



ODOUR MANAGEMENT PLAN



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Document prepared by	Julian Gregory	21/07/2025	<i>Julian Gregory</i>
Reviewed by	Tom Meads	22/07/2025	<i>T Meads</i>
Authorised by	Julian Gregory	21/07/2025	<i>Julian Gregory</i>

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1 SITE DETAILS

Name of the applicant	SGM Waste Management
Activity address	Wentloog Avenue, Newport, CF3 2TN
National Grid Reference	ST 46457 92070

This Odour Management Plan (OMP) has been developed in accordance with the Environment Agency's H4 Guidance: *"How to comply with your environmental permit – Odour Management"*. It supports the Environmental Permit and Environmental Management System (EMS) for SGM Waste Management Ltd and outlines the measures in place to prevent or minimise odour emissions from site operations.

The site is located at Sluice Farm, off Wentloog Avenue, Peterson Wentloog, Cardiff. The site is accessed directly from Wentloog Avenue, via a dedicated site access. There is a secondary access into the carpark and office area of the site.

The site forms part of the family farm and is an agricultural diversification business. The area occupied by the waste management facility was previously used for horse livery, but it was found that due to the poor productivity of the ground and market forces the business was not sustainable and hence not commercially viable.

The site lies within the Peterson and Wentloog SSSI, but the site is outside the SSSI boundary and is not classified as SSSI.

2 SITE ACTIVITIES WITH ODOUR POTENTIAL:

The following activities have been identified as having potential to generate odours:

- Sorting and handling of mixed domestic, commercial and industrial waste (DCI waste). Liquids are not permitted to be accepted by the site.
- Storage of biodegradable materials (e.g. wood, vegetation)
- If produced soils containing organic matter, were to decompose anaerobically, this could result in odours.
- Vehicle movements and waste tipping
- Fuel and chemical storage (diesel, oils, lubricants)
- Presence of food waste from on site canteen facilities.



2.1 ODOUR SOURCES AND PATHWAYS

Due to the type of waste and activities at SGM Waste Management the likelihood of odour is low, shown in *Table 2*. Below shows the potential sources including the nearest receptors:

Table 1 - Odour source and receptor

Source	Pathway	Receptor
Decomposing organic waste particularly if anaerobic decomposition occurs	Airborne dispersion	Sluice House (20m west), nearby residents
Fuel and chemical vapours, during storage and re-fuelling	Localised airborne dispersion	Site staff, adjacent SSSI
Vehicle exhausts – plant and vehicles	Localised airborne dispersion	Local air quality
Dust containing odorous particles	Windborne	Residential and ecological receptors

2.2 ODOUR RISK ASSESSMENT

Table 2 - Odour Risk Assessment

Activity	Likelihood	Impact	Risk Rating
Waste sorting (DCI) – Refer to Table 3 for mitigation	Medium	Medium	Moderate
Fuel storage	Low	High	Moderate
Vehicle exhaust	Low	Low	Low
Organic waste in skips – wood, vegetation.	Low	High	Moderate

3 ODOUR CONTROL MEASURES

To mitigate against the impact of odours the following mitigation should be employed:

3.1 OPERATIONAL CONTROLS:

To mitigate against the impact of odours the following actions should be employed:



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Table 3 - Operational Controls

Action	Description
DCI waste tipped and sorted in covered, enclosed area with isolated drainage.	<p>All wastes admitted to the site will be subject to the sites waste acceptance criteria to ensure that they comply with the sites environmental permit and the operational management plan for the site. Liquid and fine powder wastes are not permitted at the site.</p> <p>Faeces, or any wastes containing faeces are not permitted onto site.</p> <p>All Domestic, Commercial, and Industrial DCI) waste that is received on site will be tipped within the Materials Recovery Facility building. All DCI Waste will be sorted within the MRF. The enclosed area operates with its own isolated drainage outfall, SWDP02.</p>
Waste inspections at customer site and on arrival to reject non-permitted organic waste.	<p>All waste collected from customers will be inspected to check for the presence of organic material. If any is found, the waste will be rejected.</p>
Rapid turnaround of waste sorting to minimise residence time.	<p>This will be achieved by managing the volume of collected waste through scheduled collections, ensuring the facility operates efficiently.</p> <p>Wastes are sorted into their waste fractions, loaded into bins and removed from site. Due to the size of the site and risks associated with fluctuations in waste disposal costs, wastes are not retained on site.</p> <p>Processed inert wastes may be retained don site and bulked up but as these are inert, the odour risk is low.</p>
Skips sheeted to prevent ingress of rain and release of odours.	<p>Skips will be sheeted when not within the MRF building to ensure there is no ingress of rain, wetting the wastes.</p>
Dust from waste sorting operations becoming wind blown and transporting odorous particles.	<p>Dust suppression will be employed in the form of spray mist systems within the MRF and the concrete slab area outside the MRF. A spray mist dust suppression system will be in operation on the Tromell Screen and along the picking line. This will be carefully controlled to ensure wastes are not wetted but that dust is suppressed.</p> <p>Sprinkler system within the inert waste storage and processing area.</p>



Action	Description
	Damping down of access routes using a bowser with a spray bar.

3.2 INFRASTRUCTURE CONTROLS:

Table 4 – Infrastructure Controls

Action	Description
DCI Waste tipping and sorting within MRF building.	<p>All tipping and sorting of DCI Wastes will be undertaken within the enclosed MRF building. Access to the building will be from the western façade, via a 7m roller shutter door for delivery vehicles and plant. This will limit potential for wind blown dust.</p> <p>A spray mist dust suppression system will be in operation within the interior of the building.</p> <p>A spray mist dust suppression system will operate on the Tromell Screen and within the bays of the picking line.</p>
Bunded Fuel Storage within a vented COSHH Container.	<p>The bulk fuel storage will be within a double skinned tank, stored within the COSHH container. The container will be vented to prevent the build up of potentially flammable fumes.</p> <p>All COSHH materials within the COSHH container will be sealed to prevent leakage of liquids and odours. All spillages will be immediately cleaned up in line with the Emergency Preparedness and Response section of the Environmental Management System.</p> <p>It is anticipated that fumes within the COSHH Store will be minimal and hence vented fumes will negligible.</p>

3.3 PROCEDURAL CONTROLS:

Table 5 - Procedural Controls

Action	Description
Staff Training	Staff will be trained to identify odours waste such as organic waste to enable SGM to reject waste on collection or to quarantine.



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Action	Description
Daily site inspections	Site inspections will allow for the identification of any odour sources, such as organic wastes which have become anaerobic. Identified odour sources will be immediately addressed.
General good practice	Regular cleaning of waste bays and skips.

4 ASSESSMENT OF RISKS FOLLOWING APPLICATION OF MITIGATION



Table 6 – Assessment of Risks following implementation of Controls.

Hazard	Receptor	Control Measures	Probability of exposure	Consequence	Overall Risk
<p>Decomposing organic waste particularly if anaerobic decomposition occurs</p>	<p>Sluice Farm Residential properties Fauna within SSSI Severn Estuary SAC</p>	<p>All wastes admitted to the site will be subject to the sites waste acceptance criteria to ensure that they comply with the sites environmental permit and the operational management plan for the site. Liquid and fine powder wastes are not permitted at the site.</p> <p>Faeces, or any wastes containing faeces are not permitted onto site.</p> <p>All Domestic, Commercial, and Industrial (DCI) waste that is received on site will be tipped within the Materials Recovery Facility building. All DCI Waste will be sorted within the MRF. The enclosed area operates with its own isolated drainage outfall, SWDP02.</p> <p>Waste residency times on site will be minimised through, managing the volume of collected waste through scheduled</p>	<p>Low – SGM Waste will only accept incidental volumes of organic wastes, comprised predominantly of timber within mixed domestic, commercial and industrial waste streams. This will be tipped, sorted and removed from site in sufficient time to ensure decomposition does not occur.</p>	<p>Unlikely to generate odours at sensitive receptors.</p>	<p>Not significant – provided the controls described are put in place.</p> <p>If monitoring detects odours, the source will be identified and rectified.</p>



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Hazard	Receptor	Control Measures	Probability of exposure	Consequence	Overall Risk
		<p>collections, ensuring the facility operates efficiently.</p> <p>Wastes are sorted into their waste fractions, loaded into bins and removed from site. Due to the size of the site and risks associated with fluctuations in waste disposal costs, wastes are not retained on site.</p> <p>Processed inert wastes may be retained don site and bulked up but as these are inert, the odour risk is low.</p>			
Fuel and chemical vapours, during storage and re-fuelling	<p>Sluice Farm</p> <p>Residential properties</p> <p>Fauna within SSSI</p> <p>Severn Estuary SAC</p>	<p>The bulk fuel storage will be within a double skinned tank, stored within the COSHH container. The container will be vented to prevent the build up of potentially flammable fumes.</p> <p>All COSHH materials within the COSHH container will be sealed to prevent leakage of liquids and odours. All spillages will be immediately cleaned up in line with the Emergency Preparedness and</p>	Unlikely – there is potential for short term moderate exposure during the filling of the bulk fuel tank but identifiable exposure from fumes from the COSHH store is unlikely. The small amount of fumes	Unlikely to generate odours at sensitive receptors.	<p>Not significant – provided the controls described are put in place.</p> <p>If monitoring detects odours, the source will be identified and rectified, i.e. security of containers</p>



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Hazard	Receptor	Control Measures	Probability of exposure	Consequence	Overall Risk
		<p>Response section of the Environmental Management System.</p> <p>It is anticipated that fumes within the COSHH Store will be minimal and hence vented fumes will negligible.</p>	<p>which may be released would be sufficiently diluted to be imperceptible at the site boundary.</p>		<p>inspected, COSHH substances not in the COSHH Store, spillages.</p>
<p>Vehicle exhausts – plant and vehicles</p>	<p>Sluice Farm</p> <p>Residential properties</p> <p>Fauna within SSSI</p> <p>Severn Estuary SAC</p>	<p>All vehicles on site will be Euro 5 Emissions standard or better. Plant and vehicles will be maintained in accordance with manufacturers guidelines.</p> <p>SGM Waste have an on site fitter, who will monitoring all plant and vehicles. Any equipment found to be emitting smoke or odours will be removed from service until the fault has been investigated and rectified.</p> <p>Equipment will not be left idling, when not in use.</p>	<p>Possible – plant and vehicles have potential to malfunction and emit smoke and fumes.</p>	<p>Smoke and fumes at the sites down wind boundary.</p>	<p>Low – provided the monitoring and controls described within this document are identified. Potential for short term impact until a fault with a piece of equipment is identified.</p>
<p>Dust containing odorous particles</p>	<p>Sluice Farm</p> <p>Residential properties</p>	<p>Dust suppression will be employed in the form of spray mist systems within the MRF and the concrete slab area outside the MRF.</p>	<p>Moderate – during periods of dry weather, there is potential for dust</p>	<p>Dust being deposited at off site receptors. Dust carrying odours.</p>	<p>Low – provided dust suppression within the MRF is effective.</p>



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Hazard	Receptor	Control Measures	Probability of exposure	Consequence	Overall Risk
	<p>Fauna within SSSI</p> <p>Severn Estuary SAC</p>	<p>Sprinkler system within the inert waste storage and processing area.</p> <p>Damping down of access routes using a bowser with a spray bar.</p> <p>All tipping and sorting of DCI Wastes will be undertaken within the enclosed MRF building. Access to the building will be from the western façade, via a 7m roller shutter door for delivery vehicles and plant. This will limit potential for wind blown dust.</p> <p>A spray mist dust suppression system will be in operation within the interior of the building.</p> <p>A spray mist dust suppression system will operate on the Tromell Screen and within the bays of the picking line.</p> <p>Directional Dust Deposition Monitors will be placed at the site boundary and monitored for volumes of fugitive dust,</p>	<p>from haul routes and the inert waste area to be mobilised and carried by the wind. Potential for dust which could contain odours from the MRF is low due to the controls in place.</p>		



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Hazard	Receptor	Control Measures	Probability of exposure	Consequence	Overall Risk
		its composition and the direction from which it came.			



5 MONITORING AND REPORTING

Odour monitoring at SGM Waste Management Ltd will be carried out through a combination of proactive site inspections, staff vigilance, and responsive measures triggered by complaints or unusual events.

Daily 'sniff tests' will be conducted by the Site Manager, focusing on areas with high odour potential such as the DCI waste sorting zone, fuel storage areas, and skip storage bays. These inspections will include checks for unusual smells, signs of decomposing organic material, and any operational anomalies that could contribute to odour release. Wind direction, temperature, and humidity will be observed during inspections to assess the likelihood of odour dispersion toward sensitive receptors such as Sluice House and nearby ecological areas.

5.1 COMPLAINTS

A Customer Care Database will be maintained for the site, documenting the date, time, nature of any complaints, prevailing weather conditions, and any actions taken in response. In the event of a substantiated complaint or detection of persistent odour, formal odour monitoring will be initiated. All findings will be reviewed by the Site Manager, and corrective actions will be implemented promptly, which may include isolating or removing offending materials, adjusting operational procedures, or enhancing containment measures.

Records of all monitoring activities, complaints, and remedial actions will be retained for audit purposes and reviewed periodically to identify trends and opportunities for improvement. The effectiveness of odour control measures will be evaluated regularly, and the Odour Management Plan will be updated as necessary to reflect changes in site operations.

6 ROLES AND RESPONSIBILITIES

Table 7 - Roles and responsibilities

Role	Responsibility
Site Manager - George Knight Eddins	Overall responsibility for odour management
Site Staff	Daily checks, waste inspection, complaint reporting



7 SUPPORTING DOCUMENTS

- Environmental Management System – SGM03
- 2154-SGM-001 Site Layout Plan