

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 (Delivery of materials to the site) 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	MEDIUM	MEDIUM	MEDIUM	- Risk from odour is limited, owing to the limited types of waste have potential to cause fugitive odour emissions. - Olfactory monitoring is carried out on site boundary at a suitable downwind location as part of regular site checks, odour will be identified and removed from site or suitably addressed. - Deliveries are inspected and non-conforming wastes rejected from site if necessary - All waste treatment processes are carried out within an enclosed building - All vehicles' loads are sheeted, or kept in enclosed vehicles/containers where appropriate whilst in transit - Storage of waste/recyclate materials with the potential to generate dust will be undertaken within sealed containers - A misting system has been fitted to the MRF equipment and sprays a fine water mist onto conveyor drop points.	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 Environmentally Sensitive Sites <i>Litter/Debris/ Nuisance</i>	AIR	MEDIUM	MEDIUM	MEDIUM	- All loads will be sheeted, or kept in enclosed vehicles/containers where appropriate, whilst in transit; Waste received within designated area. - All access manoeuvring routes will be maintained in good condition and be kept clean and free of debris. - All loads will be checked prior to dispatch to ensure that vehicles are clean and free from debris. - All waste storage and treatment will be conducted within the main treatment building and in accordance with good housekeeping practices, regular housekeeping of site surfaces to remove litter and debris and prevent spread. - Waste/recyclate materials stored externally are generally too bulky to be windblown and are containerised where possible. - A daily litter pick is undertaken, increased as required or carried out immediately in the event of any spillage or escape from the premises	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 Environmentally Sensitive Sites	Ground	MEDIUM	MEDIUM	MEDIUM	- Most of the waste proposed to be accepted for processing at the facility are not of the nature that could typically attract pests. Such as high standards of operational practices to mitigate any potential that exists - Daily site inspections and good housekeeping procedures will be maintained to reduce any occurrence and allow appropriate measures to be taken where necessary. - If an increase in a pest population is observed, the source will be investigated in order to undertake the most effective mitigation measures. If necessary, a pest control contractor shall be employed. - Dedicated Pest Management Plan (K529.1~09~010).	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 (delivery of material to the site) ERP4 Material Dispatch	Humans & Property <i>Amenity impact</i>	Direct deposition	LOW	LOW	LOW	- The whole facility operating areas, entrance way and site roads are surfaced (concrete or tarmac) which will prevent the general and subsequent tracking of mud and debris Internal haul routes would be maintained to minimise mud/debris. - All vehicles hauling waste will be sheeted or fully enclosed where appropriate to avoid the loss of waste during transport. - If mud or debris arising from the facility operations is spread either on to the wider facility site or onto public areas outside the site, any available manual or mechanical means shall be employed to remove any deposits - All vehicles will be supervised during loading to ensure that vehicles are not overfilled.	VERY LOW

ERA12 Fugitive Emission – to Water

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	Environmentally Sensitive Sites Surface Water The closest surface water feature is the river Witham (300 m north of the permit boundary) Groundwater Contamination	Land, water, runoff	LOW	MEDIUM	MEDIUM	- All operations are undertaken within an impermeable surface on a sealed drainage system. - Food waste operations are undertaken on a dedicated sealed drainage system and subject to an approved trade effluent consent. - A spill procedure is in place to deal quickly with any spillages and leaks of waste materials when materials are in transit around the main building. - All waste liquids awaiting removal from site (waste paint etc) are stored within the Transport Yard. These are contained within bunded IBC containers or kept within their original containers and stored within locked metal cages. - Those hazardous wastes stored externally are stored in bunded, weatherproofed containers and underlain by a drainage system that can be sealed. Storage duration is minimised as far as practicable.	LOW

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						- Hazardous wastes are stored in weatherproof containers/bunded containers to prevent potential contamination to the drainage system. - All above ground external storage tanks are bunded to 110% of the total contents of the largest tank. The integrity of the tanks and bunding are inspected daily. All pipework and connecting hoses associated with tank transfers are contained within bunded	

ERA13 Accidents

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
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Transferring substances							
ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	[Humans & Property] <i>Environmentally Sensitive Sites</i> <i>Surface Water</i> <i>Groundwater</i> <i>Atmosphere</i> <i>Adverse impact</i>	Land, air, water	LOW	MEDIUM	MEDIUM	- All vehicles delivering and collecting materials to / from the site are sheeted, waste is containerised, inside vehicle or wheelie bin. - Daily inspections of site infrastructure will be undertaken by the Technically Competent Manager (TCM) or a person appointed by the TCM. Loading / unloading occurs within designated areas inside the waste treatment building. - Spill kits on-site and employees are trained in their use.	LOW

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Equipment Failure							
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	LOW	MEDIUM	MEDIUM	- All site operators are trained in the use of site plant and equipment. - Operator training is reviewed regularly through refresher courses to ensure continued competence in their daily tasks. - All equipment is periodically inspected in accordance with manufacturers' guidelines and manuals to ensure the plant and equipment is available for work, when required.	LOW
Flooding							
ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4	Humans & Property Environmentally Sensitive Sites Surface Water Groundwater Adverse impact	Land, water	LOW	MEDIUM	MEDIUM	- If the facility is in imminent danger of flooding, or a flood alert has been issued, all electrical supplies in the affected area will be isolated - If possible, all stocks of chemicals and fuel will be removed from the risk area - If at all practicable, all wastes stored within the waste reception area in so far as they could potentially be affected by flood water will be	LOW

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Material Dispatch						removed from site or containerised to a safe area not at risk • All plant will be removed from the area at risk.	
Vandalism							
ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes ERP4 Material Dispatch	Humans & Property	Land, air, water	LOW	MEDIUM	MEDIUM	• Site is secured by fencing and gated access • Site has security systems (CCTV) and alarm system. • The site is remotely monitored via CCTV 24/7, 365 days a year, and can be viewed at any time.	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 through physical contact; fanned by winds	LOW	MEDIUM	MEDIUM	- A fire emergency procedure in place, that states what to do in case of a fire. - The main site is a no smoking area, and has a designated smoking area - All parts of the facility have installed and equipped with a sprinkler system and a dedicated fire alarm with audible signals - Firefly fire detection, flame detection and suppression system and four FireVu (thermal imaging detection) cameras are located within the main warehouse and trained on waste storage bays. - All incoming waste is source segregated, and storage areas are organised with appropriate breaks to limit risk even further. - There is 1 fire hose located on site, and extinguishers in location agreed by a fire safety consultant	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, land	LOW	MEDIUM	LOW	- The site is located within an established commercial area, surrounded by other commercial businesses, as shown in the Site Setting Plan (K529.1~20~002). - All machinery and plant used will be fitted with silencing equipment and/or noise screens and will be regularly maintained, to reduce noise levels. - Vibration is unlikely to be an issue for the bulk of the operations with the only potential source being the container loading activity. Due to proposed operating procedures and, vibration is unlikely to become a problem in this instance. - Unacceptable noise emissions will be noted and recorded, and attempts will be made to identify the source and remediation measures undertaken.	VERY 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 <i>Environmentally Sensitive Sites</i> Surface Water Groundwater Atmosphere <i>Adverse impact</i>	Land, air, water	LOW	MEDIUM	MEDIUM	- Daily inspections of waste materials, site, plant and equipment by site staff and records kept. - Regular site cleaning and use of dust suppression systems. - Site drainage has a sealed drain system that goes into foul sewer, External drainage of areas not utilised for storage or treating of waste will discharge fugitively to the local hydraulic regime.	LOW