



Risk Assessment – Potential Risk To Sensitive Habitats

Risk Assessment for Ace Liftaway – Potential Risk To Sensitive Habitats

HAZARD	SIGNIFICANT OUTCOME	WHO MIGHT BE HARMED	RISK*			RISK CONTROL MEASURES	RESIDUAL RISK**		
			L	S	DR		L	S	DR
Releases of particulate matter (dusts) and micro-organisms (bioaerosols) During movement and handling, storage of waste	Air transport then inhalation	Local Human Population /	5	2	10	Permitted waste types are inert and include dusts, powders, or loose fibres and have a medium potential to produce bioaerosols so only a medium magnitude risk is estimated. Site rules put in place on site to control traffic movements to control dust levels Dust suppression system in place and to be used at all times Speed limit in place for plant and vehicles on site First Aid provisions in place and trained first aiders on site at all times Wind sock installed to visualise current wind conditions and recorded in site diary No loading of materials during adverse windy days Trained and competent operator only at all times Full correct PPE issued and worn at all times Trained first aiders and first aid provisions on site at all times Trained fire marshals on site at all times Wind protectors installed on conveyors belts Waste rotation 4m high materials bays to contain materials Driver to sheet the load before leaving the wash plant	3	2	6
Airbourne dust particles from the transport of waste materials	Air transport then inhalation/wildlife	Local human population	5	2	10	Dust generation from attributable to vehicle and plant movements will be controlled by the maintenance and sweeping of the site access roads. Daily visuals will be conducted by the wash plant controller and act accordingly. First Aid provisions in place and trained first aiders on site at all times. Road sweeper and water spreader and recorded in site diary. Dust suppression systems fitted to static plants. Water spreader attachment deployed daily. Weather watching conducted daily from the weighbridge to get ahead of dry conditions. Licenced waste only handled onsite to control dusts	3	2	6

Litter	Nuisance, loss of amenity and harm to animal health	Local human population, livestock, and wildlife	5	2	10	Appropriate measures include clearing litter arising from the activities from affected areas around the site Local residents often sensitive to litter, however permitted waste types have low litter potential Litter picks conducted daily and recorded in the diary Correct PPE issued and worn at all times First Aid provisions in place and trained first aiders on site at all times Site monitored daily by management for any operational disturbances Impermeable concrete upstands in place around the wash plant Waste acceptance criteria procedures in place and followed at all times	3	2	6
Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Local human population	3	5	15	Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site Road sweeper deployed daily to clean site thoroughly Equipment stored on site along with signage for cleaning tasks PPE provided to all staff members to undertake the task First Aid provisions in place and trained first aiders on site at all times Running surface to be kept clean Main processing facility is fully concreted Gullies on site and good drainage systems on site Daily checks completed and recorded in site diary	1	5	5
Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Local human population	3	3	9	Noise monitoring in place on a day-to-day basis Main operations conducted at reasonable hours to avoid disturbance with local residence No operations conducted during night hours Bespoke machines designed for the operations – white noise Regular inspections/maintenance when shut down of the plant and machines First Aid provisions in place and trained first aiders on site at all times Fire marshals on site at all times Full correct ppe issued and worn at all times Clear signage in place Plant manufactured to UK noise limitations Regular maintenance carried out and recorded Trained and competent staff to undertake the task White noise vibrations	1	3	3

Vandalism	Groundwater Local human population in residential dwellings and commercial and industrial properties and woodlands	Local human population and / or livestock after gaining unauthorised access to the waste operation	4	4	10	The wider site is gated with CCTV and is surrounded by fencing. Access to the waste area will be restricted to trained depot staff. Any identified damage to the gate and the perimeter fence that could compromise the site security will be recorded and reported. A temporary repair will be made as necessary before the end of the working day. Permanent repair or replacement will be undertaken as soon as practicable. Procedures are in place which require all visitors to the site to sign in on arrival and sign out on departure	2	5	10
Odours	Air transport	Local human Population, employees and contractors	3	2	6	Daily site inspections carried out and recorded in wash plant site diary Equipment stored on site along with signage for cleaning tasks PPE provided to all staff members to undertake the task First Aid provisions in place and trained first aiders on site at all times Waste acceptance criteria procedures in place and followed at all times Waste rotation in place to prevent stagnant waste Chemicals hand selected to be most environmentally friendly Regular water testing every 15 mins to prevent odours and recorded accordingly In event of odours or stagnant water, plant stopped and water tankered to specialist disposal site PH testing conducted along with visual inspections on water tanks and ponds	1	3	3
All on-site hazards: machinery and vehicles	Bodily injury Environmental	Local human population and / or livestock after gaining unauthorised access to the waste operation	4	4	20	First Aid provisions in place and trained first aiders on site at all times Fire marshals on site at all times Spill kits and spillage procedures on site and recorded at all times Gully shutdown system to prevent further contamination Trained and competent staff to undertake the task Daily checks and defecting procedures in place at all times Trained and competent workshop engineers on site at all times Auto cut off installed on plant machines Machines are now tier 5 low emissions White noise systems installed Flashing beacons installed PPE provided to all staff members to undertake the task All plant machines are equipped with fire extinguishers	2	5	10

Arson and / or vandalism	Respiratory irritation, illness, and nuisance to local population. Injury to staff, fire fighters or arsonists/vandalists. Pollution of water or land	Local human population and local environment	4	4	16	All machinery locked at breaks and out of hours All machinery parked 5m away from each other to reduce the fire risk Site locked and secured at the end of each working day with designated key holders CCTV installed, monitored with alerts out of hours Warning signage around site – no unauthorised access Signage installed with contact details in case of emergency Fire management systems on site Disaster plan in place FPP – Fire Prevention Plan – in place	2	4	8
Pests	Harm to human health - from waste carried off site. Nuisance and loss of amenity	Local human population and local environment	3	3	9	Daily site inspections carried out and recorded in wash plant site diary Regular pest control operations carried out by an external company and recorded Correct PPE issued and worn at all times First Aid provisions in place and trained first aiders on site at all times Good housekeeping procedures in place and followed at all times (such as food bins being emptied daily to avoid enticing of pests) Daily litter pick procedures carried out Pest control visits conducted regularly on a monthly basis	1	3	3
Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats	Local human population and local environment	4	4	16	Permitted waste types are inert so any waste washed off site will add to the volume of the local post-flood clean-up workload, rather than the hazard Bunds and drainage put into site while works are undertaken Spill kits provided for wash plant operations and clearly signed Operations not to be undertaken in bad weather Flood contained by impermeable upstands and sluice gates All plant and pipework regularly inspected, maintained, and recorded Correct PPE issued and worn at all times First Aid provisions in place and trained first aiders on site at all times Two-way radios provided for communications Three stage interceptor/silt traps in place to clean up contaminants Drains and interceptors inspected and cleared out when needed.	2	4	8

Ground contamination	Harm to human health/Animal - from waste carried off site Nuisance and loss of amenity	Local human population and local environment				<p>All inert material tested and certificated regularly.</p> <p>Pre plan of works before start to ensure only non-hazardous waste is accepted on site.</p> <p>Litter picks conducted every day.</p> <p>Road sweeper operations conducted every day.</p> <p>Quality control procedures in place.</p> <p>Drainage systems, interceptor and sluice gates in place and regularly maintained.</p> <p>Regular on-site water testing carried out and recorded.</p> <p>Correct PPE issued and worn at all times.</p> <p>First Aid provisions in place and trained first aiders on site at all times.</p> <p>Plant machines inspected daily to use for leaks/ defects and recorded accordingly.</p> <p>Two-way radios provided for communications.</p> <p>spillage procedures in place in permit. All spillages logged</p> <p>all waste handling activities conducted on concrete with drainage linked to an interceptor and silt traps.</p> <p>onsite mechanics and defecting procedures.</p>				
Oil, fuel, acid spillage, and Chemical spillages (flocculant and coagulant etc.)	Skin disorders acute and chronic through absorption, eye damage, flammable materials	Employees, contractors and the Environment	3	5	15	<p>Correct PPE issued and worn at all times</p> <p>Only trained and competent people to undertake the task</p> <p>No smoking, naked flame sources of ignition, spill kit available</p> <p>Fire extinguisher stored on site</p> <p>Suitable adequate container to transfer oil or fuel with suitable disposal point</p> <p>First Aid provisions in place and trained first aiders on site at all times</p> <p>Site rules and regulations to be followed at all times</p> <p>Wash plant contained by impermeable upstands and sluice gates</p> <p>Spill kits with signage on site</p> <p>Spillages reported to operations manager and recorded in diary and spillages log book</p> <p>First Aid provisions in place and trained first aiders on site at all times</p> <p>Plant machines inspected daily to use for leaks/ defects and recorded accordingly</p> <p>Two-way radios provided for communications</p> <p>All areas containing chemicals COSHH asset along.</p>	1	5	5	

Surrounding streams, lakes, and rivers	Nuisance, loss of amenity and harm to animal health	Local human population, livestock, and wildlife	5	2	10	Signage in place to highlight protected areas and no unauthorised access Inert material tested and certificated so no risk of contamination no operations undertaken outside of the permitted area all ground water from operations is run through an interceptor and silt traps and deemed clean. regular checks undertaken on site with reporting procedures. permitted materials only received on site. Two-way radios provided for communications. Only trained and competent employees to undertake the task. First Aid provisions in place and trained first aiders on site at all times. Site rules and regulations to be followed at all times. Correct PPE issued and worn at all times.	3	2	6
Landslides	Harm to human health and local wildlife and plant	Employees, contractors and visitors	5	5	25	First Aid provisions in place and trained first aiders on site at all times Site rules and regulations to be followed at all times Daily site inspections carried out to identify potential risk spots All visitors and employees full inducted and shown the muster point in case of emergencies Two-way radios provided for communications Only trained and competent people to undertake the task Daily weather checks to be researched for the local area in advance and recorded No work on stockpile during adverse weather conditions No movements on adverse weather condition days. Daily checks conducted on stockpiles Daily inspections of stockpiles undertaken Licenced materials accepted only on site to remove risk Quality protocol and management systems in place to monitor and control Information, instruction and training provided.	2	3	6

Fire – All working static and mobile plant	Harm to human health	Local human population, employees, contractors, and wildlife				<p>First Aid provisions in place and trained first aiders on site at all times</p> <p>Site rules and regulations to be followed at all times</p> <p>Trained fire marshals on site at all times</p> <p>Fire extinguishers on site, clearly signed and regularly checked</p> <p>Fire engine on site at all times and fully working</p> <p>Fire management plan in place</p> <p>All visitors and employees full inducted and shown the muster point in case of emergencies</p> <p>Daily site inspections carried out to identify faulty equipment and other fire hazards</p> <p>Follow manufacture guidance and instructions on plant maintenance</p> <p>Two-way radios provided for communications</p> <p>Specific Fire risk assessments in place</p> <p>CCTV cameras fitted for surveillance.</p> <p>Combustible waste is stored onsite in accordance with Environment Agency guidelines.</p> <p>No waste shall be burnt on site.</p> <p>All site operatives are required to recognise signs of smouldering waste at the point of reception. Such wastes shall remain in the container and removed to a safe area. The site manager shall be informed.</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 EMS.</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> <p>The site benefits from 2 x 100,000 litre water tanks which can be used for fire fighting and fire water retention. The site also benefits from a borehole.</p>	1	5	5
Severe Weather Conditions	Flooding Wind damage Ice/Frost Snow, Heat, Hail etc	Plant and equipment Site conditions Damage to land	2	5	10	<p>No plant to operate in severe weather conditions</p> <p>Daily weather checks to be researched for the local area in advance and recorded</p> <p>First Aid provisions in place and trained first aiders on site at all times</p> <p>Site rules and regulations to be followed at all times</p> <p>Daily litter picks to minimise debris/litter</p> <p>Good housekeeping at all times</p> <p>Two-way radios provided for communications</p> <p>Tracking in on stockpiles and monitored at all times</p> <p>Interceptors and silt traps in place along with drainage and concrete infrastructure</p> <p>Underground storage tanks in place</p>	1	3	3

<p>Emissions from Wash Plant Operation</p>	<p>Air transportation/flooding /odour /dust / vibration</p>	<p>Public Sector Woodland Land/ local soils</p>	<p>2</p>	<p>4</p>	<p>8</p>	<p>Inspections carried out on plant and equipment daily and recorded Defects noted are reported and repairs initiated through company procedures Routine preventative maintenance and cleaning carried out Leaks of fluid contained by drainage system, the interceptor and silt trap Wash plant is equipped with state of art computer warning technology Two-way radios provided for communications Drainage and upstand provisions built into the infrastructure to retain the holding back of water that is held in the wash plant at any one time. All materials and wastes produced stored in metal containers and concrete bays. Wastes produced removed daily from site. All operations conducted on concrete. Road sweeper in place along with regular housekeeping Wrap protocol in place to ensure the factory process meets requirements Conveyor covers fitted on woodland side to stop any materials escaping on windy days.</p>	<p>1</p>	<p>2</p>	<p>2</p>
<p>Release of particulate matter (dusts), vapours and polluting gases from wash plant</p>	<p>Local population in residential dwellings, commercial and industrial properties, woodlands and protected species</p>	<p>Air transport then inhalation</p>	<p>2</p>	<p>4</p>	<p>8</p>	<p>Permitted waste type do not include dusts, powders or loose fibres and waste is not typically dusty unless it is stored during prolonged dry periods when damping down is carried out where required. Wash plant is a wet plant, risk of dust migration is very low due to material being wet throughout the process. 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 Conveyor cover fitted to the first transfer conveyor where material is dry before becoming wet.</p>	<p>1</p>	<p>2</p>	<p>2</p>
<p>Workshop oils and lubricants</p>	<p>Local population in residential dwellings, commercial and industrial properties, woodlands and protected species</p>	<p>Groundwater, air transportation, local human health</p>	<p>2</p>	<p>4</p>	<p>8</p>	<p>COSHH assessments in place for all oils and lubricants stored and used on site. Bunded tanks used to store fuels for all mobile plant and trucks Bunded trays used on lubricants and oils, metal drums used only with electric pumps to avoid spillage. Waste oil is stored in a bunked tank and collected by an external licenced company for disposal. Oil filters are stored in sealed metal drum containers and also collected. Spillage procedures in place. Information instruction and training provided. Regular inspections undertaken. All works undertaken on concrete.</p>	<p>1</p>	<p>2</p>	<p>2</p>

loading and unloading of inert materials in washplant	Environmental Damage / ground water / lake	wildlife and environment		2	5	10	<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>Wastes being delivered to the site will be covered or sheeted to prevent the generation of dust while the waste is in transit.</p> <p>all loads are tipped on concrete and in permitted area.</p> <p>Vehicle speeds will be limited onsite and the haul road to 10mph to prevent re-suspension and movement of dust.</p> <p>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.</p> <p>Dust suppression around the site can be manually operated as required. A mobile bowser/mist air unit can be deployed to any location as required.</p> <p>A road sweeper and mobile plant water spray attachment are on site and used at regular intervals to suppress dust. These can also be deployed at any time considered necessary.</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>plant loaded only in permitted operating hours</p>			
Washplant water storage	Air transportation/flooding damage to the environment	Properties Public Sector Woodland Local Land		3	4	12	<p>Bore hole set into a concrete slab and underground with steel manhole lid to prevent damage.</p> <p>Potable water only in the bore hole.</p> <p>daily inspections undertaken on the borehole pump and meter.</p> <p>Potable water tanks are steel, upstands and drainage around them, in the event of a leak no water can escape into woodlands or lakes. Water testing is conducted regularly.</p> <p>Sludge is stored in a concrete holding tank with protection barriers, outlets for tankers are fitted to remove sludge. Agitators are used to stop settlement and odour.</p> <p>Non potable water tank in concrete tank with water treatment system to recycle the water, water tested regularly for PHS levels and contaminants.</p> <p>non potable water tank has 2x outlets in place for tinkering out water.</p> <p>crash barriers fitted around all storage to stop impact damage.</p> <p>drainage system has shut off systems to prevent water escaping.</p> <p>should any water escape the system all water is run through a three-stage interceptor.</p> <p>Lagging fitted in relevant areas</p>	2	2	4

Building 2/3 dry waste MRF General	Air transportation/flooding damage to the environment	Properties Public Sector Woodland Local Land				<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>Wastes being delivered to the site will be covered or sheeted to prevent the generation of dust while the waste is in transit.</p> <p>all loads are tipped on concrete and in permitted area.</p> <p>Vehicle speeds will be limited onsite and the haul road to 10mph to prevent re-suspension and movement of dust.</p> <p>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.</p> <p>Dust suppression around the site can be manually operated as required. A mobile bowser/mist air unit can be deployed to any location as required.</p> <p>A road sweeper and mobile plant water spray attachment are on site and used at regular intervals to suppress dust. These can also be deployed at any time considered necessary.</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>plant loaded only in permitted operating hours</p> <p>dust suppression fitted to the static plant to stop dust migration; any issues are logged in the production diary.</p> <p>All residuals and recyclables are stored in concrete bays and metal containers</p> <p>Dust checks are regularly undertaken</p> <p>Loading out is conducted inside the building that may be dusty to stop escape.</p>	2	2	4
			3	4	12				

Building 1 inert dry screen General	Air transportation/flooding damage to the environment	Properties Public Sector Woodland Local Land				<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>Wastes being delivered to the site will be covered or sheeted to prevent the generation of dust while the waste is in transit.</p> <p>all loads are tipped on concrete and in permitted area.</p> <p>Vehicle speeds will be limited onsite and the haul road to 10mph to prevent re-suspension and movement of dust.</p> <p>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.</p> <p>Dust suppression around the site can be manually operated as required. A mobile bowser/mist air unit can be deployed to any location as required.</p> <p>A road sweeper and mobile plant water spray attachment are on site and used at regular intervals to suppress dust. These can also be deployed at any time considered necessary.</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>plant loaded only in permitted operating hours</p> <p>dust suppression fitted to the static plant to stop dust migration; any issues are logged in the production diary.</p> <p>All residuals and recyclables are stored in concrete bays and metal containers</p> <p>Dust checks are regularly undertaken</p> <p>Loading out is conducted inside the building that may be dusty to stop escape.</p>			
Pipework's and Electrical cables	Bursts, eruptions, flooding	Properties Public Sector Woodland Local Land	3	4	12	<p>Only trained and competent staff to undertake the task</p> <p>Site rules and regulations to be followed at all times</p> <p>First Aid provisions in place and trained first aiders on site at all times</p> <p>Trained fire marshals on site at all times</p> <p>Two-way radios provided for communications</p> <p>Pipework and electrical cable are underground</p> <p>regular inspections in place with in house maintenance.</p>	1	1	2

Stockpiles	Landslides/dam age to environment and habitats	Properties Public Sector Woodland Local Land				Stockpile stocked in compliance with company site permit Only trained and competent staff to undertake the task Site rules and regulations to be followed at all times First Aid provisions in place and trained first aiders on site at all times No working area permitted around stockpile by unauthorised access Controlled, planned areas of work to reduce risks No working during or immediately after rainfall Operator must always maintain at least 2 meters from the edge Two-way radio communications in place at all times Management system in place Permit to work system in place Height restriction of allowed stockpile in place and adhered to Steps on stockpile to limit risk of landslides Reporting procedures in place to local authority and the environment agency All work to be stopped if birds (sand martins) make a habitat in the area.						
Flooding	Groundwater	Infiltration and Percolation	2	5	10	The site is not located in an area at risk of flooding from rivers or surface waters. An impermeable concrete surface covers the operational areas of the site. The waste stored onsite is unlikely to cause contamination of groundwater through infiltration as the proposed waste types likely to cause pollution will be covered by a building when stored and protected by a sealed interceptor. Due to the nature of waste types accepted on site and as all waste is managed and stored on impermeable concrete surfacing, if surface water comes into contact with these wastes, significant pollution or contamination of groundwater or surface water is considered unlikely	3	4	12	1	3	3

LIKELIHOOD (L) = Frequent (5) - Probable (4) - Occasional (3) - Improbable (2) - Remote (1)

SEVERITY (S) = Catastrophic (5) - Major (4) - Reportable (3) - Serious (2) - Minor (1)

Degree of Risk (DR) = LIKELIHOOD x SEVERITY

* Numbers used are for illustrative purposes only.

** Residual risk is the level of risk that remains after suitable and sufficient control measures are introduced