
Aldridge Sand and Gravel Ltd

ENVIRONMENTAL MANAGEMENT SYSTEM

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1 Site Description and Characteristics

1.1 Site Description and Waste Management Operations

- 1.1.1 This document forms a site management system for Aldridge Sand and Gravel Ltd.
- 1.1.2 The Aldridge Sand and Gravel Facility site management system for this facility has been prepared in accordance with the Environment Agency's document titled 'Develop a management system': Environmental Permits February 2016 (updated January 2019). The information in the following sections provides details of: site plans and drawings; technical descriptions of the treatment and transfer processes on site; operational procedures to minimise the risks associated with the operations and processes; and established recording systems for document and information control. In addition, a generic risk assessment has been included that sets out actions and management procedures to minimise and mitigate potential impacts on the environment and harm to human health.
- 1.1.3 The site is regulated under an Environmental Permit No. with an associated Site Management System.
- 1.1.4 Branton Lane South landfill and inert treatment and recycling facility is situated at Branton Hill Lane and access/egress is off the Chester road. The site is located within a worked-out Sand / Gravel quarry. The quarry, which extracts sand and gravel, is located approximately 1km east-south east of Aldridge town centre at National Grid Reference SK 065 002 (See Figure 1).The inert landfill has backfilled the worked-out part of the quarry and is screened from the public. The site will not be visible from outside the quarry. The site includes perimeter bunding that have been created from overburden material during the quarrying activities and during the development of the site. The bunds will attenuate noise generated from site operations and will provide additional visual screening of the site operations.
- 1.1.5 The currently permitted landfill and quarry comprises an area some 169,000m² (17 hectares), which has been worked formerly as a quarry for sand and gravel, from west to east where current quarrying is carried out and landfilling has taken place in the middle of the quarry. The Installation Boundary has therefore included all the area covered under the current Permit and shows the extension boundary. An exemption exists for advance landscaping works along the eastern boundary of the site.
- 1.1.6 The waste recycling facility will be situated on the existing landfill and utilising the old storage bays as well.

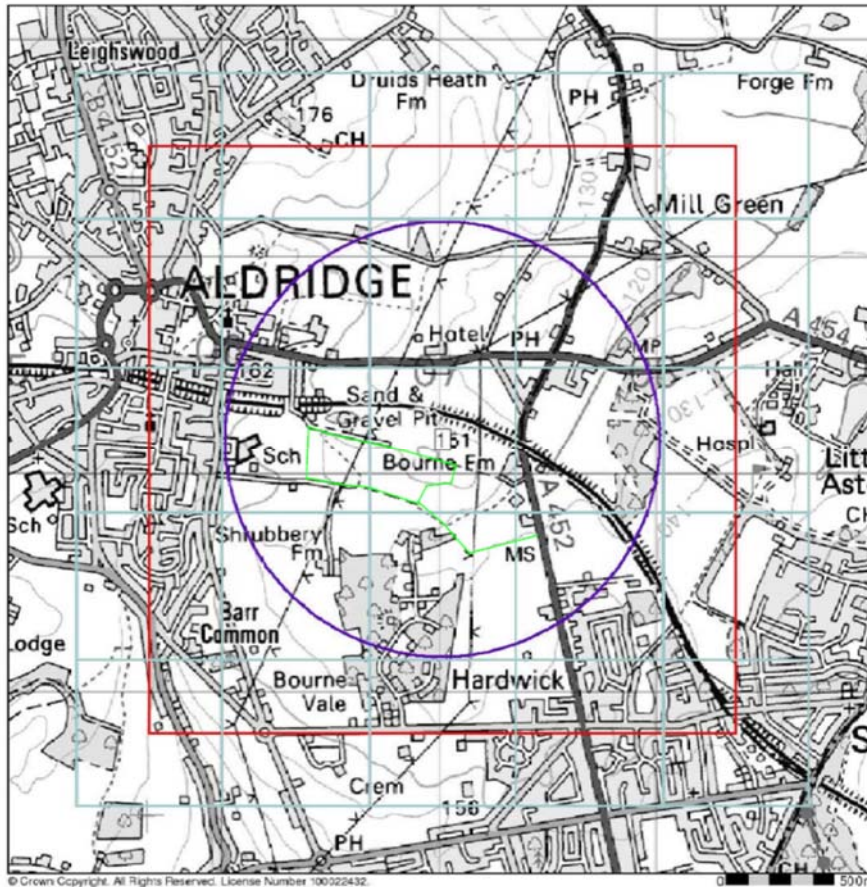


Figure 1 – Site location

1.1.6 The facility infrastructure includes: clear delineation of operational areas; concrete areas for storage and site access; and provision of a weighbridge and welfare room.

1.2 Permitted Wastes

1.2.1 The input of wastes to the facility has been set out in Environmental Permit Schedule 3 Tables S3.1

1.2.2 Hours of Operation

1.2.3 In accordance with the site's Planning Permission, operating hours for reception and processing, are Monday to Friday 0700 – 1800, Saturday 0730 – 1800. Sunday / Bank Holidays closed.

1.3 Staffing and Requirements of Permit Conditions and Site Management System

1.3.1 The facility will be directly manned by at least one operative in addition to a suitably qualified site manager/supervisor with the relevant WAMITAB qualification. Other key operatives will be trained for technical competence to assist and learn from site operations. Those trained will be conversant with the requirements of the Environment Permit and Site Management System, with particular regard to:

- Waste acceptance/rejection procedures
- Operational controls
- Maintenance procedures
- Health and safety
- Quality of products
- Record keeping
- Emergency Action Plan
- Notification to the Environment Agency and other regulatory authorities

1.3.2 A copy of the Environmental Permit and Site Management System will be kept at the site office available for reference by all site staff, other company staff, Environment Agency and other regulatory authorities.

1.3.3 The person designated as the site manager will be technically competent. The technically competent site staff includes the following:

TBC to Environment Agency on issue of Permit

1.3.4 The planned staffing level of the site will be and has been set out in more detail in section 8.1.4:

- 1 No. Site Manager/Supervisor with appropriate qualifications and experience (with relevant WAMITAB qualification)
- 1 No. Weighbridge/DOC Operator
- 2 No. Machine Operators with appropriate training and experience

1.3.5 The minimum site staffing level for operational purposes will be:

- 1 No. Site Supervisor
- 1 No. Weighbridge Operator (when materials are brought onto site)
- 1 No. Machine Operator

1.4.6 Details summarising the staff structure of the Company are detailed in Appendix H

2 Site Engineering for Pollution Prevention and Control

2.1 Engineering Site Containment and Drainage

- 2.1.1 The site has been designed to be operated in a clearly delineated area (see Figure 1). Waste will be stored, processed and screened within the delineated area.

2.2 Engineering Surface Water Management

- 2.2.1 Surface water runoff from the access roads and areas that are not used for the reception, processing and storage of waste will be into soakaway. Areas used for the transfer process will be on impermeable concrete. All hard standing and engineering works will be carried out in accordance with the Environmental Permit.

The sealed drainage system, concrete pavements, storage tanks, bunds and waste storage and processing areas will be inspected weekly. Any repairs will be made as soon as practicable and, subject to the availability of replacement materials. Mitigation measures will be undertaken immediately, if there is a risk of pollution or harm.

There are no outlets from the site drainage pipes, the storage tanks are adequate to allow containment of rainfall events and potentially contaminated firewater on site.

- 2.2.2 Alternatively, the runoff may be discharged to surface water with a discharge consent from the Environment Agency.

3 Site Infrastructure

3.1 Site Identification Board

3.1.1 An identification board made from a durable material will be erected at the site entrance. Should the damage occur to the board, it will be repaired or replaced within 7 days. This board will display the following information:

- Site name and address;
- Permit reference number;
- JM Bliss Ltd address and telephone number;
- Site opening times;
- Out of hours contact telephone number;
- Environment Agency's daytime and out of hours telephone numbers.

3.2 Site Access and Security

3.2.1 JM Bliss facility has a single access point off Branton Hill Lane and a main entrance off Chester Road.

3.2.2 The main entrance is secured with gates across the full width of the entrance/exit lane.

3.2.3 The site security and fencing (at a height of 1.8m) will be sufficient for the current operations. The perimeter of the site will be secured with a combination of chain-link fencing to a minimum height of 1.8m, hedging, post and wire fencing. In addition to this security, CCTV will be installed.

3.2.4 The site office and weighbridge will be secured with 5 lever mortis lock.

3.2.5 All visitors will be required to sign in at the site office when arriving and leaving the site.

3.2.6 The condition of the fencing, gates and site office will be inspected on a daily basis as part of site management practices and recorded in a site register. Any damage will be reported to the site manager and where practicable, repairs will be carried out before the end of the working day. In the event of additional required work, it will be completed within 14 days.

4 Site Operations –

4.1 Operating Procedures

- 4.1.1 All input materials (inert) received on site will be recorded in the site information system (weighbridge system).

4.2 Waste Acceptance and Control

- 4.2.1 Wastes are sourced mainly from local and borough councils in the West Midlands area and typically comprise of inert wastes. All wastes are assessed for their suitability with compliance for accepted waste types. All waste arriving on site will be directed to the weighbridge situated adjacent to the site office. The description, nature and source of wastes, details of the waste carrier, waste type, source and quantity (tonnes) of waste will be recorded on the weighbridge computer system. The driver will be directed to the waste landfill or reception area, where a site operative will check the waste and ensure the carrier tips in the appropriate area. The waste will be further inspected prior to processing and the weighbridge notified of any relevant information (e.g. contamination of the waste).
- 4.2.2 The load will be rejected if, by subjective assessment, it contains more than a fixed quantity of contaminant (e.g. 5% by volume) of domestic waste or other contrary materials (e.g. glass, metal, paper, plastics and building rubble). Odorous waste will be assessed by the operators and site manager for their suitability and odour generating potential prior to acceptance on site. This will be verified by other site staff that are not directly in contact with the waste (i.e. not desensitised). Any loads deemed to be excessively odorous will be rejected and details recorded in the site diary. The customer will be notified of such action (see Odour Management Plan Appendix B).
- 4.2.3 If the load is relatively free from contamination, any large items deemed inappropriate will be removed and placed into a rejects container for disposal to landfill or recycling. Typically, the contaminants will remain on site until a suitable quantity of waste for a load has been generated.
- 4.2.4 Any rejected load will be separated from the feedstock materials, photographed for records and the customer advised of the rejected load. Arrangements will be made for the collection of the waste or disposal to a suitably licensed facility, or additional processing. The rejected load will be recorded in the site diary and the Environment Agency notified of the rejected load and the rejects procedure on site.
- 4.2.5 The site will operate an information management system that will record the types, quantities, sources of waste received at the site.

4.3 Waste Processing (Storage)

4.3.1 Green waste, wood waste and plaster board will be stockpiled in the purpose-built storage bays prior to transfer off site to a recycling facility. The bays will be emptied on a regular basis as and when there is sufficient for an economical load to go off site.

4.4 Weather Monitoring

4.4.1 Weather conditions will be monitored and recorded on a daily basis using an on-site weather station located at the site office. The weather station will record temperature; precipitation (drizzle, rain, sleet, hail, snow); and wind direction. The weather data will be downloaded on a regular basis for site records and an assessment can be made regarding site activity.

4.5 Plant and equipment

4.5.1 The plant utilised for the site operations may include;

- Specialist green waste shredder;
- Wheeled loading shovels;
- Tracked or wheeled excavators;
- Specialist screening equipment;

4.5.2 It is recognised the importance of ensuring that critical plant and equipment are maintained using preventative maintenance. All plant and equipment will be maintained in accordance with manufacturers' recommendations, preventative work will be carried out as a part of routine checks. Suitable facilities for the maintenance and storage of plant and equipment will be provided.

4.5.3 In the event of a breakdown of plant or machinery, replacement equipment will be utilised while satisfactory repairs are being made.

4.6 Control of Mud and Debris

4.6.1 The vehicles using the site will travel on tarmac, concrete and hardstanding site access roads to the concrete pad and reception area (off the Chester road). It is not envisaged that there will be any significant accumulation of mud or debris that will be carried from the site to the public highway. Preventative control measures for mud and debris will include: ensuring surfaced site roads are kept in good condition and clear of mud or debris; in the event that mud or other debris should be carried on to the highway, the site manager will arrange for remedial action to be implemented immediately.

4.6.2 This action may involve hiring, without delay, a road sweeper vehicle to provide additional cleaning of the site roads and the public highway in the vicinity of the site entrance. The road sweeper will be kept on hire until the site manager has confirmed that the highway is in a satisfactory condition.

4.6.3 Site roads, weighbridge and waste reception areas will be monitored frequently during the working day to check that they are clear of mud, debris and other waste materials. Any actions taken will be recorded in the site diary.

4.7 Potentially Polluting Leaks and Spillage of Waste

4.7.1 The liquids on site that have been identified with significant pollution potential are diesel fuel. The fuel storage vessel will be designed in accordance with the Environment Agency and the Oil Storage Regulations 2004 and Control of Pollution (Oil Storage) (England) Regulations 2001. Bunded storage will provide containment of sound structural integrity for 110% of the maximum storage volume. Diesel will only be administered on an impermeable handling area to minimise the potential risks to groundwater.

4.8 Fires on Site

4.8.1 No material will be burned within the boundaries of the site. Site security will be maintained to prevent fires being started by unauthorised persons entering the premises. It is considered very unlikely that a fire will occur (based on previous experience) but should this happen, then any outbreak of fire will be regarded as an emergency, immediate action will be taken to extinguish the fire and the Environment Agency will be notified immediately.

4.8.2 Fires occurring within the stockpiles would be smothered using soils/ sand and water and the materials would be excavated and spread out on the concrete pad to ensure that the fire had been completely extinguished. The site operators have been trained in fire safety awareness and in the use of the site's fire-fighting equipment.

4.8.3 In the event of a fire occurring on site, The Environment Agency will be notified immediately.

4.8.4 All incidents of fire and actions taken will be recorded in the Site Diary and have been clearly set out in our Fire Management Plan (Appendix D).

4.9 Waste Quantity Measurement Systems

4.9.1 The quantities of waste inputs and outgoing materials will be recorded electronically on the site weighbridge computer system. Electronic records will be made of the loaded and unloaded weight of each vehicle (in tonnes), together with the nature and composition of each load.

4.9.2 In the event of failure of the weighbridge, an average estimated net weight of the relevant loads will be used and manual tickets issued.

5 Pollution Control, Monitoring and Reporting Systems

5.1 Waste Types

5.1.1 The waste types set out in the table of Schedule A and correspond to general waste types and permitted quantities set out in Schedule 3, Table S3.1 of the Environmental Permit.

Schedule A. Permitted Waste Types A(2) Waste Types, raw materials and fuels

EWC Codes (2000/532/EC)	Description of waste	Maximum permitted quantity
02 01	Wastes from agriculture, horticulture, forestry, hunting and fishing	30,000 tonnes
02 01 03	Plant-tissue waste	
02 01 07	Waste from forestry (comprising wood and plant tissue)	
03 01	Wastes from wood processing and the production of panels and furniture	
03 01 01	Waste bark and cork	
03 01 05	Sawdust, shavings, cuttings, wood, particle board and veneer other than those containing dangerous substances	
03 03	Wastes from pulp, paper and cardboard production and processing	
03 03 01	Waste bark and wood	
03 03 10	Fibre rejects only	
04 02	Wastes from the textile industry	
04 02 10	Organic matter from natural products (un-dyed and untreated only)	
15 01	Packaging (including separately collected municipal packaging waste)	
15 01 01	Paper and cardboard packaging (excluding veneers, plastic coatings or laminates)	
15 01 02	Plastic packaging (compostable plastics only)	
15 01 03	Wooden packaging	
15 01 09	Textile packaging (made entirely from biodegradable fibres only)	
17 01	Construction & demolition waste	
17 01 01	Concrete	
17 01 02	Bricks	
17 01 03	Tiles & Ceramics	
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	
17 02	Wood, glass and plastic	
17 02 01	Wood (untreated)	
17 05	Soil stones and dredging spoil	
17 05 04	Soil and Stones other than those mentioned in 17 05 03	
19 05 01	Non composted fraction of municipal and similar wastes	
19 05 03	Off specification compost	
19 12	wastes from the mechanical treatment of waste	
19 12 01	Paper and cardboard (excluding veneers or plastic coatings)	
19 12 07	Wood other than that mentioned in 19 12 06	
20 01	Separately collected fractions (except 15 01)	
20 01 01	Paper and cardboard	

20 01 38	Wood other than that mentioned in 20 01 37	
20 01 39	Plastics (compostable plastics only)	
20 02	Garden and park wastes (including cemetery waste)	
20 02 01	Biodegradable waste (comprising wood and plant tissue)	
20 03	Other municipal wastes	
20 03 02	Biodegradable waste from markets	
20 03 07	Bulky waste	

5.2 Leachate Monitoring and Reporting

- 5.2.1 The site will be engineered such that all rainwater falling on the operational area will be re-used within the site or removed from site.
- 5.2.2 Water quality from the land has been assessed from borehole samples taken during the site investigation and assessment phase. It is anticipated that site operations will not affect the groundwater regime in the vicinity.

5.3 Groundwater and Surface Water Monitoring and Reporting

- 5.3.1 All transfer activities will be carried out on an impermeable pad and reception area to prevent the risk of groundwater contamination.

5.4 Monitoring and Recording of Meteorological Conditions

- 5.4.1 Meteorological conditions will be monitored at the site office. The weather station provides continuous monitoring and data acquisition (see section 4.8).
- 5.4.2 Meteorological data will assist the day to day operational activities at the site. Furthermore, the data may be used to indicate the likelihood of dust generation from the site and hence implement the appropriate control measures.

6 Amenity Management and Monitoring

6.1 General Statement

6.1.1 This section describes the systems and procedures which will be provided to control or prevent any nuisances arising from the site activities which potentially could cause harm to human health and/or detriment to the local environment. The section has been prepared with reference to an Environmental Risk Assessment shown in Appendix A, which indicates that the potential pollution/amenity risk to receptors from the proposed activities would be very low.

6.2 Control Monitoring and Reporting of Dust, Fibres and Particulates

6.2.1 Operational activities (waste reception, shredding, screening, loading) will have the greatest potential to generate dust, airborne particles. However, the management of operations on site and its situation with natural vegetative screening will reduce the impact of these emissions on the surroundings.

6.2.2 Dust arising from site operations will be suppressed by the use of water application to the site roads and operational areas using a tractor and water bowser. However, should a dust problem be perceived or arise during the course of operations, a sampling and monitoring regime will be agreed with the Environment Agency and, if deemed necessary, additional measures will be implemented in accordance with the Dust Management plan (Appendix C).

6.2.3 Good site operations and practice will aim to control the production of dust. Materials in the stockpiles will be maintained, wherever possible, under moist conditions to reduce emissions during shredding, screening and waste handling operations.

6.3 Control of Odours

6.3.1 An odour management plan (Appendix B) has been prepared and identified potential sources and causes of odour, potential sensitive receptors and describes the operations which will be undertaken to prevent or mitigate odour emissions.

6.3.2 Odour may arise from the waste reception area where incoming waste has been stored for long periods before delivery (e.g. fortnightly kerbside collections). Odour may also be generated during the transfer process if feedstock quality and characteristics are not properly controlled or regulated. Odour can be generated if the green waste is allowed to become anaerobic. A full description of how odour will be assessed controlled and managed has been set out in detail in the Odour Management Plan, see Appendix B.

6.3.3 There are a number of potential receptors that have been identified, please see Table 6.1 below (consistent with the Odour Management Plan).

Table 6.1. Potential receptors at Brantl Lane South

Ref	Name	Direction	Distance (m)
01	Aldridge Court	NNW	724
02	Fairlawns	North	475
03	Old Irish Harp	NNE	650
04	Bourne Farm	Southeast	317
05	Shrubbery Farm	South	746
06	St Francis School	West	870
07	Domestic Residents Branton Hill Lane	WNW	663

6.3.4 The most effective method of odour control, is to adopt good working practices to ensure that odour is not generated. Odour emission is generally associated with poor processing conditions leading to low quality products. In the event that odour is generated from site a number of actions are to be implemented in accordance with the odour management plan.

6.3.5 When waste is delivered, it will be inspected. Excessively malodorous waste materials will be rejected or if manageable under specific site operations (as set out in the Odour Management Plan (Appendix B).

6.3.6 The site will be cleaned regularly to prevent any accumulation of mud detritus consistent with section 4.11.

6.4 Control and Monitoring of Noise

6.4.1 The site is located in a semi-rural setting and care will be taken to minimise the potential for noise pollution from site operations to affect adjacent properties. Primary measures will include the use of machinery fitted with appropriate silencers and maintained in accordance with manufacturer's recommendations. All operations taking place within the licensed site area will be shielded by a bund 4m in height. This will provide attenuation for any noise generated by site operations. Refer to Noise Management Plan Appendix K.

6.5 Control and Monitoring of Pests

6.5.1 The site will be checked weekly for signs of pests or any related problems. Should any pests be found on site, a specialist Pest Control Contractor will be employed to deal with the matter within 3 working days and recorded in the site diary (consistent with our Pest Control Policy, Appendix G).

6.6 Control and Monitoring of Litter

6.6.1 The material entering the site will be primarily inert waste and it is anticipated that there will be no wind-blown litter during the transfer operations. However, litter pickers will be used if necessary.

6.7 Complaints procedure

6.7.1 Aldridge Sand and Gravel Ltd has set up a complaints procedure for any issues at the site. These may include odour, dust, noise etc. All complaints will be investigated promptly and where remedial action is required, it shall be carried out without delay. A complaints procedure has been included in Appendix I and shall be used anytime a complaint is raised. It should be noted that residents or individuals can be wrong about odour, its source and its intensity. It is not always the case but it does highlight the need to carefully investigate every complaint to determine whether the site is to cause of the odour.

7 Site Records

Security and Availability of Records

7.1.1 The main site office at Paul McGowan Grab Hire Limited, Birmingham will be used to store all records, weighbridge tickets, etc.

7.1.2 Records will be transferred to the main office at the end of each working day for storage.

ASG management structure should be contacted in case of emergencies, in the following order:

Name	Telephone Number
• Paul McGowan	(mob) 07768817269 (24 Hrs) (office) 0121 7725967
• Andrew Murphy	(mob) 07767 090707

Appendix A

Site Risk Assessment (Generic Risk Assessment)

Aldridge Sand and Gravel Ltd

Appendix B

Odour Management Plan

Appendix C

Dust Management Plan

Appendix D

Fire Accident Management Plan (FPP) Currently not required

Appendix E

Emergency Plan

Appendix F

Contingency Management Plan

Appendix G

Pest Control Policy

Appendix H

Company Organisation Chart

Appendix I

Odour Complaint form

Appendix J

Drawings

Appendix K

Noise Management Plan