



Environmental Risk Assessment (ERA)

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Fresh Start Waste Services Limited.

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Minerals
Waste
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Environmental Risk Assessment (ERA) – Fresh Start Waste Services (Hilton Square)

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
Local Human Population	Release of particulate matter (dusts) & micro-organisms (bioaerosols)	Respiratory irritation & illness Gastro-intestinal illness	Air: inhalation, ingestion or inoculation Deposition on food / crops followed by ingestion	Medium	Medium	Medium	<ul style="list-style-type: none"> Permitted waste is non-hazardous* and excludes dust, powders & loose fibres Potential to produce bioaerosols Activities include transfer, sorting, manual & mechanical separation, bulking up, baling and screening, Potential exposure to people living / working close to the site (exc. operator / employees) Potential for fugitive dust emissions from transfer & treatment during prolonged dry weather (e.g. Summer) 	<p>All waste (except clean hardcore) will be stored & treated inside an enclosed building / container</p> <p>Site is not located within an AQMA</p> <p>Permit requirement: emissions of substances not controlled by emissions limits shall not cause pollution</p> <p>Appropriate measures shall be followed</p> <p>Emissions management plan & risk assessment review implemented if required</p>	Low
Local Human Population	Waste, litter and mud on local roads	Nuisance Loss of amenity Road traffic accidents	Vehicles entering & leaving site	Medium	Medium	Medium	<p>Risk of unsafe road surfaces in wet weather</p> <p>Local residents often sensitive to mud on roads</p>	<p>As above and: Waste which poses a risk of windblown litter will be stored and treated in a building.</p> <p>Appropriate measures implemented (and documented in the management system) to prevent & minimise emissions inc. mud tracking & litter from site.</p>	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
								Emissions management plan will be implemented if required	
Local Human Population	Odour	Nuisance Loss of amenity	Air: inhalation	Medium	High	High	Potentially odorous waste types (e.g. food) are accepted on site	<p>Potentially odorous waste types will be stored & treated inside an enclosed building</p> <p>Emissions free from odour at levels likely to cause pollution</p> <p>Additional controls & requirements for food waste storage (stored in sealed container in enclosed building, short residency time, cleaning / disinfection programme)</p> <p>Odour Management Plan will be implemented</p>	Low
Local Human Population	Noise & Vibration	Nuisance Loss of amenity for local residents & workplaces Loss of sleep	Air - (Noise) Ground - (Vibration)	Low	Medium	Medium	Local residents are often sensitive to noise & vibration	<p>Emissions free from noise & vibration at levels likely to cause pollution</p> <p>Waste will be processed inside a building.</p> <p>Noise Impact Assessment concluded: no adverse impact is predicted at the receptors due to the proposed development</p> <p>Noise & Vibration Management Plan implemented if required</p>	Low
Local Human Population	Scavenging animals & birds	Nuisance Loss of amenity Harm to human health through	Animals / birds travelling over land & air	Medium	High	Medium	Permitted wastes could attract scavenging animals & birds	All waste (except clean hardcore) will be stored & treated inside an enclosed building / container	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
		waste carried off-site and faeces						Emissions Management Plan will be implemented if required.	
Local Human Population	Pests e.g. flies	Nuisance Loss of amenity Harm to human health	Flies travel through air / over land	Medium	High	Medium	Some permitted waste streams (e.g. food) may attract flies.	<p>All waste (except clean hardcore) will be stored & treated inside an enclosed building / container</p> <p>Cleaning / disinfection programme will be implemented</p> <p>Pest Control will be implemented</p> <p>Emissions Management Plan & changes to Management System will be implemented if required.</p>	Medium
Local Human Population & Local Environment	Flooding of Site	Waste washed off-site contaminating buildings, gardens & natural habitats downstream	Flood water	Low	Medium	Medium	<p>Majority of permitted waste types are non-hazardous and will be stored within an enclosed building</p> <p>Leachate may have a high biological oxygen demand (BOD) and suspended solids.</p>	<p>Not in a Flood Risk Area.</p> <p>Complies with sensitive location exclusions: Not within 500m of a European site, Ramsar, Site of Special Scientific Interest or Marine Conservation Zone; or within a groundwater source protection zone 1.</p> <p>Activities will not be carried out within: (a) 50m of a National Nature Reserve, Local Nature Reserve, Local Wildlife Site, Ancient woodland or Scheduled Ancient Monument. (b) 50m of a site that has species or habitats protected under the</p>	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
								<p>Biodiversity Action Plan that the EA considers at risk to this activity;</p> <p>(c) 250m within the presence of Great Crested Newts where it is linked to the breeding ponds of the newts by good habitat;</p> <p>(d) 10m of a watercourse;</p> <p>(e) an Air Quality Management Area (particulate matter PM₁₀)</p> <p>Written Management System will include controls to minimise risks from operations, maintenance, accidents, incidents & non-conformances.</p> <p>Accident Management will include assessment of flood risk, contingency plans (diversion of waste), emergency procedures (and associated communication)</p>	
Local Human Population & Local Environment	<p>Fire Arson and/or vandalism</p> <p>Spontaneous Combustion</p> <p>Electrical Faults</p>	<p>Respiratory irritation, illness and nuisance to local population.</p> <p>Injury to staff, firefighters or arsonists/vandals.</p> <p>Pollution of water or land.</p>	<p>Air – smoke & fumes</p> <p>Surface Water drains & ditches (direct run-off) – spillages & contaminated firewater</p>	High	High	High	Combustible Wastes stored / treated on site	<p>Written Management System will include operations, maintenance, accidents, incidents & non-conformance, and measures to prevent / control fires & contain firewater.</p> <p>Fire Prevention Plan</p> <p>Waste Acceptance Procedure</p> <p>No burning of waste</p> <p>No Smoking / Vaping</p>	Medium

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
Risk to local human population, livestock and wildlife	Litter on surrounding land and in final material	Nuisance Loss of amenity Harm to animal health	Air & land – litter carried on wind and deposited on land	Low	Medium	Low	Local residents are sensitive to litter Waste types accepted under this permit which are likely to cause litter must be stored & treated in a building	Waste which may cause litter will be stored & treated inside an enclosed building Management System will include Waste Pre-acceptance & Acceptance Procedures to minimise the risk of accepting non-conforming waste. Permit requirement: emissions of substances not controlled by emissions limits shall not cause pollution Emissions Management Plan implemented if required. Implement Appropriate Measures Guidance	Low
Risk to local human population, livestock and wildlife	Unauthorised access to site	Injury to humans or livestock	Physical contact with on-site hazards (waste, plant and equipment)	Low	Low	Low	Management System includes procedures for worker and visitor safety.	Appropriate Measures Guidance will be implemented Written Management System will include accident prevention, emergency response and site security measures. Emergency contact details will be displayed at site entrance Visitors / contractors will receive H&S induction & Site Rules Site entranced will be manned, 24-hour CCTV, secure boundary with lockable gates.	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
Surface waters close to and downstream of site	<p>Acute effects from spillages, leachate and contaminated* rain-water run-off</p> <p>*organics, ammonia or suspended solids</p>	<p>Oxygen depletion</p> <p>Fish kill</p> <p>Algal blooms</p>	Direct run-off from site over land, through surface water drains & ditches	Low	Low	Low	<p>Potential for contaminated rain-water run-off from waste activities especially during heavy rain.</p> <p>Leachate may contain suspended solids or organic mater</p>	<p>Activities are not within 10m of a water course or located in a groundwater source protection zone 1.</p> <p>All waste (except clean hardcore) will be stored & treated inside an enclosed building with an impermeable surface & sealed drainage.</p> <p>Written Management System will include operations, maintenance, accidents, incidents & non-conformances.</p> <p>Liquids will be stored in secure containers with secondary containment meeting CIRIA 736.</p> <p>Permit requirement: emissions of substances not controlled by emissions limits shall not cause pollution</p> <p>Appropriate Measures Guidance will be implemented.</p> <p>Site not located in flood risk area, however, contingency plans for the diversion of waste if required.</p> <p>Emergency / Contingency Procedures will be communicated to site operatives.</p>	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
Surface waters close to and downstream of site	Chronic effects from spillages, leachate and contaminated rain-water run-off	Deterioration to water quality	Direct run-off from site over land, through surface water drains & ditches Indirect run-off through soil	Low	Low	Low	Pollution likely to be detected quickly. Effects are temporary & reversible.	As above and: Liquids will be stored in secure containers with secondary containment. Permit requirement: emissions of substances not controlled by emissions limits shall not cause pollution Site drainage plan, clean and dirty water will be separated. Risk included in the Accident Management Plan.	Low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	Spillages, leachate and contaminated rain-water run-off	Acute effects and closure of abstraction.	Direct run-off from site across site surface, via surface water drains & ditches and through abstraction	Low	Medium	Low	Potential for contaminated rainwater run-off from waste activities carried out in the open especially during heavy rain.	As above	Low
Groundwater	Spillages, leachate and contaminated rain-water run-off	Chronic effect requiring groundwater treatment / closure of borehole.	Transport through soil / groundwater and abstraction via borehole	Low	Medium	Low	Potential for contaminated rainwater run-off / leachate from waste activities especially during heavy rain. Potential for pollution to remain undetected for a long time.	Site is not in a groundwater source protection zone 1 All waste (except clean hardcore) will be stored & treated inside an enclosed building / container All waste will be stored & treated on an impermeable surface & sealed drainage.	Low

Receptor	Source	Harm	Pathway	Likelihood	Severity	Risk	Justification	Controls	Residual risk
								Liquids will be provided with secondary containment to CIRIA 736 standard	
Protected Sites e.g. National parks, AONB, MCZ, SSSI, SAC, SPA, RAMSAR etc.	Any	Nutrient enrichment Leachate Contaminated surface water run-off Smothering Disturbance Predation	Any	Low	Low	Low	Storage and treatment of waste may cause harm / deterioration of nature conservation sites.	The site is not located within close proximity to protected sites.	Low