

Generic risk assessment for standard rules set number SR2008No20 v4.0

| | |
|--|--|
| Standard Facility: | Waste Operation: Vehicle Depollution & Dismantling (Authorised Treatment) Facility |
| Location: | Applies to all potential locations. |
| Location of environmentally sensitive sites (km / m): | Greater than 200m (see below) |
| Risk assessment carried out by: | Environment Agency |
| Date: | 28-Jul-10 |

The scope of the permit and associated rules is defined by the following risk criteria:

- Parameter 1 Permitted activities - storage of waste motor vehicles and treatment consisting only of depollution of waste motor vehicles and sorting, separation, grading, baling, shearing, compacting, crushing or cutting of waste into different components for recovery (R13, R4 and R5).
- Parameter 2 Permitted waste types - End-of-life vehicles, tyres, brake pads, oil filters and lead-acid batteries.
- Parameter 3 Quantity of waste accepted at the facility: <75,000 tonnes per annum, including a maximum 10 tonnes per day of hazardous waste for disposal.
- Parameter 4 The quantity of hazardous waste stored at the facility for disposal shall be less than 10 tonnes.
- Parameter 5 The quantity of tyres stored at the facility shall not be more than 50 tonnes.
- Parameter 6 Lead acid batteries shall be stored in containers with an impermeable, acid resistant base and a lid to prevent ingress of water.
- Parameter 7 All waste shall be treated on an impermeable surface with sealed drainage system.
- Parameter 8 All wastes shall be stored on an impermeable surface with sealed drainage system, except for uncontaminated plastic, glass and ferrous and non-ferrous metal wastes arising from the treatment of end-of-life vehicles which may be stored on hard standing.
- Parameter 9 The only point source discharges to controlled waters or groundwater, are surface water from the roofs of buildings and from areas of the facility not used for the storage or treatment of wastes.
- Parameter 10 The permitted activities shall not be carried out within 200m of a European Site (candidate or Special Area of Conservation, proposed or Special Protection Area or Ramsar site) or a Site of Special Scientific Interest (SSSI).
- Parameter 10 The activities are not carried out predominantly using a limited number of the permitted waste types in a manner which significantly increases any of the risks compared to the generic operation of this type of facility, for example predominantly storing wastes which present a significant increase in fire risk.

Abbreviations: SR - Standard Rule
 SR (emissions of substances not controlled by emission limits) - emissions of substances shall not cause pollution...., with appropriate measures:
 all storage and treatment on an impermeable surface with sealed drainage system.
 except for uncontaminated plastic, glass and ferrous and non-ferrous metal On hard standing ...or on impermeable surface with sealed drainage; lead acid batteries in containers with an impermeable, acid resistant base and a lid

| Data and information | | | | Judgement | | | | Action (by permitting) | |
|----------------------|--------|------|---------|-------------------------|-------------|-------------------|-----------------------------|------------------------|---------------|
| Receptor | Source | Harm | Pathway | Probability of exposure | Consequence | Magnitude of risk | 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 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? (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. | Air transport then inhalation. | Medium | Medium | Medium | Permitted waste types do not include dusts, powders or loose fibres so only 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) | SR - emissions of substances not controlled by emission limits.... SR (if required) - emissions management plan. | Low |
| Local human population | As above | Nuisance - dust on cars, clothing etc. | Air transport then deposition | Medium | Low | Low | Local residents often sensitive to 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 | Medium | Medium | Medium | Local residents often sensitive to litter. | As above. Appropriate measures could include clearing litter arising from the activities from affected areas outside the site. | Very low |
| Local human population | Waste, litter and mud on local roads | Nuisance, loss of amenity, road traffic accidents. | Vehicles entering and leaving site. | Medium | Medium | Medium | Road safety, local residents often sensitive to mud on roads. | 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 | Low | Low | Local residents often sensitive to odour, however permitted waste types have low odour potential. | SR - emissions shall be free from odour.... SR (if required) - odour management plan. | 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 | Local residents often sensitive to noise and vibration | SR - emissions shall be free from noise and vibration..... SR (if required) - noise and vibration management plan. | Low |

Generic Risk Assessment SR2008No20GRA

| | | | | | | | | | |
|--|---|---|--|--------|--------|--------|---|---|----------|
| 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 | Medium | Low | Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites. | SR - emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution. | Very low |
| Local human population | Pests (e.g. flies) | Harm to human health, nuisance, loss of amenity | Air transport and over land | Low | Medium | Low | Permitted wastes unlikely to attract pests. | As above | Very 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 | High | Medium | Liquid hazardous wastes washed off site will add to the volume and hazard of the local post-flood clean up workload. | SR - management system (will include flood risk management). Release of liquid wastes restricted by SR - maximum hazardous waste storage 10 tonnes and SR - All liquids shall be provided with secondary containment.... (applies to wastes and non-wastes such as fuels). | 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 | Medium | Medium | Medium | Site security measures at these facilities are normally good to prevent theft. Although some permitted waste types are hazardous, a medium magnitude risk is estimated. | SR - activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). Access to liquid wastes restricted by SR - maximum hazardous waste storage 10 tonnes and SR - All liquids shall be provided with secondary containment.... (applies to wastes and non-wastes such as fuels). | 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 | Although some permitted waste types are hazardous and some are flammable, a medium magnitude risk is estimated. | As above. SR - management system (will include fire and spillages). SR - tyre storage no more than 50 tonnes. | Low |

Generic Risk Assessment SR2008No20GRA

| | | | | | | | | | |
|--|---|--|--|--------|--------|--------|---|---|----------|
| 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. | Medium | Medium | Medium | Risk of accidental combustion of waste is moderate. | As above (excluding comments on access to waste). Permitted activities do not include the burning of waste. | 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 | High | High | Permitted waste types include hazardous liquids so a high magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain. | SR - maximum hazardous waste storage 10 tonnes. SR - All liquids shall be provided with secondary containment.... (applies to wastes and non-wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits). | 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 | High | High | Permitted waste types include hazardous liquids so harm may not be temporary and reversible. | As above | 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 | High | High | Permitted waste types include hazardous liquids so a high magnitude risk is estimated. Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off. | As above | 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. | Medium | High | High | There is a potential for contaminated rainwater run-off or leakage from permitted waste types. | As above | Low |
| Local human population | Contaminated waters used for recreational purposes | Harm to human health - skin damage or gastrointestinal illness. | Direct contact or ingestion | Low | Medium | Low | Unlikely to occur, but might restrict recreational use. | SR - emissions of substances not controlled by emission limits....SR (if required) - emissions management plan. | Very low |

Generic Risk Assessment SR2008No20GRA

| | | | | | | | | | |
|--|-----|--|-----|-----|--------|-----|--|--|-----|
| Protected sites - European sites and SSSIs | Any | Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc. | Any | Low | Medium | Low | Waste operations may cause harm to and deterioration of nature conservation sites. | SR - activities shall not be carried out within 200m of a European Site or SSSI. (Distance criteria as agreed with Natural England/Countryside Council for Wales). | Low |
|--|-----|--|-----|-----|--------|-----|--|--|-----|

Notes: Red triangle indicates comment containing supporting information
 Yellow columns contain drop down menus that allow automatic evaluation of risk in green column