

01.010.003.01 Environmental Risk Assessment

Uncontrolled when printed

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Ecology & Environmental Services

Project name:	Galileo Depot (West Country Waste Management)	Project No:	01/010/003/01
Site/work location:	Galileo Close, Plympton, Plymouth PL7 4JW		

Environmental Assessment: **Southwest England River Basin District**
 Name: **West Country Waste Management**
 Permit reference number: **EA/EPR/LB3204FU/A001**

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
Local human population	Release of particulate matter (dust)	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Negligible	Negligible	Negligible	Sealed system	Not applicable	Negligible
Local human population	Release of particulate matter (dust)	Nuisance - dust on property (cars, clothing etc.)	Air transport then deposition.	Negligible	Negligible	Negligible	As above	Not applicable	Negligible
Local human population and wildlife	Litter	Nuisance, loss of amenity and harm to animal health.	Air transport then deposition.	Negligible	Negligible	Negligible	As above	Not applicable	Negligible
Local human population	Odour	Nuisance, loss of amenity.	Air transport then inhalation.	Negligible	Low	Negligible	Sealed system	Not applicable	Negligible
Local human population	Noise from machinery	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. Site is well screened from residents and activities are like those already undertaken on site and in the local area. Best practice will be followed on site during all work.	Not applicable	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health from faeces and waste carried off site. Nuisance and loss of amenity.	Air transport and over land.	Negligible	Negligible	Negligible	Sealed delivery system involving wet materials.	Not applicable	Negligible

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Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity.	Air transport and over land.	Negligible	Negligible	Negligible	As above	Not applicable	Negligible
Local human population and local environment.	Flooding of site	Potential for erosion of deposited waste.	Flood waters	Negligible	Negligible	Negligible	Permitted waste types are non-hazardous and contained. Site is in Flood zone 1 and has no history of flooding.	Not applicable	Negligible
Local human population after gaining unauthorised access to the waste operation.	All on-site hazards. Wastes, machinery and vehicles.	Bodily injury	Direct physical contact	Negligible	Negligible	Negligible	Permitted waste types are non-hazardous. Operations are managed and operated in accordance with a management system, which includes site security measures to prevent unauthorised access.	Not applicable	Negligible
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 or firefighters. 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.	Negligible	Negligible	Negligible	Waste is not combustible. Permitted waste types are non-hazardous. Operations are managed and operated in accordance with a management system, which includes site security measures to prevent unauthorised access.	Not applicable	Negligible

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Receptor	Source	Harm	Pathway	Probability of Exposure	Consequence	Magnitude of Risk	Justification for Magnitude	Risk Management	Residual Risk
Local human population and local environment.	Accidental fire causing the release of polluting materials to air (smoke or fumes), waste or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land.	As above.	Negligible	Negligible	Negligible	Waste is not combustible. Permitted waste types are non-hazardous. Operations are managed and operated in accordance with a management system, which includes site security measures to prevent unauthorised access.	Not applicable	Negligible
All surface waters close to and downstream of the site.	Contaminated run-off from waste	Acute effects; oxygen depletion, fish kill and algal blooms.	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Negligible	Negligible	Negligible	Unlikely to be any contaminated run-off reaching watercourse. Operations are managed and operated in accordance with a management system, which includes run-off management.	Not applicable	Negligible
All surface waters close to and downstream of the site.	Contaminated run-off from waste	Chronic effects; deterioration of water quality	As above. Indirect run-off via the soil layer.	Negligible	Negligible	Negligible	Sealed delivery system involving wet materials	Not applicable	Negligible
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Negligible	Negligible	Negligible	No protected sites within 3.5km	Not Applicable	Negligible