Environment Agency Permit Application
Environmental Risk Assessment

Havant HWRC
DB3902GK

May 2023_v1.0

Data and information				Judgement				Action (by permitting)	
Receptor	**Source**	**Harm**	**Pathway**	**Probability**	**Consequence**	**Magnitude**	**Justification for**	**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 consequences if things go wrong?***	***How might the receptor come into contact with the source?***	***How likely 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?***
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Low	Low	**Low**	Permitted waste types do not include dusts, powders or loose fibres so only a low magnitude risk is estimated.	The facility is managed in accordance with strict waste pre-acceptance / acceptance proceedures. Waste inputs di not include wastes consisting solely of dusts or fibres.	Very low
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols)	Nuisance - dust on cars, clothing etc.	Air transport then deposition.	Low	Low	**Low**	Staff and property at adjacent units could be sensitive to or impacted by dust.	As above.	Very low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Low	Low	**Low**	Nearby industrial premises often sensitive to litter.	All input material and is placed by the general public within containers. External housekeeping procedures are in place.	Very low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Low	Low	**Low**	Road safety, nearby industrial premises could be affected by mud on roads.	Waste types not likely to create mud, all waste depositied within containers. All trafficked areas are hardstanding. External housekeeping procedures are in place.	Very low

Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	**Low**	Nearby industrial premises often sensitive to odour.	Waste types are not significantly odorous. All waste is containerised. If required an OMP will be put in place Quick turnaround of waste and waste pile rotation to ensure oldest waste exported first. Historical operation of the facility has not resulted in noticeable off site odour.	Low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Medium	Medium	**Medium**	Nearby industrial premises often sensitive to noise and vibration	The subject site is in an industrial location which is less sensitive to noise and is not the dominant local noise source. All equipment is subject to planned preventative maitenance. Historical operation of the facility has not resulted in noticeable off site 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.	Air transport and over land	Low	Low	**Low**	Permitted wastes may attract scavenging animals and birds.	All waste is containerised. Quick turnaround of material. A pest management system is in place.	Low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Medium	Medium	**Medium**	Insect pests can multiply on permitted wastes, particularly in summer months	All waste is containerised and generally non putrescible in nature due to the site operationg as a recycling centre. There is a pest control contract in place with routine inspections and trapping as 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. The site is of low risk of flooding.	No history of flooding on the site and not in a flood risk area.	Very 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.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Medium	**Medium**	Permitted waste types are low volume but are combustible.	Activities are managed and operated in accordance with a management system which includes site security measures to prevent unauthorised access. CCTV surveillance systems are installed which are remotely monitored out of hours.	Low

Local human population and all surface waters close to and downstream of site.	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**	Risk of accidental combustion of waste is moderate.	The facility is managed in accordance with a Fire Prevention Plan which identifies and puts in place appropriate measures to prevent fire or the spread of fire.	Low
All surface waters close to and downstream of site.	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	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Medium	Medium	**Medium**	Permitted waste types are solids but may have residual liquid contamination. There is storage of process chemicals on site.	All bulk storage of fuel oils are provided with secondary containment. Spill kits, drain mats and absorbaent booms are available on site in case of spillage and staff trained on their appropriate use	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**	Permitted waste types are solids but may have residual liquid contamination. There is storage of process chemicals on site.	All bulk storage of fuel oils are provided with secondary containment. Spill kits, drain mats and absorbaent booms are available on site in case of spillage and staff trained on their appropriate use	Low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	As above	Acute effects, closure of abstraction intakes.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Medium	Medium	**Medium**	Permitted waste types are solids but may have residual liquid contamination. There is storage of process chemicals on site.	All bulk storage of fuel oil are provided with secondary containment. The main waste container area is constructed of impermeable concrete with a sealed drainage system which is diverted to foul sewer. A penstock valve in place which can be closed in the event of loss of containment.	Low
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Very low	Low	**Low**	There is a potential for contaminated rainwater run-off or leachate from permitted waste types.	All bulk storage of fuel oils are provided with secondary containment. Spill kits, drain mats and absorbaent booms are available on site in case of spillage and staff trained on their appropriate use	Low

Protected sites - European sites and SSSIs .	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Very low	Medium	**Low**	Waste operations may cause harm to and deterioration of nature conservation sites.	Langstone harbour SSSI within 1km of the site. Nature of the operation and distance to SSSI unlilely to cause harm	Low
All surface waters close to and downstream of site.	Uncontrolled release of process effluent	Harm to the functoning of downstream sewage treatment works.	Transport through drainage system to surface waters	Medium	Low	**Low**	Emissions from contaminated surface run off to surface water	All waste activities carried out on sealed concrete and all waste stored in sealed containers. Spill kits, drain mats and absorbent booms in place and staff trained on their use. Part of the site drains to surface run off drains and a swale via an oil interceptor. regular sweeping of storage areas to ensure all are kept clean.	Low