4RMS044 – Emissions Risk Assessment

Dust Emission Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Dust	Dust emissions from waste materials from within containers of delivery vehicles	Medium	All delivery vehicles must have fully enclosed/sheeted containers	Low
	Processing of waste materials incorporating; agitation, mixing and blending	Medium	All processing of waste materials incorporating; agitation, mixing and blending will be undertaken within fully enclosed Process Building.	Low
	Bioaerosols generated from agitation, mixing and blending of waste materials containing bioaerosols	Medium	Waste material risk assessments to identify those likely to contain bioaerosols All processing of waste materials incorporating; agitation, mixing and blending will be undertaken within fully enclosed Process Building Agreed bioaerosol monitoring programme to be undertaken and results shared with EA	Low
	Dust emissions generated on dirty yard areas from vehicle activity and/or wind	Medium	Impermeable surfaces Cleaning schedule for yard and mobile plant Clean water application to supress dust if monitoring detects. Daily monitoring for Fugitive Emissions	Low
	Adverse weather conditions – high winds	Low	Site weather station to inform operations	Low

Fume Emissions Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Fumes	Mobile plant engines will generate excessive fume emissions if not serviced, experience prolonged usage etc.	Medium	Mobile plant will not be operated outside of operational hours All equipment will be subject to routine servicing via the site Planned Preventative Maintenance (PPM) schedule Modern equipment will be used on site that is fitted with engines that are compliant with the relevant emission regulations Daily monitoring for Fugitive Emissions	Low
	Fuels, lubricants, chemicals could generate fume emissions if stored incorrectly	Medium	Chemicals such as fuels, oils and cleaning products will be stored in suitable containers, will be bunded if required and will be in secure lockable containment. COSHH assessments will be undertaken for all chemicals used on site. Daily monitoring for Fugitive Emissions	Low

Fly Emissions Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Flies	Fly activity exists in incoming deliveries of waste materials with potential emissions during transport, delivery and processing.	Medium	Contracts in place with waste suppliers with agreed waste specifications set out which include the presence of fly activity. Off specification loads can be rejected from site All delivery vehicles must have fully enclosed/sheeted containers Quarantine procedure in place so that waste delivery can receive an application of insecticide to kill fly and fly larvae Daily monitoring for Fugitive Emissions	Low
	Fly populations develop and increase due to food source in waste materials and waste materials creating preferential habitat	High	Waste materials delivered to site will already have received some form of treatment therefore highly likely that 'life cycle' broken. The potential food sources in the waste materials will have been significantly reduced from the treatment processes they have been through. The processes of mixing, handling and stockpiling will break the 'life cycle' if fly larvae present. Daily monitoring for Fugitive Emissions	Low
	Fly populations rapidly increase on site and begin to migrate off site in search of new habitat and or food sources	High	Contract will be in place with an approved pest control contractor to provide pest control and monitoring services on site.	Low

			Pest control file will be maintained in site office, inspection reports completed for each visit and fly activity assessments recorded together with any controls administered. If fly activity detected then residual surface applications of insecticide will be applied via petrol air mister. This will provide a fly 'knockdown'. If activity is high then other controls such as building fogging will be undertaken outside of operational hours. Frequency of applications will be increased until fly populations have reduced. Daily monitoring for Fugitive Emissions	

Vermin Emissions Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Vermin	Vermin activity exists in incoming deliveries of waste materials with potential emissions during transport, delivery and processing.	Low	Contracts in place with waste suppliers with agreed waste specifications set out which include the presence of pest activity. Off specification loads can be rejected from site All delivery vehicles must have fully enclosed/sheeted containers Daily monitoring for Fugitive Emissions	Low
	Vermin populations develop and increase due to food source in waste materials and waste materials creating preferential habitat	High	The potential food sources in the waste materials will have been significantly reduced from the treatment processes they have been through. Contract will be in place with an approved pest control contractor to provide pest control and monitoring services on site. Pest control file will be maintained in site office, inspection reports completed for each visit and vermin activity assessments recorded together with any controls administered. Daily monitoring for Fugitive Emissions	Low
	Vermin populations rapidly increase on site and begin to migrate off site in search of new habitat and or food sources	High	Contract will be in place with an approved pest control contractor to provide pest control and monitoring services on site. Contractor will advise on control methods. Typically via bait stations forming a control barrier around the building perimeter and secondary control around the site perimeter.	Low

			Daily monitoring for Fugitive Emissions	
	Vermin populations increase due to poor housekeeping standards providing food sources and preferential habitat	High	Cleaning schedule deployed as per the EMS Daily monitoring for Fugitive Emissions	Low

Mud Emissions Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Mud	Mud generated from delivery vehicles during transport of waste materials to site	Low	Access roads to site are of paved construction and in good condition Daily monitoring for Fugitive Emissions	Low
	Mud generated from yard areas of the site will attach to vehicle wheels and be deposited outside of the site boundary	Medium	Yard areas are of impermeable surface Washing facilities and designated wash down area on site Cleaning schedule deployed as per the EMS Daily monitoring for Fugitive Emissions	Low
	Debris generated during loading of organic products could become attached to vehicle wheels, container bodies etc. and be deposited outside of the site boundary	Medium	Collection vehicles will be positioned in areas free of product debris Areas will be cleared of any product debris prior to collection vehicle arriving Washing facilities and designated wash down area on site. Any incidental materials present on wheels or vehicle bodies will be cleaned off prior to departure from site	Low

			Cleaning schedule deployed as per the EMS Daily monitoring for Fugitive Emissions	

Litter Emissions Risk Assessment

Fugitive Emission	Hazard	Likelihood of Occurrence	Control Measures	Revised Likelihood of Occurrence
Litter	Litter present in the incoming waste materials	Medium	Contracts in place with waste suppliers with agreed waste specifications set out which include contamination levels. Off specification loads can be rejected from site All delivery vehicles must have fully enclosed/sheeted containers Daily monitoring for Fugitive Emissions	Low
	Processing of waste materials on site could give rise to litter in the form of processed and or screened waste materials such as plastics screened from composts	Medium	Processing of waste materials to take place within fully enclosed process building. Site weather station will be used to inform operations Daily monitoring for Fugitive Emissions.	Low
	Litter will accumulate on the yard areas and be taken off site by vehicles or wind	Medium	Cleaning schedule deployed as per the EMS Site boundary fence of steel palisade construction Daily monitoring for Fugitive Emissions	Low
	Adverse weather conditions – high winds	Low	Site weather station to inform operations	Low