

Environmental Risk Assessment

Facility:
Location:
Risk Assessment Carried Out By:
Date:

Horrocks Waste Management Limited
Off Manchester Road, Chequerbent, Bolton, BL5 3JA
AC Environmental Consulting Ltd
28-Aug-20

Date & Information				Judgement					
Receptor	Source	Harm	Pathway	Probability of Exposure	Consequence	Magnitude of Risk	Justification for Magnitude	Risk Management	Residual Risk
Local Human Population	Dust & Bioaerosols	Harm to human health - respiratory illness	Air Transport then inhalation	Medium	Medium	Medium	Permitted waste types received includes inert waste which could be a source of dust. Dust may be produced in relation to movements on the concrete yard surface.	Dust supression on site to be carried out by mechanical sweeper. Dampening equipment including misters will be used to suppress dust from the inert waste during dry periods. Procedures are incorporated into the site management plan. Operations occur predominatly in storage shed away from potential dusts and bioaerosols.	Low
Local Human Population	As above	Nuisance - dust on clothing, cars etc	Air Transport then deposition	Medium	Low	Low	Local residents comprise of employees in various industrial operations. Residential areas lie further out from site. Rose Cottage Day Nursery lies approximately 314m S of the site and St Thomas Chequerbent C of E Primary School is located approximately 628 miles SW of the site. Both will be unaffected by deposited dust.	As above	Low

Local Human Population, Livestock and Wildlife	Litter	Nuisance - loss of amenity and harm to animal health	Air Transport then deposition	Medium	Low	Low	<p>Local residents comprise of employees in various industrial operations. The storage and processing of skip waste has the potential to cause litter although this is mostly contained within the storage shed. There are farms near to site, therefore, it is possible that livestock might be found within 500m of the site. Livestock are at risk of ingesting loose litter. The nearest sensitive receptor is Rose Cottage Day Nursery approximately 314m S of the site. The site has mitigation methods in place to ensure livestock and nearby sensitive receptors are unaffected by site operations.</p>	<p>In windy periods litter on the yard will be contained by the site perimeter. Site fencing is 1.8m Palisade fencing. There are also 4m concrete firewalls at the southern boundary. Site fencing will form an effective litter barrier. Site operations predominatly occur within the building which will contain any produced litter. Procedures in site management plan detailed actions to be taken by site staff to inspect the site daily and to deal with litter as it arises.</p>	Low
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Local Human Population	Waste, litter and mud on roads	Nuisance, loss of amenity and road traffic accidents	Vehicles entering or leaving the site	Low	Medium	Medium	The site is predominantly concrete. Areas without concrete are used only by office staff. All waste operations occur on concrete surface including inside the storage shed. Therefore, it is unlikely that mud is transferred from the site surface to the road. The condition of the road and road safety is aided by the sites traffic management plan. This traffic management plan is subject to annual review or where incidents occur.	As above, plus a road sweeper will be employed to sweep concreted areas of the site and adjacent roads as conditions require.	Low
Local Human Population	Noise and vibration	Nuisance, loss of sleep and amenity	Noise through the air and vibration through ground	Low	Low	Low	Local residents mainly comprise of employees in various industrial operations. The Environmental Management System contains procedures to manage noise emanating from site operations. The activities carried out on site are generally low audible volume activities.	Ensure site operations remain fully in accordance with the EMS, this includes upholding the the 4 measures in the noise management plan. Due to the nature of the plant on site, topography and distances involved it is not believed that vibration will be an issue.	Low
Local Human Population	Odour	Nuisance and Loss of Amenity	Air transport then inhalation	Very Low	Low	Low	Permitted Waste Types do not include food wastes, sludges or liquids which are likely to give rise to odours.	Not significant if managed in accordance with the management plan.	Low

Local Human Population	Scavenging birds and animals	Harm to human health - waste carried offsite and faeces; nuisance and loss of amenity	Air transport and over land	Medium	Low	Low	Permitted waste types could possibly attract birds however these wastes are stored within the storage shed and processed rapidly.	Site activities, types of waste and low residence time on site will deter the use of stockpiles as nesting habitat.	Low
Local Human Population	Pests	Harm to human health; nuisance and loss of amenity	Air transport and over land	Low	Low	Low	Insects can multiply rapidly in certain conditions.	Site activities, the use of storage shed and skips and low residence time on site will deter the use of stockpiles by pests such as rats and will prevent infestation by insects occurring.	Low
Local Human Population & local environment	Flooding of the site	If wastes are washed off this may contaminate other buildings or habitats downstream	Flood waters	Low	Medium	Low	The site is not within a Flood Zone; the site topography reduces the risk of flooding. Permitted waste types are kept inside the storage building or in 40cyd skips. The ACO drain and deployable WaterSax will contain water on site and ensure it drains to the site interceptor appropriately.	A flood risk assessment was undertaken as part of the planning permission and the area was confirmed to be outside of flood zone 2 and 3. There are no historic records of any flooding.	Low
Local Human Population	All onsite hazards; wastes, machinery and vehicles	Bodily injury	Direct Physical contact	Medium	Medium	Medium	Permitted Waste types consists of non hazardous material. Hazardous waste is rejected from site. Under normal circumstance no direct contact with the hazardous elements of these is possible and so only a medium risk is envisaged. Plant and machinery is used in skip and inert waste operations and must be checked under HSE guidelines.	Handling of hazardous wastes and non conforming wastes are subject to procedures in the site management plan. Site has excellent security and has not experienced any vandalism, thefts or attempted break ins.	Low if managed in accordance with procedure.

Local Human Population & local environment	Arson and/or vandalism causing the release of polluting materials to air, water or land.	Respiratory irritation/illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution to water or land.	Air transport of smoke. Spillages and contaminant run-off.	Low	Medium	Medium	Permitted waste types are non-hazardous and the greater part of the wastes handled on site are non-combustible. Some wastes such as cardboard have a higher potential for fire and these are stored in a 40cyd skip for easy access in case of a fire. Combustible wastes are subject to procedures in the site management plan to ensure the safe and efficient handling of the wastes. Site security is comprehensive due to the valuable nature of the products and consists of a CCTV system. The system is monitored and police would be alerted within minutes of an alarm activation.	Activities shall be managed and operated in accordance with the Environmental Management System (which includes site security measures to prevent unauthorised access) and the approved Fire Prevention Plan.	Low.
Local Human Population & local environment	Accidental fire causing the release of polluting materials to air, water or land.	Respiratory irritation/illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution to water or land.	Air transport of smoke. Spillages and contaminant run-off.	Medium	Medium	Medium	Some wastes on site are flammable such as cardboard. These have a higher potential for fire and these are stored in 40cyd skips and subject to procedures in the site management plan to ensure the safe and efficient handling of the wastes.	As above. Activities will be managed in accordance with the environmental management system (which includes fire and spillages) and the approved Fire Prevention Plan. Permitted activities do not permit the burning of wastes and site procedures restrict hot works, smoking etc to further reduce risk of accidental fire.	Low if managed in accordance with the site management plan.

All surface waters close to and downstream of site	Spillage of liquids, leachate from waste, contaminated run-off	Acute effects: Oxygen depletion, fish kill and algal blooms	Direct run off from site across ground surface, or via drains.	Low	Medium	Low	Permitted waste types do not include liquids or sludges. The site has an impermeable concrete surface where waste is stored, which drains via the ACO drain to an interceptor towards the east of the site. There is no direct run off from site.	A spillage control procedure forms part of the site management plan.	Low if managed in accordance with the site management plan.
All surface waters close to and downstream of site	As above	Chronic effects: deterioration of water quality	As above	Low	Medium	Low	As above.	As above.	Low.
Abstraction from watercourse downstream of facility (for agricultural use or potable use)	As above	Acute effects: Closure of abstraction intakes	Direct run off from site across ground surface, or via drains then abstraction	Low	Low	Low	Water course must have high flow for abstraction to be permitted which would reduce effects through dilution. Boreholes are unlikely to be affected by surface water run off.	The site is not within a source protection zone and no potable water abstraction licences or surface water abstraction licenses are held within 1000m of the site.	Low.
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole	Transport through soil/ground then extraction at borehole	Low	Low	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above, plus procedures in the Management System will effectively mitigate this risk.	Low
Local Human Population	Contaminated water used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illnesses	Direct contact or ingestion	Low	Medium	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above, plus procedures in the Management System will effectively mitigate this risk.	Low
Protected Sites- European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering or disturbance	Any	Very Low	Medium	Low	There are no protected sites within a 1000m distance of the permitted site	The distance from the permitted site to an SSSI is such that it is highly unlikely that either of these sites will be affected by any proposed activity.	Low