

Wakerley Inert Landfill

Environmental Permit Application

Dust Management Plan

December 2019

Prepared on behalf of Mick George Limited





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Drawings

MGL-A099077-PER-01 – Site Location, Environmental Permit Boundary and Phasing Plan

MGL-A099077-PER-02 – Environmental Permit Boundary and Borehole Locations

W4-18-01 - Site Location and Phasing Sequence Plan

W4 18 02 - Landscape Restoration Masterplan

Appendices

Appendix A - Environmental Statement Excerpt

Appendix B - MGL Particulate Matter Management and Monitoring document from EMS



1.0 Introduction

1.1 Regulated Facility Details

Site Details

- 1.1.1 This section of the Environmental Permit Application corresponds to Section 3 of Part B4 of the Environmental Permit Application forms and specifically details the operating and management procedures that will be in place at the site.
- 1.1.2 This Environmental Permit Application has been prepared by WYG on behalf of the Operator, Mick George Limited (Mick George).

Site Classification

1.1.3 The regulated facility is an inert landfill.

Site Context, Location, Boundary and Site Security

- 1.1.4 The application site is situated at Wakerley Quarry which is located approximately 0.5km south west of the village of Wakerley and is centred at approximate National Grid Reference (NGR) SP 94500 97800. The site location and the environmental permit boundary is shown on Drawing Number MGL-A099077-PER-01.
- 1.1.5 Access to the application site is achieved via a private access road, located to the north east of the site, that has been developed off the A43 (as shown on Drawing Numbers MGL-A099077-PER-01 and W4-18-01) as presented in the current planning application submitted by Mick George to Northamptonshire CC (Reference Number 19/00060/WASFUL). The immediate surroundings of the site comprise agricultural land to the north and west with extensive woodland (Wakerley Great Wood) to the east and south. The nearest residential dwellings to the application site are situated approximately 500m north of the site at Wakerley.
- 1.1.6 Site gates and perimeter fencing are inspected on a daily basis. Any identified damage to the fence or gates that could prejudice the site security is recorded and temporarily repaired as necessary before the end of that working day. Permanent repair or replacement will be undertaken as soon as practicable.
- 1.1.7 The site is not located within an Air Quality Management Area. However, an Air Quality Assessment was undertaken as a function of the planning application and is within the Environmental Statement provided for reference as Appendix A to this report. Dust management techniques, as detailed within the assessment and this Dust Management Plan, will be implemented to minimise the effects of any dust emissions.



2.0 Dust Sensitive Receptors

2.1.1 Receptors within 1km of the proposed application boundary, including those identified in the Nature and Heritage Screen, have been listed in Table 1 and are shown on Drawing Number MGL/A099077/REC/01. The main pathway for the identified sources will be the atmosphere and as such, atmospheric conditions can affect dispersion rates and hence potential risk. As a result, the location of each receptor in relation to the site may influence the potential impact of the risk, as summarised in Table 1.

Table 1: Location of potential receptors in relation to the proposed activity

ID	Receptor	Direction from Operational Area	Minimum Distances from the Permit Application Boundary (approx. m)				
Des	ignated ecological habitats e.g. Ramsar, SA	C, SPA, SSSI, LNR					
1	Wakerley Spinney (SSSI)	Е	750				
2	Wakerley Woods (LWS)	E	Adjacent				
3	Short Wood Harringworth (LWS)	SW	Adjacent				
4	Long Wood (LWS)	S	Adjacent				
5	Wakerley Great Wood Road Verge (LWS)	Е	Adjacent				
6	Unnamed LWS	N	900				
Don	nestic Dwellings						
7	Residential dwellings on Main Street, Wakerley	N	725				
8	Town Wood Farm	S	775				
9	Cedar House	S	780				
10	The Cottage	S	910				
Con	nmercial and Industrial Premises						
N/A							
Hig	hways or Minor Roads						
11	Wakerley Road	N	330				
12	Access Road off Main Street, Wakerley	NE	495				
Priority Habitats							
13	Priority Habitat Inventory – Deciduous Woodland (Greenwood Sale)	S	Adjacent				
14	Priority Habitat Inventory – Deciduous Woodland (Wood Hollow)	S	215				
15	Priority Habitat Inventory – Deciduous Woodland (Town Wood)	S	505				
16	Priority Habitat Inventory – Deciduous Woodland (Laxton Wood)	SE	825				
17	Priority Habitat Inventory – Deciduous Woodland (Wakerley Spinney)	E	740				
18	Priority Habitat Inventory – Deciduous Woodland (Dismantled railway)	N	925				
19	Priority Habitat Inventory – Deciduous Woodland (Gaussen Bushes)	SE	885				
20	Ancient Woodland (Wakerley Spinney)	Е	Adjacent				
21	Unnamed ancient woodland	E	Adjacent				
		1					



22	Lowland Calcareous Grassland	E,N	Within 500				
23	Coastal and Floodplain Grazing Marsh	E, N	Within 500				
Protected Species							
24	River Welland – Migratory Route	N	850				
25	Area of protected fish species (River Welland)	N	930				
Sur	Surface Water e.g. rivers and streams						
26	6 River Welland N 850						
Groundwater							

According to the Multi-Agency Geographic Information for the Countryside's (MAGIC) website, the site is not located within a Groundwater Source Protection Zone. With regards to aquifers, the MAGIC website shows that the majority of the site overlies a Principal aquifer with an area located to the south east that comprises a Secondary B aquifer.

2.2 Climate

Rainfall

2.2.1 Rainfall data is available from a rain gauge at Wittering, located approximately 11.5km north east of the site (NGR: TF 04441 02584) shown on the Met Office website (Met Office, 2018) from 1981 to 2010 with average monthly rainfall summarised in Table 2 below.

Table 2: Monthly Rainfall Data Wellesbourne (1981 - 2010)

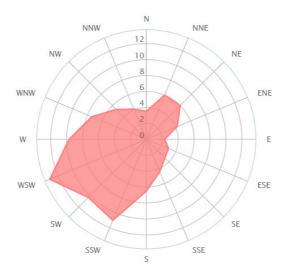
Month	Average Rainfall mm (1981 – 2010)
January	48
February	36.8
March	42
April	49.6
May	54.9
June	52
July	52.4
August	55.8
September	55.2
October	59.3
November	55.8
December	47.2
Annual (Average)	608.9

Wind Rose

2.2.2 The wind rose data, based on findings recorded at Wittering Royal Air Force (located approximately 12km north east of the site) taken from www.windfinder.com, shows that for the period September 2009 to January 2019, the prevailing wind direction is from the west south west (WSW).



Wind direction distribution in %





3.0 Operations

Waste Types and Quantities

- 3.1.1 The proposal entails the importation of inert waste to infill and restore the quarry void that will be created following mineral extraction activities working from the western edge of the site eastwards. This permit only relates to the filling of Phases A and B. Works will be completed in accordance with the restoration scheme (Drawing Number W4 18 02) as presented in the current planning application submitted by Mick George to Northamptonshire CC (Reference Number 19/00060/WASFUL).
- 3.1.2 In order to complete the proposed works at Wakerley Quarry, approximately 2.5Mm³ of inert materials will be required in total. When using a bulk density conversion factor of 1.6 tonnes/m³ this equates to approximately 4,000,000 tonnes. Importation rates for waste will be 100,000m³ per annum (approximately 160,000 tonnes per annum).

Table 3: Permitted Waste Types

EWC Code	Description	Restriction				
10	WASTES FROM THERMAL PROCESSES					
10 11	Wastes from manufacture of glass and glass products					
10 11 03	Waste glass-based fibrous materials	Only without organic binders				
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED					
15 01	Packaging (including separately collected municipal p	ackaging waste)				
15 01 07	Glass packaging					
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDE FROM CONTAMINATED SITES)	ING EXCAVATED SOIL				
17 01	Concrete, bricks, tiles and ceramics					
17 01 01	Concrete	Selected C&D waste only*				
17 01 02	Bricks	Selected C&D waste only*				
17 01 03	Tiles and ceramics	Selected C&D waste only*				
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Selected C&D waste only*				
17 02	Wood, glass and plastic					
17 02 02	Glass					
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	Excluding topsoil, peat; excluding soil and stones from contaminated sites				
19	WASTES FROM WASTE MANAGEMENT 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 05	Glass				
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS				
20 01	Separately collected fractions (Except 15 01)				
20 01 02	Glass Separately collected glass only				
20 02	Garden and park wastes (including cemetery waste)				
20 02 02	Soil and stones**	Only from garden and parks waste; excluding topsoil, peat.			

^{*}Selected construction and demolition waste with low contents of other types of materials (like metals, plastic, soil, organics, wood, rubber etc). The origin of the waste must be known.

- No C&D waste from construction, polluted with inorganic or organic dangerous substances e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances etc., unless it is made clear that the demolished construction was not significantly polluted.
- No C&D waste from constructions treated, covered or painted with materials, containing dangerous substances in significant amounts.
- The origin of the wastes must be known and they will have low contents (<5% by mass per load of other types of materials (like metals, plastics, soil, organics, wood, rubber, etc).

Final Landform and After Use

3.1.3 As detailed on the approved restoration scheme (Drawing Number W4 18 02), the site will be restored back to agricultural land and will comprise additional features that will enhance the biodiversity of the site.



4.0 Dust and Particulate Management

4.1 Responsibility for the Implementation of the Dust Management Plan

- 4.1.1 The Site Manager will be responsible for the implementation of this Dust Management Plan.

 All site staff will receive instructions on how the plan is to be implemented during tool box talks on site.
- 4.1.2 A review of the plan will be undertaken every 12 months to ensure that it is fit for purpose and meets the requirements of current guidance.

4.2 Sources and Control of Dust

4.2.1 The sources and control measures for dust emissions are provided in Table 4 below.

Table 4: Dust Emissions Risk Assessment and Management Plan

What do you do that can harm and what could be harmed?		Managing the risk	ı	Assessing the ris	sk .	
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.
Dust emissions from vehicle movements	Occupiers of domestic dwellings listed in Table 1 above. Occupants on recreational areas identified in Table 1. Local Wildlife Sites identified in Table 1. Priority habitats identified in Table 1.	Atmosphere	The site will benefit from an operational wheel wash which is used by HGV's before they leave the site. This facility will continue to be utilised as a result of this variation. Wastes being delivered will be covered or sheeted to prevent the emission of dust. All vehicle drivers will comply with the speed limits within the site and on the access roads. The Site Manager will undertake a daily visual assessment of dust	Dust could potentially reach the nearby dwellings when a strong wind blows in their direction. Management actions should prevent this happening.	Potential respiratory health risk to public and staff. Smothering.	Not significant.



	Areas of protected species identified in Table 1.		levels and all site operatives will be vigilant and report any problems to the Site Manager. If necessary, a road sweeper will be contracted to clean the site access road where vehicles exit the site The site will also benefit from a water bowser which is used to suppress dust on the haul roads in particular.			
Dust generated during loading/unloading of waste	Occupiers of domestic dwellings listed in Table 1 above. Occupants on recreational areas identified in Table 1. Local Wildlife Sites identified in Table 1. Priority habitats identified in Table 1. Areas of protected species identified in Table 1.	Atmosphere	The loading/unloading of wastes will be undertaken in a controlled manner to keep dust emissions to a minimum. Extra care will be taken with the deposit of waste during periods of prolonged dry weather or high winds. The Site Manager will undertake a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the Site Manager.	Dust could potentially reach the nearby dwellings when a strong wind blows in their direction. Management actions should prevent this happening.	Potential respiratory health risk to public and staff. Smothering	Not significant due to management techniques employed.

4.3 Dust Monitoring

- 4.3.1 All site personnel shall be trained as to the potential sources and effective mitigation of dust.
- 4.3.2 Daily visual inspections will be conducted within the site and on the local road network by the site personnel and especially during dry windy conditions to ensure that any dust sources are identified and dealt with promptly. All staff will remain vigilant and be required to identify when potentially dusty conditions are occurring on site. In the event that visible dust is being generated from the site activities, the remedial measures identified in Table 4 will be implemented.



- 4.3.3 In the event that dust emissions cannot be controlled, activities on site will cease until such point as prevailing conditions change or a more permanent dust control measure has been implemented.
- 4.3.4 A complaints log will be held on site. In the event of receiving a dust complaint, the name and location of the complainant, the nature of the dust related complaint, the site activity and prevailing weather conditions at the time of the complaint shall be noted.
- 4.3.5 The site manager shall investigate the complaint and take any remedial action which is deemed appropriate.



5.0 Reporting and Complaints Procedure

5.1 Purpose of Complaints Procedure

- 5.1.1 A Dust Management Plan should show how the operator will respond to complaints. Any complaints should be investigated promptly and appropriate remedial action should be taken. The complainant and anyone else likely to be affect should be informed of any action taken in response to the complaint.
- 5.1.2 A procedure has been developed (see Table 5 below) to ensure that complaints will be handled by Mick George appropriately and consistently and to reassure the Environment Agency and the public that any of their concerns will be acknowledged and acted upon where appropriate. The procedure will be reviewed on an annual basis or in the event of any significant dust issues. Mick George has its own Particulate Matter document which is part of its EMS which is shown in Appendix B.

5.2 Complaints Reporting Route

5.2.1 In order to ensure that members of the public are easily able to report any complaints relating to dust emissions from the site, there will be a display board at the site entrance which details the site name, the permit number, the Environment Agency's contact details and Mick George contact details. By providing contact details for the EA as well as the operator, this ensures that the member of public can report their complaint and be confident that it will be received by the appropriate party even if they feel uncomfortable discussing directly with the operator.

5.3 Complaints Records

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



Figure 1: Reporting Route

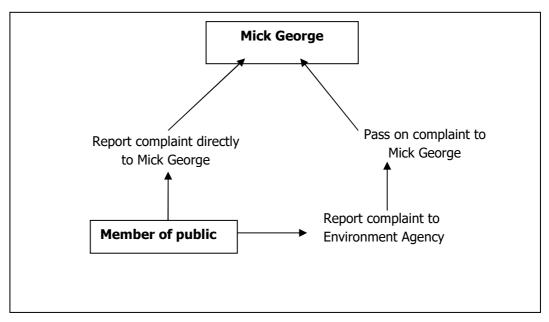


Table 5 Complaints Procedure

		Action	Person responsible for ensuring action is carried out	Timescale for Action Completion
1.	make th	e Manager will be notified of the complaint and will ne appropriate managerial staff and site operatives of the complaint.	Site Manager	Within two working day of receipt of the complaint.
	complai Complai	nvironment Agency will also be notified of the nt. The complaint shall be formally recorded using the int Report sheet contained within the site's mental Management System		
2.	The con	Checking the monitoring records to see whether the complaint corresponds to the monitoring records.	Site Manager	Within one working day of receipt of the complaint.
	b)	Checking the Site Diary and waste acceptance records to see if any particularly dusty waste was accepted.		
	c)	Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site.		
	within t	nuse of the complaint is established, it will be recorded he Complaint Record Sheet. If no particular cause is able then this will also be recorded.		



3.	If a number of complaints are received about a particular incident, then it might be necessary to increase the frequency of dust monitoring.	Site Manager	Within one working day of receipt of the complaint.
4.	The Site Manager will instigate any necessary reviews of procedures and will implement any required changes.	Site Manager	Within seven working days of receipt of the complaint.
5.	If appropriate, the complainant and the Environment Agency will be informed of any corrective actions taken.	Site Manager	Within seven working days of receipt of the complaint.
6.	A follow up audit on the corrective actions implemented shall be undertaken to ensure the complaint is not made again in the future and that the preventive procedure is effective.	Site Manager	Within two weeks of receipt of the complaint.
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 Environmental Management System. This record shall also note any amendments to procedures, both environmental and health & 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 from the site.	Site Manager	Within two weeks of receipt of the complaint.



Drawings

BBF-18/1 - Location Plan

MGL/A114610/PER/01 - Environmental Permit Boundary

BBF-18/3 - Landscape Plan

BBF-18/4 - Cross Section

MGL/A114610/REC/01 - Receptor Plan



Appendices



Appendix A – Environmental Statement Excerpt



Appendix B - MGL Particulate Matter Management and Monitoring document from EMS