

Benfleet Soil and Aggregates Recycling Facility

784-B072465

Environmental Risk Assessment Version 3

Environmental Permit Variation Application

Benfleet Scrap Co Limited

May 2026

Document prepared on behalf of Tetra Tech Limited.

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[BEN-B072465-REC-01 – Environmental Receptor Plan](#)

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1.0 Introduction

1.1 Report Scope

- 1.1.1 This section of the Environmental Permit application corresponds to Section 6 of Part B2 of the Environmental Permit application forms, and has been prepared on behalf of the operator, Benfleet Scrap Co Limited (Benfleet).
- 1.1.2 This application relates to Benfleet's site Benfleet Soil and Aggregates Recycling Facility located at Towerfield Business Park, Fane Road, Benfleet, SS7 3NH and is centred at approximate National Grid Reference (NGR) TQ 78095 90299. The application site is detailed on Drawing Number [2641-005-02A](#) – Permit Boundary Plan
- 1.1.3 Benfleet currently hold a Standard Rules Environmental Permit SR2015 No6 (EPR/MP3325SU) for the site [which was issued in July 2020 to D. C. Donovan and transferred to Benfleet Scrap Co Limited in January 2024.](#)
- 1.1.4 It is the intention of Benfleet Scrap to apply for a Bespoke Environmental Permit for a Waste Soil and Aggregate Facility. It was hoped to apply for the new SR2022 No.1 standard rules permit but it was found that since the original standard rules permit was issued a new protected habitat (deciduous trees) has been found to the south east of the site.
- 1.1.5 The bespoke permit will be [mainly](#) in line with the conditions set out in the new SR2022 No.1 permit as follows:-
- Only specified waste types will be treated to produce aggregates;
 - Only specified waste types will to be treated to produce soils;
 - [Up to 200,000 tonnes of waste per year to be accepted at the site \(different to SR2022 No. 1\);](#)
 - Up to 75,000 tonnes of waste per year for specified waste types to be accepted at the site;
 - Up to 10,000 tonnes of waste for specified waste types to be stored on site at any time;
 - Up to 50,000 tonnes of waste to be stored on site at any time;
 - Sorting, separation, screening, crushing, and blending; and

- Treatment will be done in accordance with the specified rules as set out in SR 2022 No.1.

1.1.6 This Environmental Risk Assessment (ERA) has been prepared to support a bespoke environmental permit variation application to increase the annual tonnages and to extend the permitted area.

1.1.7 This 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 (EA) Risk Assessment guidance. It specifically relates to the potential risks associated with the following risk types:-

- Amenity and Accidents;
- Surface water discharges;
- Air;
- Global Warming potential;
- Site Waste; and,
- Groundwater.

2.1.2 There will be no direct emissions to groundwater or surface water as a result of this proposal. Subsequently, it's considered that no further assessment is required for groundwater.

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

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

2.1.4 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.

2.1.5 A Nature and Heritage Conservation Screen (Reference Number EPR/HB3704CK/A001) was requested from the EA. This screen determines the presence of any sites of nature and heritage conservation, or protected species or habitats that may be impacted by the proposal.

2.1.6 The results of the screen (Appendix B) identified the following:-

Protected Habitats

- Deciduous woodland.

Protected Species

- Code 2.

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:-

Noise and Vibration

- Engine noise from vehicle movements;
- Use of reverse vehicle warnings; and
- Loading/unloading of waste.

Fugitive Emissions

- Particulate matter i.e., dust;
- Scavenging birds;
- Contaminated surface water run-off;
- Mud; and
- Litter.

Accidents

- Fire or failure to contain firewater;
- Plant failure or breakdown;
- Flooding; and
- Vandalism.

2.3 Pathways

Table 1: Potential Pathways

Risk Type	Pathway
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 site, including those identified in the Nature and Heritage Conservation Screen (Appendix B), have been listed in Table 2 and are shown on Drawing Number [BEN-B072465-REC-01](#) – Environmental Receptor Plan. The main pathway for the identified sources will be 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 within 1km of the Site

ID	Receptor	Direction from Operational Area	Minimum Distance from the Permit Application Boundary (approx. m)
Domestic Dwellings			
1	Travellers Site	S	60
2	Residential Properties on Fane and Burches Road	SE	260 - 370
3	Residential Properties on Woodside Avenue	SSW	950
Commercial and Industrial Premises			
4	PR Bates Waste TS	N	10
5	Algonova Limited	E	10
6	Scrap Yard	SE	30
7	OCL Group	E	100
8	CW autos	NE	260
9	Dpf Delete Essex	NNE	300
10	Rayleigh Car Servicing	N	320
11	M & B Auto's	N	350
12	Granite Worktops & Interiors	NE	370
13	Paintboxspace	NE	360
14	Smart Auto Company	NE	355
15	Chots Autobody Repair Specialists	N	380
16	Sweet Briar Embroidery	N	400
17	Rocky's Motorcycles	NE	380
18	C S Vehicles Services	NE	410
19	Nudgers Vehicle Bodywork and paint Specialist	NE	400
20	RSC Scaffolding	ENE	400

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21	Crystalclear Leisure Limited	ENE	600
22	Pots to Inspire Ltd	ENE	600
23	LSA Group	S	80
24	Webuyanycaravan Ltd	S	100
25	Copperfield Stables	SW	150
26	Animal Welfare Centre	S	200
27	R.D. Simpson and Sons	SE	500
28	Essex County Skips & ECS Demolition Contractors	S	850
29	Wilson Tool & Engineering co	S	860
30	Saab & Vauxhall Independent Specialists	S	890
31	BVS Benfleet	SE	480
32	Arterial and Bonville Industrial Parks	W and NW	570
Schools / Hospitals / Shops / Amenities / Recreation			
33	South East Essex Driving and Riding Club Showground	S	540
34	Benfleet FC	S	520
35	Benfleet Cricket & Social Club	S	650
36	Woodside Cemetery	S	700
37	Woodside Park	SW	780
38	Castle Point Bowls Club	S	800
39	My Place Cafe	N	500
Highways/Minor Roads/Railways			
40	A126	N	350
41	A1245	W	210
42	Rail Line	N	730
43	Burches Road	S	225
44	Coniston Road	E	490
Protected Habitats			
45	North Benfleet Hall Wood Local Wildlife Site	SW	900
46	Fane Road Meadows Local Wildlife Site	SW	700
Surface Water e.g. rivers and streams			
47	Pond	SE	200
48	Pond	SSW	200
49	Pond	ESE	350
50	Field Ditches	W	100
51	Field Ditches	N	520
Nature and Heritage Screening Results			
52	Deciduous woodland (all brown / grey hatched areas)	S	30
53	Code 2	NE	240
Groundwater (sensitivity)			

According to the Multi-Agency Geographic Information for the Countryside's (MAGIC) website, the site area lies over the London Clay Formation and therefore has no aquifer below it. The site does not lie in 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 impact with regards to noise and fugitive emissions, and the likelihood of accidents is minimal.

Drawings

[2641-005-02A – Permit Boundary Plan](#)

[BEN-B072465-REC-01 – Environmental Receptor Plan](#)

Appendices

Appendix A – Environmental Risk Assessment

Table A1: 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.
<p>Vehicle movements on site and haul roads.</p> <p>Noise from reverse vehicle warnings.</p>	<p>Occupiers of domestic dwellings listed in Table 2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p> <p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in</p>	<p>Atmosphere.</p>	<p>The site is located within a predominantly industrialised area surrounded by additional industrial and commercial properties.</p> <p>The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the residential properties on Burches Road located 260 to 370 metres southeast of the site.</p> <p>Operating hours for the facility are 07:00 – 18:00 Monday – Saturday.</p> <p>The proposed activities will not be dissimilar to the operations occurring at the immediate surrounding properties.</p> <p>All vehicle drivers will comply with the speed limits within the site and on the access roads.</p> <p>An anti-idling policy will be employed on site which requires all vehicles and plant to be switched off when not in use.</p> <p>All vehicles will utilise low level reversing signals where possible.</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>Low – the site is situated within an operational industrial estate and the management procedures should prevent emissions of noise.</p>	<p>Medium/Low - Intermittent noise and vibration disturbance.</p>	<p>Low – The management procedures employed reduced the likelihood of impact.</p>

	<p>Table 2 above.</p> <p>Protected habitats listed in Table 2 above.</p>		<p>All noise generating activities will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p> <p>In addition to the above, a Noise Management Plan (NMP) has been prepared which provide an assessment of noise from the proposed activities and how noise will be managed at the site. The NMP is provided as Appendix E of the Environmental Permit Application.</p>			
<p>Noise from the loading/unloading of wastes.</p>	<p>Occupiers of domestic dwellings listed in Table 2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p> <p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in Table 2 above.</p>	<p>Atmosphere.</p>	<p>Operating hours for the facility are 07:00 – 18:00 Monday – Saturday</p> <p>The site is located in a predominantly industrialised area surrounded by additional industrial and commercial properties.</p> <p>The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the residential properties on Burches Road located 260 to 370 metres southeast of the site.</p> <p>The loading/unloading of wastes will be undertaken in a controlled manner to keep noise/vibration to a minimum. For example, drop heights will be minimised as much as practicable.</p> <p>All noise generating activities will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager.</p> <p>Drop heights will be minimised as much as practicable.</p> <p>In addition to the above, a Noise Management Plan (NMP) has been prepared which provide an assessment of noise from the proposed activities and how noise will be managed at the site. The NMP is provided as Appendix E of the Environmental Permit Application.</p>	<p>Low – the site is situated within an operational industrial estate and the management procedures should prevent emissions of noise.</p>	<p>Medium/Low - Intermittent noise and vibration disturbance.</p>	<p>Low – The management procedures employed reduced the likelihood of impact.</p>

	Protected habitats listed in Table 2 above.					
Noise from the mechanical treatment of waste.	<p>Occupiers of domestic dwellings listed in Table 2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p> <p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in Table 2 above.</p> <p>Protected habitats listed in Table 2 above.</p>	Atmosphere.	<p>Operating hours for the facility are 07:00 – 18:00 Monday – Saturday</p> <p>The site is immediately surrounded by additional industrial and commercial properties. The surrounding industrial activities are not dissimilar to the proposed activities on site.</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>An anti-idling policy will be employed on site which will require all plant and equipment to be switched off when not in use.</p> <p>The use of modern plant and equipment shall be practiced and will be maintained in accordance with the manufacturer's requirements. This will minimise the risk of mechanical failure which could result in increased noise emissions.</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>In addition to the above, a Noise Management Plan (NMP) has been prepared which provide an assessment of noise from the proposed activities and how noise will be managed at the site. The NMP is provided as Appendix E of the Environmental Permit Application.</p>	<p>Low – the site is situated within an operational industrial estate and the management procedures should prevent emissions of noise.</p>	<p>Medium/Low - Intermittent noise and vibration disturbance.</p>	<p>Low – The management procedures employed reduced the likelihood of impact.</p>

Table A2: 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	Hazard	Receptor	Pathway	Hazard
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 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 has the potential to cause harm?
To Air						
Dust emissions from vehicle movements.	Occupiers of domestic dwellings listed in Table 2 above. Commercial and industrial units' users in listed Table 2 above. Amenities listed in Table 2 above. Non-statutory ecological sites listed in Table 2 above. Protected species listed in Table 2 above. Protected habitats listed	Atmosphere.	<p>Vehicles delivering waste to the site will be covered or sheeted to prevent the generation of dust whilst the waste is in transit.</p> <p>The site is immediately surrounded by additional industrial and commercial properties. The surrounding industrial activities are not dissimilar to the proposed activities on site.</p> <p>The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the residential properties on Burches Road located 260 to 370 metres southeast of the site.</p> <p>The speed limit on site will be restricted to 5mph to minimize the risk of dust arising from vehicle movements.</p> <p>An anti-idling policy will be employed on site which requires all vehicles and plant to be switched off when not in use This will minimise the risk of dust that is typically associated with idling.</p> <p>The surfaces present on site will be visually inspected on a daily basis by site management and the impermeable surfaces swept clean in accordance with the strict housekeeping regime.</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>	Low - the management actions should prevent emissions of dust.	Low – human health risk in immediate vicinity, nuisance risk to nearby vehicles and property. In addition, ecological receptors may be susceptible to smothering.	Low – The management procedures employed reduced the likelihood of impact.

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	in Table 2 above.		Dust will be managed in accordance with the Dust Management Plan that is provided as Appendix D of the environmental permit application.			
Dust generated during loading/unloading of waste.	Occupiers of domestic dwellings listed in Table 2 above. Commercial and industrial units' users in listed Table 2 above. Amenities listed in Table 2 above. Non-statutory ecological sites listed in Table 2 above. Protected species listed in Table 2 above. Protected habitats listed in Table 2 above.	Atmosphere.	The site will have allocated areas for the unloading and loading of waste. The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the residential properties on Burches Road located 260 to 370 metres southeast of the site. Drop heights would be minimised as much as practicable to reduce the generation of dust from loading/unloading activities. General site housekeeping will ensure that dust does not build up on site and all dust generating activities will be monitored closely and site operatives will be vigilant and report any excessive dust issues to the Site Manager to be dealt with at the next available notice. 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 manager. The site staff will be vigilant and will report any incidents of unacceptable dust emissions to the site management staff. The site manager or supervisor will be responsible for visually monitoring dust levels and implementing any necessary remedial action as required. Extra care will be taken during periods of prolonged dry weather or high winds. Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix D of the environmental permit application.	Low - the management actions should prevent emissions of dust	Low – human health risk in immediate vicinity, nuisance risk to nearby vehicles and property. In addition, ecological receptors may be susceptible to smothering.	Low – The management procedures employed reduced the likelihood of impact.
Dust generated during	Occupiers of domestic dwellings listed in Table	Atmosphere.	The site will have allocated areas for the treatment of waste. The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the	Low - the management actions should prevent	Low – human health risk in immediate vicinity,	Low – The management procedures employed

<p>treatment of waste.</p>	<p>2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p> <p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in Table 2 above.</p> <p>Protected habitats listed in Table 2 above.</p>		<p>residential properties on Burches Road located 260 to 370 metres southeast of the site.</p> <p>General site housekeeping will ensure that dust does not build up on site and all dust generating activities will be monitored closely and site operatives will be vigilant and report any excessive dust issues to the Site Manager to be dealt with at the next available notice.</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 manager.</p> <p>The site staff will be vigilant and will report any incidents of unacceptable dust emissions to the site management staff. The site manager or supervisor will be responsible for visually monitoring dust levels and implementing any necessary remedial action as required.</p> <p>Extra care will be taken during periods of prolonged dry weather or high winds.</p> <p>Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix D of the environmental permit application.</p>	<p>emissions of dust</p>	<p>nuisance risk to nearby vehicles and property. In addition, ecological receptors may be susceptible to smothering.</p>	<p>reduced the likelihood of impact.</p>
<p>Dust and particulates from storage of waste.</p>	<p>Occupiers of domestic dwellings listed in Table 2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p>	<p>Atmosphere.</p>	<p>The waste will arrive at the site in sheeted vehicles.</p> <p>The non-hazardous soil and aggregate wastes stored in waste piles will not contain fine materials likely to contribute to dust emissions.</p> <p>The nearest residential receptors to the site are the Traveller's Site located 60 m south of the site and the residential properties on Burches Road located 260 to 370 metres southeast of the site.</p> <p>Dust suppression measures will be in place and the storage areas will be provided with misting equipment and water sprays. A permanent supply of water will be available in the instance that dust emissions begin to occur.</p>	<p>Low - the management actions should prevent emissions of dust.</p>	<p>Low – human health risk in immediate vicinity.</p>	<p>Low – The management procedures employed reduced the likelihood of impact.</p>

	<p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in Table 2 above.</p> <p>Protected habitats listed in Table 2 above.</p>		<p>Further dust suppression measures will be identified and implemented if there is any risk identified of dust emanating past the site boundary, with attention to meteorological conditions which may exacerbate potential dust issues.</p> <p>The Site Manager will undertake daily visual assessments of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.</p> <p>Dust will be managed in accordance with the Dust Management Plan that's provided as Appendix D of the environmental permit application.</p>			
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To Water

<p>Contaminated rainwater run-off.</p> <p>Run off of contaminants from wastes or non-wastes (e.g. oil, fuel).</p>	<p>Groundwater.</p> <p>Surface water features listed in Table 2.</p>	<p>Direct surface water run-off from site.</p> <p>Infiltration.</p> <p>Percolation.</p>	<p>The site benefits from an impermeable surface.</p> <p>All areas of the impermeable surface, fixed/temporary bays and containers will be visually inspected on a daily basis to ensure continuing integrity and fitness for purpose. In the event that any damage breaches the integrity of the engineered containment so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable.</p> <p>All site surfaces and waste piles will be visually inspected on a daily basis to ensure continuing integrity and fitness for purpose. In the event that any damage breaches the integrity of the engineered containment so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable.</p> <p>Fuel storage will be provided, and storage will be in line with latest legislation.</p> <p>All deliveries of fuel will be supervised to ensure no spillages occur.</p> <p>Emergency spillage procedures are in place to ensure any oil, hydraulic fluids etc. are dealt with before they enter the drainage system. A supply of absorbent granules will be stored on site. The drainage system will be sealed off to prevent discharge in the event of an incident.</p>	<p>Low – The engineered systems and infrastructure are designed to prevent any discharge of contaminated rainwater runoff.</p>	<p>Medium – contamination of local water bodies and/or groundwater.</p>	<p>Low - due to the design of the site.</p>
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			Weekly check sheets include a requirement for site staff to undertake visual inspections of the status of the drainage.			
Pests/Scavenging birds						
Birds and Pests.	Occupiers of domestic dwellings listed in Table 2 above. Commercial and industrial units' users in listed Table 2 above. Amenities listed in Table 2 above. Non-statutory ecological sites listed in Table 2 above. Protected species listed in Table 2 above. Protected habitats listed in Table 2 above.	Air. Ground.	Benfleet do not propose that any putrescible wastes will be accepted at the site. All waste accepted on site will be inert and non-hazardous in nature. The waste streams accepted are unlikely to attract pests due to the nature of wastes. A full list of these wastes can be found in Appendix A of the Operating Techniques (Appendix B). Should putrescible waste be accepted at the site, the wastes will be quarantined, and arrangements will be made to transfer the waste off site as soon as practicable, storage will be limited to 72 hours from the date of receipt. Waste will be accepted at manageable volumes to avoid a backlog of wastes. In the event of odorous materials being received at the site, or materials becoming odorous during storage, these will be prioritised before other materials already stored at the site. Waste acceptance procedures will include a requirement for incoming waste to be checked for fly infestation prior to deposition. Any wastes found to contain flies on entry to the site will either be treated appropriately with the fly spray or rejected from the site. Routine inspections are undertaken as required by the IMS and appropriate action will be taken in the event that the inspections indicate the presence of any pests or vermin. A pest control contractor will be appointed to attend the site at regular intervals (to be determined) by the contractor in accordance with IMS procedures. Additionally, the pest	Low – The management actions should reduce the risk.	Medium – Nuisance, property damage and risk of vermin spread infections.	Low – the management procedures in place reduce likelihood of impact.

			control contractor will be called to site to deal with any vermin/pest related problems that may arise between scheduled visits.			
Mud						
Litter/debris and mud on public highway.	Highways listed in Table 2.	Tracked by vehicles.	<p>The site is situated within a purpose-built industrial estate and the proposed site benefits from an impermeable surface. Therefore, the risk of mud is considered to be low.</p> <p>Vehicles will be sheeted/netted, if necessary, when entering/leaving the site to prevent fugitive emissions of litter/waste materials onto the public highways.</p> <p>The site will employ good housekeeping criteria. Any litter that's noticed on site will be removed as soon as is practicable and a check will be undertaken at both the start of the workday and the end of the workday to ensure that there is no litter.</p>	Low – the management actions should prevent materials being tracked/dropped onto local highways.	Medium – Nuisance and potential health and safety hazard caused by waste on the highway.	Low – The management procedures in place minimise the likelihood of impact.

Table A3: 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. Site Operators Surface water features listed in Table 2. Occupiers of domestic dwellings	Infiltration. Contaminated rainwater runoff.	<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 document (Appendix B of the Environmental Permit Application).</p> <p>There will be no combustible waste accepted on site, therefore along with the management system in place, the risk of fire is considered to be low. It is not expected that there will be any reactions between the</p>	Low – the management actions should prevent fire	Medium- possible respiratory irritation from smoke inhalation Nuisance from smoke and emissions of particulates	Low – due to Management system in place

<p>listed in Table 2 above.</p> <p>Commercial and industrial units' users in listed Table 2 above.</p> <p>Amenities listed in Table 2 above.</p> <p>Non-statutory ecological sites listed in Table 2 above.</p> <p>Protected species listed in Table 2 above.</p> <p>Protected habitats listed in Table 2 above.</p>		<p>different waste stockpiles due to their non-combustible nature.</p> <p>Risk assessments will be completed to ensure the appropriate control measures are in place to reduce the risk of arson or vandalism. Access to and from the site is through the main gate, which is kept locked outside of operational hours to prevent unauthorised access. The site will have a 24/7 monitored CCTV system to ensure a fire is detected at any time; during operational hours and outside of operational hours. All visitors will be required to report to the office to sign in and will be accompanied at all times unless authorised otherwise.</p> <p>All plant to be maintained and cleaned routinely in accordance with the manufacturer's guidance. This will minimise the risk of mechanical failure which may result in an increased risk of fire. All plant and machinery will be fitted with fire extinguishers and dust filters.</p> <p>All portable items of electrical equipment are listed in a register and tested by a competent person at least annually. Electrical sockets will not be overloaded. Adapter plugs are prohibited on site. Fixed electrical installations are installed, inspected, tested and maintained by suitably trained and qualified people.</p> <p>Smoking is only permitted in designated areas.</p> <p>No hot works will be carried out as part of routine activities on site. Employees are instructed to carry out visual checks of hot exhausts to detect any sign of fire, including dust settling on hot exhausts and engine/machinery parts. This will include checking mobile plant within an hour of the end of each working day.</p> <p>All storage of fuel/diesel will be contained within an integral bund which has a capacity greater than 110% of the tank, therefore reducing the risk of leaks and spillages. Fully stocked spill kits will be situated on site.</p>			
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			<p>Regular cleaning of will be undertaken by site staff to minimise the generation of dust and litter on site.</p> <p>Weekly checks of fire safety equipment will be carried out.</p> <p>In the event of a fire, the drainage system will be sealed off to prevent discharge in the event of an incident. An agreement has been reached with a local tanker to remove wastewater offsite at short notice.</p>			
Spillage of oil, fuel or hydraulic fluid from plant colliding with infrastructure, mechanical failure, leak during refueling or maintenance	Groundwater. Surface waters listed in Table 2.	Surface run-off. Infiltration. Percolation	<p>There is allocated storage for oil and fuel within the permitted area.</p> <p>The site is provided with impermeable surfaces to prevent the transmission of potentially contaminated liquids into groundwater beneath the site.</p> <p>All plant to be maintained in accordance with the manufacturer's guidance. This will minimise the risk of mechanical failure which will minimise the risk of leaks and/or spillages.</p> <p>Benfleet's Management System will require site staff to check plant and site infrastructure daily to ensure continuing integrity and fitness for purpose. In the event that any defects are identified so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable.</p>	Low – the Management actions should prevent accidents and the engineered systems and infrastructure are designed to prevent any discharge of contaminated water run off	Medium - Pollution of local water courses, groundwater and aquifers	Low – The management procedures in place should prevent this occurring
Flooding	Groundwater. Surface water bodies listed in Table 2.	Infiltration. Contaminated surface water runoff.	<p>Liquids, oils and fuel are located securely within the allocated areas on site.</p> <p>In the event of a flood, the drainage system will be sealed off to prevent discharge in the event of an incident.</p>	Low – the management actions should prevent flooding	<p>Medium - Disruption to works on site.</p> <p>Contamination of local groundwater and/or surface water.</p> <p>Contamination of local agricultural land.</p>	Low – due to Management system in place

<p>Vandalism / theft – damage to waste containment and fuel storage infrastructure</p>	<p>Groundwater. Surface water features listed in Table 2. Occupiers of domestic dwellings listed in Table 2 above. Commercial and industrial units' users in listed Table 2 above. Amenities listed in Table 2 above. Non-statutory ecological sites listed in Table 2 above. Protected species listed in Table 2 above. Protected habitats listed in Table 2 above.</p>	<p>Unauthorised entry to the site.</p>	<p>Site security, perimeter fencing, and gates are installed to prevent unauthorised access to the site outside operational hours. A CCTV system, with movement detection, is installed on site to deter and record any unauthorised activity. In addition, the site will benefit from being monitored by a security guard at Benfleet's head office out of hours. Security alarms are also installed on site.</p>	<p>Low – the management actions should prevent unauthorised access and the engineered systems and infrastructure are designed to prevent any discharge of harmful liquids</p>	<p>Medium - Pollution of local water courses, groundwater and aquifers</p>	<p>Low – The management procedures in place should prevent this occurring</p>
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Appendix B – Nature and Heritage Conservation Screen (EPR/HB3704CK/A001)



Nature and Heritage Conservation

Screening Report: SR2010 No 12

Reference	EPR/HB3704CK/A001
NGR	TQ7809590299
Buffer (m)	80
Date report produced	30/08/2019
Number of maps enclosed	2

The nature conservation sites and/or protected species and habitats identified in the table below must be considered in your application.

As you have not met the criteria for a standard rules permit, you will need to contact us for further advice on the type of permit you should apply for. Please submit a request through this link: <https://www.gov.uk/government/publications/environmental-permit-pre-application-advice-form>

Protected Habitats Screening distance (m) Further Information

Deciduous woodland	within 50	Natural England
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Protected Species Screening distance (m) Further Information

Code 2	within 250m	Natural England Appropriate Local Record Centre (LRC)
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Unfortunately we cannot provide you with the details of all protected species. This is because we either have not been given permission by the owner of the species data, or they have asked us not to identify the species as they are vulnerable. In these instances you must contact the relevant organisation listed above. A small administration charge may be incurred for this service.

Where protected species are present, a licence may be required from [Natural England](#) to handle the species or undertake the proposed works.



You are advised to obtain the necessary licences, or agree mitigation with the relevant bodies, for example Natural England or wildlife trusts before submitting your application.

Please note, the enclosed pre-application map(s) is valid for a period of **6 months**. If you plan to submit your application more than 6 months after the map(s) was generated, you must request that the screen is re-run. This will ensure that you have used the most current information on heritage and nature conservation interests in your application.

customer service line
03708 506 506


incident hotline
0800 80 70 60

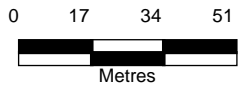
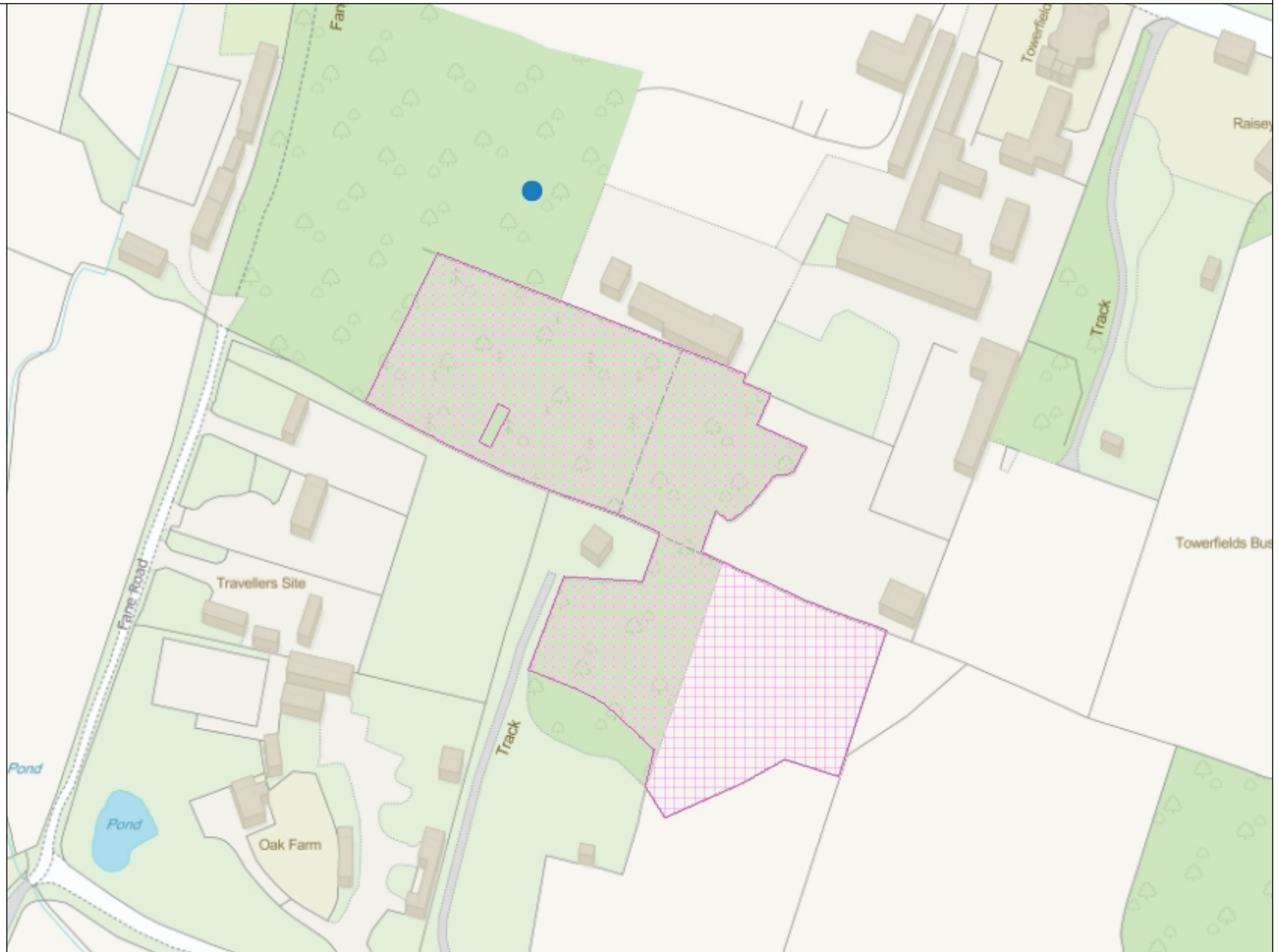
floodline
0845 988 1188

www.environment-agency.gov.uk

Protected Habitats

Legend




-  Protected Habitats screened for En Permits



Protected Species

Legend

Protected species screened for Env Permits - complete set

-  Protected species, non fish
-  Protected fish
-  Protected fish migratory route

