



# **Sandgate Quarry**

## **Environmental Permit Application**

### **Environmental Risk Assessment**

**June 2020**

Prepared on behalf of Inert Recycling UK Ltd





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## 1.0 Introduction

### 1.1 Report Context

- 1.1.1 This section of the Environmental Permit application corresponds to Section 6 of Part B2 of the Environmental Permit application form, and has been prepared on behalf of the Operator, Inert Recycling UK Limited (Inert Recycling), by WYG.
- 1.1.2 Inert Recycling seeks to gain a bespoke waste recovery permit for the permanent deposit of inert waste to land at Sandgate Quarry to facilitate the restoration scheme approved under planning permission WSCC/044/18/SR.
- 1.1.3 In addition to the above, Inert Recycling intend to treat some of the waste that's accepted to the site via crushing and screening. The purpose of this activity is to create additional soils for onsite restoration as there is a shortage of suitable restoration soils and therefore will only be undertaken on a campaign basis. For this particular process, Inert Recycling will only process soil (excluding topsoil) that's of decent quality which will then be mixed with site derived topsoil in order to create the required volume.
- 1.1.4 Further details of the process are provided in the Operating Techniques (Appendix B of the main application).
- 1.1.5 This Environmental Risk Assessment (ERA) is limited to a qualitative assessment of the potential risks to the environment and human health specifically related to the proposed activity. This report will identify any significant risk and demonstrate that the risk of pollution will be acceptable by taking the appropriate measures to manage the risk.



## 2.0 Environmental Risk Assessment

### 2.1 Methodology

2.1.1 This report has been prepared following the Environment Agency's Risk Assessment guidance. It specifically relates to the potential risks associated with the following risk types:

- Odour;
- Noise and vibration;
- Fugitive emissions and
- Accidents and incidents.

2.1.2 This risk assessment addresses the above, and is based on the following methodology:

- Identification of potential sources of risk;
- Identification of all potential receptors to risk; and
- Risk assessment of each risk type.

2.1.3 The ERA is a tool used to identify the pollutant linkage i.e. source – pathway – receptor. For most risks, the atmosphere is the main pathway and will always exist. Therefore, the ERA deals primarily with the sources and receptors and is provided in Appendix A and summarised below.

2.1.4 A 'Nature and Heritage Conservation Screen' (EPR/JB3102MM/A001) was requested from the Environment Agency. The screen determines the presence of any site of nature and heritage conservation, or protected species or habitats that may be impacted by the proposal. A copy of the results is provided in Appendix B.

2.1.5 The results of the screen identified the following within the relevant screening distance:-

- Sullington Warren – Site of Special Scientific Interest (SSSI);
- Chantry Mill – SSSI;
- Ancient Woodland; and
- Protected Habitat – Deciduous Woodland.

### 2.2 Sources



2.2.1 The potential sources of risks have been considered for each risk type, as provided in Appendix A and summarised below:

Odour

- Waste materials.

Noise and Vibration

- Engine noise from vehicles
- Use of reverse vehicle warnings; and
- Use of plant and machinery

Fugitive Emissions

- Particulate matter i.e. dust;
- Scavenging birds, pests and vermin;
- Mud; and
- Litter.

Accidents

- Fire;
- Leaks and spillages;
- Flooding; and
- Unauthorised Access.

**2.3 Pathways**

2.3.1 The pathways have been identified for each risk type as shown in Table 1:

**Table 1: Potential Pathways**

Risk Type	Pathway
Odour	Atmosphere
Noise and vibration	Atmosphere
Fugitive emissions	Atmosphere
Accidents	Atmosphere
	Surface water run-off
	Infiltration
	Percolation



## 2.4 Receptors

2.4.1 Receptors within 1km of the application site, including those identified in the Nature and Heritage Conservation Screen (Appendix B) have been identified and are shown in Table 2 below and are shown on Drawing Number INR/A113100/REC/01. The main pathway for the identified sources will be the atmosphere and as such, atmospheric conditions can affect dispersion rates and hence potential risk. As a result, the location of each receptor in relation to the site may influence the potential impact of the risk, as summarised in Table 2.

**Table 2: Location of potential receptors in relation to waste operations**

Receptor	Direction from operational area	Approximate minimum distance from proposed permit boundary (m)
<b>Designated sites e.g. Ramsars, SAC, SPA, SSSI</b>		
Sullington Warren SSSI	W	15
Chantry Mills SSSI	SW	215
<b>Other Designations e.g. National Parks, AONB, World Heritage Site</b>		
South Downs National Park	S & E	15
<b>Non-Statutory Designations</b>		
Sandgate Country Park/Heath Common LNR & LWS	N	Northern boundary
<b>Historic Environment – Scheduled Monuments</b>		
Group of three bowl barrows 350m SE of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	300
Pair of bowl barrows 280m SE of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	450
Bowl barrow 260m east of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	500
Bowl barrow 200m SE of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	510
Bowl barrow 240m east of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	525
Bowl barrow 120m SE of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	550
Bowl barrow 230m NE of Trinity Methodist Church, forming part of a round barrow cemetery on Sullington Warren	W	570
<b>Historic Environment – Listed Buildings</b>		
Jasmine Cottage School Cottage (Grade II)	W	15
Chanctonbury Lodge (Grade II)	E	260
Old Clayton (Grade II)	E	475
Leather Bottle Cottage (Grade II)		575



Penfold (Grade II)	N	600
Water Lane Farmhouse (Grade II)	N	610
The Old Rectory (Grade II)	S	615
Chantry Mill (Grade II)	SW	700
Barn at Sullington Farm to the NE of Sullington Manor House (Grade II)	S	725
Sullington Manor (Grade II)	S	775
The Parish Church of St Mary (Grade I)	S	800
The Old House Cottage (Grade II)	W	840
Byne (Grade II)	W	920
Snapes Cottage (Grade II)	N	950
No. 41 and the Garden Wall and Gate Piers to SE (Grade II)	W	950
Brook House (Grade II)	W	950
Brook Cottage (Grade II)	W	970
2 and 4, East Brook (Grade II)	W	1000
2, School Hill (Grade II)	W	1000
<b>Domestic Dwellings</b>		
Properties on Water Lane (north of site entrance)	W	20
Properties on Water Lane (south of site entrance)	W	25
Abbots Leigh	S	25
Sandgate Lodge	S	25
Properties on Badgers Holt	E	45
Properties on Sandgate Lane	N	175
Properties on John Ireland Way	E	325
<b>Commercial and Industrial Premises</b>		
Old Clayton Kennels and Cattery	E	450
<b>Schools/Hospitals/Shops</b>		
Gatley's Country Store & Saddlery	S	525
Thakeham Primary School	N	550
Steining Grammar School	N	550
Browns Lane Pre-School	W	1000
<b>Highways or Minor Roads</b>		
Water Lane	W	Western boundary of site
A283 (Washington Road)	S	Southern boundary of site
Sullington Lane	S	15
Hampers Lane	E	215
Barns Farm Lane	SE	90
<b>Public Rights of Way</b>		
Footpath 3506	W	152
Footpath 2631	W	70
Bridleway 2627	E	280
Bridleway 2691	S	100
<b>Priority Habitats</b>		
Deciduous Woodland	N/A	Within permit boundary
Deciduous Woodland	N/A	Within permit boundary
Deciduous Woodland	N/A	Within permit boundary
Deciduous Woodland	N/A	Within permit boundary
Deciduous Woodland	N	Northern boundary of site





Deciduous Woodland	W	20
Deciduous Woodland – Ash Copse	S	150
Lowland Heathland	W	310
Deciduous Woodland	SW	410
Deciduous Woodland	NW	430
Deciduous Woodland	NE	480
Deciduous Woodland	N	550
Deciduous Woodland	E	650
<b>Ancient Woodland</b>		
Ancient & Semi-Natural Woodland	S	200
Ancient & Semi-Natural Woodland	S	390
Ancient & Semi-Natural Woodland	S	415
Ancient & Semi-Natural Woodland	SE	750
<b>Sensitive Land Uses</b>		
Greenacres Farm	S	15
Sandgate Farm	S	500
East Clayton Farm	E	580
Barns Farm	S	770
Orchardway Farm	N	790
Sullington Manor Farm	S	850
Chantry Farm	SW	850
<b>Surface Water</b>		
Water bodies within the quarry		
Tributary of the River Stor	N	65
River Stor	W	800
<b>Groundwater</b>		
The site is located on a principal bedrock aquifer however the site is not located within a source protection zone.		

## 2.5 Risk Assessment

2.5.1 The ERA (Appendix A) looks at each specific hazard identified and assesses the likelihood of those hazards impacting on the receptors. This is achieved by fulfilling the following objectives:-

- Identify the location and nature of each hazard;
- Identify the specific receptors potentially at risk and assess the sensitivity of each receptor;
- Provide a qualitative assessment of the risk posed to each sensitive receptor;
- Identify management and monitoring techniques; and
- Provide recommendations for more detailed assessments where necessary.



### 2.6 Summary of ERA

- 2.6.1 The ERA (Appendix A) indicates that the proposed development will have no significant impacts in terms of odour, noise and fugitive emissions, and the likelihood of accidents is minimal.



## Drawings

INR/A113100/REC/01 – Receptor Plan



## **Appendices**



**Appendix A – Amenity and Accident Risk Assessment**



**Table A1: Odour Risk Assessment and Management Plan**

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Acceptance of Odourous Waste Types.	Occupiers of domestic dwellings listed in Table 2.	Atmosphere	<p>The proposed waste types are not putrescible and therefore will not biodegrade to produce offensive odours.</p> <p>There will be strict waste acceptance procedures in place to minimise the risk of non-compliant wastes being accepted. Details of the waste acceptance procedures are provided in the Operating Techniques (Appendix B of the Environmental Permit Application).</p> <p>All site operatives will be vigilant with regard to identifying non-compliant wastes.</p> <p>Any non-conformances or odour issues will be reported to the Site Manager.</p>	Very unlikely due to the nature of the proposed waste types and the measures in place.	Odour annoyance.	Not significant due to management techniques employed.



**Table A2: Noise and Vibration Risk Assessment and Management Plan**

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Noise and vibrations from loading and unloading of waste.	Occupiers of domestic dwellings listed in Table 2.  Priority Habitats listed in Table 2 above.  Statutory Ecology Habitats listed in Table 2.	Air	<p>All noise generating activities will be undertaken during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays), with the exception of emergency repairs.</p> <p>All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer’s requirements to minimise the risk of mechanical failure which could result in increased noise emissions.</p> <p>The loading/unloading of wastes will be undertaken in a controlled manner to keep noise/vibration to a minimum. Vehicles will be directed by site operatives to minimise the drop height when depositing loads at the site.</p> <p>All noise and vibration generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>	Intermittent noise disturbance.	Not significant if managed correctly.	Intermittent noise disturbance.
Vehicle movements on site	Occupiers of domestic dwellings listed in Table 2.  Priority Habitats listed in Table 2	Air	<p>Loads will only be delivered to the site during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays).</p> <p>The delivery of waste will take place in a controlled manner to keep noise/vibration to a minimum.</p>	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant due to management techniques employed.

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	above. Statutory Ecology Habitats listed in Table 2.		<p>All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer's requirements to minimise the risk of mechanical failure which could result in increased noise emissions.</p> <p>All equipment and vehicles when not in regular use shall be switched off.</p> <p>All noise and vibration generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>			
Use of plant and machinery.	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p>	Air	<p>All noise generating activities will be undertaken during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays), with the exception of emergency repairs.</p> <p>All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer's requirements.</p> <p>All equipment and vehicles, when not in regular use, shall be switched off. The Site Manager will be responsible for ensuring the above measures are implemented.</p> <p>All noise generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant if managed correctly.
Noise from reversing vehicle warnings.	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p>	Air	<p>All noise generating activities will be undertaken during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays), with the exception of emergency repairs.</p> <p>Utilisation of low-level warning signals.</p> <p>All noise and vibration generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>	Intermittent during operating hours.	Intermittent noise disturbance.	Not significant if managed correctly.



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<p>Noise and vibration from engineering works</p>	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p>	<p>Air</p>	<p>All noise generating activities will be undertaken during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays), with the exception of emergency repairs.</p> <p>All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer’s requirements to minimise the generation of noise.</p> <p>All plant and equipment will be switched off when not in regular use.</p> <p>All noise and vibration generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>	<p>Intermittent during operating hours.</p>	<p>Intermittent noise disturbance.</p>	<p>Not significant if managed correctly.</p>
<p>Noise from processing of waste materials (crushing and screening)</p>	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p>	<p>Air</p>	<p>All noise generating activities will be undertaken during the hours stipulated in the planning permission (07:00 to 18:00 Monday to Friday and 07:00 to 13:00 on Saturdays), with the exception of emergency repairs.</p> <p>As mentioned in Section 1.1.3 of this report, the proposed waste treatment process will only be undertaken on a campaign basis when there is a shortage of restoration soils. As such, it is considered that the risk of noise from this process will be low.</p> <p>All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer’s requirements to minimise the generation of noise.</p> <p>All plant and equipment will be switched off when not in regular use.</p> <p>All noise and vibration generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p>	<p>Intermittent during operating hours.</p>	<p>Intermittent noise disturbance.</p>	<p>Not significant if managed correctly.</p>

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**Table A3: Fugitive emissions risk assessment and management plan**

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
<b>To Air</b>						
Dust emissions from vehicle movements.	Occupiers of domestic dwellings listed in Table 2.  Workforce in commercial and industrial properties identified in Table 2.  School listed in Table 2 above.  Priority Habitats listed in Table 2 above.  Statutory Ecology Habitats listed in Table 2.  Sensitive land uses listed in Table 2.  Users of roads listed in Table 2.	Air	Wastes being delivered to the site will be covered or sheeted to prevent the generation of dust while the waste is in transit.  Vehicle speeds will be limited on site and access road to 10mph to prevent re-suspension and entrainment of dust.  All equipment and vehicles when not in regular use shall be switched off to minimise the risk of dust emissions that may arise from idling.  The site will benefit from an operational wheel wash which is used by HGV's before they leave the site. This will minimise the risk of dust emissions on the haul road.  The implementation of dust suppression systems including regular maintenance of haul roads with water sprays and a water bowser.  Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix H of the environmental permit application.	Unlikely due to measures in place.	Local nuisance i.e. dust on cars, clothing and vegetation.  Smothering.  Nutrient enrichment.	Not significant due to the management techniques employed.

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			The Site Manager undertakes a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.			
Dust emissions generated during unloading of inert waste from HGVs.	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Workforce in commercial and industrial properties identified in Table 2.</p> <p>School listed in Table 2 above.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p> <p>Sensitive land uses listed in Table 2.</p> <p>Users of roads listed in Table 2.</p>	Air	<p>A water bowser will be used to dampen site roads and stockpiles if deemed necessary.</p> <p>The loading/unloading of wastes will be undertaken in a controlled manner to keep dust emissions to a minimum.</p> <p>Drop heights will be minimised to reduce the generation of dust whilst the waste is being handled.</p> <p>Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix H of the environmental permit application.</p> <p>The Site Manager will undertake a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.</p>	Dust could potentially reach the nearby dwellings when a strong wind blows in their direction. Management actions should prevent this happening.	<p>Local nuisance i.e. dust on cars, clothing and vegetation.</p> <p>Smothering.</p> <p>Nutrient enrichment.</p>	Not significant due to management techniques employed.
Dust from haul road	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Workforce in commercial and industrial properties identified in Table 2.</p>	Air	<p>The use of modern plant and regular maintenance shall be practiced to reduce emissions.</p> <p>The implementation of dust suppression systems including regular maintenance of haul roads with water sprays and a water bowser.</p> <p>The site will benefit from an operational wheel wash which is used by HGV's before they leave the site. This will minimise the risk of dust emissions on the haul road.</p>	Unlikely due to measures in place.	<p>Local nuisance i.e. dust on cars, clothing and vegetation.</p> <p>Smothering.</p> <p>Nutrient enrichment.</p>	Not significant due to the management techniques employed.

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	<p>School listed in Table 2 above.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p> <p>Sensitive land uses listed in Table 2.</p> <p>Users of roads listed in Table 2.</p>		<p>Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix H of the environmental permit application.</p> <p>The Site Manager undertakes a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.</p>			
<p>Dust emissions from the processing of waste materials (crushing and screening)</p>	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Workforce in commercial and industrial properties identified in Table 2.</p> <p>School listed in Table 2 above.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p> <p>Sensitive land uses listed in Table 2.</p>	Air	<p>The use of modern plant and regular maintenance shall be practiced to reduce emissions.</p> <p>The implementation of dust suppression systems including regular maintenance of haul roads with water sprays and a water bowser.</p> <p>As mentioned in Section 1.1.3 of this report, the proposed waste treatment process will only be undertaken on a campaign basis when there is a shortage of restoration soils. This activity will be undertaken with mobile plant which will be situated within the relevant working area where the additional soil is required. Once this material has been processed, it will be used immediately in the restoration works and therefore Inert Recycling do not propose to store any waste on site before or after treatment. As such, it is considered that the risk of dust from this process will be low.</p> <p>The Site Manager undertakes a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.</p>	<p>Unlikely due to measures in place.</p>	<p>Local nuisance i.e. dust on cars, clothing and vegetation.</p> <p>Smothering.</p> <p>Nutrient enrichment.</p>	<p>Not significant due to the management techniques employed.</p>

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	Users of roads listed in Table 2.		Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix H of the environmental permit application.			
<b>To Water</b>						
Contaminated rainwater run-off.	Surface water bodies Groundwater	Water	<p>The proposed waste types are inert and therefore non-hazardous. As such, any run-off that is generated on site will simply be rainwater which has passed through inert soils, and therefore is not likely to be contaminated. An attenuation layer will be constructed to prevent leaching of contaminants into the groundwater. A Hydrogeological Risk Assessment has been produced in support of the application.</p> <p>There will be strict waste acceptance procedures in place at the site to prevent the acceptance of non-conforming waste types. Details of the waste acceptance procedures are provided in the Operating Techniques (Appendix B of the Environmental Permit Application).</p>	Very unlikely	Contamination of surface water bodies	Not significant due to the inert nature of the waste type.
<b>Pest/Scavenging Birds</b>						
Birds and pests	<p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Workforce in commercial and industrial properties identified in Table 2.</p> <p>School listed in Table 2 above.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p>	Air Ground	<p>The proposed waste types are not putrescible and will therefore not be attractive to pests or scavenging birds.</p> <p>There will be strict waste acceptance procedures in place at the site to prevent the acceptance of non-conforming waste types. Details of the waste acceptance procedures are provided in the Operating Techniques (Appendix B of the Environmental Permit Application).</p> <p>The Site Manager will undertake regular reviews of pests and scavenging birds at the site. All site operatives will be vigilant and report any problems to the Site Manager.</p>	Very unlikely due to the inert nature of the waste material	Nuisance to local receptors within 1km of the environmental permit boundary.	Not significant due to the inert nature of the waste type and the management of the facility.

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	Sensitive land uses listed in Table 2.					
<b>Mud</b>						
Mud from vehicle movements	Users of local highways	Tracked on vehicle wheels.	<p>The implementation of dust suppression systems including regular maintenance of haul roads with water sprays and a water bowser.</p> <p>All vehicles exiting the site would utilise the wheel wash facility.</p> <p>The amount of mud on local roads will monitored daily by site operatives.</p> <p>In the event that mud is deposited on the access road and/or highway then a road sweeper will be employed if necessary.</p>	Unlikely due to measures in place.	Local nuisance. Mud on roads is unsightly and can increase the likelihood of road traffic accidents.	Not significant due to management of the facility.
<b>Litter</b>						
Wind blown litter	All receptors listed in Table 2.	Air	<p>Due to the nature of the proposed waste types, litter will not be generated at the site. The proposed waste types are not considered to represent a significant risk of litter.</p> <p>There will be strict waste acceptance procedures in place at the site to prevent the acceptance of non-conforming waste types. Details of the waste acceptance procedures are provided in the Operating Techniques (Appendix B of the Environmental Permit Application).</p> <p>A vigilant watch for litter will be undertaken by site operatives. In the unlikely event that litter is generated by the activity, the Site Supervisor will implement a litter collection as necessary.</p>	Unlikely due to measures in place.	Local nuisance	Not significant due to nature of waste received and management techniques employed.



**Table A4: Accident and Incident Risk Assessment and Management Plan**

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Fire or failure to contain firewater.	Groundwater and surface water.  Atmosphere.  Occupiers of domestic dwellings listed in Table 2.	Infiltration.  Contamination of surface water	<p>The risk of fire is considered to be low as the proposed waste types are not flammable.</p> <p>There will be strict waste acceptance procedures in place at the site to prevent the acceptance of non-conforming waste types. Details of the waste acceptance procedures are provided in the Operating Techniques (Appendix B of the Environmental Permit Application).</p> <p>The operator will undertake routine maintenance of equipment in accordance with manufacturer’s guidance. This will minimise the risk of mechanical failure which may result in an increased risk of combustion.</p> <p>Site notices and training will be undertaken regarding fire hazards.</p> <p>Site Manager will be responsible for actions in the event of a fire.</p>	Unlikely	Contamination of local groundwater and/or surface water.	Not significant providing management procedures are adhered to.
Leaks and spillages of oil or fuel.	Groundwater and surface water.  Surface waters identified in Table 2.	Infiltration	<p>The operator will undertake regular maintenance of plant equipment in accordance with manufacturer’s guidance. This will minimise the risk of mechanical failure which may result in leaks.</p> <p>All fuel, oil and lubricants will be contained within appropriate</p>	Unlikely due to measures in place.	Contamination of land and watercourses.	Not significant due to management techniques employed.



# Sandgate Quarry – Environmental Risk Assessment



			<p>110% bunded tanks. The tanks will be maintained and inspected in accordance with the manufacturer’s recommendations.</p> <p>Daily vehicle / plant checks to ensure any fuel/oil leaks etc. are repaired as soon as possible.</p> <p>The Site Manager will be responsible for ensuring effective remediation and documenting any incident.</p>			
<p>Flooding</p>	<p>Groundwater.</p> <p>Surface water bodies identified in Table 2.</p>	<p>Infiltration.</p> <p>Percolation.</p>	<p>The site is not located in an area at risk of flooding from Rivers.</p> <p>The waste is unlikely to cause contamination of groundwater through infiltration due to the nature of the proposed waste types. Due to the nature of the waste types which are proposed to be used, in the event that flood or surface water comes into contact with the wastes, significant pollution or contamination of groundwater or surface water is considered unlikely.</p> <p>Inert Recycling intend to implement measures to manage surface water when the site is being filled and when the restoration of site is complete. Details of these measures are provided in the Environmental Setting and Site Design report that accompanies this application as Appendix C.</p>	<p>Unlikely due to measures in place in the nature of the proposed development.</p>	<p>Disruption to works on site.</p> <p>Contamination of local groundwater and/or surface water.</p> <p>Contamination of local agricultural land.</p>	<p>Not significant due to the management techniques employed, the nature of the waste types and the features of the site.</p>
<p>Vandalism</p>	<p>Groundwater</p> <p>Surface water bodies</p> <p>Occupiers of domestic dwellings listed in Table 2.</p> <p>Workforce in commercial and</p>	<p>Unauthorised entry to the site.</p>	<p>The site is gated and is surrounded by security fencing and vegetation.</p> <p>Any identified damage to the gate and the perimeter fence that could compromise the site security will be recorded and temporarily repaired as necessary before the end of the working day. Permanent repair or replacement will be undertaken as soon as practicable.</p> <p>Procedures are in place which require all visitors to the site to sign in on arrival and sign out on departure.</p>	<p>Unlikely due to measures in place.</p>	<p>Release of polluting materials to air, water or land.</p>	<p>Not significant due to management techniques employed.</p>

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	<p>industrial properties identified in Table 2.</p> <p>School listed in Table 2 above.</p> <p>Priority Habitats listed in Table 2 above.</p> <p>Statutory Ecology Habitats listed in Table 2.</p> <p>Sensitive land uses listed in Table 2.</p>					
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## **Appendix B – Nature and Heritage Screening Report**