

Environmental Risk Assessment for Bespoke Permit Application

Permit Type
EA Reference

Waste Recovery Operation: Use of waste in a deposit for recovery operation involving

The Wave London, Meridian
Way, Enfield
Green Earth Management Co Ltd - Diane Robson-Jackson
11th March 2025High

Medium
Low
Very low

Very low	Low	Medium	High
4	8	12	16
3	6	9	12
2	4	6	8
1	2	3	4

Data and information						Judgement			Justification for magnitude	Action (by permitting)	
Receptor	Receptor Details	Source	Activity	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk		Risk management	Residual risk
Local human population.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Close @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Releases of particulate matter (dust)	Excavation, Transport to and from treatment and stockpiling area	Harm to human health - respiratory irritation and illness.	Air transport (wind-blown) then inhalation.	Low	Medium	Medium	Permitted waste types are non-hazardous / inert however, asbestos containing products and fibres have been detected in the waste in a number of locations. These will be removed as far as practically possible. No hazardous waste will be redeposited as part of the recovery operation The wastes are generally low in organic matter, degradable or putrescing material and have a low potential to produce bioaerosols. The activities may produce dust from movement of vehicles and treatment activities especially in dry and more-so when dry & windy weather. Dust could potentially reach the dwellings when a strong wind blows in that direction, approximately 50 days a year • consequence – adverse health effects	Baseline asbestos air monitoring will be carried out prior to commencement and will be monitored throughout the operational phase. Visual dust monitoring in accordance with operating procedure (EMS). Site manager is responsible for checking wind strength and direction, and will stop operations if necessary. Implementation of control measures e.g. adherence to site speed limits and dust suppression. Operational area for treatment plant will be located as far as practically possible from human receptors. • Overall risk: low, operational control and monitoring will be implemented	Low
Local human population.	Residential properties Picketts Lock Lane 10m south Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Releases of particulate matter (dust)	Excavation, Transport to and from treatment and or stockpiling area	Nuisance - dust on cars, clothing etc.	Air transport then deposition.	Medium	Low	Medium	Permitted waste types are non-hazardous / inert however, asbestos containing products and fibres have been detected in the waste in a number of locations. These will be removed as far as practically possible. No hazardous waste will be redeposited as part of the recovery operation The wastes are generally low in organic matter, degradable or putrescing material and have a low potential to produce bioaerosols. The activities may produce dust from movement of vehicles and treatment activities especially in dry and more-so when dry & windy weather. Dust could potentially reach the dwellings when a strong wind blows in that direction, approximately 50 days a year • consequence: nuisance – dust on cars, clothing,	Activities shall be managed and operated in accordance with a management system that includes measures to prevent and reduce risk of dust being produced and where it is produced from leaving the site boundaries. Operational area for treatment plant will be located as far as practically possible from human receptors. • Overall risk: low, operational control and monitoring will be implemented Dust management plan would be prepared if necessary	Low
Local human population.	Residential properties Picketts Lock Lane 10m south Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Litter	Excavation, Transport to and from treatment and or stockpiling area	Nuisance, loss of amenity and harm to animal health.	Air transport then deposition.	Low	Low	Very low	Site investigations have shown that the wastes have very low litter content. Waste types if compliant with the rules should have a low risk of litter from contraries in the waste. No wastes to be imported to Site	There are rules in place to control waste acceptance. The management system should have procedures to remove and contain any litter to prevent it being deposited at the Site or to leave the site boundaries.	Very low
Local human population.	Local road network, Meridian Way. Main access to operational area will be off Meridian Way	Mud and waste on road	Vehicle movements in and out of the Site	Nuisance, loss of amenity, road traffic accidents.	Tracked on tyres of vehicles entering and leaving the site and from loads which are not properly contained.	Very low	Medium	Medium	No wastes to be imported to Site. Vehicles entering the Site will be plant movements, delivery vehicles and site personnel. Very low number of vehicle movements anticipated Waste types are typically ones that will produce mud especially during wet weather.	The management system should contain procedures to minimise the risk of mud and waste being tracked out onto the highway. This may include wheel-cleaning facilities where appropriate. All vehicles should have adequate containment such as sheeting to prevent waste spillage.	Very Low
Local human population.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Odour	Excavation, Transport to and from treatment and or stockpiling area	Nuisance, loss of amenity.	Air transport.	Very low	Very low	Very low	Permitted waste types are not odorous (expect for isolated areas of hydrocarbon contamination). Very low biodegradable material content. No domestic refuse or putrescing wastes. Waste is an old deposit od construction / demolition type of waste and therefore likely to be 'fully degraded' . Occasional hotspots of hydrocarbon, but odours likely to be short lived.	The management system should contain procedures to prevent non-permitted wastes being deposited at site and to deal with rogue loads if they do occur. An odour management plan will be implemented, in the event of persistent odours become a problem, however, the probability is low.	Very Low
Local human population.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Noise and vibration.	Excavation, Transport to and from treatment and or stockpiling area	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 but there is a low potential for exposure as activities will be mostly at a distance from the nearby sensitive receptors.	Noise and vibration shall be minimised where possible. Operations to take place in normal working hours. No Sunday or bank holiday working proposed. Use of silenced machinery, siting of main operations as far as practically possible from human receptors. If required a noise and vibration management plan will be prepared and	Low
Local human population and local environment.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Pests (e.g.) flies.	Excavation, Transport to and from treatment and or stockpiling area	Harm to human health. Nuisance, loss of amenity.	Air transport and overland.	Very low	Medium	Low	The wastes are generally low in organic matter and do not contain, degradable or putrescing material and is highly unlikely to attract pests Wastes are limited to mainly re-worked soils that are not normally likely to encourage pest infestations.	Risk limited by permitted waste types and good onsite management practices detailed in management system of non-conforming wastes.	Low
Local human population and local environment.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema,	Flooding of site.	General Site operations	If waste contaminated water is washed off site it may contaminate buildings, gardens, watercourses and natural habitats.	Flood waters .	Low	Low	Very Low	The majority of the Site is in Flood Zone 1, low risk of flooding. Stored wastes will be contained and run-off will be collected in containment bunds. If required run off will be re-circulated through the wastes.	Watercourses will be protected from run-off. Activities are generally sited away from the watercourses. No significant excavation works proposed in vicinity of watercourses No waste or to be deposited sub-water table. The written management system will identify and minimise risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances.	Very Low
Local human population and /or livestock gaining unauthorised access to the waste operation.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema,	All on-site hazards, wastes, machinery and vehicles.	General Site operations	Bodily injury.	Direct physical contact .	Low	High	Medium	Unauthorised access to Site will not be permitted. No grazing animals in vicinity of the Site. Site located in urban setting.	The written management system will identify and minimise risks from unauthorised access and site security measures identified to prevent such access.	Very Low
Local human population and the environment.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Arson and/ or vandalism causing the release of polluting materials to air (smoke or fumes) and firewater or spillage of polluting liquids to water or land.	General Site operations	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/ vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from and via surface water drains and ditches.	Low	Medium	Low	Permitted waste types are mainly waste soils from construction and low in biodegradable content, therefore so very low-risk of combustion. Site machinery and fuels and oils are more of a risk but quantities would typically be low. These would be kept in a secure storage location on site. The process will not use any hazardous substances Asbestos waste will be	The written management system should identify and minimise risks from unauthorised access and site security measures identified to prevent such access. The system should also describe how any polluting liquids or materials will be stored safely.	Very Low



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Local human population and local environment.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Accidental fire causing release of polluting materials to air (smoke or fumes), water or land.	General Site operations	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from and via surface water drains and ditches.	Low	Medium	Low	Permitted waste types are mainly waste soils from construction and low in biodegradable content, therefore so very low-risk of combustion. Site machinery and fuels and oils are more of a risk but quantities would typically be low.	The written management system will identify and minimise risks. The system should describe how any polluting liquids or materials will be stored safely.	Very low
Local human population and local environment.	Residential properties Picketts Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary), Golf club (at northern boundary) Cinema, Food wholesalers (150m, west)	Build up and emissions of gas from old waste deposits on the permitted site	Redeposition of wastes / Site operations	Respiratory irritation, illness and nuisance to local population. Risk of explosion and injury to staff and local population.	Gas migrating laterally through waste deposit and building up in confined areas.	Low	High	Medium	Existing made ground (waste) is >40 years old and has low gassing potential as shown by the site investigations and monitoring. Recovery operations will reduce the biodegradable proportion further, by removing such material as part of a sorting / screening and segregation process. There is no additional waste being brought onto Site and therefore no significant additional pressure exerted on existing waste mass. Re-deposition of material will be carried out in a controlled manner and be for the creation of visual / acoustic attenuation mounds. Ground gas will be monitored during operations to ensure no unacceptable risks arise.	The written management system will include provision for mentoring ground gas throughout the operational phase and following completion to characterise the post operational gas regime.	Low
All surface waters close to and downstream of site.	Enfiled Ditch Lee Navigation William Girling Reservoir	Spillage of liquids, including oil.	General Site operations	Acute effects: fish and invertebrate kill .	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Low	Medium	Medium	Permitted wastes are solid, dry and mainly non hazardous/ inert . Asbestos containing products and fibres have been detected in the waste in a number of locations. These will be removed as far as practically possible. No hazardous waste will be redeposited as part of the recovery operation No planned excavation / filling below water table Potential for spillage from any fuel and oil storage for machinery or directly from machinery operating on the site. There are no proposed discharges to surface or groundwater.	All liquids will be provided with secondary containment. The written management system should identify specific risk and implement control measures to minimise risks. The system will also provide details how liquids will be stored safely and how machinery/plant will be maintained to prevent liquids from leaking.	Low
All surface waters close to and downstream of site.	Enfiled Ditch, Lee Navigation William Girling Reservoir	Leachate from waste and contaminated rainwater run-off from waste e.g. suspended solids.	Excavation / Stockpiling and redeposition of wastes following treatment	If waste contaminated water is washed off site it may contaminate watercourses and natural habitats leading to chronic effects: and deterioration of water quality.	Surface waters, leachate from infiltration through the waste	Low	Medium	Medium	Permitted wastes are solid, dry and mainly non hazardous/ inert . Asbestos containing products and fibres have been detected in the waste in a number of locations. These will be removed as far as practically possible. No hazardous waste will be redeposited as part of the recovery operation. No planned excavation / filling below water table Potential for spillage from any fuel and oil storage for machinery or directly from machinery operating on the site. There are no proposed discharges to surface or groundwater.	All liquids will be provided with secondary containment. The written management system should identify specific risk and implement control measures to minimise risks. The system will also provide details how liquids will be stored safely and how machinery/plant will be maintained to prevent liquids from leaking.	Low
Groundwater	Secondary A Aquifer in River Terrace deposits underlying made ground (waste - source term)	Leachate from waste and contaminated rainwater run-off from waste e.g. Suspended solids.	Excavation / redeposition of wastes following treatment	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Medium	Medium	Medium	Permitted wastes are solid, dry and mainly non hazardous/ inert . Asbestos containing products and fibres have been detected in the waste in a number of locations. These will be removed as far as practically possible. No hazardous waste will be redeposited as part of the recovery operation No planned excavation / filling below water table Potential for spillage from any fuel and oil storage for machinery or directly from machinery operating on the site. There are no proposed discharges to surface or groundwater.	No waste or to be deposited sub-water table. The written management system should identify and minimise risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances. A waste acceptance procedure will be implemented to ensure wastes do not pose a risk to controlled water and to ensure only waste listed in the Rules are deposited on site.	Low
Local human population.	Residential properties Pickets Lock Lane Charlton Rd @200 - 250m from nearest point. Bunting Close and Chaffinch Cl @ > 300m Commercial, Lee Valley Athletics centre (at West Boundary),	Scavenging animals and scavenging birds.	General Site operations	Harm to human health from waste carried off site and faeces. Nuisance and loss of amenity .	Air transport and over land.	Very low	Very low	Very low	Permitted wastes are solid, dry and mainly non hazardous/ inert . Asbestos containing products and fibres have been detected in the waste in a number of locations. The wastes are construction / demoliton soil and stones that are not normally attractive to animals and birds. Negligible quantities of putrescing waste within source term.	Risk limited by permitted waste types and good onsite management practices detailed in management system of non-conforming wastes.	Very low
Protected nature conservation sites - European sites and SSSIs.	William Girling (Chingford Reservoir) SSSI	Dust, noise, contaminated run-off leachate etc.	General Site operations	Harm to protected sites through contamination, smothering, disturbance etc.	Any	Very low	Medium	Low	Emissions to air may cause harm to and deterioration of nature conservation sites. Vehicles moving on and around site causing disturbance through noise. Potential for run-off and siltation of habitats etc.	SSSI is off-site to the East and to the far side of Lee Navigation (Canal). Operations will be located a suitable distance from the site boundaries to minimise any off-site impacts. Good housekeeping and adherence to management system will ensure risks are managed to prevent impacts to SSSI	Very low