

Environmental Risk Assessment

Prepared on Behalf of:

X-Bert Haulage Limited

Site Name:

250 Progress Way

Toddington Road

Luton

Bedfordshire

LU4 9DZ

Environmental Permits:

KB3703TS

DOCUMENT CONTROL SHEET

Site:	X-Bert Haulage Limited
Project:	Bespoke Permit Variation Application
Title	Environmental Risk Assessment
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Distribution List:

Environment Agency

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1. Introduction

1.1.1 This Environmental Risk Assessment (RA) has been produced on behalf of X-Bert Haulage Limited (the applicant), in line with current Environment Agency guidance, 'Risk Assessment for your Environmental Permit' available on Gov.uk, to support an application for a new bespoke environmental permit for a Waste operation under the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

1.1.2 The site currently benefits from an Environment Permit and a number of Registered Exemptions. The Environmental Permit was issued in 2005 and transferred to the Operator in 2022 alongside the authorisation of Exemptions with no adverse impact on the surrounding environment or any complaints received.

1.1.3 Application Proposals:

- Consolidate the Permit into a modern style Permit, as well as the conditions around the management of WEEE Wastes/HCI Wastes & Metal Waste Types.
- Increase the overall site tonnage to 55,000 tonnes (HCI 40,000 tonnes/MRS 10,000 tonnes/WEEE 5,000 tonnes).
- Update the lists of EWC Codes.
- Authorise the acceptance and storage of pressurised canisters.

1.1.4 The site is located at 250 Progress way, Toddington Road, Luton, Bedfordshire, LU4 9DZ, with access gained to the site off Toddington Road. National Grid Reference TL 04669 24984.

1.2 Environmental Risk Assessment Scope

1.2.1 This Environmental Risk Assessment has been produced as a requirement of the Permit Application and specifically due to the proposed Permit changes that being applied for through this application and to demonstrate that the proposed changes will have no impact on the surrounding environment.

1.3 Environmental Risk Assessment Aims

1.3.1 This assessment aims to consider potential environmental hazards associated with the activity, to identify sensitive receptors, which these may impact and determine the influence management practice has on reducing risk.

2. Site Setting

2.1 Location

2.1.1 The site is situated within an Industrial & Commercial area. Directly North, East, South & West are numerous industrial & commercial activities, which surround the site. Beyond these activities on the East (over 200 metres) & South (over 80 metres) are Residential Dwellings.

2.2 Designated Environmentally Sensitive Sites

2.2.1 There are no European Designated Sites such as Ramsar, Protection Areas, Biosphere Reserve, Special Areas of Conservations, Sites of Scientific Interest and Local Nature Reserves within 1000 metres of the site, as evidenced in [Figures 1 & 2](#). Furthermore, the site is not within an AQMA designation for PM10 as evidenced in [Figure 3](#) overleaf.

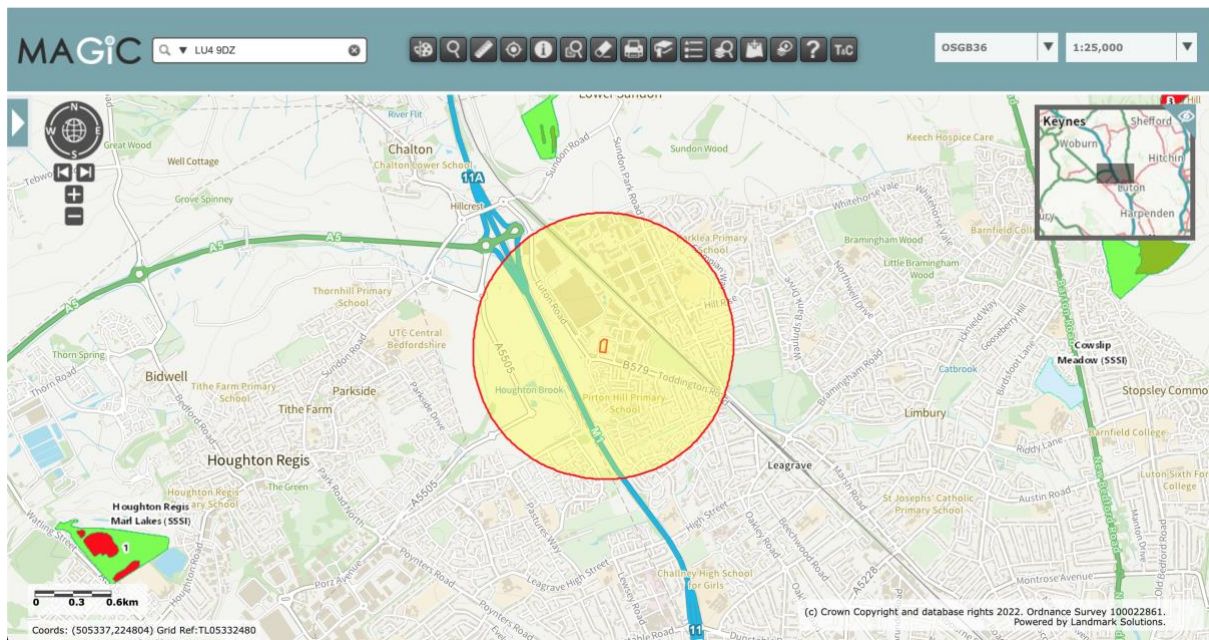


Figure 1: Map Showing Proposed Application Site & 1000 Metre Screening Buffer (Magic Interactive Tool)

23/10/2023, 15:01

Site Check Report Report generated on Mon Oct 23 2023
You selected the location: Centroid Grid Ref: TL04662498
The following features have been found in your search area:

National Nature Reserves (England) - points
No Features found

National Nature Reserves (England)
No Features found

Ramsar Sites (England) - points
No Features found

Ramsar Sites (England)
No Features found

Proposed Ramsar Sites (England) - points
No Features found

Proposed Ramsar Sites (England)
No Features found

Sites of Special Scientific Interest Units (England) - points
No Features found

Sites of Special Scientific Interest Units (England)
No Features found

Sites of Special Scientific Interest (England) - points
No Features found

Sites of Special Scientific Interest (England)
No Features found

Special Areas of Conservation (England) - points
No Features found

Special Areas of Conservation (England)
No Features found

Possible Special Areas of Conservation (England) - points
No Features found

Possible Special Areas of Conservation (England)
No Features found

Special Protection Areas (England) - points
No Features found

Special Protection Areas (England)
No Features found

Potential Special Protection Areas (England) - points
No Features found

Potential Special Protection Areas (England)
No Features found

Biosphere Reserves (England) - points
No Features found

Biosphere Reserves (England)
No Features found

Figure 2: Screenshot of Site Check Report (Magic Interactive Tool)

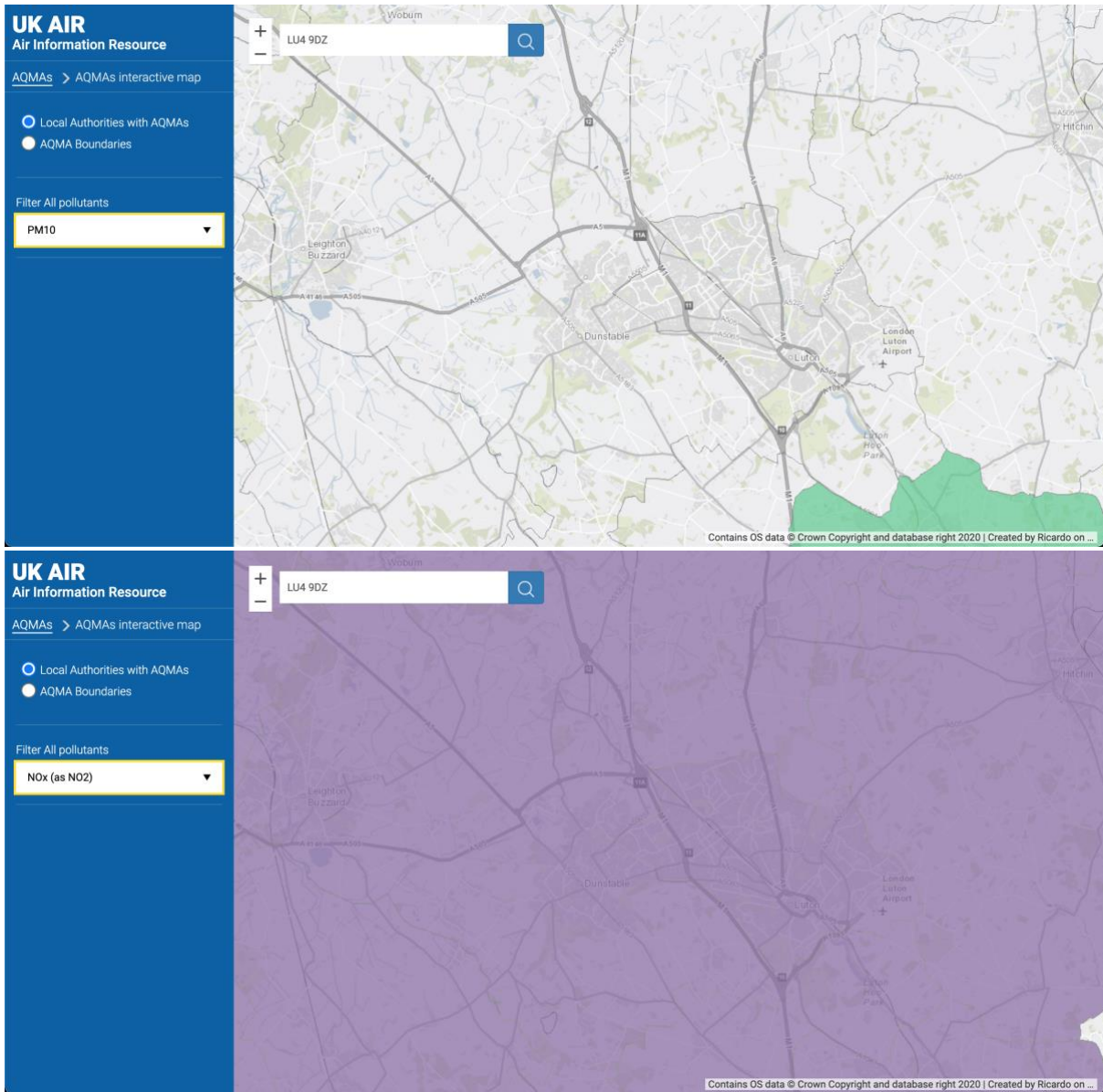


Figure 3: Application Site in Relation to Air Quality Management Designations.

2.3 Hydrogeology Aquifer Designation Map (Bedrock)

2.3.1 Zig Zag Chalk Formation identified beneath the application site.

2.4 Hydrogeology Aquifer Designation Map (Superficial)

2.4.1 None identified beneath the proposed application site.

2.5 Groundwater Source Protection Zones

2.5.1 The proposed application site falls within a Zone III Total Catchment Groundwater Source Protection Zone Designation.

2.5.2 The site is not located within a Drinking Water Safeguard Zone for Groundwater, or a Drinking Water Safeguarded Zone (surface water).

2.6 Flood Risk

2.6.1 The application site falls within a Flood Zone 1 designation (an area with a low probability of flooding).

3. Methodology

3.1 Hazard Identification

3.1.1 A hazard is something with potential to cause harm to something else.

3.2 Receptors

3.2.1 A receptor is the object (e.g., person, organism, resource, or property) impacted by a hazard. When identifying receptors which may be at risk from the site, the following have been considered:

- Deciduous Woodland;
- Priority Habitats;
- Locations used to grow food or to farm animals or fish;
- Drain and sewer system;
- Factories and other businesses;
- Fields and allotments used to grow food;
- Roads and railways;
- Groundwater beneath the site;
- Residential Dwellings;
- Regionally important geological sites;
- Schools, hospitals, and other public buildings;
- Conservation and habitat protected areas;
- Water; and
- Playing fields and playgrounds.

3.2.2 Based on the assessment of the site setting presented in Section 2 of this Environmental Risk Assessment, the following principal receptors have been identified for assessment as presented in Figure 4 & detailed in Table 2 overleaf.

Table 1: Possible Receptors, Distance & Direction from Proposed Operation

Receptor Reference	Receptor Description	Direction From Site	Approx. Distance From Site Boundary (Metres)
A	M1	West	304.3
B	Toddington Road	South	67
C	Residential Dwellings	South	80
D	Pirton Hill Primary School	South-East	357.3
E	Residential Dwellings	East	237.9
F	Toddington Road Leisure Gardens	East	356.4
G	Industrial/ Commercial Areas	North-East	Adjacent
H	Industrial/ Commercial Areas	East	Adjacent
I	Industrial/ Commercial Areas	West	Adjacent
J	Residential Dwellings	South-West	862.5
K	Residential Dwellings	South-East	495.6
L	Residential Dwellings	East	693.4
M	Lealands High School	North-East	661.5
N	Industrial/ Commercial Areas	North	368.5
O	Residential Dwellings	North-East	873.9
P	Residential Dwellings	East	920.5
Q	Deta Electrical	North-West	897.3
R	Lake St Willz	South-West	562.8
S	River Lee	South-West	585.5
T	Road Infrastructure Luton Road	West	335.6
U	Road Infrastructure A5505	West	703.4
V	Ocado Distribution Centre	North-West	181
W	Leagrave Park	South-East	971.9
X	Rail Infrastructure	East	482.5

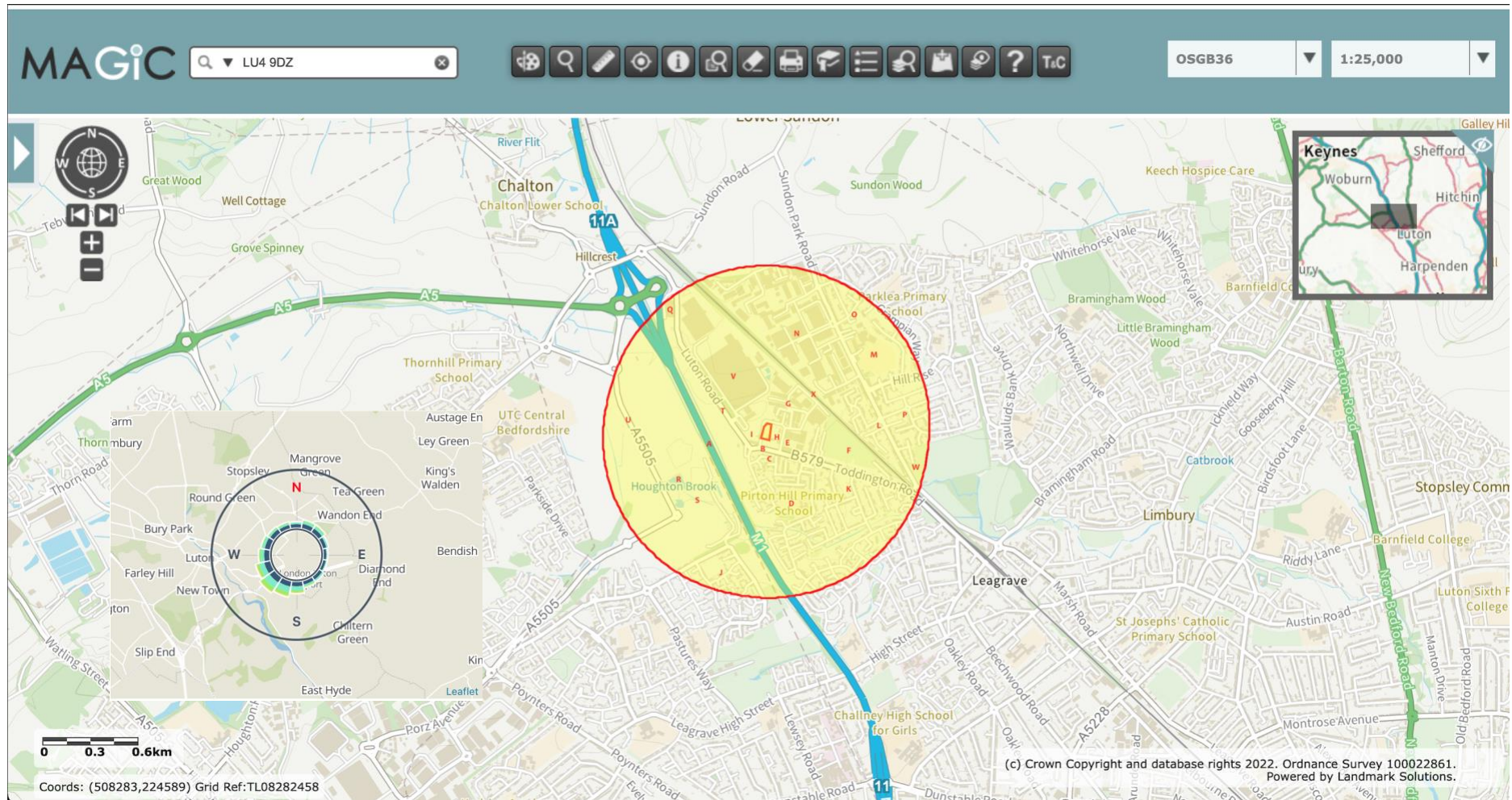


Figure 4: Possible Receptors Identified within 1000m of the Application Site (Magic)

3.3 Pathways

Table 2: Pathways

Receptor	Hazard	Pathway
Humans & Property	Odour	Transmitted through the air
	Dust and Particular Matter	Transmitted through the air
	Noise & Vibration	Transmitted through the air/ground
	Birds, Vermin & Insects	Physical travel
	Fire	Physical contact and spread
Groundwater	Contaminated Runoff	Infiltration through the ground
Surface Water	Contaminated Runoff	Direct discharge from site
Protected Conservation Sites	Dust and Particular Matter	Transmitted through the air
	Noise & Vibration	Transmitted through the air/ground.
	Fire	Physical contact and spread
Atmosphere	Dust and Particular Matter	Transmitted through the air

3.4 Risk

3.4.1 Assessment of risk is based on the probability of receptor exposure to the identified hazards and the consequence of exposure. The initial assessment of risk is made assuming no risk management practices with the proposed mitigation measures & management practices being factored into the overall assessment of the proposed operation resulting in a residual risk level.

4. Fugitive Emissions to Air

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Release of Particulate Matter (Dusts)	Dust from Delivery of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Medium	Vehicles are sheeted during the transportation of all waste materials to the proposed site. See separately submitted Dust Emissions Management Plan. Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive). Wind conditions will be monitored & Operations may cease until conditions improve.	Very Low
	Dust from Deposit of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Medium	Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1.5 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers. See separately submitted Dust Emissions Management Plan. Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive). Wind conditions will be monitored & Operations may cease until conditions improve.	Very Low
	Dust from Processing	Air Transportation	Local Human Population, Adjacent	Low	Low	Medium	Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1.5 metre) deployed around	Very Low

	of Wastes	then inhalation	Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.				operational areas, as well as a number of adjacent buildings acting as physical barriers. Processing equipment (i.e., the shredder/crusher) benefits from integral suppression and the trommel & picking station are enclosed pieces of equipment. It is not anticipated that the processing of scrap metals or WEEE wastes will generate dusts as mechanical processing. See separately submitted Dust Emissions Management Plan. Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive). Wind conditions will be monitored & Operations may cease until conditions improve.	
	Dust from Storage of Waste	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.	Low	Low	Medium	Wastes are stored within designated containers/bays/areas & operational areas benefit from concrete retaining walls (4 metres) and micro netting (1.5 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers. Ongoing monitoring of material stockpiles. See separately submitted Dust Emissions Management Plan. Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive).	Very Low

							Wind conditions will be monitored & Operations may cease until conditions improve.	
	Dust from Loading of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Medium	<p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1.5 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Materials are placed within removal vehicles and not dropped from a height. Reducing the distance over which debris, dust and particulates could be blown and dispersed by winds.</p> <p>See separately submitted Dust Emissions Management Plan.</p> <p>Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive).</p> <p>Wind conditions will be monitored & Operations may cease until conditions improve.</p>	Very Low
	Dust from Track Out	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Medium	<p>Surface cleaned/tidied on a regular basis to prevent the build up of particulates on the site surfacing.</p> <p>Vehicles wheels inspected and washed if dust is present.</p> <p>See separately submitted Dust Emissions Management Plan.</p> <p>Dust Suppression Hoses utilised to limit dust emissions (proactive/reactive).</p>	Very Low

			2 above.				Wind conditions will be monitored & Operations may cease until conditions improve.	
Release of Particulate Matter (Smoke & Particulates)	Smoke & Particulates from a Fire arising onsite.	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Medium	<p>See separately submitted Fire Prevention Plan for onsite arrangements for the management of a fire onsite to prevent fires.</p> <p>See separately submitted Environmental Management System for onsite arrangements for the management of the site to ensure compliance with the Environmental Permit.</p> <p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1.5 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Wind conditions will be monitored & Operations may cease until conditions improve.</p>	Low

5. Noise & Vibration

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Noise & Vibrations from Vehicle Movements & onsite activities	Noise from Site Operation	Noise through the air and vibration through the ground	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Medium	Medium	<p>No engine idling is permitted onsite; all engines are turned off whilst waiting to tip.</p> <p>Relevant plant and equipment will be fitted with appropriate sound attenuation and acoustic isolation and will be subject to regular inspection and maintenance schedules to maintain operational performance.</p> <p>Noise emissions are not considered to be a potential issue due to the setting of the site within an industrial/commercial (site will not be the dominant noise source).</p> <p>Primary Operational Hours 7.00am-16:30pm Monday to Friday and 7:00am-14:00 Saturdays.</p> <p>Any plant vibration issue will be resolved during the plant-commissioning period.</p> <p>See Noise Emissions Management Section within EMS.</p> <p>Operatives are trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.</p>	Very Low
	Noise from Delivery of Wastes (i.e.,	Noise through the air and vibration	Local Human Population, Adjacent Industrial/ Commercial	Low	Medium	Medium	<p>All vehicles have silencing equipment fitted as standard, which are regularly serviced and have daily defect checks completed by drivers.</p>	Very Low

	Vehicle Movements)	through the ground	Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.				<p>Noise emissions are not considered to be a potential issue due to the setting of the site within an industrial/commercial (site will not be the dominant noise source).</p> <p>As required by law, in order to hold an Operator's License, all vehicles undergo a safety inspection, including exhaust and silencer check, every 6 weeks (PMI).</p> <p>Vehicles are fitted with working exhaust silencing equipment.</p> <p>10mph speed limit enforced onsite; anyone speeding will be subject to disciplinary action.</p> <p>No engine idling is permitted onsite; all engines are turned off whilst waiting to tip.</p> <p>Relevant plant and equipment will be fitted with appropriate sound attenuation and acoustic isolation and will be subject to regular inspection and maintenance schedules to maintain operational performance.</p> <p>See Noise Emissions Management Section within EMS.</p> <p>Operatives are trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.</p>	
	Noise from Deposit of Wastes	Noise through the air and vibration	Local Human Population, Adjacent Industrial/ Commercial	Low	Medium	Medium	<p>All vehicles have silencing equipment fitted as standard, which are regularly serviced and have daily defect checks completed by drivers.</p> <p>Noise emissions are not considered to be a</p>	Very Low

		through the ground	Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.				<p>potential issue due to the setting of the site within an industrial/commercial estate.</p> <p>As required by law, in order to hold an Operator's License, all vehicles undergo a safety inspection, including exhaust and silencer check, every 6 weeks (PMI).</p> <p>Vehicles are fitted with working exhaust silencing equipment.</p> <p>Primary Operational Hours 7.00am-16:30pm Monday to Friday and 7:00am-14:00 Saturdays.</p> <p>10mph speed limit enforced onsite; anyone speeding will be subject to disciplinary action.</p> <p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>No engine idling is permitted onsite; all engines are turned off whilst waiting to tip.</p> <p>Relevant plant and equipment will be fitted with appropriate sound attenuation and acoustic isolation and will be subject to regular inspection and maintenance schedules to maintain operational performance.</p> <p>See Noise Emissions Management Section within EMS.</p> <p>Operatives are trained in noise management and the prompt reporting of</p>	
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							any abnormal noise so that it can be rectified.	
	Noise from Processing of Wastes	Noise through the air and vibration through the ground	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Medium	Medium	<p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Noise emissions are not considered to be a potential issue due to the setting of the site within an industrial/commercial (site will not be the dominant noise source).</p> <p>Primary Operational Hours 7.00am-16:30pm Monday to Friday and 7:00am-14:00 Saturdays.</p> <p>All Equipment/Machinery have daily defect checks completed by operators, with all defects reported to senior management for rectification.</p> <p>Relevant plant and equipment will be fitted with appropriate sound attenuation and acoustic isolation and will be subject to regular inspection and maintenance schedules to maintain operational performance.</p> <p>See Noise Emissions Management Section within EMS.</p> <p>Operatives are trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.</p>	Very Low

	Noise from Loading of Wastes	Noise through the air and vibration through the ground	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.	Low	Medium	Medium	<p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Noise emissions are not considered to be a potential issue due to the setting of the site within an industrial/commercial (site will not be the dominant noise source).</p> <p>Materials are placed within removal vehicles and not dropped from a height. Reducing the potential impact of noise & vibration.</p> <p>Primary Operational Hours 7.00am-16:30pm Monday to Friday and 7:00am-14:00 Saturdays.</p> <p>Revvng of grabs/wheeled loaders engines when loading will be kept to a minimum.</p> <p>Walkie-talkie communication will be kept to a low volume.</p> <p>When not in use all operational equipment is switched off not left idling.</p> <p>See Noise Emissions Management Section within EMS.</p> <p>Operatives are trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.</p>	Very Low
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6. Odour

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Release of Particulate Matter (Odours)	Odour from Delivery of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Medium	Medium	Medium	<p>Vehicles are sheeted/covered during the transportation of all waste materials to the proposed site.</p> <p>Odorous wastes are not accepted and will be rejected.</p> <p>See Odour Emissions Management Section within EMS.</p> <p>Wind conditions will be monitored & Operations may cease until conditions improve.</p>	Low
	Odour from Deposit of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Medium	Medium	Medium	<p>Non-hazardous wastes are deposited in the Waste Acceptance area (non-hazardous), which are constantly monitored during the unloading process.</p> <p>Odorous wastes are not accepted and will be rejected.</p> <p>Waste such as RDF wastes if received will only be stored onsite.</p> <p>Storage time limits as specified in the submitted Fire Prevention Plan Document.</p> <p>In the event that malodorous wastes are inadvertently accepted, they will be isolated within an enclosed skip and removed from the site within 48 hours or arriving.</p> <p>See Odour Emissions Management Section within EMS.</p>	Low

							Management complete daily spot checks of the Depot, which includes the identification of malodorous wastes. Wind conditions will be monitored & Operations may cease until conditions improve.	
	Odour from Processing of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Medium	Medium	Medium	Management complete daily spot checks of the Depot, which includes the identification of malodorous wastes. Storage time limits as specified in the submitted Fire Prevention Plan Document. Potentially odorous wastes (single source) are not mechanically processed, only wood wastes will be subject to shredding activities. In the event that malodorous wastes are identified during the handling operations, they will be isolated within an enclosed skip and removed from the site within 48 hours or arriving. Odorous wastes will be rejected. See Odour Emissions Management Section within EMS. Wind conditions will be monitored & Operations may cease until conditions improve.	Low
	Odour from Storage of Waste	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities	Medium	Medium	Medium	Wastes stored within designated containers/bays/areas. Management complete daily spot checks of the Depot, which includes the identification of malodorous wastes.	Low

			Workforce & Sensitive Receptors as identified in Table 2 above.				Storage time limits as specified in the submitted Fire Prevention Plan Document. See Odour Emissions Management Section within EMS. Wind conditions will be monitored & Operations may cease until conditions improve.	
	Odour from Loading of Wastes	Air Transportation then inhalation	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Medium	Medium	Medium	Only competently trained operatives complete loading operations to ensure they are carried out efficiently and effectively. Management complete daily spot checks of the Depot, which includes the identification of malodorous wastes. Vehicles are sheeted during the transportation of all waste materials to the proposed site. See Odour Emissions Management Section within EMS. Wind conditions will be monitored & Operations may cease until conditions improve.	Low

7. Litter

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Release of Litter	Litter Generated From Onsite Activities	Transport Through the Air & Over Land	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Low	<p>The site will be carefully managed including good housekeeping procedures and regular checks will be made within and around the site for any litter/debris.</p> <p>Reaction time: Public highway immediately (within 1 hour of detection & within the permitted boundary by the end of the working day.</p> <p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Operatives are trained in Emissions Management Procedures.</p> <p>See separately submitted Environmental Management System Emissions Management Section Litter Procedures (Contingency Plan).</p> <p>Wind conditions will be monitored & Operations may cease until conditions improve.</p>	Low

8. Pests

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Pests (flies, vermin, birds) attracted to waste material	Pests	Transport Through the Air & Over Land	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Low	Low	<p>Food waste prohibition notice.</p> <p>Wastes will be rejected if any loads appear to have pest infestations.</p> <p>The site will be carefully managed including good housekeeping procedures and regular checks will be made within and around the site for any litter/debris to prevent the attraction of pests.</p> <p>Operational areas benefit from concrete retaining walls (4 metres) and micro netting (1 metre) deployed around operational areas, as well as a number of adjacent buildings acting as physical barriers.</p> <p>Operatives are trained in Emissions Management Procedures.</p> <p>See separately submitted Environmental Management System Emissions Management Section Pests Procedures (Contingency Plan).</p> <p>Wind conditions will be monitored & Operations may cease until conditions improve.</p>	Very Low

9. Fugitive Emissions to Water

Hazard	Source	Pathway	Receptor	Probability of Exposure	Consequence	Magnitude of Risk	Risk Management	Residual Risk
Contaminated Surface Water Run Off/Fire Water Run Off	Contamination from Materials stored onsite	Percolation through soils, direct run off from site across the ground and entering surface water drains or natural channels/ditches or groundwater	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in Table 2 above.	Low	Medium	Medium	<p>Senior Management inspects conditions of hardstanding areas & impermeable concrete surfacing regularly & any noticeable deterioration is rectified as soon as practicable.</p> <p>Regular inspections of equipment/machinery/vehicles will identify leaks at the earliest possible convenience.</p> <p>Fuels/oils/AdBlue stored in bunded areas with a capacity to hold 110% of the largest containers capacity.</p> <p>Only uncontaminated wastes will be stored on the areas benefitting from a hardstanding surface as specified in the current Permit.</p> <p>See Fire Prevention Plan for the site's strategies in the event of a waste fire.</p> <p>Leakage/Spillage Procedure details in submitted Environmental Management System.</p>	Low
Chemicals & Oils Stored Onsite	Loss of containment on site	Percolation through soils, direct run off from site across the ground and entering surface water drains or natural	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive	Medium	Medium	Medium	<p>Fuels/oils/AdBlue stored in bunded areas with a capacity to hold 110% of the largest containers capacity.</p> <p>Regular inspections of equipment/machinery/vehicles & the chemical storage areas will identify leaks at the earliest possible convenience.</p>	Low

		channels/ ditches or groundwater	Receptors as identified in <u>Table 2</u> above.				Only uncontaminated wastes will be stored on the areas benefitting from a hardstanding surface as specified in the current Permit. Sealed drainage system that will prevent any runoff escaping the wider site.	
Leakage & Spillage	Loss of containment on site	Percolation through soils, direct run off from site across the ground and entering surface water drains or natural channels/ ditches or groundwater	Local Human Population, Adjacent Industrial/ Commercial Activities Workforce & Sensitive Receptors as identified in <u>Table 2</u> above.	Medium	Medium	Medium	Regular inspections of equipment/machinery/vehicles will identify leaks at the earliest possible convenience. Leakage/Spillage Procedure details in submitted Environmental Management System. Sealed drainage system that will prevent any runoff escaping the wider site.	Low

10. Conclusion

10.1.1 This Environmental Risk Assessment has been undertaken in accordance with regulatory guidance.

10.1.2 This qualitative risk assessment has considered fugitive emissions, noise & vibration, odour, litter, pests, and fugitive emissions to water and protected habitats and species. The assessment concludes that with the implementation of the risk management measures described above, and those contained in supplementary Fire Prevention Plan and the Environmental Management System Document, the proposed development is not likely to cause a significant environmental impact and no further assessment is required.