

Environmental and Climate Change Risk Assessment
 Celsa Manufacturing (UK) Ltd, Rotherham Steel Terminal,
 The Ickles, Sheffield Road, Rotherham, S60 1BN

Environmental and Climate Change Risk Assessment

Facility:

Location:

Operational Area:

Location of environmentally sensitive sites

Risk assessment carried out by:

Date:

Basis of Assessment

This assessment has considered the following sources of information:

SR2009 No 7: storage of furnace ready scrap metal for recovery and associated generic risk assessment.
<https://www.gov.uk/government/publications/sr2009-no7-storage-of-furnace-ready-scrap-metal-for-recovery>

Guidance Metals recycling: examples for your adapting to climate change risk assessment, Updated 17 May 2023
<https://www.gov.uk/government/publications/adapting-to-climate-change-industry-sector-examples-for-your-risk-assessment/metals-recycling-examples-for-your-adapting-to-climate-change-risk-assessment>

Activity	Source	Pathway	Receptor	Harm	Initial Likelihood	Initial Consequence	Initial Risk	Justification for Risk	Mitigation and Management	Residual Likelihood	Residual Consequence	Residual Risk
Storage of furnace ready scrap	Releases of particulate matter (dusts).	Air transport then inhalation.	Local human population	Harm to human health - respiratory irritation and illness.	Medium	Medium	Medium	Permitted waste types do not include dusts, powders or loose fibres so only a medium magnitude risk is estimated. The permitted level of throughput and potential size of the facility means there is potential for exposure if anyone is living or working close to the site (apart from the operator and employees).	Industry standard work practices and transfer equipment e.g. drop height reduction, wind sheltering, moisture retention and surface treatment e.g. wet suppression will be employed. Good housekeeping driven by regular site inspections. Road sweeper employed (as required). Daily visual inspections of all areas of the site will be carried out by site personnel. In the event that significant visual dust is observed at the permit boundary of the site, action will be taken to either stop the activity and/or suppress the dust.	Low	Medium	Low
Storage of furnace ready scrap	Releases of particulate matter (dusts).	Air transport then deposition	Local human population	Nuisance - dust on cars, clothing etc.	Medium	Low	Low	Local residents often sensitive to dust.	Industry standard work practices and transfer equipment e.g. drop height reduction, wind sheltering, moisture retention and surface treatment e.g. wet suppression will be employed. Good housekeeping driven by regular site inspections. Road sweeper employed (as required). Daily visual inspections of all areas of the site will be carried out by site personnel. In the event that significant visual dust is observed at the permit boundary of the site, action will be taken to either stop the activity and/or suppress the dust.	Low	Low	Low
Storage of furnace ready scrap	Litter	Air transport then deposition	Local human population, livestock and wildlife.	Nuisance, loss of amenity and harm to animal health	Medium	Medium	Medium	Local residents often sensitive to litter.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any wind blown litter derived from site activities.	Low	Medium	Low
Storage of furnace ready scrap	Waste, litter and mud on local roads	Vehicles entering and leaving site.	Local human population	Nuisance, loss of amenity, road traffic accidents.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify issues. Road sweeper employed as required.	Low	Medium	Low
Storage of furnace ready scrap	Odour	Air transport then inhalation.	Local human population	Nuisance, loss of amenity	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have low odour potential.	Good housekeeping combined with strict waste acceptance procedures would be used to identify putrescible waste within the incoming waste streams (considered unlikely). Where non-compliant material is identified it would be separated and contained.	Very Low	Low	Very Low

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Environmental and Climate Change Risk Assessment

Facility: Celsa Scrap Metal Storage Site - Storage of furnace ready scrap metal for recovery (no waste processing)

Location: Celsa Manufacturing (UK) Ltd, Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN

Operational Area: Waste Storage Area

Location of environmentally sensitive sites There are no statutory protected sites or sensitive habitats within 500 metres of the waste storage area. The closest site is 600 metres north i.e. Centenary Riverside Local Nature Reserve (LNR).

Risk assessment carried out by: Earth & Marine Environmental Consultants Ltd

Date: February 2024 (REV00)

Basis of Assessment

This assessment has considered the following sources of information:

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Storage of furnace ready scrap	Noise and vibration	Noise through the air and vibration through the ground.	Local human population	Nuisance, loss of amenity, loss of sleep.	Medium	Medium	Medium	Local residents often sensitive to noise and vibration. Large scale operations, particularly those associated with ship loading, have an increased potential for producing noise and vibration.	Where applicable, wheeled plant is to be used to reduce ground vibration. Periods of unloading noise and vibration will be for short duration. Boundary noise monitoring has been undertaken. Operating hours will be restricted (in-line with planning). Formal noise and vibration management processes established and will be maintained.	Low	Medium	Low
Storage of furnace ready scrap	Scavenging animals and scavenging birds	Air transport and over land	Local human population	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Low	Medium	Low	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any waste types that may attract birds/scavenging animals to the site.	Low	Medium	Low
Storage of furnace ready scrap	Pests (e.g. flies)	Air transport and over land	Local human population	Harm to human health, nuisance, loss of amenity	Low	Medium	Low	Permitted wastes unlikely to attract pests.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any waste types that may attract pests to the site.	Very Low	Medium	Very Low
Storage of furnace ready scrap	Flooding of site	Flood waters	Local human population and local environment	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Low	Medium	Low	Permitted waste types unlikely to be washed off site and if they are they will add to the volume of the local post-flood clean up workload, rather than the hazard.	Planned preventative management of the on-site foul (trade effluent) drainage systems. Hazardous substances are stored within secondary containment and sealed drainage areas to reduce the risk.	Very Low	Medium	Very Low
Storage of furnace ready scrap	All on-site hazards: wastes; machinery and vehicles.	Direct physical contact	Local human population and / or livestock after gaining unauthorised access to the waste operation	Bodily injury	Medium	Medium	Medium	Site security measures at these facilities are normally good to prevent theft. All permitted waste types are non hazardous, so only a medium magnitude risk is estimated.	All activities shall be managed and operated in accordance with the stated management system (this includes site security measures to prevent unauthorised access).	Low	Medium	Low
Storage of furnace ready scrap	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Local human population and local environment.	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land.	Medium	Medium	Medium	All permitted waste types are non-hazardous and most are non flammable, so only a medium magnitude risk is estimated	All activities shall be managed and operated in accordance with the stated management system (this includes site security measures to prevent unauthorised access). Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials. All materials stored in accordance with the EPP.	Very Low	Medium	Very Low

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Activity	Source	Pathway	Receptor	Harm	Initial Likelihood	Initial Consequence	Initial Risk	Justification for Risk	Mitigation and Management	Residual Likelihood	Residual Consequence	Residual Risk
Storage of furnace ready scrap	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Local human population and local environment	Respiratory irritation, illness and nuisance to local population. Injury to staff or fire fighters. Pollution of water or land.	Low	Medium	Low	Risk of accidental combustion of waste is low.	All activities shall be managed and operated in accordance with the stated management system. A Site-specific Fire Prevention Plan (FPP) has been established and will be maintained. Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials. All materials stored in accordance with the stated FPP.	Low	Medium	Low
Storage of furnace ready scrap	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Direct run-off from site across ground surface, via surface water drains, ditches etc.	All surface waters close to and downstream of site.	Acute effects: oxygen depletion, fish kill and algal blooms	Medium	Low	Low	Apart from liquid residues, all permitted waste types are solids so only a low magnitude risk is estimated. No point source emissions to water are permitted, but there is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	All potentially hazardous liquids (e.g. fuels, cleaning chemicals etc.) shall be provided within secondary containment. Where equipment is installed (handling of waste) this shall be located on an engineered impermeable surface. There is no direct discharge to surface water from the installation (no viable pathway).	Very Low	Low	Very Low
Storage of furnace ready scrap	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Direct run-off from site across ground surface, via surface water drains, ditches etc. Indirect run-off via the soil layer	All surface waters close to and downstream of site.	Chronic effects: deterioration of water quality	Low	Low	Low	Apart from liquid residues, all permitted waste types are solids so only a low magnitude risk is estimated. No point source emissions to water are permitted, but there is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	All potentially hazardous liquids (e.g. fuels, cleaning chemicals etc.) shall be provided within secondary containment. Where equipment is installed (handling of waste) this shall be located on an engineered impermeable surface. There is no direct discharge to surface water from the installation (no viable pathway).	Very Low	Low	Very Low

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Facility: Celsa Scrap Metal Storage Site - Storage of furnace ready scrap metal for recovery (no waste processing)

Location: Celsa Manufacturing (UK) Ltd, Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN

Operational Area: Waste Storage Area

Location of environmentally sensitive sites There are no statutory protected sites or sensitive habitats within 500 metres of the waste storage area. The closest site is 600 metres north i.e. Centenary Riverside Local Nature Reserve (LNR).

Risk assessment carried out by: Earth & Marine Environmental Consultants Ltd

Date: February 2024 (REV00)

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Storage of furnace ready scrap	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Abstraction from watercourse downstream of facility (for agricultural or potable use).	Acute effects, closure of abstraction intakes.	Low	Low	Low	Apart from liquid residues, all permitted waste types are solids so only a low magnitude risk is estimated. No point source emissions to water are permitted, but there is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain. Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off.	All potentially hazardous liquids (e.g. fuels, cleaning chemicals etc.) shall be provided within secondary containment. Where equipment is installed (handling of waste) this shall be located on an engineered impermeable surface. There is no direct discharge to surface water from the installation (no viable pathway).	Very Low	Low	Very Low
Storage of furnace ready scrap	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Transport through soil/groundwater then extraction at borehole.	Groundwater	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Medium	Medium	Medium	There is a potential for contaminated rainwater run-off or leakage from permitted waste types.	All potentially hazardous liquids (e.g. fuels, cleaning chemicals etc.) shall be provided within secondary containment. Where equipment is installed (handling of waste) this shall be located on an engineered impermeable surface. There is no direct discharge to groundwater from the installation (no viable pathway).	Low	Medium	Low
Storage of furnace ready scrap	Contaminated waters used for recreational purposes	Direct contact or ingestion	Local human population	Harm to human health - skin damage or gastro-intestinal illness.	Low	Medium	Low	Unlikely to occur, but might restrict recreational use.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low
Storage of furnace ready scrap	Any	Any	Protected sites - European sites and SSSIs	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Low	Medium	Low	Waste operations may cause harm to and deterioration of nature conservation sites.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low
Storage of furnace ready scrap	Summer daily maximum temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Any	Permitted on-site activities.	Potential for increased waste reactions and fires involving heat sensitive or combustible waste oil contaminated swarf frag light fractions oily rags.	Low	Medium	Low	The site does not store significant volumes of combustible waste materials (i.e. it is mostly large fragments of furnace ready scrap).	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low

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Storage of furnace ready scrap	Summer daily maximum temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Any	Permitted on-site activities.	Dry vegetation in and around hot cutting areas, leading to increased fire risk.	Low	Medium	Low	There are no areas of vegetation on the site. The site to the west operates as a golf course. Off-site emissions could impact on-site operations (e.g. air quality).	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low
Storage of furnace ready scrap	Summer daily maximum temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Any	Permitted on-site activities.	Potential increase in high temperature expansion and stress of plant, pipework and fittings.	Low	Medium	Low	Limited on-site equipment, mostly mobile plant.	All activities shall be managed and operated in accordance with the stated management system. There is regular inspection and preventative maintenance of the site, plant and equipment.	Very Low	Medium	Very Low
Storage of furnace ready scrap	Summer daily maximum temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Any	Permitted on-site activities.	Potential increased dust emissions from processing areas and site roads.	Medium	Medium	Medium	Permitted waste types do not include dusts, powders or loose fibres so only a medium magnitude risk is estimated. The permitted level of throughput and potential size of the facility means there is potential for exposure if anyone is living or working close to the site (apart from the operator and employees).	Industry standard work practices and transfer equipment e.g. drop height reduction, wind sheltering, moisture retention and surface treatment e.g. wet suppression will be employed. Good housekeeping driven by regular site inspections. Road sweeper employed (as required). Daily visual inspections of all areas of the site will be carried out by site personnel. In the event that significant visual dust is observed at the permit boundary of the site, action will be taken to either stop the activity and/or suppress the dust.	Low	Medium	Low
Storage of furnace ready scrap	Summer daily maximum temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Any	Permitted on-site activities.	Stockpiled metal food and drink containers attracting pests and odours.	Very Low	Medium	Very Low	No stockpiled metal food and drink containers.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low

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Activity	Source	Pathway	Receptor	Harm	Initial Likelihood	Initial Consequence	Initial Risk	Justification for Risk	Mitigation and Management	Residual Likelihood	Residual Consequence	Residual Risk
Storage of furnace ready scrap	Winter daily temperatures This could be 4°C more than the current average with the potential for more extreme temperatures, both warmer and colder than present.	Any	Permitted on-site activities.	Increased risk of pipework freezing.	Low	Low	Low	There is a water supply on-site for potable use and local dust suppression.	All activities shall be managed and operated in accordance with the stated management system. Exposed pipework shall be appropriately lagged.	Very Low	Low	Very Low
Storage of furnace ready scrap	Daily extreme rainfall Daily rainfall intensity could increase by up to 20% on today's values	Any	Permitted on-site activities.	Potential for increased site surface water and flooding resulting in drainage systems and interceptors being overwhelmed.	Medium	Medium	Medium	The site is a large impermeable area that drains to sewer.	Suitable measures are in place for the management of anticipated surface water. Drainage systems are to be inspected and maintained. All external areas where wastes are handled or stored are provided with a fully contained drainage system (with treatment) suitable for the storage area (refer to the J&N Drainage Strategy)	Low	Medium	Low
Storage of furnace ready scrap	Average winter rainfall Average winter rainfall may increase by over 40% on today's averages.	Any	Permitted on-site activities.	Potential for increased site surface water and flooding.	Medium	Medium	Medium	The site is a large impermeable area that drains to sewer.	Suitable measures are in place for the management of anticipated surface water. Drainage systems are to be inspected and maintained. All external areas where wastes are handled or stored are provided with a fully contained drainage system (with treatment) suitable for the storage area (refer to the J&N Drainage Strategy)	Low	Medium	Low
Storage of furnace ready scrap	Average winter rainfall Average winter rainfall may increase by over 40% on today's averages.	Any	Permitted on-site activities.	Potential for drainage systems and interceptors to be overwhelmed.	Medium	Medium	Medium	The site is a large impermeable area that drains to sewer.	Suitable measures are in place for the management of anticipated surface water. Drainage systems are to be inspected and maintained. All external areas where wastes are handled or stored are provided with a fully contained drainage system (with treatment) suitable for the storage area (refer to the J&N Drainage Strategy)	Low	Medium	Low

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Storage of furnace ready scrap	Sea level rise Sea level rise which could be as much as 0.6m higher compared to today's level.	Any	Permitted on-site activities.	If a site is located near the coast there is potential increased risk of flooding.	Very Low	Medium	Very Low	There is no risk based on a 0.6 m sea level rise.	This should include: identification and risk assessment of process equipment and services at greatest risk from flooding provision of emergency pumps to remove floodwater and identification of lowest risk location for discharge of floodwaters protection of control and electrical systems identification and protection of flat bottom tanks at risk of floating in floodwater	Very Low	Medium	Very Low
Storage of furnace ready scrap	Drier summers Summers could see potentially up to 40% less rain than now.	Any	Permitted on-site activities.	Potential increased use and reliance on mains water for dust suppression, cleaning and fire water.	Medium	Medium	Medium	Mains water supply would be used for dust suppression purposes (where required).	All activities shall be managed and operated in accordance with the stated management system. Measures shall be in place to minimise water use during dry periods (but still allowing for dust suppression to occur). Mains water supply is adequate at the site.	Low	Medium	Low
Storage of furnace ready scrap	Drier summers Summers could see potentially up to 40% less rain than now.	Any	Permitted on-site activities.	Potential increase in dust emissions from a site.	Medium	Medium	Medium	Mains water supply would be used for dust suppression purposes (where required).	All activities shall be managed and operated in accordance with the stated management system. Mitigation for this would include regular site cleaning and use of dust suppression systems.	Low	Medium	Low
Storage of furnace ready scrap	River flow The flow in the watercourses could be 50% more than now at its peak, and 80% less than now at its lowest.	Any	Permitted on-site activities.	There is potential increased impact of discharge to watercourse from on-site drainage systems where connected to water courses.	Low	Medium	Low	The Environment Agency 'Flood map for planning' for site confirms that it is not located within a flood zone. Discharges are made into the public sewer. There are no direct discharges to surface water.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low
Storage of furnace ready scrap	River flow The flow in the watercourses could be 50% more than now at its peak, and 80% less than now at its lowest.	Any	Permitted on-site activities.	Increased risk of watercourse flows being too high to allow discharge and drainage backing up on site.	Low	Medium	Low	Discharges are made into the public sewer. There are no direct discharges to surface water.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low

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Storage of furnace ready scrap	Storms Storms could see a change in frequency and intensity. The unique combination of increased wind speeds, increased rainfall, and lightning during these events provides the potential for more extreme storm impacts.	Any	Permitted on-site activities.	Storms and high winds could damage building structures with increased potential for fugitive emissions.	Low	Medium	Low	There are no structures on-site apart from a small administration block.	All activities shall be managed and operated in accordance with the stated management system.	Very Low	Medium	Very Low