

GH By-Products (Derby) Ltd		Odour Impact Assessment Record		
Environmental Management System				
Document Reference:	Issue No.	Issue Date:	Review Date:	Approved By:
EM 03-012	D	Draft	Draft	Alan Asker

Odour Impact – Risk Assessment Methodology

The following risk matrix is used for each possible odour source to be included within the Source Materials Inventory of the Permitted Storage Odour Management Plan, to determine the risk of odour impacts at the identified sensitive receptors, under normal, abnormal and emergency conditions.

Table 5.1: Odour Risk Matrix		Odour source (O)		
		HIGH Highly offensive / strong odours	MEDIUM Moderate intensity odour / moderately offensive / becomes more offensive in warmer weather / pervasive odour present for extended duration	LOW Low intensity odour / non-offensive
Pathway (P) (ability to impact on receptor)	HIGH Close proximity / downwind of prevailing wind direction at site / lack or failure of controls	HIGH RISK		
	MEDIUM Open pathway / likelihood of impact subject to prevailing wind direction / ineffective controls		MEDIUM RISK	
	LOW Lack of pathway / effective controls			LOW RISK

The following tables provide the odour impact assessment for the permitted waste site, together with a description of control measures adopted to prevent, mitigate and control odour impacts under normal, abnormal and emergency conditions.

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Table 1 – Odour Impact Assessment: Permitted Storage at Park Farm						
Source	Scope for potential odour release – normal conditions	Control and abatement techniques	Risk of odour impact off site (normal conditions)	Odour release (abnormal/emergency conditions)	Risk of odour impact off site (abnormal / emergency conditions)	Contingency measures implemented
Delivery and Collection of Wastes	Fugitive emissions from waste delivery / collection including loading / collection operations .	Site Technically Competent Manager to ensure impact controls listed below are implemented: <ul style="list-style-type: none"> • Scheduling of waste deliveries and collections. • Waste to be delivered and collected in enclosed tankers / bowsers. • Delivery / collection vehicles to be maintained under service contracts. • Deliveries / collections supervised in line 	LOW O = L P = L	<ul style="list-style-type: none"> • Fault conditions on site could lead to vehicles standing while holding potentially odorous materials. • Spillage during transfer between delivery / collection vehicles and site stores. • Overfilling of site stores. 	MEDIUM O = M P = M	<ul style="list-style-type: none"> • Spill kits held on site at the delivery / collection points. • Level gauge on site stores and levels monitored using excel spread sheet keeping a 'live' inventory of materials stored. • Wastes can be diverted to suitably licensed deployment / waste management facilities to prevent further deliveries to site. • Stores covered to prevent rain ingress which can cause overtopping of stores.

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		with EMS Procedures. <ul style="list-style-type: none"> Level gauges for level control to minimise potential for overfilling. Stores filled towards the bottom to minimise disturbance. Proactive odour monitoring. 				
Storage of Wastes	Fugitive emissions from the lagoon and / or farm tank.	Site Technically Competent Manager to ensure impact controls listed below are implemented: <ul style="list-style-type: none"> Stores are covered. Integrity of the stores and associated covers 	LOW O = L P = L	<ul style="list-style-type: none"> Failure of store covers leading to odours impacting on offsite receptors. Failure of store, leading to spillage of potentially odorous materials which is left to degrade. Abnormally hot weather conditions lead to substantiated odour 	LOW O = L P = L	<ul style="list-style-type: none"> Materials removed from stores and recovered under at licenced deployments / waste management facilities. Site staff will look to complete repairs / rectify fault conditions as soon as practicable.

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		inspected as part of Site Infrastructure Monitoring Programme. <ul style="list-style-type: none"> • Stores strategically sited away from potential sensitive receptors. • Proactive odour monitoring. 		complaints from storage of waste streams		<ul style="list-style-type: none"> • Spill kits held on site at the delivery / collection points.