



A DIVISION OF DAWN MEATS

# Dunbia Preston,

Church Road, Bamber Bridge,  
Preston, PR5 6AJ

# Odour Management Plan

Ref number:	DP/OManP	Date of issue:	23/01/2020	Prepared by:	Victoria Kerr
	Page 1/19	Revision number:	002	Approved by:	Fiona Mclachlan

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## 1.0 Introduction

This update is part of the information required by the Environment Agency in relation to the submitted Variation Application (EPR/WP3338UP-V004). The OMP will be used as a tool in order to minimise the risk of odour from the *Dunbia (Preston)* site and ensure Dunbia (Preston) maintains odour management controls as required in Industrial Emissions Permit EPR/WP3339UP.

## 2.0 Site Location

The installation is located at Dunbia Preston, Church Road, Bamber Bridge, Preston, PR5 6AJ. The centre of the site is at National Grid Reference X356977 Y424676 SD56977 24676. The site covers an area of roughly 28 acres (113,312 m<sup>2</sup>) and a site plan is included in Attachment 6.

## 3.0 Purpose of the Odour Management Plan

As detailed in Appendix 4 of the Environment Agency's H4 Odour Management Guidelines, the objectives of the Odour Management Plan (OMP) are as follows:

- To employ appropriate methods, including monitoring and contingencies, to control and minimise odour pollution;
- To prevent unacceptable odour pollution at all times;
- To reduce the risk of odour releasing incidents or accidents by anticipating them and planning accordingly.

This OMP identifies potential odour sources and releases, determines the potential impacts and identifies opportunities for odour management.

## 4.0 Odour Management Plan Methodology

- To review and update the existing OMP for *Dunbia (Preston)*, and assess potential impacts on odour emissions of a planned extension to the retail packing operations at *Dunbia (Preston)*.
- A site visit was undertaken by the Dunbia Group Senior Environmental Officer (*the assessor*) on the 22<sup>nd</sup> January 2020.
- The site visit comprised of an off-site and on-site odour assessment. The off-site odour assessment was undertaken to determine if odours from the *Dunbia (Preston)* site were present in the locality and associated impacts of these odours if present. The on-site odour assessment involved assessing the possible odour sources at site and assessing the impact of the odours present.
- At the time of the assessment, the site was fully operational.
- In addition to the above, an inventory of potentially odorous material onsite was compiled and a table prepared detailing the control and mitigation measures for odour in the event of abnormal conditions, incidents and emergencies.
- The OMP will therefore be discussed under the following headings:
  - o Off-site Odour Assessment (Sniff Testing)
  - o Inventory of Potentially Odorous materials
  - o Odour Risk Assessment
  - o Procedure for Odour Management and Control
  - o Local odour Receptors
  - o Environmental Factors Affecting Odour

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#### 4.1 Off Site Odour Assessment (Sniff Testing)

Prior to arriving on site, an off-site odour assessment of existing operations using the Sniff Testing method was undertaken by the assessor in the locality. The purpose of this assessment was to determine if odours from the *Dunbia (Preston)* site were present in the locality at the time of the assessment, and the associated impacts of the odours if present. The assessment was also used to determine if there were other odour sources in the area not affiliated with the *Dunbia (Preston)* site. The Environment Agency's guidance document, H4 Odour management was consulted when carrying out the sniff test.

As the off-site odour assessment occurred before the site visit, odour adaptation was not an issue and therefore the assessor's ability to detect odours from *Dunbia (Preston)* was not compromised. The assessor avoided strong food and drinks, strongly scented toiletries, deodorisers and smoking at least half an hour prior to the sniff test.

Seven locations were selected for the sniff test. A map detailing these locations is included as Attachment 1.

The weather conditions at the time of the sniff test were as follows: Foggy, cloudy and over cast, no rain, light Westerly breeze and a temperature of 8°C.

#### 4.2 Inventory of Potentially Odorous Materials

Whilst undertaking the on-site odour assessment, an inventory of potentially odorous materials was compiled. This inventory is provided as Attachment 3 and contains management and / or mitigation measures to prevent, contain, reduce and abate odours where possible. Further details in relation to odour controls are discussed in the Odour Risk Assessment in Section 4.3 of this plan.

#### 4.3 Odour Risk Assessment

An Odour Risk Assessment (ORA) has been prepared for the site as part of the OMP. The purpose of the ORA is to identify the odour sources onsite currently existing and potential following an extension to the retail packing facility and to minimise the risk of pollution from the odour. The ORA considered the likely odour sources resulting from the Effluent Treatment Plant (ETP) storage of Animal By-Products (ABP), storage of putrescible waste and extension of retail packing activities. The ORA is included in Attachment 5 of this OMP, in addition to a map detailing the possible odour source locations.

The ORA identifies the possible odour sources on site and assigns priority ratings to each source. Using a priority rating system, the most odorous sources on site (those with higher priority ratings) can be identified. This allows the company to prioritise and address the more problematic areas on site in a feasible manner.

Additionally, the ORA specifies the existing and recommends odour control measures / opportunities.

The priority ratings assigned to the possible odour sources have been calculated by multiplying the scores assigned to intensity, extent / persistence, sensitivity and offensiveness of the odour. It is noted that the priority rating applied in this plan does not intend to disregard odour sources on the site but has been used to provide a focus to odour management on the *Dunbia (Preston)* site. The rating system used to determine intensity, extent / persistence and offensiveness are discussed below under the respective headings.

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### 4.3.1 Intensity

The Environment Agency's H4 Odour Management Appendix 1 was referred to when deciding on the intensity rating scale. The scale ranges from 0 – 6 and is as follows:

Rating	Description
0	No Odour
1	Very Faint Odour
2	Faint Odour
3	Distinct Odour
4	Strong Odour
5	Very Strong Odour
6	Extremely Strong Odour

The above scale has the same rating as detailed in the German Standard VDI 3882 (I) (1992), "Olfactometry Determination of Odour Intensity".

### 4.3.2 Extent / Persistence

A scale of 1 - 5 was chosen for Extent / Persistence (assumes an odour is detectable, if not score 0). The Northern Ireland Environment Agency's document, "Odour Impact Assessment Guidance for Permitted and Licensed Sites", was referred to when deciding the scale to use. The scale is as follows:

Rating	Description
1	No Odour Local and Transient (only detected on installation or at the boundary when the wind drops or blows).
2	Transient (as above but away from the installation).
3	Persistent but fairly localised.
4	Persistent and pervasive up to 50m away from the boundary.
5	Persistent and widespread (>50m away from the boundary).

### 4.3.3 Sensitivity

A sensitivity scale of 1 – 5 was used and is shown in the table below (assumes an odour is detectable, if not score 0).

Rating	Description
1	Remote (no housing, commercial / industrial premises or public area within 500m).
2	Low sensitivity (no housing etc. within 100m of the area affected by the odour).
3	Moderate sensitivity (housing etc. within 100m of area affected by the odour).
4	High sensitivity (housing etc. within the area affected by the odour).
5	Extra sensitive (complaints arising from residents within the area affected by the odour).

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#### 4.3.4 Offensiveness

The offensiveness will depend on the intensity, frequency of exposure and persistence and should take into account the long-term effect on receptors exposed on a regular basis. An offensiveness scale of 1 – 3 was used and is shown in the table below (assumes an odour is detectable, if not score 0).

Rating	Description
1	Low Potential
2	Moderately Offensive
3	Highly Offensive

This scale is referred in Northern Ireland's Environment Agency document, "Odour Impact Assessment Guidance for Permitted and Licensed Sites", and also the Environment Agency's document, "Review of Odour Character and Thresholds" when discussing the protocol for sniff testing.

The report states that "an odour may be placed in one of three categories of offensiveness (i.e. the combined effect of all the FIDOL factors to give "offence to the senses"), after taking into account strength / intensity, nature / character, frequency, extent and sensitivity.

#### 4.4 Procedure for Odour Management and Control

The *Dunbia (Preston)* site has a number of procedures in place which aid odour prevention / reduction onsite in addition to controlling / mitigation odours. In the event of a complaint being received for odours emanating from the site, the Communications / Complaints Procedure (EMS018) will be referred to and the Communications and Complaints Log (EMS018R) will be filled out accordingly in addition to the Odour Audit / Survey Procedure (Sniff Test) (EMS051).

The relevant procedures include:

- EMS 018 Communications / Complaints Procedure
- EMS 040 Spillage Procedure
- EMS 041 Spillage Site Instruction
- EMS 051 Odour Audit / Survey Procedure (Sniff Test)
- EMS 032 Waste ABP Storage and Procedure
- EMS 053 Non-Conformance, Corrective and Preventative Action Procedure
- EMS 054R Corrective Action Record Log
- EMS 031 Waste Management
- EMS 055 Internal Audit Procedure

Many of these procedures are referenced in the ORA to assist in determining if appropriate measures are in place for the control of odour at the *Dunbia (Preston)*.

#### 4.5 Local Odour Receptors

There have been several Local Odour Receptors identified outside of the *Dunbia (Preston)* site boundary as part of the ORA. These receptors range in type and include domestic, recreational and public receptors. Further details are provided in Attachment 6.

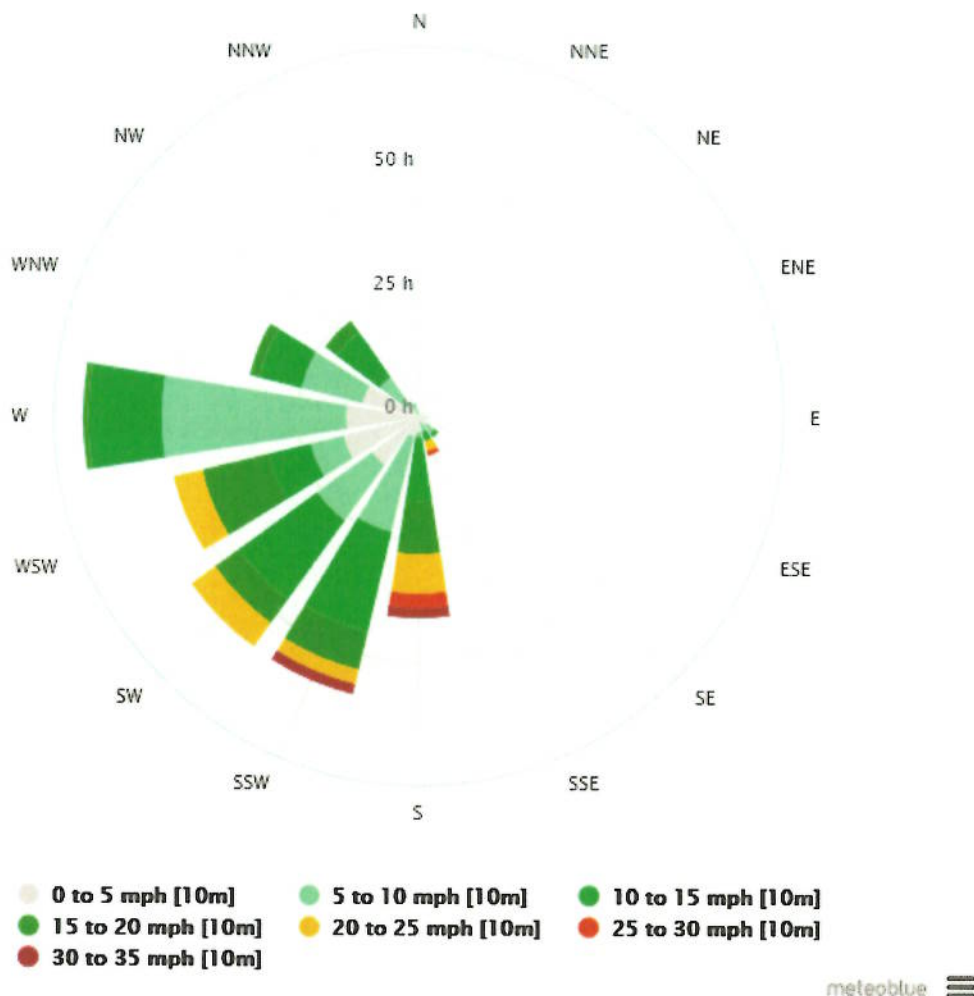
#### 4.6 Environmental Factors Affecting Odour

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The predominant wind direction that affects the site is West (see Figure.1 & 2 below), with both West North-Westerly and West South-Westerly winds being roughly equal (based on wind rose data). This would typically affect the M6 motorway or possibly the Holiday Inn to the North West. The potential odour sources are the existing abattoir operations, ETP and ABP storage. Of which, the ETP is most likely to cause a potential odour, as it is more exposed than the other sources.

Measures to control odours comprise of employing good practice, such as covering trailers, regular cleaning of the Lairage, monitoring and maintenance of the Effluent Treatment Plant and for waste material to be processed promptly after being generated. The DAF unit is forward fed in order to reduce effluent storage in the balance tank.



**Figure.1:** Wind Rose Data for *Dunbia (Preston)*, Bamber Bridge, PR5 6AJ from 13<sup>th</sup> January 2020 – 27<sup>th</sup> January 2020.

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[EGNH] BLACKPOOL AIRPOR  
 Windrose Plot [All Year]  
 Period of Record: 31 Dec 1972 - 07 Oct 2019

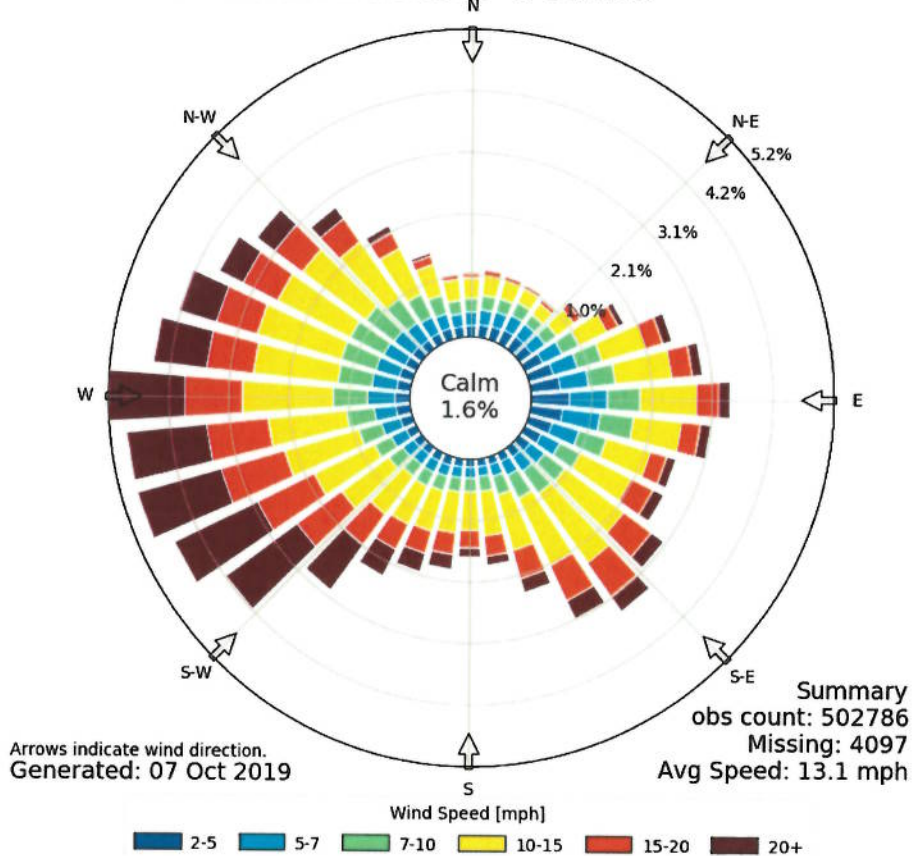


Figure.2: Wind rose data for Blackpool Airport from 31<sup>st</sup> January 1972 – 7<sup>th</sup> October 2019.

## 5.0 Summary of Extension Impact Assessment

The assessment completed as part of this odour management plan review has determined that no new odour sources will arise as part of the retail packing process extension. There will be a negligible increase in general waste generated (estimated increase 6.05 tonnes / week). This general waste will be contained in the existing general waste skip and is not expected to require any changes to existing collection frequencies. Therefore, the extension will not give rise to any significant increase in odour emissions.

This odour management plan assessed odour emissions from current activities and determined that existing odour controls were sufficient to suitably control odour emissions at Dunbia (Preston) from both existing activities and planned activities due to the retail packing activity extension, and no amendments were required to existing controls.

## 6.0 Superseded Document

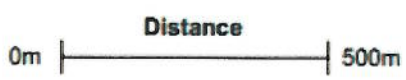
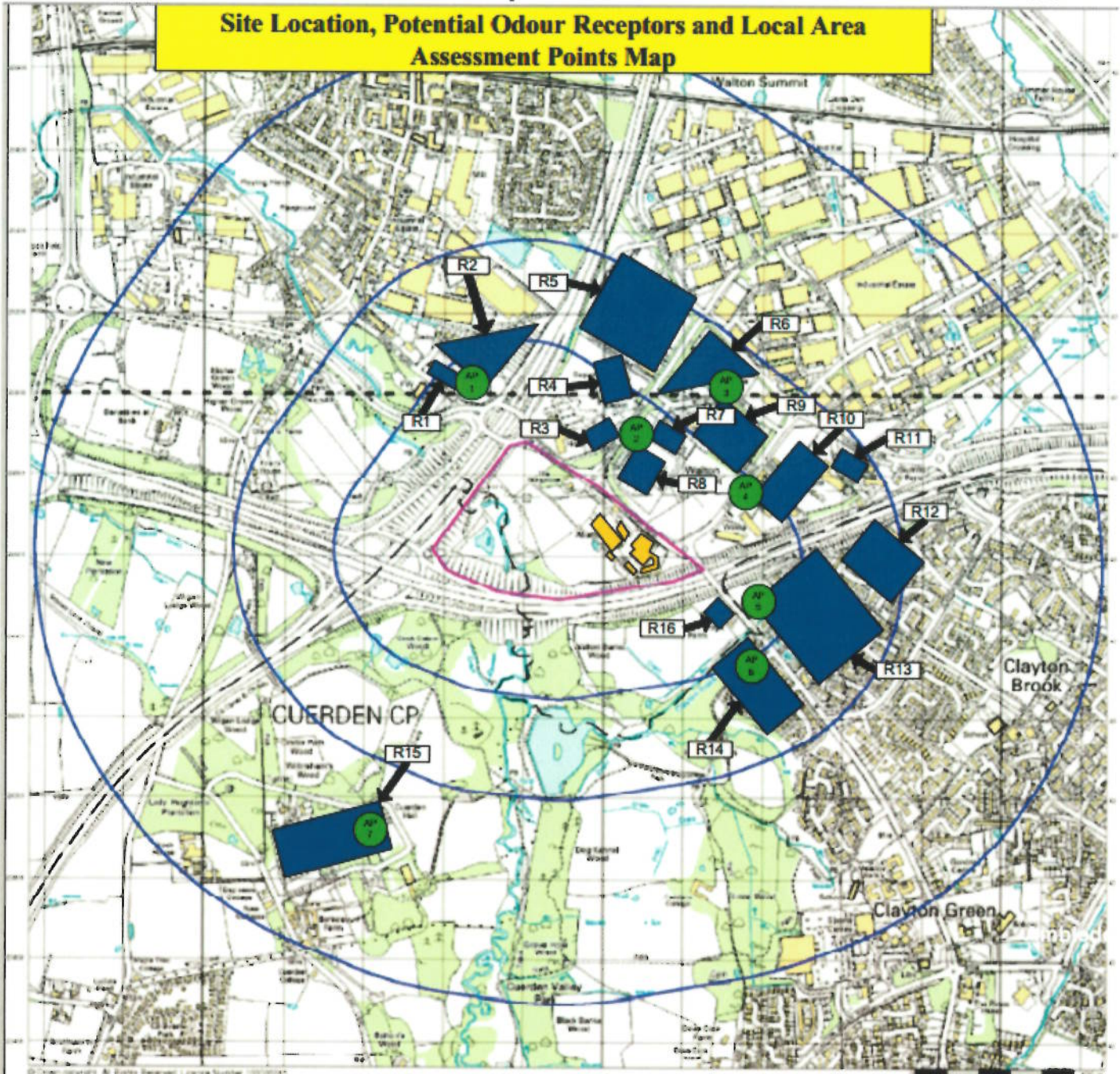
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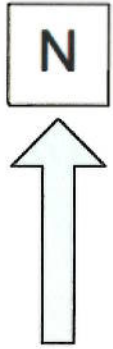
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# Attachment 1 – Offsite Local Receptor Odour Assessment Locations Plan

## Site Location, Potential Odour Receptors and Local Area Assessment Points Map



KEY	
	Local Area Assessment Point
	Site Boundary
	Potential Receptor
	Dunbia (Praston) Buildings



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## Attachment 2 – Offsite Odour Assessment Summary

Time of Test	14:00					Wind Direction – Light Westerly Wind.	Date: 22.01.2020
Location of Test (Assessment Point)	1 (Bridgeway School)	2 (Cuerden Hall – Care Centre – at Gate to Field)	3 (Corner of BCA Carpark)	4 (Environment Agency Offices – Beside Sign)	5 (Green Place – Beside Road Sign)	6 (Brookside Care Home – Beside Care Home Sign)	6 (Mallards Walk – at Right Side Turning Circle)
Weather Conditions	Foggy, Overcast, Dry	Foggy, Overcast, Dry	Foggy, Overcast, Dry	Foggy, Overcast, Dry	Foggy, Overcast, Dry	Foggy, Overcast, Dry	Foggy, Overcast, Dry
Temperature	8°C	8°C	8°C	8°C	8°C	8°C	8°C
Duration of Test	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes
Intensity	0	0	0	0	0	0	0
Offensiveness	0	0	0	0	0	0	0
Constant or Intermittent in this Period or Persistence.	No Odour	No Odour	No Odour	No Odour	No Odour	No Odour	No Odour
What Does it Smell Like?	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Receptor Sensitivity	High	High	Medium	Medium	Medium	High	Medium

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### Attachment 3 – Inventory of Potentially Odorous Material

Potentially Odorous Material	Source	Location	Management / Mitigation Measures
Animal By-Product (Including CAT1, CAT3, Belly Grass, Tripe Hides and Skins)	Site Processes	All ABP / belly grass trailers are held in the abattoir yard to the South East of the site. Midden is located to South of site.	Procedures for Waste ABP Storage, Spillage and Odour Management. Relevant staff are trained in these procedures. Trailers are kept covered when they are not in use.
Effluent Treatment Plant Including Effluent Pump Pits and lorrywash	Site Processes / Wash Down	Process effluent flows to an on-site Effluent Treatment Plant. The effluent is treated and discharged to sewer.	Procedures for Waste ABP Storage, Spillage and Odour Management. Relevant staff are trained in these procedures. Effluent plant is well serviced maintained.
General Waste Receptacles	Site Processes	General waste receptacles are situated around the site.	Procedures for Waste ABP Storage, Spillage and Odour Management. Staff are trained in these procedures. Waste receptacles are removed at regular intervals in covered containers to prevent against the production of odours.
Lairage	Site Processes / Wash Down / Wagon Wash	The lairage and associated processes are in yard to the South East.	Procedures for Waste ABP Storage, Spillage and Odour Management. Relevant staff are trained in these procedures. The lairage is regularly cleaned.
Storage of Blood	Slaughter Hall Processes	Refrigerated blood tanks are located in the ABP / abattoir yard.	Procedures for Waste ABP, Spillage and Odour Management. Relevant staff are trained in these procedures. Abattoir management will inspect the tanks on a periodic basis throughout each day. The waste contractor will check the system each day during collection. Blood is regularly removed from site.
Storage of Sludge	Site Processes	Sludge tank is located close to the ETP in the abattoir yard.	Procedures for Waste ABP Storage, Spillage and Odour Management. Relevant staff will be trained in these procedures. Sludge is regularly removed from site.

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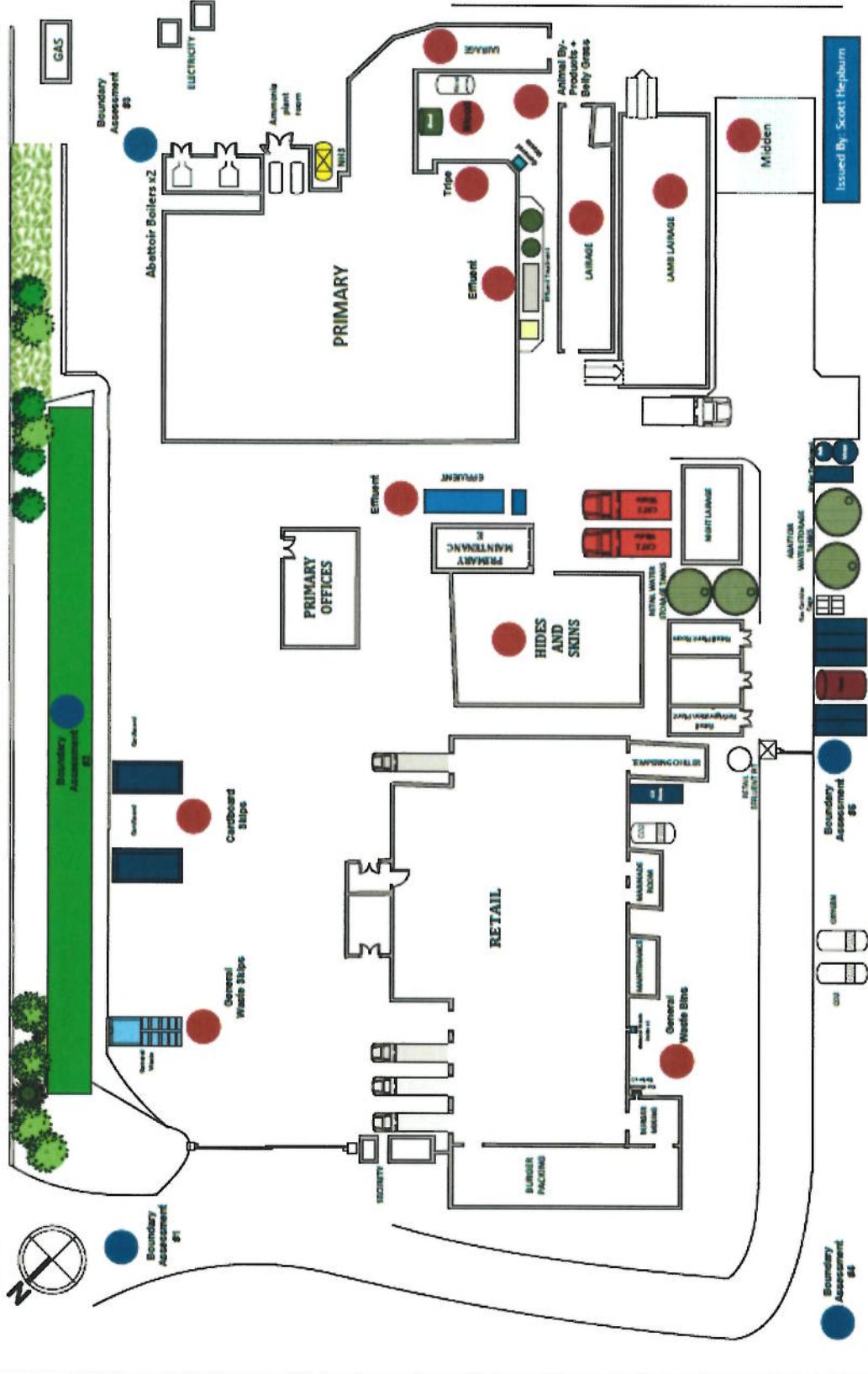
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# Attachment 4 – Dunbia (Preston) Site Boundary Odour Assessment Locations

EMS052 – Odour Boundary Assessment Locations and Receptors

Issue 1

20/09/2018



Issued By: Scott Hepburn

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## Attachment 5 – Odour Risk Assessment for Dunbia (Preston)

Odour Source Ref.	Date of Assessment	Location / Operation / Material	Details	Existing Control Measures	Intensity	Extent / Persistence	Offensiveness	References / Documents	Identify Possible Failures or Abnormal Situations	Potential Outcome if Failure Occurs	Additional Contingency Measures in Place	What Actions Are Taken in the Event of a Failure? Who is Responsible?
1	22/01/2020	ABP Bins – Removal from Slaughter Line	ABP bins are removed from the back of the abattoir yard and emptied into the ABP trailer as and when required.	<ul style="list-style-type: none"> <li>Tote bins and dolavs are emptied into the CAT 1 / 3 trailer.</li> <li>ABP waste is removed from site on a daily basis.</li> <li>CAT 1 / 3 trailer is kept covered when not in use.</li> <li>The area is cleaned on a daily basis.</li> </ul>	1	1	1	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management</p> <p>Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Spillage of waste.</li> <li>Bins not being emptied into the ABP trailer.</li> </ul>	Localised Odour.	<ul style="list-style-type: none"> <li>Spillage procedure in place detailing action to be taken, personnel to be notified, methods of clean up and the location of the materials required for clean up in the event of a spill.</li> </ul>	<ul style="list-style-type: none"> <li>Area will be closely monitored by abattoir managing and staff.</li> <li>Waste contractor can be contacted to organise an uplift as soon as possible.</li> </ul>
2	22/01/2020	Blood Tank	Storage of Blood.	<ul style="list-style-type: none"> <li>Pet food blood tanks are refrigerated.</li> <li>Blood is removed from site on a daily basis.</li> <li>The waste blood system is included in the site maintenance management system.</li> <li>Waste blood tanks are connected to an activated carbon filter, meaning any displaced air form within the tanks must pass through this filter prior to</li> </ul>	0	1	1	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management</p> <p>Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Failure of refrigeration system.</li> <li>Blood collection contractor unable to collect blood.</li> </ul>	Localised Odour.	<ul style="list-style-type: none"> <li>Spillage procedure in place detailing action to be taken, personnel to be notified, methods of clean up and the location of the materials required for clean up in the event of a spill.</li> <li>Tanks are checked on a periodic basis by abattoir management.</li> <li>An alarm will sound if there is an issue with temperature.</li> <li>If blood collection contractor can not</li> </ul>	<ul style="list-style-type: none"> <li>Planned Preventative Maintenance is in place for the blood tank system.</li> <li>The area is closely monitored by the Maintenance Manager.</li> <li>Any faults are to be reported immediately to the Maintenance Manager.</li> </ul>

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3	22/01/2020	CAT 1/3 Trailer	Category 1 and 3 trailers from the slaughter process.	<ul style="list-style-type: none"> <li>being discharged to atmosphere.</li> <li>ABP trailers are kept covered when not in use.</li> <li>ABP trailers are removed from site each day ensuring minimum time for material to decay and cause odour.</li> <li>The areas where trailers are stored drain to foul drainage.</li> <li>Trailers are washed offsite by waste contractor after each waste collection.</li> </ul>	1	1	1	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management</p> <p>Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Failure of waste contractor to remove waste from site periodically.</li> <li>Spillage of waste.</li> <li>Abnormally hot weather.</li> </ul>	Localised Odour.	<p>collect blood within 24Hours or required collection, to organise collection by another contractor.</p> <p>Waste Collection Failure:</p> <ul style="list-style-type: none"> <li>Contact Waste Contractor.</li> <li>If waste can not be collected within 24 hours, arrange collection by alternative contractor.</li> <li>Complete olfactory survey.</li> </ul> <p>Abnormally Hot Weather:</p> <ul style="list-style-type: none"> <li>Meteorological forecasts reviewed.</li> <li>Increased frequency of collections and cleaning.</li> <li>Complete olfactory surveys</li> </ul>	<ul style="list-style-type: none"> <li>Operations / Environmental Manager are informed and then the waste contractor will be contacted.</li> </ul>
4	22/01/2020	CAT 2 Trailer (Belly Grass)	Storage of CAT 2 (Belly Grass) waste before removal from site.	<ul style="list-style-type: none"> <li>Belly Grass is removed from site when required, usually twice weekly at minimum.</li> </ul>	2	1	2	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p>	<ul style="list-style-type: none"> <li>Failure of waste contractor to remove waste from site.</li> <li>Spillage of waste.</li> </ul>	Localised Odour.	<ul style="list-style-type: none"> <li>Spillage procedure in place detailing action to be taken, personnel to be notified, methods of clean up and the location of the materials required for clean up in the event of a spill.</li> </ul>	<ul style="list-style-type: none"> <li>Area is closely monitored by abattoir management.</li> <li>Waste contractor contacted to organise uplift as soon as possible.</li> </ul>

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5	22/01/2020	Effluent Treatment Plant	ETP area and adjacent effluent pit	<ul style="list-style-type: none"> <li>Screen waste is emptied into the ABP trailers continually throughout the day.</li> <li>Effluent Treatment Plant is monitored throughout the day.</li> <li>Cleaning and maintenance of ETP occurs.</li> <li>Tanks are covered which helps lower temperature of the effluent by avoiding direct sunlight and reduces air flow over surface of tanks – reducing evaporation rates and odour releases.</li> <li>Effluent is kept moving throughout the ETP system and is not stored for long periods of time and is mixed when held for short periods of time helping to</li> </ul>	3	1	2	<p>Waste Management Spillage Site Instruction.</p> <p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Spillage of gross waste from screen bin.</li> <li>Drainage system becomes clogged and could overflow through adjacent manholes and channels.</li> <li>Failure of key equipment</li> </ul>	Localised Odour.	<ul style="list-style-type: none"> <li>Area is cleaned on a daily basis.</li> <li>Spillage procedure in place detailing action to be taken, personnel to be notified, methods of clean up and the location of the materials required for clean up in the event of a spill.</li> <li>Area is cleaned regularly.</li> <li>Cleaners on hand for when the drains become blocked and back-ups of effluent cause overflows.</li> </ul>	<ul style="list-style-type: none"> <li>Area is closely monitored by the maintenance manager and team.</li> <li>Any faults are reported to the Maintenance Manager as soon as possible and repairs actioned ASAP.</li> </ul>

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6	22/01/2020	General Waste Skip & Collection Bins	General Waste Skip. And a number of General Waste Dolavs / Bins	<p>ensure it does not become anaerobic / septic.</p> <ul style="list-style-type: none"> <li>Screens are designed with automatic internal rotating brushes and hot water jet sprays, which ensure the internal sieve remains clean at all times.</li> <li>Pump pits are fitted with high level alarms.</li> </ul>	0	1	1	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management</p> <p>Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Waste skip not emptied as required by waste contractor and allowed to overflow.</li> <li>Build-up of recyclable waste.</li> <li>Abnormally hot weather may cause abnormal odour to build up</li> </ul>	<p>Localised odour. Housekeeping issues. Low likelihood of odour emanating from this area.</p>	<ul style="list-style-type: none"> <li>Operations / Environmental Manager are informed and then the waste contractor will be contacted.</li> </ul>	

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Odour Source Ref.	Date of Assessment	Location / Operation / Material	Details	Existing Control Measures	Intensity	Extent / Persistence	Offensiveness	References / Documents	Identify Possible Failures or Abnormal Situations	Potential Outcome if Failure Occurs	Additional Contingency Measures in Place	What Actions Are Taken in the Event of a Failure? Who is Responsible?
7	22/01/2020	Outside Lairage & Lorrywash	Lairage cleaned on a daily basis.	<p>waste accumulation occurs</p> <ul style="list-style-type: none"> <li>Cleaning occurs regularly around the vicinity.</li> <li>The lairage is cleaned on a regular basis, at least once daily.</li> <li>Livestock vehicles are cleaned on site after delivery of animals.</li> <li>Lorrywash is periodically cleaned.</li> <li>Lorrywash is angled to assist drainage, reducing potential for slurry or material build up.</li> <li>Underneath the lamb lairage is a collection area for lamb excrement – this is cleaned out periodically (dependent on production volumes) so as to prevent malodorous build up. This will be removed off-site After collection in the midden.</li> </ul>	1	1	1	<p>Communications and Complaints Procedure.</p> <p>Waste By-Products and Storage Procedure.</p> <p>Spillage Procedure.</p> <p>Waste Management .</p> <p>Spillage Site Instruction.</p>	<ul style="list-style-type: none"> <li>Blockage of lorrywash drain.</li> </ul>	Localised Odour	<ul style="list-style-type: none"> <li>Manually unblock as soon as possible using jetting equipment.</li> <li>Contact private drainage service if necessary.</li> <li>Contractor to tanker to prevent excessive build up and stagnation if necessary.</li> </ul>	<ul style="list-style-type: none"> <li>Operations Manager contacted, and actions agreed with HSE Manager and Maintenance Manager.</li> </ul>
8	22/01/2020	Hides and Skins	Hides and Skins	<ul style="list-style-type: none"> <li>Hides and skins activities occur within a</li> </ul>	2	1	2	Communications and	<ul style="list-style-type: none"> <li>No salt available.</li> </ul>	Localised odour	<ul style="list-style-type: none"> <li>Additional salt can be ordered from a</li> </ul>	<ul style="list-style-type: none"> <li>Hides and Skins shed Manager manages level of</li> </ul>

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Odour Source Ref.	Date of Assessment	Location / Operation / Material	Details	Existing Control Measures	Intensity	Extent / Persistence	Offensiveness	References / Documents	Identify Possible Failures or Abnormal Situations	Potential Outcome if Failure Occurs	Additional Contingency Measures in Place	What Actions Are Taken in the Event of a Failure? Who is Responsible?
9	22/01/2020	Tripe Washing	Tripe washing area	designated building that is covered. <ul style="list-style-type: none"> <li>Hides and skins are salted for preservation purposes, which aids in slowing the decay process.</li> <li>Dry cleaning occurs in Hides and skins building and wash down when required.</li> <li>The salt tumbler is loaded form within the processing building.</li> </ul>	2	1	2	Complaints Procedure. Waste By-Products and Storage Procedure. Spillage Procedure. Waste Management Spillage Site Instruction.	<ul style="list-style-type: none"> <li>Over stocking of Hides and Skins</li> </ul>	Localised odour	<ul style="list-style-type: none"> <li>Manually unblock as soon as possible using jetting equipment.</li> <li>Contact private drainage service if necessary.</li> <li>Contractor to tanker to prevent excessive build up and stagnation if necessary.</li> </ul>	<ul style="list-style-type: none"> <li>Operations Manager contacted, and actions agreed with HSE Manager and Maintenance Manager.</li> <li>Planned Preventative Maintenance is in place for the tripe washing process and associated chills</li> <li>The area is closely monitored by the Maintenance Manager.</li> <li>Any faults are to be reported immediately to the Maintenance Manager and acted on as required.</li> </ul>
			Tripe washing area	<ul style="list-style-type: none"> <li>Process occurs in main building and is therefore fully enclosed.</li> <li>The tripe production room is washed down at the end of the production day and is dry cleaned throughout each day as required.</li> <li>Washed tripe is moved to a dedicated chill, prior to dispatch, ensuring product remains fresh and odour is minimised.</li> </ul>				Communications and Complaints Procedure. Waste By-Products and Storage Procedure. Spillage Procedure. Waste Management Spillage Site Instruction.	<ul style="list-style-type: none"> <li>Refrigeration failure.</li> <li>Drain in production area becomes blocked.</li> </ul>			<ul style="list-style-type: none"> <li>Operations Manager contacted, and actions agreed with HSE Manager and Maintenance Manager.</li> <li>Planned Preventative Maintenance is in place for the tripe washing process and associated chills</li> <li>The area is closely monitored by the Maintenance Manager.</li> <li>Any faults are to be reported immediately to the Maintenance Manager and acted on as required.</li> </ul>

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## Attachment 6 – Local Odour Receptors for Dunbia (Preston)

Local Odour Receptor	Receptor Type	Distance from Nearest Odour Source to Nearest Receptor (Meters)	Heading from Site
Bridgeway School and various adjacent domestic dwellings	Public & Domestic	446	North-West
Cuerden Hall Care Home	Domestic & Public	891	South West
BCA Car Auction	Public	162	North
Holiday Inn Express	Public	270	North
Various Offices and Industrial Units adjacent to Environment Agency Offices	Public	243	North-East
Various Offices and Industrial Units adjacent to Green Place	Public	473	North-East
Brookside Care Home and Various adjacent domestic dwellings	Domestic	243	South-East
Various domestic dwellings adjacent to Mallards Walk	Domestic	284	South-East

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# Attachment 7 –Dunbia (Preston) Completed Odour Assessment Sheets

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# Odour Audit / Survey Record

EMS051R - Issue 2 - 21/01/2020



If a score of 12 or over is reached then a corrective action is to be raised and a full investigation is to be carried out to isolate the issue. If score is below 12, no further action is required.

Installation: <i>Dunbia (Preston)</i>	Date: <i>22/01/2020</i>
Weather: <i>foggy / overcast</i>	Wind Direction / Strength: <i>Westerly 4 mph</i>
Temperature: <i>8°C</i>	Cloud Cover: <i>100%</i>
Start Time: <i>16:35</i>	Finish Time: <i>17:15</i>

Complaint Received: (Yes / No)	<i>No</i>	Date / Time	<i>Not Applicable</i>
Location of Complaint Area	<i>Not Applicable</i>	Number of Complaints	<i>Not Applicable</i>
Time Noticed & Duration	<i>Not Applicable - Management Plan Review Assessment Not Compliant</i>		

Map Reference	Intensity (0-5)	Extent (0-5)	Sensitivity (0-5)	Offensiveness (0-5)	Score	External Sources	Corrective Action (if Required)
Assessment Point #1 Site Entrance SD 56981 24771	0	0	0	0	0	None	None
Assessment Point #2 Base of CCTV Camera Post Adjacent Cardboard Skip SD 57045 24702	0	0	0	0	0	None	None
Assessment Point #3 Corner of Site Adjacent to Primary Boiler House SD 57137 24623	0	0	0	0	0	None	None
Assessment Point #4 Adjacent to Electric Cable Gantry Beside Security SD 56870 24711	0	0	0	0	0	None	None
Assessment Point #5 Boundary Beside West Corner on Access Road SD 56981 24611	0	0	0	0	0	None	None

Additional Comments

*No Odour detected at site boundary points during survey*

Signature

*V. Kerr*

Print Name

*Victoria Kerr*

Action Required

*None*

# Odour Audit / Survey Record

EMS051AR - Issue 1 - 21/01/2020



The priority rating applied in this plan does not intend to disregard odour sources on the site but has been used to provide a focus to odour management on the Dunbia (Preston) site.

Installation	Dunbia (Preston)	Date	22/01/2020
Weather	foggy / overcast	Wind Direction / Strength	Westerly 4 mph
Temperature	8°C	Cloud Cover	100%
Start Time	15:00	Finish Time	16:35

Complaint Received (Yes / No)	No	Date / Time	Not Applicable
Location of Complainant Area	Not Applicable	Number of Complaints	Not Applicable
Time Method & Duration: Not Applicable - Management Plan Review Assessment Not Compliant			

Map Reference	Intensity (0 - 6)	Extent / Persistence (0 - 5)	Sensitivity (0 - 4)	Offensiveness (0 - 3)	Score
Assessment Point #1 Bridgeway School SD 56515 25039	0	0	0	0	0
Assessment Point #2 Cuenden Hill Care Centre SD 56428 23957	0	0	0	0	0
Assessment Point #3 Carpark SD 57046 24898	0	0	0	0	0
Assessment Point #4 EA Offices SD 57219 25012	0	0	0	0	0
Assessment Point #5 Green Place SD 57397 24840	0	0	0	0	0
Assessment Point #6 Brookside Care Home SD 27420 24450	0	0	0	0	0
Assessment Point #7 Mallards Walk SD 57387 24337	0	0	0	0	0

Additional Comments: No odour detected during survey

Signature: *V Kent* | Print Name: Victoria Kent

Action Required: None