

Bespoke Risk Assessment For Multipanel UK Limited

Standard Facility:

Waste Operation: Plastic Packaging Recycling

Location:

Multipanel, Eythorne CT15 4NL

Location of environmentally sensitive sites (km / m):

Greater than 50m (see below)

Risk assessment carried out by:

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Date:

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The scope of the permit and associated rules is defined by the following risk criteria:

- Parameter 1 Permitted activities - The storage of waste (R13,) and treatment consisting only of manual sorting, separation, screening, shredding, baling and compaction of wastes (R3, R4, R5).
- Parameter 2 Permitted waste types - EWC 15.01.02 LDPE
- Parameter 3 Quantity of waste accepted at the facility: less than 30,000 tonnes per annum.
- Parameter 4 All waste shall be stored and treated on an impermeable surface with sealed drainage system.,
- Parameter 5 The only point source discharges to controlled waters or groundwater, are surface water from the roofs of buildings and from areas of the facility not used for the storage or treatment of wastes.
- Parameter 6 The activities shall not be carried out within 200m of a European Site (candidate or Special Area of Conservation, proposed or Special Protection Area or Ramsar site) or a Site of Special Scientific Interest (SSSI).
- Parameter 8 The activities shall not be carried out within 50m of any well, spring, or borehole used for the supply of water for human consumption. This must include private water supplies.
- Parameter 9 The activities are not carried out predominantly using a limited number of the permitted waste types in a manner which significantly increases any of the risks compared to the generic operation of this type of facility, for example predominantly storing wastes which present a significant increase in fire risk.

Data and information				Judgement				Action (by permitting)	
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).

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Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Medium	Medium	Medium	Permitted waste types do not include dusts, powders or loose fibres so only a medium magnitude risk is estimated. There is potential for exposure if anyone is living or working close to the site (apart from the operator and employees).	Plastic is not granulated therefore production of dust will be low. Plastic shreds will be 3cm x 3cm in size.	Low
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Medium	Low	low	Local residents often sensitive to dust.	Plastic is not granulated therefore production of dust will be low	Low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Medium	Medium	Medium	Local residents often sensitive to litter.	Appropriate measures include clearing litter arising from the activities from affected areas outside the site.	Low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Medium	Medium	Medium	Local residents often sensitive to odour.	emissions shall be free from odour . 15.01.02 not odorous	Low

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Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Medium	Medium	Medium	Local residents often sensitive to noise and vibration	emissions shall be free from noise and vibration. Effects will be reduced by canopy/recycling building	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Medium	Medium	Medium	Permitted wastes may attract scavenging animals and birds. Permitted wastes may become nesting / breeding sites.	emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution. Effects will be reduced by only one waste code being accepted 15 01 02	Low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Medium	Medium	Medium	Insect pests can multiply on permitted wastes, particularly in summer months	emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution.	Low
Local human population and local environment	Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	Medium	Low	Hazardous waste are not permitted. Wastes are not stored in buildings or inside secure containers so they could be washed off-site, which will add to the volume of the post-flood clean up workload, rather than the hazard.	management system (will include flood risk management). Not in flood plain	Low
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Medium	Medium	Medium	Permitted waste types are non-hazardous therefore only a medium magnitude risk is estimated.	activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access).	Low

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Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Medium	Medium	Permitted waste types do NOT include sludges or liquids but are predominantly solids and all are non-hazardous therefore only a medium magnitude risk is estimated.	management system (will include fire and spillages).	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Medium	Medium	Risk of accidental combustion of waste is moderate.	management system (will include fire prevention plan and spillages procedures). Effects will be reduced. Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Medium	Medium	Medium	Permitted waste types do NOT include sludges or liquids but are predominantly solids and all are non hazardous so only a medium magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	All liquids shall be provided with secondary containment (applies to wastes and non-wastes such as fuels). Waste stored under canopy. Emissions of substances not controlled by emission limits with appropriate measures: storage & treatment on an impermeable surface with sealed drainage.	Low

<p>All surface waters close to and downstream of site.</p>	<p>Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.</p>	<p>Chronic effects: deterioration of water quality</p>	<p>As above. Indirect run-off via the soil layer</p>	<p>Medium</p>	<p>Low</p>	<p>Low</p>	<p>Waste types are non-hazardous so harm is likely to be temporary and reversible.</p>	<p>All liquids shall be provided with secondary containment (applies to wastes and non-wastes such as fuels). Run-off restricted by canopy over waste. Emissions of substances not controlled by emission limits with appropriate measures: storage & treatment on an impermeable surface with sealed drainage.</p>	<p>Low</p>
<p>Abstraction from watercourse downstream of facility (for agricultural or potable use).</p>	<p>Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.</p>	<p>Acute effects, closure of abstraction intakes.</p>	<p>Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.</p>	<p>Medium</p>	<p>Medium</p>	<p>Medium</p>	<p>Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off.</p>	<p>All liquids shall be provided with secondary containment (applies to wastes and non-wastes such as fuels). . Run-off restricted by canopy over waste. Storage & treatment on an impermeable surface with sealed drainage. Also the activities shall not be carried out within 50m of any well, spring, or borehole used for the supply of water for human consumption. This must include private water supplies.</p>	<p>Low</p>

Groundwater	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Medium	Medium	Medium	There is potential for contaminated rainwater run-off or leachate from permitted waste types.	All liquids shall be provided with secondary containment (applies to wastes and non-wastes such as fuels). Storage & treatment on an impermeable surface with sealed drainage. Also the activities shall not be carried out within 50m of any well, spring, or borehole used for the supply of water for human consumption. This must include private water supplies.	Low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	Unlikely to occur, but might restrict recreational use.	emissions of substances not controlled by emission limits shall not cause pollution.	Very low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Medium	Low	Waste operations may cause harm to and deterioration of nature conservation sites.	activities shall not be carried out within 200m of a European Site or SSSI; (Distance criteria as agreed with Natural England/Countryside Council for Wales). No nearby SSSI's or AONB's	Low
Local human population and all surface waters close to and downstream of site.	Serious Fire	Nuisance, harm to human health, loss of amenity, deterioration of water quality	Air transport then inhalation or deposition. Direct run off of fire water across site to surface waters.	Low	High	Medium	Waste fires are not common but approximately 300 fires pa linked to waste activities. Impact on health and amenity can be significant for many days or weeks.	Limit tonnage to 30000 tonnes. Requirement for Fire Prevention Plan which will limit storage times of waste	Low

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All surface waters close to and downstream of site.	Serious Fire	Loss of amenity, deterioration of water quality	Direct run off of fire water across site to surface waters.	Low	High	Medium	Waste fires are not common but approximately 300 fires pa linked to waste activities. In event of fire, fire water can be produced for days/ weeks. Contaminated firewater run-off can kill fish and aquatic life.	Requirement for Fire Prevention Plan	Low
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