



## 1. Environmental Risk Assessment

1.1. The waste operations of storage and transfer of washroom waste are carried out at Holt Road, Fakenham, Norfolk, NR21 8BP (The Site).

1.2. This Environmental Risk Assessment is based off the following Site conditions and receptors:

- The wider land use surrounding the Site is predominantly residential housing.
- Holt Road 0m north
- Westmead Road 15m east
- Residential dwellings 15m south
- Residential houses 30m north
- The nearest residential housing is approximately 20m east from the Site.
- Fakenham Junior School is approximately 100m west of the Site.
- Queens Road recreational grounds are approximately 110m northwest of the Site.
- There is an area of deciduous woodland approximately 150m northeast of the Site.
- The river Wensum (SSSI and SAC) is located approximately 560m south of the Site. Protected species related to this receptor are:
  - Brook Lamprey
  - Brown / Sea Trout
  - Bullhead
  - European Eel
  - European Eel migratory route
  - European Water Vole
- Waste Activities carried out on this site are on impermeable concrete surfacing.

Receptor	Source	Harm	Pathway	Probability of occurring	Consequence	Magnitude of risk	Justification for magnitude	Risk Management	Residual risk
Local human population	Releases of particulate matter (dusts) and infectious micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.  Nuisance dust	Air transport then inhalation /deposition	Low	Medium	Low	The is negligible risk of dust generation from the waste activities proposed.	Dusty wastes will not be accepted to site.  All waste will be double bagged and stored in sealed containers.	Negligible
Local human population, livestock and wildlife	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition.	Low	Medium	Low	The waste types have low litter potential.	As above	Negligible



Receptor	Source	Harm	Pathway	Probability of occurring	Consequence	Magnitude of risk	Justification for magnitude	Risk Management	Residual risk
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, local residents often sensitive to mud on roads.  Waste does not pose a risk of mud.	Vehicles and sites are by their nature likely to be sited in industrial area and thus paved.  Vehicle movements will be daily rather than hourly.	Very low
Local human population	Odour	Nuisance, loss of amenity.	Air transport then inhalation.	Medium	Medium	Low	Waste has potential for odour.	The waste arrives on Site double bagged and is stored in a sealed bin. The triple containment of the waste will provide mitigation against odour.  Sanitary waste will be stored on Site for less than 7 days.	Low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Medium	Low	Local residents often sensitive to noise and vibration.  Waste activities are unlikely to	Vehicles accessing the site will be well maintained to reduce the production of excessive noise from vehicle movements.	Low



Receptor	Source	Harm	Pathway	Probability of occurring	Consequence	Magnitude of risk	Justification for magnitude	Risk Management	Residual risk
							produce noise.	The site will employ a no idling policy.	
Local human population	Scavenging animals and scavenging birds or pests.	Harm to human health - from waste carried off site. Nuisance and loss of amenity.	Air transport and over land	Low	High	Medium	Permitted wastes do not include putrescible materials and therefore unlikely to attract scavenging animals, birds or pests.	All waste will be double bagged and in sealed containers.  Sanitary waste will be stored for less than 7 days.  Sharps and medicines will be stored for less than 1 month.  Batteries will be stored for less than 6 months.	Low
Local human population	Flooding from site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Floodwaters	Low	Medium	Low	Waste is stored in sealed containers with lids.	All waste will be double bagged and in sealed containers.	Very low
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Low	Low	Low	No plant, associated with the waste activity, will be used/stored on site.	All waste will be double bagged and in sealed containers.	Very low



Receptor	Source	Harm	Pathway	Probability of occurring	Consequence	Magnitude of risk	Justification for magnitude	Risk Management	Residual risk
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	Waste types are stored in separate bins and are not highly combustible.	Site will be secure at all times.  All waste will be double bagged and in sealed containers.	Low
Local human population and local environment	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	Low	Medium	Low	Risk of accidental combustion of waste is low.	As above.  Other activities undertaken on the Site do not include fires or hot works.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste.	Acute effects: oxygen depletion, fish kill and algal blooms  Chronic effects: deterioration of water quality	Direct run-off from site across ground surface, via surface water drains, ditches etc.  Indirect run-off via the soil layer	Low	Medium	Low	A water course is located close to the site.  It is not anticipated that there would be any leachate/run off from the waste.  Waste is contained in bags within sealed containers.	All waste will be double bagged and in sealed containers.  Waste will be stored on concrete or within a building.  The EMS will contain a waste acceptance procedure. This procedure will be implemented to ensure liquid wastes are not	Very low



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								accepted onto Site and contravening wastes are removed.	
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.	Low	Low	Low	As above.	As above	Very 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.	Low	Low	Low	As above.	As above	Very 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	Low	Low	Unlikely due to scale and nature of the wastes stored, containment of the waste and no leachate/run off from the waste.	Waste will be triple contained.  Site will be secured to unauthorised human entry.	Very low
Protected sites - European sites and SSSIs, SACs. SPAs, Ramsar Sites, Protected Species and Local Wildlife Sites	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste.	Acute effects: oxygen depletion, fish kill and algal blooms/nutrient enrichment.  Chronic effects: deterioration of water quality.	Direct run-off from site across ground surface, via surface water drains, ditches etc.  Indirect run-off via the soil layer	Low	Low	Low	The Site is located approximately 560m north of the River Wensum, a SSSI and SAC. Protected species include a variety of fish	Waste will be triple contained.  Site will be secured to unauthorised human entry.	Very Low



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River Wensum (SSSI and SAC) and related protected species							<p>and a mammal. It is considered that there would be insignificant harm due to the scale and nature waste activities and distance to the receptor.</p> <p>There are no other protected sites within 1000m.</p>		

