

KIBWORTH RECYCLING AND
HOUSEHOLD WASTE SITE

DUST MANAGEMENT PLAN

LEICESTERSHIRE COUNTY COUNCIL

JULY 2021



SUMMARY TABLE	
SITE:	Kibworth Recycling and Household Waste Site – Dust Management Plan
SITE ADDRESS:	Harborough Road, Kibworth, Leicestershire, LE8 0EX
CLIENT:	Leicestershire County Council
DATE:	July 2021
REFERENCE	IV.342.19
DEVELOPMENT PROPOSAL:	Operation of a Recycling and Household Waste Facility

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CONTENTS

1.0	REVIEW	1
2.0	INTRODUCTION	2
3.0	SITE OPERATIONS.....	3
4.0	DUST AND PARTICULATE (PM10) MANAGEMENT	13
5.0	CONCLUSION	25

APPENDICES

Appendix A	Environmental Permit Boundary site plan
Appendix B	Site Layout Plan
Appendix C	List of Permitted Wastes
Appendix D	Site Condition Log
Appendix E	Receptor Plan

1.0 REVIEW

1.1 Document Review Procedures

This Dust Management Plan is to be reviewed every year or when required by a change in operations, breach of permit, or substantial dust emissions.

Table 1: Document Review

Date of Review	Comments	Name and Signature of Reviewer	Date of Next Review
July 2021	Plan Prepared		July 2022

2.0 INTRODUCTION

2.1 Report Context

This Dust Management Plan (DMP) has been prepared by Ivy House Environmental Limited (Ivy) on behalf of the Operator, Leicestershire County Council (LCC) as part of the management of the proposed Recycling and Household Waste Site at Kibworth. This document has been prepared using the relevant Environment Agency guidance, as is detailed in the document.

This report assesses the risk of dust at the facility and provides details of the dust management procedures that will be in place to control any emissions at the facility. The purpose of this is to ensure that the risk of adverse dust impacts on potential nearby receptors is minimised.

This Dust Management Plan has been produced in accordance with Environment Agency's 'Dust & Particulate Emission Management Plan' Template. The report identifies the potential causes and effects of dust, and describes the measures that will be in place to prevent the occurrence of dust at the site.

As required by the guidance document, the DMP seeks to:

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

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

3.0 SITE OPERATIONS

Kibworth Recycling and Household Waste Site will be located approximately 1km south of Kibworth and 15.3 km northeast of the city of Leicester. The site will be situated within agricultural land with the A6 to the south of the site and a railway to the north of the site. The site will be centred at approximate National Grid Reference (NGR) SP 69822 93236.

The site location and the environmental permit boundary is provided on Drawing Number M00460-MAB-00-ZZ-DR-A-1100-S4-P02 in Appendix A.

Access for staff and visitors to the site will be achieved via Harborough Road (A6), which is located to the south of the site. The nearest residential dwelling is located approximately 670m northwest of the site on Harborough Road.

The site is to be a Recycling & Household Waste Site with additional wastes being accepted from commercial contracts. The site will consist of two areas, a Recycling & Household Waste Site area (RHWS) where members of the public will be able to drop off unwanted items and waste items, and a Bulking Area where wastes received via HGV's will be bulked for onwards transport.

The main Recycling & Household Waste Site yard boasts a number of Roll on Roll off (RoRo) containers which will store separate waste streams (metals, plastics, bottles, paper, hard core, plaster board, green wastes, wood wastes, cement bonded asbestos etc), as well as a canopied area for WEEE wastes (televisions, fridges, computers etc) and a separate area for liquid wastes which will be contained in appropriate tanks that are double skinned (oil's, fats, paints etc). In addition, batteries and fluorescent tubes will also be stored within the WEEE area in appropriate containers.

The public will be greeted upon arrival where they will be questioned about what waste they are wanting to deposit and will be directed to the relevant drop off point within the Recycling & Household Waste Site area.

The waste brought to the site by HGV vehicles will be separate to that brought to the site via public's vehicles. HGV vehicles will be directed to the Bulking Area where they will unload the waste directly into the relevant bay for inspection (the Bulking Area is located to the west of the site as per Site Layout Drawing Number M00460-MAB-00-ZZ-DR-A-1101-S4-P02). The Bulking Area will have covered/canopied storage bays to the west which will contain green wastes, wood wastes and other 'residual waste'.

In addition, the site will have designated storage areas for hazardous and non-hazardous wastes, oils, fats and paints to ensure that hazardous wastes do not mix with non-hazardous wastes.

The site will be fully bunded with sealed drainage. The site will contain any quarantined waste in containers/separate area within the Bulking Area which will be covered with tarpaulin if required (this will ensure that quarantined wastes do not contaminate those which have been deemed suitable for acceptance on the site) as well as a fire quarantine area.

3.1 Operating Hours

The facility is designed to be operational between the following hours:

- 06:00 – 20:00

The facility will operate seven day per week, including public holidays, with the exclusion of Christmas Day, Boxing Day and New Year's Day.

As detailed in the Environment Permit Application, Leicestershire County Council will undertake the following Disposal and Recovery operations, provided for in Annex II to Directive 2008/98/EC of The Council of 19th November.

Table 2: Recovery and Disposal Activities

R/D Code	Activity
R13	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced);
D14	Repackaging prior to submission to any of the operations numbered D1 to D13;
D9	Physico-chemical treatment not specified elsewhere in Annex II which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12;
R3	Recycling/Reclamation of organic substances which are not used as solvents
R4	Recycling/Reclamation of metals and metal compounds
R5	Recycling/Reclamation of other inorganic materials.

The site will ensure that there are no more than 50 tonnes of hazardous wastes onsite at any one time.

3.2 Permitted Waste Types

Waste types to be accepted into the facility and their potential to create dust emissions are set out in Appendix C of this document.

Table 3 below lists waste types that have a high dust potential with an outline of the handling and processes they will be subjected to and storage arrangements.

Table 3. Waste types with high dust potential

EWC	Description	Storage and handling details
03 01 04*	sawdust, shavings, cuttings, wood, particle board and veneer containing hazardous substances	Waste delivered in sheeted/covered vehicles or in enclosed containers. Waste deposited within the confines of the covered/canopied bays. No treatment of waste only storage.
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	Waste delivered in sheeted/covered vehicles or in enclosed containers. Waste deposited within the confines of the covered/canopied bays. No treatment of waste only storage.
20 01 41	wastes from chimney sweeping	Waste delivered in sheeted/covered vehicles or in enclosed containers. Waste deposited within the confines of the covered/canopied bays. No treatment of waste only storage.

3.3 Waste Acceptance Procedures

The site will comply with the waste acceptance procedures outlined in the Operating Techniques. Below is the summary of the acceptance procedures for the Recycling & Household Waste Site area and Bulking Area.

Recycling & Household Waste Site area

When arriving at the site members of the public will be greeted by meet and greet person who will enquire about the type and amount of waste brought to site. They will verify the type of the waste and confirm that the waste is allowed to be accepted at the site and will check for any visible dust. They will then direct the person to the relevant skip/area. If the meet and greet person identifies the householder brought non-conforming wastes to the site, they will inform the person that this waste cannot be accepted at the site and needs to be taken to an alternative facility.

Bulking Area

With regards to the Bulking Area, every vehicle arriving at the site which transfers waste material must have a Waste Carriers Licence as required by legislation. Checks will be made to ensure that the waste carrier is properly licensed. This information can be checked by the following methods:

- By phoning the Environment Agency on 08708 506 506 and requesting an instant Waste Carrier Validation Check; or
- Checking online on the Environment Agency's waste carrier register on their website.

Wastes will be characterised, as required under the Duty of Care Regulations, prior to acceptance of the delivery. Non-conforming wastes will be rejected. Records of the waste

characteristics and origin of the waste will be kept in accordance with Duty of Care requirements.

The following steps will be followed to ensure that waste accepted on site is done so correctly:

1. On arrival vehicles will supply the Recycling Operatives with the relevant paperwork for initial checks. Any discrepancies will be resolved before the waste is accepted on site. The load will be checked at this point.
2. Checks on storage capacity will take place to ensure that suitable space is available for incoming wastes.
3. The vehicle will be directed by the relevant operative to the waste reception area within the Bulking Area.
4. A visual load inspection will take place, before the waste is unloaded, by a technically competent site operative or other designated person, to ensure consistency with the waste delivery/acceptance/rejection note and to check for any visible dust. If this is not possible, the waste will be inspected immediately after offloading in the waste reception area.
5. The waste will be unloaded or tipped in the appropriate area, and then the vehicle will leave the site.

3.4 Unauthorised and Rejected Wastes

Leicestershire County Council will have a clear and unambiguous criterion for the rejection of wastes, together with a written procedure for tracking and reporting such non-conformance. This will include notification to the customer/waste producer. Written/computerised records will form part of the waste tracking system information.

LCC will also have a clear and unambiguous criterion for the subsequent storage and disposal of such rejected wastes. This policy will achieve the following:

- identifies the hazards posed by the rejected wastes;
- labels rejected wastes with all information necessary to allow proper storage and segregation arrangements to be put in place; and
- segregates and stores rejected wastes safely pending removal.

In the event that unauthorised or overly dusty wastes are delivered to the site, the material will be loaded back onto the vehicle that discharged it, if it is possible and safe to do so. If this is not possible, then the material will be quarantined within a designated area and removed from the site as soon as practicable.

3.5 Technical Competence

The site will be supervised by designated technically competent managers who hold the appropriate certificate of technical competence issued by the Waste Management Industry Training and Advisory Board.

3.6 Environmental Management System

LCC will operate their own management system which will ensure that:

- the risks that dust pose to the environment are identified;
- the measures that are required to minimise dust risks are identified;
- the activities are managed in accordance with the dust management system;
- performance against the dust management system is audited at regular intervals; and
- compliance with the environmental permit.

The dust management system will be reviewed at least once a year or in response to significant changes to the activities, accidents or non-compliance.

3.7 Dust Records

LCC will keep records of a number of performance indicators and environmental indicators (e.g. activities occurring on site, wind direction etc.) should dust be emitted from the site. Records will be legible and easily retrievable on request (either in hard copy or electronically). Records will be kept in line with the conditions of the Environmental Permit issued for the site. For example, the following records will be kept:

- records of potentially polluting events will be kept at the facility during the life of the permit;
- waste inputs to all processes will be recorded 'en masse'; and
- Storage locations and amounts of materials.

The above list is not exhaustive. Records will be kept to satisfy the requirements of the Environmental Permit and all other relevant statutory legislation.

3.8 Incidents and Non-Conformance

LCC has in place procedures to account for the potential for incidents and non-conformances which may affect the environmental performance of the facility. The procedures as set out below show how any abnormal operation including malfunction, breakdown or failure of plant, equipment or techniques will be dealt with to ensure that normal operation of the facility is regained promptly.

As a minimum, procedures will:

- detect abnormal operation and investigate the causes;
- assess the information and decide on the appropriate course of action;
- retain normal operation in the short term; and
- prevent against the reoccurrence of the problem in the long term.

As will be detailed further in LCC EMS, the procedures will ensure that non-conformances are reported, investigated and rectified, and that failures and weaknesses are prevented.

LCC's EMS will provide a means for the management system and the environmental performance of the facility to be evaluated. This will be accomplished through regular work place inspections and will include, where appropriate, the identification of areas where improvements are required. The regular review of the EMS and its procedures will form an essential role in ensuring that the systems and procedure remain appropriate to the site activities and legal requirements (including compliance with the Environmental Permit) throughout the life time of the facility.

To assist in the reporting of incidences, LCC will display a notice at or near the site entrance with the following information clearly visible:

- Company name;
- Permit number;
- Emergency contact name and the permit holders (i.e. Leicestershire County Council) telephone number;
- A statement that the site is permitted by the Environment Agency; and
- Environmental Agency national number (08708 506 506) and incident hotline number (0800 807060).

3.9 Complaints Procedure and Daily Log

LCC has in place procedures for any complaints received from the operation of site activities. The Complaints Procedure can be found in Table 4 below.

Table 4: Complaints Procedure

Action	Person responsible for ensuring action is carried out	Timescale for Action Completion
<p>1. The Area Supervisor will be notified of the complaint and will make the appropriate managerial staff and site operatives aware of the complaint.</p> <p>The complaint shall be formally recorded using the Complaint Report sheet contained within the site's EMS.</p>	Area Supervisor	Within one working day of receipt of the complaint.
<p>2. The complaint shall be investigated by:</p> <p>a) Checking the Site Diary and Waste Acceptance Records to see if any particularly dusty waste was accepted.</p> <p>b) Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site, such as damage to site infrastructure or damage to other site management infrastructure.</p> <p>If the cause of the complaint is established it will be recorded within the Complaint Record Sheet. If no particular cause is identified then this will also be recorded.</p>	Area Supervisor	Within one working day of receipt of the complaint.
<p>3. If a number of complaints are received about a particular incident, then it might be necessary to introduce dust monitoring – note this will occur only after discussions with the Environment Agency.</p>	Area Supervisor	Within one working day of receipt of the complaint.
<p>4. The Area Supervisor will instigate any necessary reviews of procedures and will implement any required changes. Any maintenance to dust management infrastructure will be undertaken as soon as possible.</p>	Area Supervisor	Within seven working days of receipt of the complaint.
<p>5. If appropriate, the complainant and the Environment Agency will be informed of any corrective actions taken.</p>	Area Supervisor	Within seven working days of receipt of the complaint.
<p>6. A follow up audit on the corrective actions shall be undertaken to ensure the preventative procedure was effective and to determine if any additional actions are required.</p>	Area Supervisor	Within two weeks of receipt of the complaint.
<p>7. Once the follow up audit has been completed, the Area Supervisor will ensure that the complaint and any action taken and the effectiveness of that action are recorded in the EMS.</p> <p>This record shall also note any amendments to procedures, both environmental and health and safety, which may be required following the investigation. The record shall be kept in the site office at all times or if it is an electronic record, it will be accessible at the site.</p>	Area Supervisor	Within two weeks of receipt of the complaint.

If the complaints have been substantiated by the Environment Agency and are reasonably arising from a poor environmental performance of the site then site operations will be investigated to identify the area of the problem. If any are identified to be releasing dust beyond the site boundary the site will firstly employ additional mitigation measures, i.e. covering of the waste, dampening of the waste and site surfaces, prioritising removal of waste off site, etc. If after employing the mitigation measures above, the identified operation is still causing dust emissions, it will be paused until fully assessed and further improvements can be implemented.

LCC will maintain a site conditions log which will note any abnormal weather conditions, any incidences at the site such as dust, noise, odour, spills or discharges or any malfunction with regards to machinery. Paperwork will be kept so that there is a record of vehicles which have brought waste onto site or removed it from site so that vehicles can be traced and identified if complaints are received.

The daily log shall also record all housekeeping activities. The daily record sheet can be found in Appendix D of this document.

3.10 Public Engagement Plan

The Operator, being a County Council, has an existing communication network for liaison between the local community and the Operator. Notwithstanding emergency contact details at the Kibworth Recycling and Household Waste Site entrance, for day to day contact the Operator would utilise a combination of the following communication strategies depending on the nature of the communication required.

For general information:

- The Operator's existing website (www.leicestershire.gov.uk);
- The Operator's existing Twitter and Facebook accounts; and
- Local events that the Operator may attend or organise.

For specific, event, information in addition to the above:

- Telephone discussions;
- Electronic or paper-based correspondence; and
- On site notification - advertising at the entrance using posters in the adshell.

3.11 Accident Management

Mud Debris

The site will comprise concrete hardstanding which will be maintained free of potholes to prevent the pooling of surface water.

Should mud on road be attributable to operations at the site, LCC will take remedial action as necessary in accordance with the procedures set out in the EMS and the conditions of the Environmental Permit.

Leaks and Spillage

In the event of any potentially polluting leak or spillage occurring on site, the following actions will be taken.

1. Minor spillages will be cleaned up immediately, using sand or proprietary absorbent. The resultant materials will be placed in a container for off-site disposal to a suitable facility as appropriate.
2. In the event of a major spillage, which is causing or is likely to cause polluting emissions to the environment immediate action will be taken to contain the spillage and prevent liquid from entering surface water drains and un-surfaced ground. The spillage will be cleared immediately and placed in containers for off-site disposal. Records of spillages and incidents will be kept on site together with a summary of the remedial action taken.

3.12 Maintenance Procedures

A planned preventative maintenance programme (PPM) will be put in place to minimise the risk to safety, health and the environment by ensuring that all appropriate items and elements within the site are serviced and inspected on a regular basis.

Details of faults, breakdowns and repairs are documented, and records are maintained at the site office. Faults and breakdowns will be investigated, and the service schedule revised if necessary.

3.13 Responsibility for the Dust Management Plan

The Area Supervisor will be responsible for the understanding and implementation of the measures that are listed in the Dust Management Plan and will ensure compliance with the plan. They will have read it and understood the requirements within the plan and will have

communicated these measures to site staff through regular tool box talks, staff meetings on site, new starter inductions, etc.

4.0 DUST AND PARTICULATE (PM10) MANAGEMENT

4.1 Air Quality Management Zone

The site is situated within the Harborough District. A search of the Harborough District Council website has identified that a section of Harborough Road has been classified as an Air Quality Management Area (AQMA). The AQMA runs from roundabout with Wistow Road to the south and ends at the junction with Church Road. The AQMA has been declared for NO_x emissions from vehicles as opposed to PM₁₀ or PM_{2.5} emissions. As the proposed facility is further south of Church Road, the site is not considered part of the Air Quality Management Area and so the impacts on the AQMA have not been assessed as part of this application.

4.2 Receptors

Sensitive receptors within 1,000m of the facility have been identified in Table 5 below and the receptor map has been included in Appendix E of this document. As the Dust Management Plan looks at the 'worst case' scenario, any receptors at a distance greater than 1km have not been assessed unless they have the potential to be impacted. The sensitivity of the receptors has been assessed taking into consideration the type of the receptor, distance from the site and prevailing wind direction. There aren't any other dust contributors in the area apart from Farmland surrounding the site.

Table 5: Relevant Receptors within 1,000m

ID on the Receptor Plan	Receptor	Direction from Operational Area	Minimum Distance from proposed permit boundary (m)	Receptor sensitivity to dust
Designated ecological habitats e.g. Ramsars, SAC, SPA, SSSI				
-	-			-
Other Designations e.g. National Parks, ANOB, World Heritage Sites				
-	-			-
Historic buildings / listed buildings / archaeological sites				
-	-			-
Domestic Dwellings				
1	Marriot Drive	NW	722m	Low
2	Milestone Close	NW	827m	Low
3	Braymish Close	NW	815m	Low
4	Harborough Road	NW	750m	Low
5	New Road	NW	911m	Low
6	Fairway	NW	960m	Low
7	Birdie Close	NW	915m	Low
8	Wentworth Close	W	950m	Low
Schools, Shops, Commercial and Industrial				
9	Kibworth Golf Club	SW	443m	Low
10	Beech Tree Bunnies	SSE	768m	Low

ID on the Receptor Plan	Receptor	Direction from Operational Area	Minimum Distance from proposed permit boundary (m)	Receptor sensitivity to dust
11	Unnamed Farm	SW	300m	Low
12	Kibworth Gun Club	SE	500m	Low
13	Premier Music International	NW	500m	Low
14	ACI Financial	NW	487m	Low
15	Readicut Crafts	NW	470m	Low
17	Total Community Care	NW	487m	Low
18	UK Property Finance	NW	493m	Low
19	Cornerstone Tax Advisors	NW	501m	Low
20	Jefferson Payroll Bureau	NW	510m	Low
21	Secured-loans.co.uk	NW	496m	Low
22	Creative World of Crafts	NW	508m	Low
16	CLA UK	NW	519m	Low
24	Crouch Recovery	NW	531m	Low
25	Dynamic Wealth	NW	561m	Low
26	Farleys	NW	625m	Low
27	Spenders Motorcycles	NW	653m	Low
30	Allotments	N	50m	Medium
29	Kemps Clothing	NW	850m	Low
28	Horsewear House Ltd	NW	684m	Low
23	DD Automotive	NW	646m	Low
Highway, Minor Road and Railway				
32	Harborough Road (A6)	S	10m	Low
33	W Langton Road	N	125m	Low
34	Railway	N	18m	Low
Farmland				
31	Farmland	W	14m	Low
31	Farmland	N	36m	Low
31	Farmland	E	30m	Low
31	Farmland	S	20m	Low
31	Farmland	SE	65m	Low
Local Wildlife Sites				
-	-			
Protected Species				
-	-			
Protected Habitats				
-	-			
Surface Water				
35	Langton Brook	S	950m	Low
36	Drainage Channel flowing into the Langton Brook	NE	10m	Low
Groundwater (sensitivity)				
-	In accordance with the MAGIC website, the site is not within a Groundwater Protection Zone.			

4.3 Dust Management

Source/Pathway

The Recycling Operatives will be responsible for undertaking all dust management procedures as per the Dust Management Plan submitted as part of this application.

The effects of dust may be both immediate and long term, presenting a significant burden for the Operator and regulatory agencies. The potential causes of a dust are identified within Section 2.2.4 of Sector Guidance Note 5.06 – Treatment of Hazardous and Non-hazardous waste and are reviewed below with reference to EA guidance and provides an assessment of the source and potential pathway for pollution:

- Open vessels;
- Sampling activities;
- Storage areas (for example bays, stockpiles, lagoons etc);
- The loading and unloading of containers;
- Transferring/bulking up of material from one vessel to another;
- Conveyor systems;
- Poor building containment;
- Potential for by-pass of abatement equipment (to air or water);
- Spillages;
- Accidental loss of containment from failed plant and equipment; and
- Tanker and vessels manhole opening and other access points.

4.4 Agency Guidelines for Management of Fugitive Dust

The facility is a waste operation under the Environmental Permitting Regulations 2016, and so is subject to Appropriate Measures. The Operator has adopted the relevant measures for dust control as outlined within Agency Guidance 5.06 – Treatment of Hazardous and Non-Hazardous Wastes and has also taken into account the Environment Agency Guidance Document 'Non-hazardous and inert waste: appropriate measures for permitted facilities'

which was issued in July 2020 for consultation. The relevant control measures undertaken by the Operator are as follows:

- Covering relevant bays and skips
- Provision of canopies for relevant storage areas;
- Providing coverage for the quarantine area;
- Ensuring stockpiles are situated within the most sheltered areas of the site;
- Provision of wind breaks if required;
- Ensuring minimal handling of material;
- Where dust creation is unavoidable, use of sprays, stockpile management techniques, windbreaks and so on;
- Regular inspection of all infrastructure shall be undertaken;
- Use of bays and skips which are enclosed; and
- Regular housekeeping including cleaning of site equipment shall be undertaken, as and when required.

Additionally, the following control measures may be appropriate for controlling dust from a waste facility:

- Content of material and orientation of long stockpiles in the direction of the prevailing wind;
- Surfacing of roadways; and
- Ensuring vehicles stay on paved areas.

4.5 Suspended Solid Benchmark Emission Values

Agency Guidance 5.06 – Treatment of Hazardous and Non-hazardous wastes, sets out the benchmark value for particulate to air for fugitive dust emissions is set out in Table 6 as follows:

Table 6 – Particulate Benchmarks

Activity	Benchmark Value
Fugitive emissions from equipment, plant buildings, storage yards and materials handling	"No visible dust" criteria may normally be appropriate

Agency Guidance note M17 sets out emission guidelines for waste sites to ensure that nuisance dust will not impact on sensitive receptors. M17 sets out that dust is not likely to cause a nuisance at sensitive receptors provided it does not exceed 200 mg m⁻² day⁻¹.

4.6 Wind Speed and Direction

The specific risk assessment completed for Dust Fugitive Emissions is detailed in Table 5 below. In many cases there is an inter-relationship between this risk assessment and meteorological conditions, where relevant this has been identified. The pathway is determined by the location of the receptor relative to the site, the distance from the site boundary (m) and the frequency (likelihood) the prevailing wind will blow in the direction of the receptor as determined by historical wind rose data. For this site the weather station at the Pitsford Reservoir has been used as this is the closest weather station to the facility. The wind direction distribution as found on www.windfinder.com, is shown below in Figure 1.

Figure 1: Wind Direction of the Waste Transfer Station



The risk assessment in Table 7 represents the risk of exposure to a hazard before mitigating controls are put in place. The probability of exposure is therefore not necessarily a reflection of the severity of the impact on the receptor, which may not be sensitive to the hazard. The severity of the unmitigated consequence presumes the receptor has been exposed to the hazard.

However, if the receptor is unlikely to be exposed, then the overall unmitigated risk is low and vice versa. The mitigated risk is the residual risk presented by the hazard after control measures have been instigated.

This is the most realistic representation of the risk as effective controls will be maintained under the requirements of the environmental permit and LCC's companywide Environmental Management System (EMS).

4.7 Sources and Control of Dust/Particulates

Potential emissions that may be generated from the site include dust/particulates and include the following:

- Dust/particulates from lorry movements, potential uncovered vehicles carrying dust-generating waste, or mud on the wheels deposited from vehicles.
- Dust/particulates from tipping and movement of incoming waste.
- Dust/particulates from waste in storage areas.
- Dust/particulates from site roads and surfaces.

Table 7 below outlines the risk, pathway, receptor assessment and provides management techniques to control/mitigate each of the risks.

Table 7: Dust Emissions Risk Assessment and Management Plan

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
To Air						
Site Surfaces and Equipment	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 5.</p> <p>Industrial and commercial premises listed in Table 5.</p> <p>Users of the A6.</p>	Atmosphere	<p>The site will employ good housekeeping criteria and shall be on a constant lookout for any dust build up or any spills that could lead to fugitive emissions. Any build-up of dust noticeable on surfaces and equipment will be removed as soon as is practicable utilising appropriate equipment.</p> <p>All site equipment shall be inspected at both the start of the work day and the end of the work day to ensure that there is not a build-up of particulates on surfaces and equipment.</p> <p>The site will be manually swept for gross detritus at least daily and more often if needed.</p> <p>A standpipe located at the back of the Bulking Area will be used as a water supply to facilitate dust suppression and cleaning of equipment.</p> <p>The Recycling Operatives will be responsible for monitoring conditions and for maintaining the housekeeping schedule, if the Recycling Operatives are not available, then a suitably qualified person will be designated for that role.</p> <p>The Recycling Operatives or designated person will also consider stopping operations at the site if operations are found to be causing unacceptable fugitive emissions (as substantiated by the Environment Agency).</p>	<p>Dust could potentially reach the nearby dwellings when a strong wind blows in their direction.</p> <p>Management actions should prevent this happening.</p>	<p>Smothering.</p> <p>Nutrient enrichment.</p> <p>Nuisance – dust on cars, clothing, vegetation, etc.</p>	Not significant.
Vehicle Movements	<p>Site Workers</p> <p>Occupiers of Domestic dwellings</p>	Atmosphere	<p>All waste delivery vehicles that arrive in the Bulking Area will be covered (sheeted or netted) or be within fully enclosed vehicles, as will all vehicles that remove waste from the site.</p> <p>A standpipe located at the back of the Bulking Area will be</p>	<p>Dust could potentially reach the nearby dwellings when a strong wind blows in their direction.</p>	<p>Smothering.</p> <p>Nutrient enrichment.</p> <p>Nuisance – dust on</p>	Not significant.

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
	listed in Table 5. Industrial and commercial premises listed in Table 5.		used as a water supply to dampen the site roads if deemed necessary. A speed limit of no more than 10mph will be enforced onsite to prevent the disturbance of dust. There are procedures in place on site to monitor and prevent idling of plant and machinery/vehicles when not in use. Each plant has a tracker fitted that will monitor when it is operational, and its use is monitored and reviewed on a regular basis. This is good practice in order to improve efficiency of the plant and fuel consumption. The anti-idling procedures are communicated to site staff during tool box talks, site meeting, new starter induction, etc.	Management actions should prevent this happening.	cars, clothing, vegetation, etc	
Waste received in the Bulking Area	Site Workers Occupiers of Domestic dwellings listed in Table 5. Industrial and commercial premises listed in Table 5.	Atmosphere	Waste will be unloaded in the relevant bay where it will be inspected. If waste which is received will give rise to dust emissions, the waste will be dampened down to control fugitive emissions. Note that all bays in the Bulking Area will be provided with a canopy cover to prevent dust emissions.	Dust could potentially reach the nearby dwellings when a strong wind blows in their direction. Management actions should prevent this happening.	Smothering. Nutrient enrichment. Nuisance – dust on cars, clothing, vegetation, etc.	Not significant.
Storage of Waste	Site Workers Occupiers of Domestic dwellings listed in Table 5.	Atmosphere	Materials will be stored in accordance with Drawing No. M00460-MAB-00-ZZ-DR-A-1101-S4-P02. A standpipe located at the back of the Bulking Area will be used as a water supply to mist the waste piles when required. The main area withing the Recycling & Household Waste Site where waste containers are held is situated under a canopy,	Dust could potentially reach the nearby dwellings when a strong wind blows in their direction. Management actions should prevent this	Smothering. Nutrient enrichment. Nuisance – dust on cars, clothing, vegetation, etc	Not significant.

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
	Industrial and commercial premises listed in Table 5.		<p>as are the bays in the Bulking Area. There will be a minimum of 0.5m freeboard maintained in bays in the Bulking Area at all times to prevent wind whipping.</p> <p>If it becomes apparent that the storage of the waste will cause an impact on nearby receptors, the Recycling Operatives or person who has designated authority, may determine operations are to cease with regards to receiving wastes. If this situation occurs, delivery vehicles will be redirected from the site.</p> <p>If dust from stockpiles does become an operational issue at the site, the Recycling Operatives or Area Supervisor will review the site infrastructure.</p>	happening.		
Handling of Materials (transfer)	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 5.</p> <p>Industrial and commercial premises listed in Table 5.</p> <p>Users of the A6.</p>	Atmosphere	<p>The Operator will ensure drop heights are minimised while transferring material around the site, including when depositing material within the Bulking Area and within the Recycling and Household Waste Site area. Additionally, wastes may be dampened prior to them being moved.</p> <p>If it is deemed that the handling of wastes is likely to cause an unacceptable impact at offsite receptors, the Operator will suspend all handling of materials and delivery vehicles will be diverted.</p> <p>All waste delivery vehicles that arrive in the Bulking Area will be covered (sheeted or netted) or be within fully enclosed vehicles, as will all vehicles that remove waste from the site.</p> <p>No treatment of waste will take place on site apart from manual sorting and manual separation. In addition, the site is designed so as to avoid double handling of waste.</p>	<p>Dust could potentially reach the nearby dwellings when a strong wind blows in their direction.</p> <p>Management actions should prevent this happening.</p>	<p>Smothering.</p> <p>Nutrient enrichment.</p> <p>Nuisance – dust on cars, clothing, vegetation, etc.</p>	Not significant.
Mud						

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Mud from vehicle movements	Local roads	Tracked on vehicle wheels.	<p>The proposed activity is unlikely to lead to mud from vehicle movements due to the housekeeping measures in place.</p> <p>The site's surface is easy to clean/sweep – concrete surfacing and tarmac roads.</p> <p>The site will be manually swept for gross detritus at least daily and more often if needed.</p> <p>In the event that mud is deposited on the road, a road sweeper may be utilised.</p>	Unlikely due to measures in place	<p>Local nuisance.</p> <p>Mud on roads is unsightly and can increase the likelihood of road traffic accidents.</p>	Not significant.
Litter						
Windblown litter	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 5.</p> <p>Industrial and commercial premises listed in Table 5.</p> <p>Users of the A6.</p>	Air	<p>The proposed activities are unlikely to cause litter. The skips will be enclosed on four sides and canopies or covers will be provided for those wastes which could be subject to wind whip, including the Bulking Area.</p> <p>A vigilant watch for litter will be undertaken by site operatives. In the unlikely event that litter is generated by the activity, the Recycling Operatives will implement a litter collection as necessary.</p>	Unlikely due to measures in place.	Local nuisance	Not significant due to nature of waste received and management techniques employed.

4.8 Housekeeping

The site is visually inspected for any presence of dust on surfaces daily and manually swept for gross detritus at least daily and more often if needed. A mechanical sweeper will be used to sweep the site on as required basis.

Table 8 below details the housekeeping schedule that is in place.

Table 8: Housekeeping schedule.

Frequency	Action
Daily	Visual inspection for dust on surfaces and plant – any actions required that are not part of daily routine are recorded in the daily log. Manual sweeping/shovelling of debris from site surfaces.
As required	Road sweeper deployed to clean up all site surfaces. Maintenance of concrete surfaces. Additional damping down of wastes during periods of prolonged dry weather if the waste is being stored for significant periods of time.

4.9 Proposed Monitoring Requirements

M17 sets out that dust should be monitored at sensitive receptors. As the site does not have any sensitive receptors within relevant distance of the site, a specific 'off-site' monitoring is not considered to be required above that expected to be undertaken as part of normal day-to-day operations. In addition, if complaints are received, the Operator will follow the complaints procedure in Appendix B which will act to identify the cause of the odour and then link it back to the site operations being undertaken at the time.

As this is a live working document, the Operator can revise this OMP as necessary and put in place additional control measures as required, including revising the site layout, undertaking odour monitoring, reviewing waste acceptance procedures and investigating the need for odour abatement equipment.

4.10 Unfavourable conditions

Unfavourable conditions are limited to flooding, high winds and prolonged dry weather events. In the case of flooding on the site, operations will be reduced until the flooding has receded, the infrastructure checked and it is safe to re-commence full operations. High winds and prolonged dry weather management techniques are explained in the section below.

High winds and prolonged dry weather

The site has been designed to be able to handle the proposed waste streams during high wind events. The wastes will not be left open to the elements as appropriate infrastructure in the form of RoRos, enclosed containers and canopied bays are to be provided.

Waste streams that are stored within the Bulking Area are placed within bays which are equipped with canopies and a minimum 0.5 m freeboard will be maintained to prevent wind whipping. In addition, waste which are to be received within the Recycling & Household Waste Site area are placed withing RoRos with an appropriated freeboard as per the above. Furthermore, particularly dusty waste can be stored within enclosed RoRos. Wastes which have a high dust potential have been identified in Table 3 above.

In the event of prolonged dry weather, the activities will be assessed by the Recycling Operatives. If any activities are identified as having a high probability of spreading dust beyond the site boundary these activities will be managed to prevent the dust escaping the site. This will involve the deploying of additional mitigation measures, i.e. covering of the waste, increasing the freeboard for those wastes stored externally, dampening the wastes stored externally, prioritising removal off site, etc.

If, after deploying the additional mitigation measures identified above, the identified activity is still causing dust emissions, it will be paused until the weather improves.

5.0 CONCLUSION

Kibworth Recycling and household Waste Site is operated by LCC and is situated within a rural setting. The facility is not considered to be within close proximity to sensitive receptors and is not within an Air Quality Management Zone.

The information contained within the assessment detailed in Table 7 above indicates that site activities are unlikely to cause any disturbance due to the storage and management techniques employed by the applicant. The management techniques will ensure that any fugitive emissions will be adequately contained and managed.

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

**Appendix A – Environmental Permit Boundary site
plan, ref. M00460-MAB-00-ZZ-DR-A-1100- S4-P02**

(Forwarded under separate cover)

Appendix B - Site Layout Plan, ref. M00460-MAB-00-ZZ-DR-A-1101-S4-P02

(Forwarded under separate cover)

Appendix C – List of Permitted Waste

EWC Code	Description	Dust potential
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
02 01 03	plant-tissue waste	Low
02 01 04	waste plastics (except packaging)	Low
02 01 07	wastes from forestry	Low
02 01 10	waste metal	Low
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin	
02 02 03	materials unsuitable for consumption or processing	Low
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation	
02 03 04	materials unsuitable for consumption or processing	Low
02 04	wastes from sugar processing	
02 04 01	soil from cleaning and washing beet	Medium
02 05	wastes from the dairy products industry	
02 05 01	materials unsuitable for consumption or processing	Low
02 06	wastes from the baking and confectionery industry	
02 06 01	materials unsuitable for consumption or processing	Low
02 06 02	wastes from preserving agents	Low
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD	
03 01	wastes from wood processing and the production of panels and furniture	
03 01 01	waste bark and cork	Low
03 01 04*	sawdust, shavings, cuttings, wood, particle board and veneer containing hazardous substances	High
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	High
03 03	wastes from pulp, paper and cardboard production and processing	
03 03 01	waste bark and wood	Low
03 03 08	wastes from sorting of paper and cardboard destined for recycling	Low
07	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 02	Waste from the MSFU of plastics, synthetic rubber and man-made fibres	
07 02 13	waste plastic	Low
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS	
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics	
12 01 01	ferrous metal filings and turnings	Medium
12 01 03	non-ferrous metal filings and turnings	Medium
12 01 05	plastics shavings and turnings	Medium
13	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)	
13 02	Waste engine, gear and lubricating oils	
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils	Low
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils	Low

13 02 06*	synthetic engine, gear and lubricating oils	Low
13 02 07*	readily biodegradable engine, gear and lubricating oils	Low
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01	packaging (including separately collected municipal packaging waste)	
15 01 01	paper and cardboard packaging	Low
15 01 02	plastic packaging	Low
15 01 03	wooden packaging	Low
15 01 04	metallic packaging	Low
15 01 05	composite packaging	Low
15 01 06	mixed packaging	Low
15 01 07	glass packaging	Low
15 01 09	textile packaging	Low
15 02	absorbents, filter materials, wiping cloths and protecting clothing	
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	Low
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 01	end-of-life vehicles from different means of transport [including off-road machinery] and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13,14, 16 06 and 16 08)	
16 01 03	end-of-life tyres	Low
16 02	wastes from electrical and electronic equipment	
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC	Low
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	Low
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15	Low
16 05	gases in pressure containers and discarded chemicals	
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Low
16 05 05	gases in pressure containers other than those mentioned in 16 05 04	Low
16 06	batteries and accumulators	
16 06 04	alkaline batteries (except 16 06 03)	Low
16 06 05	other batteries and accumulators	Low
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	concrete, bricks, tiles and ceramics	
17 01 01	concrete	Low
17 01 02	bricks	Low
17 01 03	tiles and ceramics	Low
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Low
17 02	wood, glass and plastic	
17 02 01	wood	Low
17 02 02	glass	Low
17 02 03	plastic	Low
17 03	bituminous mixtures, coal tar and tarred products	
17 03 02	bituminous mixtures other than those mentioned in 17 03 01	Low
17 04	metals (including their alloys)	Low
17 04 01	copper, bronze, brass	Low
17 04 02	aluminium	Low
17 04 03	lead	Low
17 04 04	zinc	Low

17 04 05	iron and steel	Low
17 04 06	tin	Low
17 04 07	mixed metals	Low
17 04 11	cables other than those mentioned in 17 04 10	Low
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil	
17 05 04	soil and stones other than those mentioned in 17 05 03	Medium
17 06	insulation materials and asbestos-containing construction materials	
17 06 01*	insulation materials containing asbestos	Low
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03	Low
17 06 05*	construction materials containing asbestos	Low
17 08	gypsum-based construction material	
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01	Medium
17 09	other construction and demolition waste	
17 09 04	Mixed construction and demolition waste other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	Medium
19	WASTE FROM WASTE MANAGMENTN FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified	
19 12 01	paper and cardboard	Low
19 12 02	ferrous metal	Low
19 12 03	non-ferrous metal	Low
19 12 04	plastic and rubber	Low
19 12 05	glass	Low
19 12 06*	wood containing hazardous substances	Low
19 12 07	wood other than those mentioned in 19 12 06	Low
19 12 08	textiles	Low
19 12 09	minerals (for example sand, stones)	Medium
19 12 10	combustible waste (refuse derived fuel)	Medium
20	MANICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPERATELY COLLECTED FRACTIONS	
20 01	separately collected fractions (except 15 01)	
20 01 01	paper and cardboard	Low
20 01 02	glass	Low
20 01 08	biodegradable kitchen and canteen waste	Low
20 01 10	clothes	Low
20 01 11	textiles	Low
20 01 13*	solvents	Low
20 01 14*	acids	Low
20 01 15*	alkalines	Low
20 01 17*	photochemicals	Low
20 01 19*	pesticides	Low
20 01 21*	fluorescent tubes and other mercury-containing waste	Low
20 01 23*	discarded equipment containing chlorofluorocarbons	Low
20 01 25	edible oil and fat	Low
20 01 26*	oil and fat other than those mentioned in 20 01 25	Low
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	Low
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27	Low

20 01 29*	detergents containing hazardous substances	Low
20 01 30	detergents other than those mentioned in 20 01 29	Low
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	Low
20 01 34	batteries and accumulators other than those mentioned in 20 01 33	Low
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	Low
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	Low
20 01 37*	wood containing hazardous substances	Low
20 01 38	wood other than those mentioned in 20 01 37	Low
20 01 39	plastics	Low
20 01 40	metals	Low
20 01 41	wastes from chimney sweeping	High
20 02	garden and park wastes (including cemetery waste)	
20 02 01	biodegradable waste	Low
20 02 02	soil and stones	Medium
20 02 03	other non-biodegradable wastes	Medium
20 03	other municipal wastes	
20 03 01	mixed municipal waste	Medium
20 03 02	waste from markets	Low
20 03 03	street-cleaning residues	Medium
20 03 07	bulky waste	Low

Appendix D – Site Conditions Log

Kibworth Recycling and Household Waste Site

Site Condition Log

Date:

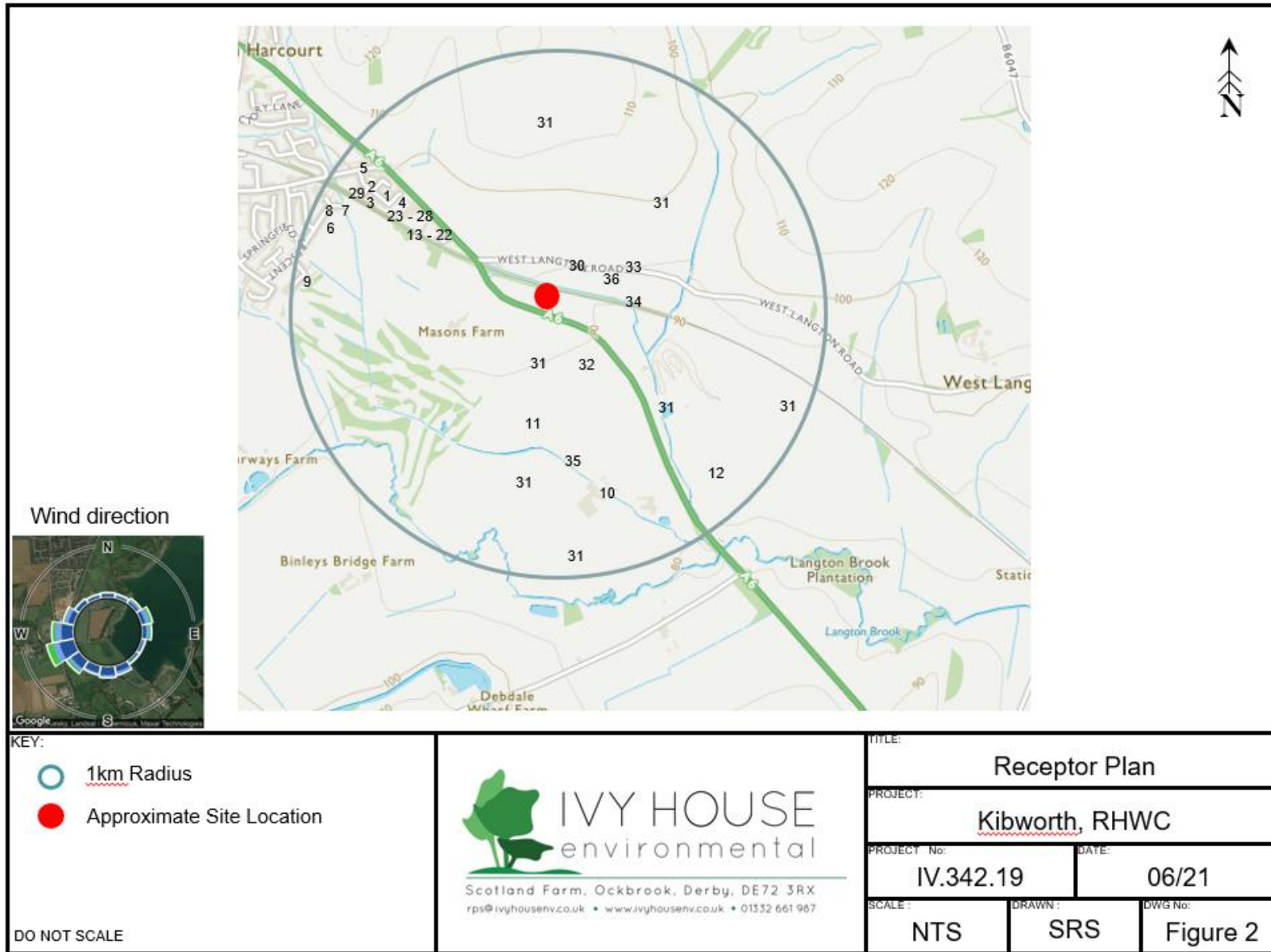
Name:

Observations:

Actions:

Signature:

Appendix E – Receptor map



Receptor ID	Receptor	Receptor ID	Receptor	Receptor ID	Receptor
Domestic Dwellings		Schools, Shops, Commercial and Industrial		Highway, Minor Road and Railway	
1	Marriot Drive	17	Total Community Crae	32	Harborough Road (A6)
2	Milestone Close	18	UK Property Finance	33	W Langton Road
3	Braymish Close	19	Cornerstone Tax Advisors	34	Railway
4	Harborough Road	20	Jefferson Payroll Bureau	Surface Water	
5	New Road	21	Secured-loans.co.uk	35	Langton Brook
6	Fairway	22	Creative World of Crafts	36	Drainage Channel which flows to the Langton Brook
7	Birdie Close	23	DD Automotive		
8	Wentworth Close	24	Crouch Recovery		
Schools, Shops, Commercial and Industrial		25	Dynamic Wealth		
9	Kibworth Golf Club	26	Farleys		
10	Beech Tree Bunnies	27	Spenders Motorcycles		
11	Unnamed Farm	28	Horsewear House Ltd		
12	Kibworth Gun Club	29	Kemps Clothing		
13	Premier Music International	30	Allotments		
14	ACI Financial	Farmland			
15	Readicut Crafts	31	Farmland		
16	CLA UK				



KEY:

DO NOT SCALE



TITLE:

Receptor Table

PROJECT:

Kibworth, RHCW

PROJECT No:

IV.342.19

DATE:

06/21

SCALE:

NTS

DRAWN:

SRS

DWG No:

Figure 3