direction)						
Any other complaints relating to this report						
Any other relevant information						
Potential reasons for complaint						
The operations being carried out on site at the time of the complaint						
	Follow Up					
Actions taken						
Date of call back to complainant						
Summary of call back conversation						
	Recommendations					
Change in procedures						
Changes to Written Management System						
Date changes implemented						
Form completed by						
Signed						
Date completed						

Appendix IV Dust Monitoring Form

CHAPEL ROAD ENTERPRISE LTD DUST MONITORING FORM								
WEEK BEGINNING								
DAY/DATE/TIME OF								
SHEET 1 OF		COMMENTS BELOW (AS MUCH DETAIL AS POSSIBLE); IF COMMENT IS NO – ADD FURTHER COMMENTS						
DAILY RECORDING INFORMATION		DUST MONITORING POINT 1	DUST MONITORING POINT 2	DUST MONITORING POINT 3	OTHER AREA OF SITE - SPECIFY			
WEATHER CONDITION	NS							
WEATHER TEMPERAT	URE							
WIND SPEED								
WIND DIRECTION					+			
PERIMETER INFRASTRUCTURE SU WATER JET SYSTEM	ITABLE							
FUNCTIONING								
ARE WASTE STORAGE STOCKPILES BELOW 5								
DUSTY MATERIAL STO								
VISIBLE FROM LOCAT								
ANY NOTICEABLE DUST PARTICULATES ON THE GROUND NEAR THE LOCATION	•							
ANY DUST APPARENT SITE	OFF							
EMISSIONS FROM PLANT/EQUIPMENT \	/ISIBLE							
SMOKE FROM PLANT TO BE SUITABLE	APPEAR							
HAS SITE MANAGEME BEEN INFORED OF TH INSPECTION								
DOES ACTION NEED TO BE TAKEN								
INSPECTION CARRIED OUT BY								
OTHER								
NOTES/ACTION (CONTINUE ON A SEPARATE SHEET IF NECESSARY):								
CHECKED BY			SIGNATURE					
POSITION			DATE					