

ERA8 Fugitive Emissions – to Air – Odour, Dust & Particulate Matter

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
<i>What has the potential to cause harm?</i>	<i>What is the risk? What do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>How likely is this contact?</i>	<i>What is the harm that can be caused?</i>	<i>What is the risk that still remains</i>	<i>What measures will we take to reduce the risk?</i>	<i>What risk remains following the application of management measures?</i>
ERP1 Reception Vehicle Movements ERP2 Storage ERP3 Production processes ERP4 Material Dispatch	Humans & Property Environmentally Sensitive Sites Atmosphere Inhalation of particles Deposition of dust/particles on property and land Derogation to amenity value	Air	LOW	MEDIUM	MEDIUM	- Majority of wastes are stored internally, within bulk bags or palletised. Only external wastes are metals stored in designated bays. - Wastes received not associated with potential risk of dust. - Bulk bags are regularly reviewed for integrity to prevent unintended liberation of materials. - Daily maintenance and inspections will be undertaken. - Vehicles and machinery will be operated and maintained in lines with manufacturers specifications - Regular maintenance/cleaning of processing equipment will remove particulate build ups. - Equipment is connected to a filtered LEV system to extract/collect dust fibres from the process line - Treatment/shredding will only take place inside the building.	LOW

ERA9 Fugitive Emissions – to Air – Litter & Debris

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
ERP1 Reception Delivery of material to the site ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Humans & Property <i>Litter/Debris/ Nuisance]</i>	Air; windblow, physical transport and deposition	LOW	MEDIUM	MEDIUM	- An LEV system is allied to equipment to collect/extract any dust or fibres from the shredding process. - The general nature of the waste that is collected is likely to not cause litter/debris, nor contain significant amounts of light or loose material. - Daily inspections of site surfaces will remove any litter or debris if discovered and prevent spread	LOW

ERA10 Fugitive Emissions – Pests, Vermin & Scavengers

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
ERP2 Storage ERP3 Treatment processes	Humans & Property	GROUND	LOW	LOW	LOW	- Types of wastes accepted at site do not contain putrescible matter and therefore will not attract pests.. - Pest control contractor would be employed where required	VERY LOW

ERA11 Fugitive Emissions – Mud & Debris

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
ERP1 Reception Vehicle Movements ERP4 Material Dispatch	Humans & Property <i>Amenity impact</i>	Direct deposition	MEDIUM	LOW	MEDIUM	- Vehicles can undergo washing if required. - Incoming and outgoing vehicles will be reviewed to ensure not mud or debris could be tracked back onto the roadway. - Daily inspections by site staff and records kept.	LOW

ERA12 Fugitive Emission – to Water

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
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What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
ERP1 Reception Vehicle Movements ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Environmentally Sensitive Sites Surface Water 1.1km River Clywedog Groundwater Contamination	Land, water, runoff	LOW	MEDIUM	MEDIUM	- Processed waste is stored within bulk bags or palletised, the majority internalised. - Site inspections are undertaken daily. Site surface is maintained. - Site sits on an impermeable surface, and all treatment processes take place internally. Surface water drains will be covered if ingress needs to be prevented. - Integrity of sealed site surface and drainage system shall be checked as part of daily site inspections. - Spill kits located on site and employees trained in their use.	LOW

ERA13 Accidents

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
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What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
Transferring substances							
ERP1 Reception Vehicle Movements ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	<i>Humans & Property</i> <i>Sites Surface Water</i> <i>Groundwater</i> <i>Atmosphere</i> <i>Adverse impact</i>	Land, air, water	LOW	MEDIUM	MEDIUM	• Receipt of waste is planned. • Limited vehicle movements on site limits risk of accident. • A competent individual is present during delivery and dispatch. • Unloading isn't undertaken until full appropriate PPE is worn • Appropriate training regarding process and plant operation is given. • Spill kits on-site and employees are trained in their use.	LOW

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Equipment Failure							
ERP1 Reception Vehicle Movements ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Humans & Property <i>Environmentally Sensitive Sites</i> Surface Water Groundwater Atmosphere <i>Adverse impact</i>	[Land, air, water]	LOW	MEDIUM	MEDIUM	- Vehicles and process equipment are maintained in accordance with their maintenance schedules or when applicable. - Bulk bags are checked as part of periodic site inspection for integrity. - Critical spares held on site. - Planned maintenance program limits failure of key process components.	LOW
Flooding							
ERP1 Reception ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Humans & Property <i>Protected Nature Conservation</i> Groundwater Atmosphere Adverse	Land	LOW	LOW	LOW	- Emergency procedures in place, back up generator for shutters. - Monitoring of weather warnings/flood alerts/EA warnings. - Fuels/oils or any other potentially polluting liquids are stored within appropriate containers with 110% secondary containment.	LOW

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						Site is located in Flood Zone 1 when accounting for rivers and sea. The majority of the site is also in Flood Zone 1 when accounting for surface water. An eastern section of site is located in Flood Zone 2.	
Vandalism							
Entire Process	Humans & Property Environmentally Sensitive Sites Surface Water Groundwater Atmosphere Adverse impact	Land, air,	LOW	MEDIUM	MEDIUM	- Site is secured by fencing and gated. - Site is secured with locked roller shutter door. 24/7 monitored security systems (CCTV). - Site is equipped with an intruder alarm.	LOW

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Fire							
[ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch]	Humans & Property <i>Environmentally Sensitive Sites</i> Surface Water Groundwater Atmosphere <i>Adverse impact</i>	Spread by Physical contact, and winds.	LOW	HIGH	MEDIUM	- Machinery shall be maintained in accordance with the appropriate maintenance schedule or when required. - Emergency Procedures in place. 24/7 security in place via CCTV. - Operational area is non-smoking - Fire Prevention and Mitigation Plan details measure to manage and reduce risk. - Stockpiles are kept to the minimum practicable. - Various fire extinguishers are located throughout the operational area.	LOW

ERA14 Noise & Vibration

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ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Noise sensitive locations¹ Environmentally Sensitive Sites	Air	LOW	MEDIUM	MEDIUM	- Operations are only carried out within permitted hours. - Noise Impact Assessment (PA1275-RO2-PO1) identifies activities as low impact. - Plant and equipment are inspected and maintained in line with maintenance schedule set out by the manufacturer. - Operations are only carried out within permitted hours (daytime only) - Treatment processes are all conducted internally.	LOW

¹ [Noise and vibration management: environmental permits - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/noise-and-vibration-management-environmental-permits), Updated 31 January 2022

ERA15 Climate Change

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
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ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Humans & Property Environmentally Sensitive Sites Surface Water Groundwater Atmosphere Adverse impact	Land, air, water	MEDIUM	MEDIUM	MEDIUM	- Daily inspections of waste materials, site, plant and equipment by site staff and records kept. - Regular site cleaning and use of dust extraction systems (LEV) - Site drainage has a sealed drain system that goes into foul sewer, External drainage of areas not utilised for storage or treating of will discharge fugitively to the local hydraulic regime	LOW