

Likeliho			Likely (5)	Probable (4)	Possible (3)	Remote (2)	Unlikely (1)
Severity	Severity						
Fatal		(5)	25	20	15	10	5
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16-25	Unacceptable	<mark>10-15</mark>	High Ris	k <mark>6-9</mark>	Medium Ris	k <mark>1-5</mark>	Low Risk

Description of Task / Work Activity:Environmental Risk AssessmentAssessment Number:G4G/RA/017.1

Assessed by: Tim Richardson Reviewed and agreed by: Samantha Turton Date: April 2024

ITEM No`	ACTIVITY	HAZARD	PERSON(S) EXPOSED TO RISK		RISK RATING S L R		CONTROL MEASURES TO REDUCE RISK RATING		ISIDU K RA <sup>-</sup> L		RESPOSIBILTY FOR CONTROL MEASURES
1	Loading Waste into Digester	Odour	Operatives / Visitors / Public				Waste will be loaded into a hopper which will be located internally inside an enclosed building.  Material Handlers will be used to transfer waste from the holding bay and into the hopper to be processed by the digester.  The holding bay has been designed so that				
2	Treating Waste through Aerobic Digester	Odour	Operatives / Visitors / Public				waste and debris does not build up in inaccessible areas such as corners.				
3	Storage of Waste	Odour	Operatives / Visitors / Public	3	3	9	The holding bay will be cleaned regularly.  The storage areas have been designed to ensure there is no cross-contamination between the input and outputs of the aerobic digestion process.  The holding bays where the waste is to be stored is located in close proximity to the hopper therefore minimizing handling of waste.  Only competent staff will handle waste using appropriate equipment.  Drop heights of the waste into the hopper will be minimised to prevent minimise handling of waste and therefore increased potential for	2	2	4	Operative Manager



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			odour.  Due to the small scale of the aerobic digeste (Maximum 10 Tonne Per day), the risk of odour is low.  The digestion process is undertaken aerobically which limits odour generation compared to an anaerobic digestion process for example.  The automatically controlled process ensure that operatives spend as minimal time as possible near the machine eliminating exposures to any odours  The aerobic digester is a sealed process benefitting from a carbon filter, which abates any odours which may be produced during the process.  Storage areas and the perimeter of the site is monitored daily for any unacceptable levels of odour.  Any odour identified on site is recorded in the site diary, investigated by the site manager and remediated as soon as possible.  Storage of waste generated by the machine will be collected internally into a holding bay and dry stored until collection / haulage off site.  Storage prior to treatment is undertaken externally with the site's existing permitted	s s e				



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Asse	essed by: Tim Ric	chardson	Reviewed and agr	eed	by:		Samantha Turton				Date:	April 2024
							arrangements.  The Site Manager is responsible for managing emissions of odour on site.  It is considered unlikely that significant noise or vibrations will be generated by the					
4	Noise from the Aerobic Digester	Noise	Operatives / Visitors / Public	3	3	9	aerobic digester due to its small scale (Maximum 10 tonnes per day) and the enclosed nature of the process.  Noise pollution will be reduced compared to operation without the digester, as transport movements required to transfer the waste generated on site will be less frequent.  To ensure that noise and vibrations are limited, the following management techniqueswill be implemented.  All plant and machinery will be operated and maintained in accordance with manufacturer's specifications.  Machinery will be operated so as to minimise noise.  Vehicles adhere to a speed limit on site.  Site surfaces will be kept in good repair to minimize noise associated with uneven roads.  Daily auditory monitoring will be carried out by site personnel to identify any	2	2	4	Operatives Manager	

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Risk Rating = Severity of Injury multiplied by Likelihood of Occurrence

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Asse	essed by: Tim Ric	chardson	Reviewed and ag	reed by:		Samantha Turton				Date:	April 2024
5	Dust from vehicle movements transferring residual waste off site	Dust	Operatives / Public	3 2	6	unacceptable levels of noise.  A record of the inspection findings will be made in the site diary. Remedial action will be taken in the event that noise from the site is detected at nearby sensitive receptor locations.  The Site Manager will be responsible for managing emissions of noise on site.  The digester is located within a building with concrete surfacing leading to tarmacked roadways.  Vehicles will not be tracking over dusty roads.  Use of the digester will result in a reduction in vehicle movements thereby reducing the potential for dust generation from this source.  Daily visual inspections will be conducted in response to any complaints.  If dust is deemed a nuisance from any of these inspections, mitigation measures will beenforced to reduce any dust emissions.  The result of any inspections or investigations as a result of complaints will be recorded in the site diary.  The Site Manager will be responsible for	2	1	2	Operatives Manager	



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		_										
Asse	essed by: Tim Ri	chardson	Reviewed and agr	eed	by:		Samantha Turton				Date:	April 2024
							accordance with operational and management procedures including the site's Dust Management Plan.  Waste will be loaded into a hopper which will					
6	Dust from storage and transfer of waste	Dust	Operatives / Public	3	2	6	be located Internally. Following shredding, waste will be transferred to the digester via a fully enclosed auger. The digester will be located internally.  After completion the post-process floc will be collected internally into a holding bay and dry stored until collection/ haulageoff site.  Waste awaiting processing will be dry stored within a holding bay in accordance withthe current permitted arrangements.  The aerobic digester accepts approximately 10 tonnes of waste each day. It is therefore a small-scale activity.  Daily visual inspections will be conducted in response to any complaints. If dust is deemed a nuisance from any of these inspections, mitigation measures will be enforced to reduce any dust emissions.  The result of any inspections or investigations as a result of complaints will be recorded in the site diary.  The Site Manager will be responsible for implementing risk management measures in accordance with operational and management procedures.	2	1	2	Operatives Manager	



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7	Bioaerosols released during aerobic digestion	Air	Operatives / Visitors / Public	3	3	9	It is considered unlikely that the aerobic digester will emit significant levels of bioaerosols due to the small scale of the activity involving treatment of up to 10 tonnes of waste per day.  Ambient monitoring of bioaerosols at the site of Advetec's current operations and installations found bio-aerosols to be below levels of detection or very low in all samples.  The digestion process is undertaken within a sealed vessel, benefiting from a carbon filter. This limits the release of bioaerosols from the treatment process.  Daily visual inspections shall be undertaken at all areas of the site to check for conditions potentially affecting bioaerosol release.  Records of the findings will be recorded in the sit diary.  Operational areas and site surfaces shall be maintained in a clean condition; and processes shall take place in designated and controlled areas of the site.	2	2	4	Operatives Manager Advetec	



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8	Contaminated run of from Aerobic Digester	Water	Watercourse / Public / Operatives / Visitors	2	2	4	Waste awaiting processing will be dry stored within a holding bay located interally in accordance the current permitted arrangements.  Waste is stored within the digester while undergoing treatment. Floc generated by the digester will be collected into an internal holding bay and dry stored until collection / haulage off site.  All wastes to be treated will be solid. No liquid wastes will be accepted.  The treatment process is exothermic. The heating of the waste during the treatment process causes it to dry out with the moisture extracted and treated via the carbon filter.  Condensate will be vented into the atmosphere.  Waste received will be low risk non-hazardous in nature. The aerobic digestion process does not use water.  The Site Manager will be responsible for implementing risk management measures in accordance with operational and management procedures.	1	2	2	Operatives Manager Advetec		



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9	Birds, Pests and insects attracted to waste and residual flock produced from the Aerobic Digester	Land / Water / Air	Watercourse / Public / Operatives / Visitors / Wildlife	2	2	4	Waste awaiting processing will be dry stored within a holding bay located internally in accordance to the current permitted arrangements.  Waste is stored within the digester while undergoing treatment.  Floc generated by the digester will be collectedinto an internal holding bay and dry stored until collection / haulage off site.  Site personnel will conduct daily inspections of waste storage areas for signs of scavenging animals.  If scavenging animals are spotted, a licenced contractor is contacted to remove themand the offending waste type will be investigated and removed if necessary.  Pest contractors visit every quarter and this will continue to be monitored.  The Site Manager is responsible for management of scavenging animals.		1	2	Operatives Manager	
10	Mud / Litter from Waste	Ground / Environmental	Operatives / Visitors / Drivers	3	2	6	Loading of waste into the process will be undertaken internally using a material handler which will collect the waste from the holding bay and drop it into the hopper.  Following shredding, waste will be transferred to the digester via a fully enclosed auger.  The digester is located internally and will be	2	2	4	Operatives Manager	



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							fully enclosed.  After completion the post- process floc will be collected into an internal holding bay and dry stored untilcollection/ haulage off site.  The site will be inspected daily for signs of litter.  The site benefits from good housekeeping.  In the event that any litter is identified on site, it is cleared from the affected area.  The Site Manager is responsible for managing emissions of litter on and off site.					
11	Mud from Vehicle Movements	Ground / Environmental	Operatives / Visitors / Drivers	3	2	6	The access roads to the site are all tarmacked and concrete and therefore present low risk in terms of transferring mud.  All site vehicles will be checked to ensure that they are clear of loose waste prior to leaving the site.  Due to the small scale of residual waste produced from the aerobic digester, transport of the waste off site will be infrequent and therefore reduce the risk of mud being transferred.  Good housekeeping will be put in place by the site manager, which involves daily cleaning and inspections.  The site will be inspected daily for signs of	2	2	4	Operatives Manager	

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Assessed by: Tim Richardson Reviewed and agreed by: Samantha Turton  litter, mud or waste.					
		Date:			
Leakage of fuel and oils  Environment / Water / Ground  Wildlife / Environment  2 2 4 Any identified instances of mut waste are cleared immediately.  The Site Manager is responsible f managing emissions of litter and r. The only fuel to be stored on site in 5,500 litre bunded secure tank an only ever filled half way.  There is the potential for fuel spillar vehicles transferring residual wast site.  The site will be monitored for any a associated with vehicle movement identified incidents are cleaned up as they are identified.  The result of any inspections or in as a result of complaints will be retite site diary.  The Site Manager will be responsing plementing risk management in accordance with appropriate procoutlined in the Operating Technique.	for mud on site. is within a and this is  ge from the te from the  spillages and any p as soon 1  vestigations corded in  sible for measures in redures	2	2	Operatives Manager Drivers	



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13	Fire	Fire	Operatives / Visitors / Drivers / Public/ Environment	3	3	9	Floc generated by the digester will be collected into an internal holding bay and dry stored until collection / haulage off site.  Permitted activities do not include the burning of waste.  An internal temperature monitor continually assesses the temperature of the aerobic digester.  The temperature measurements can be accessed via cloud-based portal.  The system is programmed with alerts and alarms to notify the user of any temperature related risks.  In the event of events such as arson and vandalism the incident is recorded in the site log and reported to the relevant authority.	2	2	4	Operatives Manager Drivers	
							Site security measures are reviewed and improved where necessary. G4G benefits from restricted access areas and CCTV.  Established Fire protection plan is in place at all times and is followed by all site and visitors.					
14	Security and Vandalism			2	2	4	In order to prevent unauthorised access, the Site has 24 hour monitored CTTV provision from an external company with links directly to the key holders and police / fire service.	1	2	2	Operatives Manager Drivers	



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			The site also benefits from a full-length gate which is CCTV covered. Only authorised personnelwill have access to the site.  The site is inspected at the commencement of each working day. Any defects or damage which compromise the integrity of the fencing and gates are made secure by temporary repair by the end of the working day.  Permanent repairs are affected as soon as practicable.  In the event that damage is sustained, repair are made by the end of the working day.  If this is not possible, suitable measures will be taken to prevent any unauthorised access to the site and permanent repairs are affected as soon as practicable.  The Site Manager will be responsible for managing security on site. This includes inspecting the site at the commencement of each day.  All inspections, any defects, damage or repairs is recorded in the site diary.	rs		

Risk Assessment Approved by Tim Richardson

Signature Date: April 2024

Risk Assessment Approved by Samantha Turton

Signature Date: April 2024