	Data and information				Judge	ment		Action (by permitting)		
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence		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 consequence s if things go wrong?		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).	
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health respiratory irritation and illness.	inhalation.		Medium	Medium	Permitted waste types do not include dusts, powders or loose fibres but the treatment activities will produce particulate matter, but activities will largely be in a building and facing away from the nearest households, so 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)		Low	
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Low	Low	Low		Ensure waste acceptance procedures are followed. Manage the length of time that the waste is stored for. Locate plant in areas where any dust occurring is less likely to leave the permit boundary. Consider using dust suppression if required	Low	
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Medium	Medium	Medium		Depositing and treating mixed waste with more potential to become airborne within the building. Appropriate measures could 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.	Low	Medium	Medium	mud on roads.Site surface fully concreted;	As above. 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.	Low	Medium	Low		Keep odourous wastes within a building. Keep roller shutter doors closed when required. Manage the length of time that waste is stored for. Avoidance of particularly odourous wastes	Low	
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Low	Low	Local residents often sensitive to noise and vibration	Keep drop heights to a minimum. Switch off machinery and vehicles when not in use. Restrict operating hours. Maintain machinery. Maintain walls around site to contain noise.	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.	land	Medium	Medium	Medium	Permitted wastes may attract scavenging birds and animals.	Activities to take place within a buildling / enclosed skips. Manage the length of time that the waste is stored for.	Low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity		Medium	Medium	Medium	Insect pests can multiply on permitted wastes, particularly in summer months	Manage the length of time that the waste is stored for. Use of approved pest controllers if required.	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	Permitted waste types are non-hazardous so any waste washed off site will add to the volume of the local post-flood clean up workload, rather than the hazard. Site is a zone 3 flood risk and so low risk	Minimal water use on site; avoid doing so unless required	Very low
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.		Direct physical contact	Very low	High	Medium		Activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). Machine operators to be competent	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	irritation, illness and nuisance to local	and via surface		Medium	Medium	or liquids and are non-hazardous so only a medium magnitude risk is estimated.	Fire Prevention and Mitigation Plan in operation, which includes arson and/or vandalism. Site will be monitored by CCTV when the site is not manned. Site to install a fire detection and suppression system within the waste transfer building.	Low

II .	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.	As above.	Medium	Medium	Medium		As above. Permitted activities will not include the burning of waste.	Low
II .	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	off from site	Medium	Medium	Medium	Permitted waste types do not include sludges or liquids 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.	Site fully concreted. Oils liquids (non-waste) shall be provided with secondary containment. Site penstock to be used in the event of a major spillage which could result in water entering drainage network. No water discharged to surface water.	Very low
All surface waters close to and downstream of site.	As above	Chronic effects: deterioration of water quality	As above. Indirect run- off via the soil layer	Medium	Low	Low		Site fully concreted. Oils liquids (non-waste) shall be provided with secondary containment. Site penstock to be used in the event of a major spillage which could result in water entering drainage network. No water discharged to surface water.	Low
Groundwater	As above	Chronic effects: contaminatio n of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/ground water then extraction at borehole.	Medium	Medium	Medium	*	Site fully concreted. Site penstock to be used in the event of a major spillage which could result in water entering drainage network. No water discharged to surface water.	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		Site fully concreted. Site penstock to be used in the event of a major spillage which could result in water entering drainage network. No water discharged to surface water.	Very low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contaminatio n, nutrient enrichment, smothering, disturbance, predation etc.	Any	Medium	Medium	Medium	Waste operations may cause harm to and deterioration of nature conservation sites.	Boundary adjacent to SSSI has solid walls. All site surfaces impermeable. No water to surface water network. Mixed / putrescible waste to be bulked and treated in a building	Low

Local human population and all surface waters close to and downstream of site.	harm to human health, loss of amenity, deterioration of	Air transport then inhalation or deposition. Direct run off of fire water across site to surface waters.	High	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 in SR of annual tonnage to 75, Mitigation Plan which will limit storag flammable or hazardous. Site will be site is not manned.	ge times of waste. Wastes not	Low
All surface waters close to and downstream of site.	Loss of amenity, deterioration of water quality	Direct run off of fire water across site to surface waters.	High	Waste fires are not common but approximately 300 fires pal 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.		Low