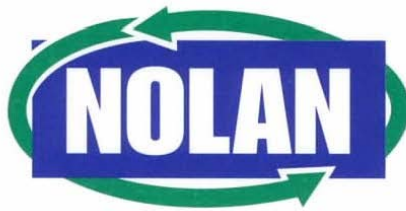




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SD7 – Nolan Recycling Site Risk Assessment

v1.0
Approved October 2015



RECYCLING LIMITED

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SD6 – Nolan Recycling - Site Risk Assessment

Environmental Risk Assessment for Application Site

The Transfer Station, The Old Quarry, Stormy Down, Pyle,
Bridgend, CF33 4RS

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Prepared by: Technia Environment and Planning, Suite 4, St. Margaret's Park, Pengam Road, Aberbargoed, CF81 9FW.

Risk Assessment for Nolan Recycling PERMIT VARIATION

Facility:	Nolan Recycling Household, Commercial and Industrial Waste
Location:	Applies to all potential locations.
Location of environmentally sensitive sites (km / m):	Greater than 200m (see below)
Risk assessment carried out by:	Jonny Young
Date:	10/10/2014

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	Airborne asbestos fibres	Respiratory illness i.e. lung cancer and mesothelioma	Air transport then inhalation.	Low	High	Medium	Potential for exposure is low because of separate health and safety controls to protect employees	Good site management. Emissions of substances not controlled by emission limits. Site EMS will control emissions.	Low
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	Apart from asbestos, 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).	Good site management. Emissions of substances not controlled by emission limits. Site EMS will control emissions.	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	Low

Risk Assessment

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.	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.	Medium	Medium	Medium	Local residents often sensitive to odour.	Good site management. Emissions shall be free from odour. The EMS Includes an 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	Good site management. Emissions shall be free from noise and vibration.(if required) - noise and vibration management plan (to be prepared <u>if issue identified</u>).	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	Medium	Medium	Medium	Permitted wastes may attract scavenging animals and birds. Wastes may become nesting / breeding sites.	Good site management. Emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution....Effects will be reduced by site EMS procedures. Access to hazardous waste is restricted.	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	As above	Low

Risk Assessment

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	Non hazardous wastes are not stored in buildings or inside secure containers so they could be washed off-site, which will add to the volume of the post-flood clean up workload, rather than the hazard.	The site is not in an area of Flood Risk.	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	Apart from asbestos, permitted waste types are non-hazardous therefore only 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 hazardous waste restricted by SR (asbestos). Good site management.	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 do not include sludges or liquids and, apart from asbestos and battery storage, are non-hazardous therefore only a medium magnitude risk is estimated.	Good site management. Environmental Management System (EMS) (will include fire and spillages). Spread of fire to hazardous waste restricted by Site EMS. Tyre storage no more than 50 tonnes.	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	As above.	Medium	Medium	Medium	Risk of accidental combustion of waste is moderate.	As above. Permitted activities do not include the burning of waste.	Low

Risk Assessment

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 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.	Good site management. All liquids shall be provided with secondary containment.... (applies to non- wastes such as fuels). Run-off restricted, Storage & treatment on an impermeable surface with sealed drainage; only specified low risk wastes can be stored & treated outside on hard standing.	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	Waste types are non-hazardous so harm is likely to 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	Medium	Medium	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	Medium	Medium	There is potential for contaminated rainwater run-off or leachate from permitted waste types.	Good site management. The activity shall not be carried out within 50m of any well, spring or borehole used for the supply of water for human consumption.	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	Unlikely to occur, but might restrict recreational use.	Good site management. Emissions of substances not controlled by emission limits shall not cause pollution. Site drainage is connect to 3 stage interceptor and discharges to Foul Sewer	Very low

Risk Assessment

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.	Good site management. Activities shall not be carried out within 200m of a European Site or SSSI. (Distance criteria as agreed with NRW (formerly CCW)).	Low
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