



Environmental Risk Assessment

Depot Name & No.:	Boreham (YBHM)
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Version:	4	Date:	30 th August 2022	Depot Manager:	Donna Robson
Activity:	Boreham - Site Environmental Risk Assessment			SHE Specialist:	Robert Stevenson
Next Review Due:	August 2027	Actual Review Date:		Reviewed By:	Sam Smith / Nick White
Reason for Review:	Periodic review & to send to the Environment Agency for permit variation (include 17 04 10* and 16 01 21* codes.			Manager Sign off:	

Source	Hazard	Receptor	Physical Control Measures in Place	Relevant EPP's	Likelihood	Severity	Risk Level	NEW Control Measures Required (Actions required responsibility and target dates).
1. Acceptance - non permitted waste								
Hazardous gases	Ozone depleting substances	Ozone layer	<ol style="list-style-type: none"> Do not accept ODS fridges on site. Inspect loads and reject as necessary. 	1.1, 1.2, 1.3, 1.4, 1.5, 1.8	2	2	4	
Explosive substances	Release of pressure and noise	Off site persons	<ol style="list-style-type: none"> Do not accept any potentially explosive canisters. Previously pressurised canisters to be accompanied by certificate of depressurising. Inspect loads and reject as necessary. 	1.1, 1.2, 1.3, 1.4, 1.7, 1.8	2	2	4	
Hazardous solids	Radioactive sources	Air, soils, water, off site persons	<ol style="list-style-type: none"> Do not accept loads with radioactive sources contained within them. All loads entering site pass through radiation detection units prior to acceptance. 	1.1, 1.2, 1.3, 1.4, 1.6, 1.8	2	2	4	

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			3. Inspect loads and reject or quarantine as necessary.					
Hazardous liquids	Paints, solvents	Soils and surface waters	1. Containers only accepted if accompanied with certification of cleaning. 2. Inspect loads and reject as necessary	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	
	PCB's	Soils and surface waters	1. Do not accept item if not accompanied by a certificate of cleaning from a valid source. 2. Inspect loads and reject as necessary.	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	
	Oils and fuels	Soils and surface waters	1. Oils and fuels only accepted on site when contained as part of an un-depolluted ELV. 2. Inspect loads and reject as necessary.	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	
2. Acceptance - Permitted Waste								
Un-depolluted ELV's	Explosive release of pressure and noise	Off-site persons	1. All un-depolluted ELV's directed to depollution area immediately after being accepted	1.1, 1.2, 1.3, 1.4,	2	2	4	
	Oils and fuels	Soils and surface water	1. All un-depolluted ELV's directed to depollution area immediately after being accepted	1.1, 1.2, 1.3, 1.4,	2	2	4	
Material for shredding	Risk of non-permitted wastes 'secreted' within loads	Soils and surface water	1. Inspect all loads and reject as necessary 2. Inform supplier as if necessary	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	

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Source	Hazard	Receptor	Physical Control Measures in Place	Relevant EPP's	Likelihood	Severity	Risk Level	NEW Control Measures Required (Actions required responsibility and target dates).
3. Acceptance - Storage Prior to Depollution								
Storage of un-depolluted ELV's containing potentially polluting substances	Risk of pollution to land and water	Soils, surface and ground water	<ol style="list-style-type: none"> End of life vehicles awaiting treatment stored on impermeable surface served by sealed drainage system. Regular inspections of site surfaces (at least monthly). 	2.1, 2.2, 2.9, 2.10, 2.11, 2.12, 3.6	2	1	2	
	Risk of fire	Air	<ol style="list-style-type: none"> Un-depolluted cars stored separate from other scrap. Cars directed immediately to depollution area and processed as soon as possible. Firefighting equipment available on site if required. 	2.1, 3.5, 3.6, 3.8, 3.9	3	2	6	
Pests on site	Risk of nuisance and disease	Local community	<ol style="list-style-type: none"> Site does not receive wastes likely to attract pests. Adjacent site (Biffa) is MRF with waste (food waste) which can attract vermin. Pest control company employed Ongoing daily disposal of waste. Inspection and rejection of loads likely to attract pests. Reporting of pests and reaction by appointing pest control contractor. 	2.11, 4.2	1	1	1	
4. Storage Prior to Shredding								

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Source	Hazard	Receptor	Physical Control Measures in Place	Relevant EPP's	Likelihood	Severity	Risk Level	NEW Control Measures Required (Actions required responsibility and target dates).
Storage of contaminated scrap metal	Risk of pollution to land	Soils and surface water	1. Potentially polluting material stored on impermeable surface served by a sealed drainage system.	2.3, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12, 3.6	2	1	2	
Storage of uncontaminated scrap metal	Risk of pollution to land	Soils and surface water	1. Uncontaminated material, by definition not likely to cause pollution problems.		1	1	1	
Storage of hazardous wastes (e.g. 17 04 10*, 16 01 21*, batteries)	Risk of pollution to land / water	Soils and surface water	1. No treatment of CATs or haz cable on site. 2. Stored undercover to prevent the ingress of rain water. 3. Regular inspections of storage areas. 4. Stored on impermeable surface served by a sealed drainage system.	2.3, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12, 3.6	2	2	4	
Storage of metals	Detriment to visual amenity	Local community	1. Site located within an industrial area with no immediate sensitive receptors. 2. Maximum storage capacities adhered to. 3. Record and investigate complaints received.	2.3, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12, 3.6	2	1	2	
Litter within accepted materials	Detriment to visual amenity	Local community	1. Maintain general waste disposal facilities on site.	2.3, 2.4, 2.5, 2.6, 2.7, 2.9,	2	1	2	

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			<ol style="list-style-type: none"> Inspection of loads entering site for presence of litter. Regular housekeeping. 	2.10, 2.11, 2.12				
Loading, unloading and movement of metal within the site	Risk of dust to local atmosphere	Air	<ol style="list-style-type: none"> Mobile water tank available on site for damping down if necessary. Regular housekeeping. Record and investigate any complaints. 	2.7, 3.4, 4.1	2	2	4	
Storage of potentially flammable material	Risk of fire	Air	<ol style="list-style-type: none"> Loads inspected on arrival, potential fire risks removed or rejected from site. Scrap stored in stacks with adequate fire breaks between. Stacks kept to minimum heights as directed by license and planning conditions. 	2.2, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12, 3.5, 3.8, 3.9, 3.10	2	2	4	
5. Processes on site - Shearing								
Shearing Material	Risk of pollution from oil	Land and surface water	<ol style="list-style-type: none"> Absorbent materials are available to clean up spillages if necessary. Fixed plant is set on impermeable surface served by a sealed drainage system. Site surface condition inspected formally at least monthly. 	5.2	2	2	4	

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			<ol style="list-style-type: none"> Equipment inspected daily and maintained regularly. Drainage system fitted with interceptor – Flow from the interceptor is controlled manually therefore in the event of potential pollution flow can be stopped and surface water can be retained. 					
	Risk of noise	Local community	<ol style="list-style-type: none"> Where possible, machinery is situated away from sensitive receptors. Site located in industrial area. Machinery is maintained regularly. Materials are handled by trained operatives. All complaints received are logged and investigated. 	4.3	2	2	4	
Water (rain water runoff)	Risk of pollution from contaminated water	Soils and surface waters	<ol style="list-style-type: none"> Potentially polluting material stored on impermeable surface served by a sealed drainage system. Surface water run off falls to drains and then drains to full retention interceptor. 	3.1, 3.7	2	4	8	
Processing of metal	Risk of vapour and particulates to local atmosphere	Air	<ol style="list-style-type: none"> Mobile water tank available on site for damping down if necessary. Regular housekeeping. Record and investigate any complaints. 	2.7, 3.4, 4.1	2	3	6	
6. Processes on site - ELV Depollution								

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Source	Hazard	Receptor	Physical Control Measures in Place	Relevant EPP's	Likelihood	Severity	Risk Level	NEW Control Measures Required (Actions required responsibility and target dates).
Treatment of ELV's	Risk of pollution to land	Soils and surface water	<ol style="list-style-type: none"> All liquids removed from vehicles transferred to tanks using purpose built depollution equipment. All operations undertaken on impermeable surface served by a sealed drainage system. 	2.2, 2.7, 3.1, 3.6, 3.7	2	1	2	
	Risk of dust to local atmosphere	Air	<ol style="list-style-type: none"> No dust generated from storage and processing of ELV's. 		1	1	1	
Battery storage	Risk of acid to land	Soils and surface water	<ol style="list-style-type: none"> Batteries removed from ELV's segregated and stored upright in containers and kept under cover to prevent the ingress of rain water. Regular inspections of storage containers and storage areas to ensure containment. 	2.3, 3.1, 3.7	2	2	4	
Liquid waste storage	Risk of pollution to land	Soils and surface water	<ol style="list-style-type: none"> All liquids drained to tanks that are fit for purpose and bunded to at least 110% of the tank volume. Absorbent materials available for any spillages. Regular checks for fluid levels within tanks. Daily inspections of depollution equipment, pipework, tanks and bunding. 	2.2, 2.7, 3.1, 3.6	2	2	4	

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Liquid waste disposal	Risk of pollution to land	Soils and surface water	1. All hazardous liquids removed from site by an authorized contractor under hazardous waste consignment notes.	3.1, 4.3	1	2	2	
Airbag deployment	Risk of increased noise	Energy transmission/air	1. Site located in industrial area with no immediate sensitive receptor.	3.1, 3.3	2	2	4	
7. Storage and Disposal of Waste								
Waste disposal and transport	Dust and particulates	Atmosphere	1. Vehicles sheeted before departure from site to prevent the escape of waste during transit 2. Purchasing restrictions on non-recyclable materials	2.8, 3.4, 4.2	2	2	4	
8. Equipment								
Shear, baler	Oil tank	Soils and surface waters	1. Oil tanks are sealed and integrally banded as part of equipment 2. Daily equipment checks in place 3. Periodic inspection and maintenance programme of site equipment in place 4. Surface water drains via an interceptor to surface water brook 5. Sampling of discharge on an annual basis. 6. Formal inspection of drainage system and interceptor as part of EH&S checks on quarterly basis.	2.2, 3.1, 5.2, 6.4	1	2	2	

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Mobile Plant	Hydraulic oil, fuel tank	Soils and surface waters	<ol style="list-style-type: none"> Daily equipment checks in place Periodic inspection and maintenance programme of site equipment in place Surface water drains via an interceptor to surface water brook. Sampling of discharge annually. Formal inspection of drainage system and interceptor as part of EH&S checks on quarterly basis. 	2.2, 3.1, 5.2	1	2	2	

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Key

Likelihood (with existing controls)	Index	Severity	Index
Highly unlikely to occur	1	The hazard can result in no detrimental impact on the environment.	1
Unlikely to occur	2	The hazard can result in minor impact on the environment (e.g. nuisance impact requiring small clean up)	2
May occur in time	3	The hazard can result in significant impact on the environment (e.g. potentially harmful requiring clean up operation)	3
Highly Likely to occur in the near future	4	The hazard can result in major impact on the environment (e.g. potentially fatal to organisms requiring major clean up operation)	4
Will occur	5	The hazard can result in catastrophic impacts on the environment (e.g. death of majority of living organisms in surrounding area)	5

Risk Rating	Risk Level	Risk Level (Likelihood x Severity) - Action & Timescale
1-4	TRIVIAL	No further action is required.
5-14	TOLERABLE	Further controls may not be required. Consideration may be given to a more cost effective solution or improvement that imposes no additional cost burden. Monitoring is required to ensure that existing controls are maintained.
15+	SUBSTANTIAL	Work must not be authorised until the risk is reduced to at least a moderate level.

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