

## ENVIRONMENTAL RISK ASSESSMENT – USE OF TIPPING BAY

Site Name/ Address	Transwaste Recycling & Aggregates Ltd Jameson Road Landfill Site, Jameson Road, Fleetwood, FY7 8TW	Environmental Management Representative	Sam Juggins
Operation/ Task/ Equipment	ERA – Use of Tipping Bay	Document Controller	Sam Juggins
Initial Risk Assessment Prepared by?	Sam Juggins	Issue Date	10/10/24
Date	10/10/2024	Document Number	TERAJR001V002

HAZARD	RECEPTOR	PATHWAY	RISK MANAGEMENT TECHNIQUES	PROBABILITY OF EXPOSURE	CONSEQUENCE	OVERALL RISK	MITIGATION STRATEGY IN EVENT OF FAILURE TO ADHERE TO PROCEDURES
Emission to Air/Land: Litter	Local Residents; Workforce of neighbouring businesses; Local environment	Windblown during tipping/storage within bay and/or reloading onto site vehicles leading to migration beyond site boundary.	<ul style="list-style-type: none"> <li>- Tipping bay surrounded by litter fencing to collect any windblown litter at source.</li> <li>- Existing Waste acceptance and assessment procedures utilised to ensure only suitable waste types (i.e. no "light" wastes) to be tipped within tipping bay (Site EMS, section 4.7).</li> <li>- Visual monitoring of windblown litter in accordance with regular site operating procedure (Site EMS, section 4.13).</li> <li>- Full time litter pickers employed on site.</li> <li>- Site manager is responsible for checking wind strength and direction daily.</li> <li>- Operations ceased where necessary in light of weather conditions.</li> <li>- All waste unloaded within the tipping bay must be cleared and transported to the tipping face by the end of each working day (operational hours: 07:30 to 17:30 Mon-Fri, 08:00 to 16:00 Saturday, Sunday &amp; Public Holidays).</li> <li>- No waste is to be stored in the bay overnight.</li> </ul>	During periods of very strong winds, litter could potentially be windblown during unloading and reloading onto site vehicles for disposal at the tipping face.	Nuisance - litter in nearby properties, nature reserve etc	LOW if all management techniques and procedures are utilised and adhered to.	<ul style="list-style-type: none"> <li>- Suspension of tipping activities in bay.</li> <li>- Site Manager to identify areas affected by windblown litter.</li> <li>- All litter pickers deployed to affected areas within and beyond site boundary as directed by Site Manager.</li> <li>- Deployment of additional litter pickers (agency staff) to help clear any excess windblown litter within and beyond site boundary, as directed by Site Manager.</li> </ul>

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<p>Emission to Air: Dust</p>	<p>Local Residents; Workforce of neighbouring businesses; Local environment</p>	<p>Windblown from haul roads when accessing tipping bay and/or directly from load during tipping/storage within bay and/or reloading onto site vehicles, leading to formation of dust clouds that could migrate beyond site boundary.</p>	<ul style="list-style-type: none"> <li>- Existing site Dust Control Procedure (Site EMS, Section 4.14) applicable to proposed tipping bay activities, specifically waste handling operations. Separate Dust Management Plan therefore not deemed necessary at this stage.</li> <li>- Visual dust monitoring at regular intervals throughout operational hours.</li> <li>- Site manager is responsible for checking wind strength and direction daily.</li> <li>- Operations ceased where necessary in light of weather conditions.</li> <li>- No tipping of potentially dusty wastes (as identified by Waste Acceptance Procedures) within tipping bay.</li> <li>- Regular dust suppression on all roads/areas around tipping bay, as per daily operating procedures.</li> </ul>	<p>Dust could potentially reach United Utilities Wastewater Treatment Facility (Approx. 300m NW of site) and/or the Fleetwood March Nature Reserve (600m N) during periods of strong, non-prevailing winds, coupled with very dry periods.</p>	<p>Nuisance – dust on cars, buildings, flora etc.</p>	<p>LOW if all management techniques and procedures are utilised and adhered to.</p>	<ul style="list-style-type: none"> <li>- Site Manager to identify any affected areas.</li> <li>- Cessation of all non-essential vehicle movements and operations in and around tipping bay.</li> <li>- Fully wet down all surfaces in and around tipping bay to prevent any further creation of dust clouds.</li> <li>- Site Manager to ensure dust suppression operations satisfactory prior to recommencement of tipping bay operations.</li> </ul>
<p>Emission to Air: Odour</p>	<p>Local Residents; Workforce of neighbouring businesses</p>	<p>Windblown during tipping/storage within bay and/or reloading onto site vehicles, leading to migration of odour beyond site boundary.</p>	<ul style="list-style-type: none"> <li>- Odour Management Plan and waste acceptance and assessment procedures utilised to ensure only suitable waste types are deposited within the tipping bay (i.e.no acceptance of wastes identified by assessment as high risk for odour).</li> <li>- Regular odour monitoring, assessment and reporting to EA, as per existing site procedures (Site EMS Section 4.16) and permit requirements.</li> <li>- Implementation of, and adherence to, Odour Management Plan (TW Jameson Road Landfill OMP V3 - MAY 2024)</li> </ul>	<p>Odour could be blown outside of site boundary if excessively malodourous wastes are deposited within the tipping bay and not removed for disposal within the specified timeframe.</p>	<p>Nuisance – bad odours in house/workplace etc. affecting quality of life</p>	<p>LOW if all management techniques and procedures are utilised and adhered to.</p>	<ul style="list-style-type: none"> <li>- Upon detection of malodourous waste deposited into the tipping bay, tipping in the bay will be ceased &amp; the affected load reloaded and removed from site or sent for immediate deposition and covering within the operational cell.</li> </ul>

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<p>Emission to Land &amp; Water: Rainwater run-off</p>	<p>Local Residents; Workforce of neighbouring businesses; Local environment</p>	<p>Uncontrolled leakage of rainwater, contaminated by contact with stored waste, into surrounding ground and, subsequently, groundwaters.</p>	<ul style="list-style-type: none"> <li>- Tipping bay engineered and constructed with bunded containment and drainage system to prevent uncontrolled leakage of contaminated surface waters.</li> <li>- Regular inspection of sump area and transfer via pump of any collected liquid to site leachate treatment facility as and when required.</li> <li>- Tipping bay constructed on uncapped area of site to allow any leakage to percolate into existing landfill to be collected by leachate management system.</li> </ul>	<p>Very small potential for uncontrolled leakage of liquid from the tipping bay during prolonged periods of extremely wet weather coupled with failure of sealed, engineered concrete containment bunding and walls.</p>	<p>Potential contamination of local groundwaters and watercourses</p>	<p>LOW if all management techniques and procedures are utilised and adhered to.</p>	<ul style="list-style-type: none"> <li>- Tipping bay constructed over uncapped area of site to allow any liquid that escapes from the bay to percolate down into the landfill, thus avoiding any potential for contamination of surface or groundwaters.</li> <li>- Any liquid that leaks from the bay and pools on the surface of the surrounding area removed via tractor and bowser and deposited within leachate treatment plant.</li> </ul>
<p>Pests: Scavenging Birds, Vermin, Flies</p>	<p>Local Residents; Workforce of neighbouring businesses; Local environment</p>	<p>Airborne; Burrows, adjacent agricultural land etc.</p>	<ul style="list-style-type: none"> <li>- Existing site operating procedures for bird, vermin and fly control (Site EMS section 4.12) utilised to prevent and/or minimise the potential for scavenging birds, vermin and/or flies to cause an adverse impact upon local amenity.</li> <li>- All waste unloaded within the tipping bay must be cleared and transported to the tipping face by the end of each working day (operational hours: 07:30 to 17:30 Mon-Fri, 08:00 to 16:00 Saturday, Sunday &amp; Public Holidays). No waste is to be stored in the bay overnight.</li> </ul>	<p>Wastes left unattended or not removed from bay for disposal within specified timeframe could attract pests and thus cause issues offsite.</p>	<p>Nuisance and potential for spread of disease and adverse health impacts on vulnerable people</p>	<p>LOW if all management techniques and procedures are utilised and adhered to.</p>	<ul style="list-style-type: none"> <li>- Any waste left in the bay (due to plant breakdown etc.) for a prolonged period will be covered with suitable materials and removed for deposition within the operational cell as soon as is practicable.</li> <li>- Additional plant hired in as necessary in the event the site plant cannot be repaired in a timely manner.</li> </ul>

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<p>Noise &amp; Vibration</p>	<p>Local Residents; Workforce of neighbouring businesses</p>	<p>Potential for excessive noise from use of heavy plant and tipping vehicles.</p>	<ul style="list-style-type: none"> <li>- Routine daily monitoring of noise &amp; vibration.</li> <li>- Existing site procedures for noise and vibration monitoring and control (Site EMS, Section 4.17), such as regular maintenance of plant, haul roads and operational surfaces utilised to prevent and/or minimise the potential for nuisance to be caused by noise and vibration.</li> <li>- Tipping bay only to be used within normal operational hours (07:30 to 17:30 Mon-Fri, 08:00 to 16:00 Saturday, Sunday &amp; Public Holidays).</li> </ul>	<p>Small potential for noise from tipping vehicles unloading and use of heavy plant to reload waste onto site vehicles to reach neighbouring businesses.</p>	<p>Nuisance – noise affecting quality of life etc.</p>	<p>LOW if all management techniques, procedures and working hours are utilised and adhered to.</p>	<ul style="list-style-type: none"> <li>- If routine inspection/noise assessment determines noise from tipping bay activities to be causing nuisance, operations will be suspended and further investigation carried out of all relevant plant and infrastructure to ascertain cause of noise.</li> <li>- Any necessary repair/remediation carried out prior to recommencing operations.</li> </ul>
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