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Able Waste Services Limited
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Able Waste Services Ltd **43 Imperial Way, Croydon** **Odour Management** **Plan**



Able Waste Services Ltd

Odour Management Plan

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This document forms part of the Environmental Management System.

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1. Introduction

Report Context

This Odour Management Plan (OMP) is to accompany a variation application to bespoke for the waste transfer station at 43 Imperial Way, Croydon, Surrey, CR0 4RR .

This OMP assesses potential risks of fugitive emissions from operations at the site, considers the impact of identified receptors and sets out the required mitigation measures for the management of any odour emissions arising.

The OMP is part of the Environmental Management System (EMS) for the site and is for use by management and site operators. A copy will be located within the site office.

This OMP has been prepared using Environment Agency guidance note 'H4 Odour Management'. It is specified in the H4 guidance that the operator must 'employ the appropriate measures necessary to prevent the odour pollution or minimise it when prevention is not practicable'.

The operator undertakes the storage and treatment of non-hazardous commercial, industrial and household waste within a transfer station.

As required by the H4 guidance document, the OMP seeks to:

- Employ appropriate methods, including monitoring and contingencies, to control and minimise odour pollution.
- Prevent unacceptable levels of odour at all times
- Reduce the risk of odour releasing incidents or accidents by anticipating them and planning accordingly.

To meet the above objectives, this OMP considers the potential sources, releases and impacts of odour pollution and identifies appropriate opportunities for odour management.

Sensitive Receptors

A receptor is defined as something that could be adversely affected by a pollutant. Based on a desk-based research, information provided by the client and information relating to its environmental setting TPC has identified the receptors within the vicinity of the site. A summary of the identified receptors is provided in Table 1.1.

Table 1.1 Summary of identified receptors.

Receptor	Location
Designated Ecological Sites: There are no statutory designated ecologically sensitive sites located within a 1km of the site.	>1km
The site is surrounded by industrial area, furthering to green spaces, residential areas, schools and recreational areas.	<1km

2. Operations at site

The site is a non-hazardous commercial, industrial and household transfer station. The materials to be accepted on site will consist of those listed within Table 2.2 of SR2022 No4.

This is located in an industrial area, with neighbouring land uses including green spaces, other industrial units and residential property.

The standard operating hours for the facility are:

- Monday -Friday 07:00-17:00
- Saturday 08:00 -13:30

The site will not undertake operations (including waste reception) on Sundays or Public Holidays. Wastes will be accepted onto site from 08:00 up to 30 prior to the site closing. processing will continue until the end of the working day.

Inventory of Potentially Odorous Waste Streams

The incoming waste will comprise of mixed non-hazardous waste, including soil, garden waste and household waste, all waste streams have the potential of being odorous.

Odour Generation Potential

Waste pre-acceptance and acceptance procedures specify that odours materials are not to be received on site, and materials that are deemed to be odorous will not be accepted. The materials brought on site will be stored and treated inside the building, therefor limiting the potential for odours to be released.

The EMS describes the waste pre-acceptance and acceptance procedures and specifies the thresholds by which wastes will not be acceptable at the site.

The components of odorous compounds in the waste are likely to vary depending on proportion of the incoming waste accepted. Odour tends to consist of gases released from the biological breakdown of organic matter within the waste types, of which has the potential to generate odour.

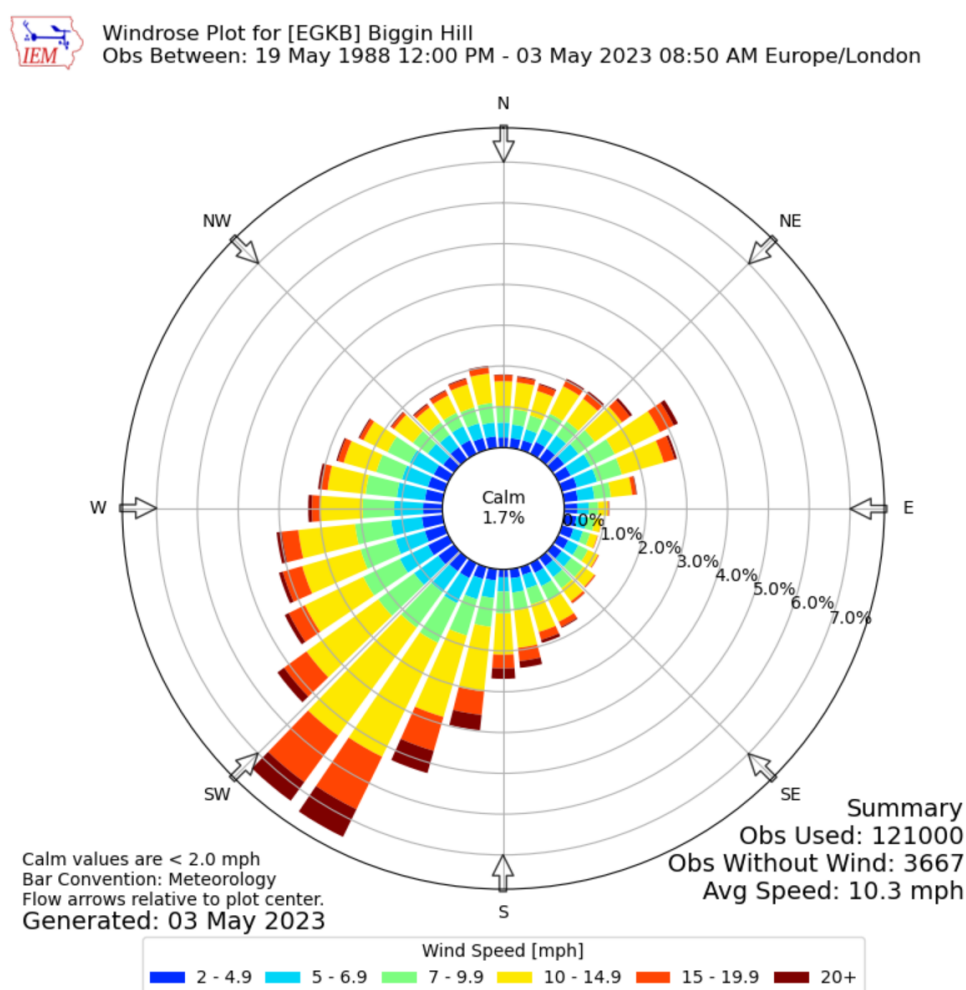
3. Odour Pathways

Odour Pathway Characterisation

The principal mechanism for the transit of odorous emissions from site operations to adjacent sensitive receptors is via ambient air. The distance that the emissions will be carried is determined by factors such as meteorological conditions and topography.

Meteorological Conditions

A Windrose providing the frequency of wind speed and direction from the Biggin hill Airport Meteorological Station for the period of 2018 is presented below. The Windrose shows that the most prominent wind direction is from the Southwest to the Northeast. Winds from the north, east and south are relatively infrequent.



Air Temperature: Warm air may carry odours upwards by convection for their dispersal away from the site. However, warm weather will encourage the onset of biodegradation of exposed or temporarily stored wastes and therefore increase odour potential. Therefore, in the summer months the risk of odour emissions is greater. However, due to material storage and processing being undertaken within a building, the effect of temperature will be negated.

Topography

The topography of the site and the surrounding area can influence the potential dispersion of odour emissions. The site is situated within a commercial/industrial area with green spaces down wind of the site and commercial and industrial areas upwind.

4. Potential Impacts

Impacts associated with odour

In order to minimise the impacts of odour pollution, it is necessary to have an understanding of the surrounding community and how odour emissions could affect the people living nearby. The potential receptors are identified in Table 1.1. the potential impacts of odour emissions are as follows:

- Damage to local amenity – members of the public may choose not visit area that they perceive are affected by odour emissions.
- Damage to human health – some members of the public may be severely affected by odour emissions due to the existing health conditions or enhanced sensitivity, and odour emissions due to existing health conditions or enhanced sensitivity.
- Nuisance - members of the public may perceive odour emissions as a nuisance.

The facility is located within a predominately industrial setting with the nearest residential housing located approximately 260m away from the site boundary and a sports facility the runs parallel with the boundary line. Due to the industrial setting and green areas to the south there are limited receptors that likely to be affected by nuisance.

5. Odour Management

Odour Control Measures

The H4 guidance requires OMP provides specific details regarding the proposed control measures that will be in place to control odour.

For clarity, the guidance document H4 Odour Management (2011) has been referred to inform the odour control methods that will be implemented at the facility.

There will be specific control measures in place to minimise the risk of the emission of odours beyond the site boundary. These measures, which relate to the operation of the site during normal conditions, have been specified in relation to each potential odour source and are described below.

For details relating to control of odour during abnormal conditions, see Section 7.

Receipt of Potentially Odours Waste

The operator will perform waste pre-acceptance and acceptance procedures.

Prior to waste being transported onto site, all loads will be inspected by the drivers to make sure all waste types fall in line with those detailed within the permit and that the waste is containerised correctly for transport and is safe to be transport/brought onto site. For loads that fail the initial check the driver will be required to contact management, and the customer will be advised of the correct disposal of the waste before the original load (if not contaminated) can be collected.

The access roads will be inspected on a daily basis as part of routine site inspections and cleaning or sweeping of the access roads and site will be instigated to prevent track-out of any spilled materials if deemed warranted at the time.

All incoming loads will be inspected upon arrival at the waste reception area (tipping hall) by site operatives to check its compliance against the permit for the load is allowed to be tipped.

Third party tippers will have their loads inspected at the gate by site operatives before proceeding to the tipping hall area before a secondary check will be performed before it can be authorised to be tipped, if the load fails these checks the tipper will be rejected and turned away from site.

Storage of Potentially Odorous Waste

Waste will be stored only within the designated storage areas, wood, plasterboard, paper/cardboard and mixed waste will be stored within an internal bay. Wastes are unloaded into the waste reception area before being segregated and transferred to their designated storage areas.

To minimise the risk of incoming waste streams generating odours that could migrate from the site, waste retention will be kept to minimum. The incoming waste streams will normally be processed from the site within 48 hours.

Routine olfactory monitoring will be undertaken daily by any an appointed person to detect any odours that may be migrating beyond the site boundary. Monitoring will be undertaken by site operatives during waste handling operations.

Site Cleanliness

Procedures will be in place to ensure that the site is maintained to a high standard of cleanliness. The site has an Environmental Management System (EMS) which contains the maintenance and cleaning procedures.

In summary:

All areas of the site, including the waste reception, storage and treatment areas and items of plant and machinery will be inspected routinely. If considered necessary, additional housekeeping techniques will be employed. All inspections will be recorded in line with the EMS and will be undertaken by appropriately trained personnel.

All areas of site, including the waste reception, storage and treatment area and items of plant and machinery will be cleaned down as appropriate upon finding from the regular inspections if deemed necessary to do so above the routine cleaning schedule.

All site operatives will be vigilant and will inform a senior member of staff if they notice that the site is unclean or the high levels of odour are being generated at the site.

6. Monitoring

Monitoring

Odour monitoring will be undertaken in order to assess the effectiveness of the control measures described above. If fugitive odour is identified, then immediate remedial actions will be implemented.

The monitoring will provide an ongoing record of any odour events, and this record can then be referred to if there are any odour complaints.

General Monitoring

All site personnel will be vigilant and will report odour problems to the Site Manager or deputy.

The Site Manager will record any reported odour issue in line with the IMS.

Off-Site Odour Monitoring

A subjective sniff testing exercise will be undertaken each day that the site is operational. Sniff testing will also be undertaken should there be any complaints relating to odour at the site.

The assessor will be a member of site personnel who is trained in the procedure. The assessor will be a member of staff who is based mainly inside the site office. Being located within a building the operative is likely to be less exposed to site odours and therefore less likely to be desensitised.

To ensure that the assessor is not suffering from odour fatigue, they will not enter the waste building on the day of assessment until they have completed the monitoring exercise. The assessor must also not be suffering from a cold, sinusitis, or a sore throat as these may affect their sense of smell. In addition, the assessor should be a non-smoker and will avoid food and drink (except water) for at least half an hour before undertaking the assessment. These measures will ensure that the results of the assessment are robust reliable.

The assessor will make an olfactory assessment of odours near the site and identify their source.

The meteorological conditions during the assessment will be recorded and any relevant information to site operations will be noted. A note will also be made if there are any other noticeable sources of odour in the vicinity.

The exact locations for monitoring will depend on the meteorological conditions at the time of the exercise.

7. Abnormal Events and Contingency Plans

Possible Abnormal Events

Potential abnormal events that may result in the generation of odour have been considered in order to identify and implement contingency measures. Abnormal events will be recorded in line with the EMS along with the actions taken in response. If deemed necessary, operational procedures may be reviewed and amended following the event.

In the event abnormal odourise waste is accepted onto site it must be quarantined within the building.

The identified abnormal events and response measures and contingencies are presented in Table 9.2.

8. Reporting and Complaints Response

Purpose of Complaints Procedure

The Environment Agency H4 guidance details that an OMP should demonstrate how the operator will respond to complaints. Complaints should be investigated within one working day, and appropriate remedial actions should be taken. The complainant and anyone else likely to be affected should be informed of any actions taken in response to the complaint.

A procedure has been developed (see Table 8.1) to ensure that complaints will be handled in accordance with the requirements of H4. The procedure will be reviewed on an annual basis or in the event of any significant odour issues.

Complaints Reporting Route

To ensure that members of the public are easily able to report any complaints relating to odour emission from site, there is a display board at the site entrance which details the site name, the permit number, the Environment Agency's contact details and the operator contact details.

Complaints Records

Auditable records will be kept of any complaints made and the investigations undertaken. This will provide an ongoing record of the cause of odour incidents which will enable the operator to identify any patterns which would prompt a review in odour management procedures and control measures.

Table 8.1: Odour complaints procedure

Action	Person responsible for ensuring actions is carried out	Timescale for action completion
1. The Site Manager will be notified of the complaint and will inform site personnel. The complaint will be formally recorded using the Complaint Record sheet contained within the sites EMS.	Site Manager	Within one working day of the receipt of the complaint.

2. The complaint will be investigated by: - Checking the odour monitoring records to see whether the complaint corresponds to the monitoring records. - Checking the Site Diary and Waste Acceptance Records to see if any particularly odorous waste was accepted. - Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site. If the cause of the complaint is established, it will be recorded within the Complaints Record Sheet.	Site Manager	Within one working day of the receipt of the complaint.
3. If a number of complaints are received about a particular incident, then it may be necessary to increase the frequency of odour monitoring until the issue is resolved.	Site Manager	Review of updates and procedures, within seven working days of the receipt of the complaint. If deemed necessary a mobile odour suppression unit will be brought onto site until the issue is resolved.
4. The Site Manager will instigate any necessary reviews of procedures and will implement any required changes.	Site Manager	Review of updates and procedures, within seven working days of the receipt of the complaint.
5. The complainant and the Environment Agency will be informed of any corrective actions taken.	Site Manager	As soon as possible. May be up to seven working days from receipt of the complaint depending on the complexity of the issue and resolution measures required. The EA officer responsible for the site will be updated daily (working days) during this period.
6. A follow up audit on the corrective actions will be undertaken to ensure the preventative procedure	Site Manager	Within two weeks of receipt of the complaint.

was effective and to determine if any additional actions are required.		
7. Once the follow up audit has been completed, the Site Manager will ensure that the complaint and any action taken and the effectiveness of that action are recorded in the EMS. This record will also note any amendments to procedures which may be required following the investigation.	Site Manager	Within two weeks of receipt of the complaint.

9. Reporting and Complaints Response

Table 9.1: Odour Emission Risk Assessment and Management Plan – Normal Operations

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
Odours resulting from delivery of accepted contaminated solid wastes	Occupiers of domestic dwellings listed in Table 1.1 Industrial and commercial premises listed in Table 1.1 Green spaces	Atmosphere	Assessment of each waste load against waste pre-acceptance and acceptance criteria. Wastes are inspected upon arrival at the site and any odorous loads will be rejected. Potential odourise wastes will be stored inside of the building. Waste pile can be damped down	Unlikely	Local nuisance from odour	Low

			if deemed necessary			
Odours resulting from storage of accepted wastes prior to treatment.	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Wastes only to be stored in designated storage areas. Regular maintenance and cleaning of waste storage areas when appropriate. Odour monitoring procedures in place.	Unlikely due to control measures that will in place	Local nuisance from odour	Low
Odours resulting from the physical treatment of waste (trommelling)	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Odour monitoring procedures in place. Potential odours waste can be dampened down if deemed necessary.	Unlikely due to control measures.	Local nuisance from odour.	Low

Breakdown of plant	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	The site operates a planned preventative maintenance programme for all plant and equipment on site and will maintain critical spares for those items that could potentially lead to odour being generated. If the failure is for an extended period, the site will cease the acceptance and treatment of waste. A decision as to whether the transfer of waste off-site in an abnormal event will be made within 48 hours.	Unlikely due to control measures that will be put in place.	Local nuisance from odour.	Low
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Power Failure	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Electricity is supplied to the site from the National Grid. Extended power outages are not common. If the failure is for an extended period, the site will cease the acceptance of waste. A decision as to whether the transfer of waste off-site is abnormal event will be made within 48 hours.	Unlikely due to control measures that will be put in place.	Local nuisance from odour	Very low
Restricted staff availability causing increased emissions due to backlogged materials	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial	Atmosphere	The Site Manager will ensure that they have appropriately trained staff members to which they can delegate their	Unlikely due to control measures	Local nuisance from odour.	Very Low

	premises listed within Table 1.1 Green Spaces		role should they be unavailable. The site management will maintain a staff resource plan that ensures that sufficient numbers of staff are available to undertake each role. If required additional staff may be hired on a temporary basis. In the unlikely event of there being insufficient staff, wastes would not be accepted onto site. If it deemed that there are insufficient			
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			qualified staff, wastes would not being accepted at the site. In the highly unlikely event that activities were suspended for an extended period of time due to staff shortages, then the wastes already present on site			
Extreme wind and gales	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Waste Materials are stored in dedicated bays, some within the building depending on the waste type. Wastes like not be tipped, transport out doors during bad weather	Unlikely due to control measure that will be put in place	Local nuisance from odour.	Very Low.

			conditions subject to Met Office weather warnings for rain and wind.			
Extreme cold, weather/snowfall	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Weather conditions will be monitored using Met Office forecasts. If possible, snow will be cleared to enable normal access into and within the area.	Unlikely due to control measures that will be put in place.	Local nuisance from odour	Very Low
Fire	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	The site will be managed under an Fire Prevention Plan of which is signed off by the EA. All criteria and procedures set out within the FPP will be adhered too and	Low	Local nuisance from odour/smoke.	Low

			annual reviewal will be done or sooner if deemed warranted.			
Flooding	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	Should flooding occur on site, operations will be temporally suspended and no further waste will be accepted on site. If necessary, wastes will be transferred off-site to an appropriately permitted facility.	Unlikely due to control measures that will be put in place.	Local nuisance from odour	Very Low
Unexpected large loads of waste received.	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1	Atmosphere	The Site Manager will undertake inspections at the end of each working day to ensure that the site is clean, and that abatement	Unlikely due to control measures that will be put in place.	Local nuisance	Very low

	Green Spaces		equipment is working.			
Poor housekeeping	Occupiers of domestic dwellings listed in Table 1.1. Industrial and commercial premises listed within Table 1.1 Green Spaces	Atmosphere	The Site Manager will undertake inspections at the end of each working day to ensure that the site is clean.	Unlikely due to control measures that will be put in place.	Local nuisance from odour.	Low

10. Reporting and Complaints Response

The Odour Management Plan has been developed in support of an application for a Bespoke Environmental Permit for a non-hazardous commercial, industrial and household transfer station.

The information contained within the assessment detailed in Table 9.1 and 9.2 indicates that site activities are unlikely to cause any disturbance to nearby sensitive receptors as a result of site operations.

The proposed operations are unlikely to produce odour due to the management system in place.

Due to the above measures, we conclude that it is unlikely that local receptors will be impacted by the proposal.

[End of Document](#)

Appendix A: Sensitive Receptor Plan

Able Waste - Receptor Plan

Imperial way, Croydon, CR0 4RR



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