

European Metal Recycling Limited Environmental Risk Assessment	Site:	EMR Boreham		Depot Manager:	
	Ref No.			Daryl Brydon	
	Date:	03-Aug-2021		Author (Print & Sign)	Validated By (Print & Sign)
	Version:	3		Nick White	Ray Parott

Activity	Acceptance – non permitted wastes
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EP's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
Hazardous gases	Ozone depleting substances	Ozone layer	1. Site does not accept ODS fridges on site Inspect loads and reject as necessary (Except nominated fridge plant s or approved sites)	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	1. Site does not accept any potentially explosive canisters 2. Previously pressurised canisters to be accompanied by certificate of depressurising. 3. 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	1. Site does not accept loads with radioactive sources contained within them 2. All loads entering site pass through radiation detection units (Radcom) prior to acceptance 3. Inspect loads and reject or quarantine as necessary.	1.1, 1.2, 1.3, 1.4, 1.6, 1.8	2	2	4	

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Hazardous liquids	Paints, solvents	Soils and surface waters	<ol style="list-style-type: none"> Containers only accepted if accompanied with certification of cleaning 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	<ol style="list-style-type: none"> Do not accept item if not accompanied by a certificate of cleaning from a valid source 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	<ol style="list-style-type: none"> Oils and fuels only accepted on site when contained as part of an undepolluted ELV Inspect loads and reject as necessary 	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	

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Activity	Acceptance – permitted wastes
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant Ep's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
Undepolluted ELV's	Explosive release of pressure and noise	Off site persons	1. All undepolluted 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 undepolluted 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. All loads inspected and rejected as required 2. Supplier and commercial rep. contacted as required.	1.1, 1.2, 1.3, 1.4, 1.8	2	2	4	

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Activity	Storage prior to depollution
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EP's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
Storage of undepolluted 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"> Undepolluted cars stored separate from other scrap. Cars directed immediately to depollution area and processed as soon as possible Fire fighting 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 	2.11, 4.2	2	2	4	

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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant Ep's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
			pest control contractor					
Activity	Storage							

SOURCE	HAZARD	RECEPTOR	CONTROL MEASURES IN PLACE	Relevant Ep's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
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	Risk of pollution to land	Soils and surface water	Uncontaminated material, by definition not likely to cause pollution problems		1	1	1	

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metal								
Storage of metals	Detriment to visual amenity	Local community	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Maintain general waste disposal facilities on site. 2. Inspection of loads entering site for presence of litter. 3. Regular housekeeping 	2.3, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12	2	1	2	
Loading, unloading and movement of metal within the site	Risk of dust to local atmosphere	Air	<ol style="list-style-type: none"> 1. Mobile water tank available on site for damping down if necessary 2. Regular housekeeping 3. 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"> 1. Loads inspected on arrival, potential fire risks removed or rejected from site. 2. Scrap stored in stacks with adequate fire breaks between. 3. Stacks kept to minimum heights as directed by licence 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	

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Activity	Processes on site (shear)
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EPPs	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
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 from baler / ELV	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	

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Activity	Processes on site – ELV depollution
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EP's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date)
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	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	

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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	
Liquid waste disposal	Risk of pollution to land	Soils and surface water	<ol style="list-style-type: none"> All hazardous liquids removed from site by an authorised contractor under hazardous waste consignment notes. 	3.1, 4.3	1	2	2	
Airbag deployment	Risk of increased noise	Energy transmission/air	<ol style="list-style-type: none"> Site located in industrial area with no immediate sensitive receptor 	3.1, 3.3	2	2	4	

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Activity	Storage and disposal of waste
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EP's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date)
Dust and light fractions (shredding)	Risk of dust to local atmosphere	Air	N/a	2.8, 2.9, 3.4	1	3	2	
	Risk of fire/smoke	Air		2.8, 3.5, 3.8, 3.9	1	3	2	

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Waste / dirt disposal and transport	Dust and particulates	Atmosphere	<ol style="list-style-type: none"> Vehicles sheeted before departure from site to prevent the escape of waste during transit Purchasing restrictions on non-recyclable materials 	2.8, 3.4, 4.2	2	2	4	

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Activity	Equipment
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SOURCE	HAZARD	RECEPTOR	PHYSICAL CONTROL MEASURES IN PLACE	Relevant EP's	Likelihood	Severity	Risk Level	NEW CONTROL MEASURES REQUIRED (Record action, Responsibility and Target Date).
Shear, baler	Oil tank	Soils and surface waters	<ol style="list-style-type: none"> 1. Oil tanks are sealed and integrally bunded 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 monthly basis 	2.2, 3.1, 5.2, 6.4	1	2	2	
Mobile Plant	Hydraulic oil, fuel tank	Soils and surface waters	<ol style="list-style-type: none"> 7. Daily equipment checks in place 8. Periodic inspection and maintenance programme of site equipment in place 9. Surface water drains via an interceptor to surface water brook 10. Sampling of discharge annually 1. Formal inspection of drainage system and 	2.2, 3.1, 5.2	1	2	2	

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			interceptor as part of EH&S checks on monthly basis						
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Index	Likelihood (with existing controls)	Index	Severity
1	Highly unlikely to occur	1	The hazard can result in no detrimental impact on the environment.
2	Unlikely to occur	2	The hazard can result in minor impact on the environment (e.g. nuisance impact requiring small clean up)
3	May occur in time	3	The hazard can result in significant impact on the environment (e.g. potentially harmful requiring clean up operation)
4	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)
5	Will occur	5	The hazard can result in catastrophic impacts on the environment (e.g. death of majority of living organisms in surrounding area)

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.