



# **Pode Hole Inert Recovery Site**

## **Environmental Permit Application**

### **Operating Techniques**

**November 2019**

Prepared on behalf of Mick George Limited





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**Contents**

1.0 Introduction ..... 1

2.0 Operating Procedures..... 1

3.0 Regulated Facility Infrastructure ..... 5

4.0 Emissions Control..... 6

5.0 Accident Management ..... 8

6.0 Site Management .....10

7.0 Management of Documentation .....11

8.0 Incidents and Non-Conformances .....12

**Drawings**

M15.137(a).D.001 - Location Plan

M15.137(a).D.003 - Block Phasing Northerly Extension (Permit Boundary and Phasing Plan)

1660 – 135 – Overall Restoration Plan

**Appendices**

Appendix A – Certificate of Technical Competence

Appendix B – ISO 14001 Certificate



## Pode Hole Inert Recovery Site – Operating Techniques

### 1.0 Introduction

#### 1.1 Report Context

- 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 Recovery Permit application has been prepared by WYG on behalf of the Operator, Mick George Limited (Mick George).

#### 1.2 Site Setting

- 1.2.1 The Pode Hole quarry area is located to the south of the A47, west of the village of Thorney and approximately 5 kilometres west of Peterborough at Grid Reference TF 26170 03453. The site location and the environmental permit boundary is shown on Drawing Number M15.137(a).D.003.
- 1.2.2 Access to the site is achieved directly from the A47 The Causeway via an established access point which benefits from appropriate visibility splays constructed to modern standards and a right turn lane into the site. The immediate surroundings of the site comprise agricultural land to the north, east and south; the nearest being Pode Hole Farm, located immediately to the north east of the site. Another farm is located opposite the site beyond the A47 and another to the west of Willow Hall Lane close to the south west corner of the Site.
- 1.2.3 Directly to the east of the site is the Scheduled Ancient Monument of Bar Pastures, an Iron Age/Roman settlement. This will be protected from the quarry by a 20m stand-off and a temporary 3m high bund.
- 1.2.4 The immediate surroundings of the site comprise agricultural land to the north, east and south; the nearest being Pode Hole Farm, located immediately to the north east of the site. Another farm is located opposite the site beyond the A47 and another to the west of Willow Hall Lane close to the south west corner of the Site.

#### 1.3 Geology

- 1.3.1 According to the British Geological Survey's (BGS) 'Geology of Britain Viewer', the bedrock geology of the site comprises of mudstones from the Oxford Clay Formation. These rocks were formed approximately 157 to 166 million years ago in the Jurassic Period in an environment

## Pode Hole Inert Recovery Site – Operating Techniques

dominated by shallow seas.

- 1.3.2 The superficial deposits are River Terrace Deposits of sand and gravel which were formed up to 3 million years ago in the Quaternary Period. These sedimentary deposits are fluvial in origin. As the site is a quarry, all of the superficial deposit will be removed from site prior to any filling.

### 1.4 Hydrogeology

- 1.4.1 With reference to the Multi Agency Geographic Information for the Countryside's (MAGIC) website under the Groundwater Vulnerability Map, the site is situated within an area of Minor Aquifer High vulnerability but does not lie in a Groundwater Source protection Zone. However, in terms of aquifers, the MAGIC website shows that the site doesn't overlie an aquifer in either the bedrock or the superficial deposits.

### 1.5 Hydrology

- 1.1.1 According to the Flood Map for Planning Service (FMPS) and the Abingdon Consulting Engineers Flood Risk Assessment produced for the Planning Application, a large area of the eastern side of the site falls within Flood Zones 2 and 3 (medium probability or high probability of flooding respectively). The western side of the site where the majority of the inert filling will take place is located in Flood Zone 1 which has a low probability of flooding.
- 1.1.2 In terms of surface water features, drainage ditches run around the boundaries of the site and feed into the Dog-in-a-Doublet pumping station approximately 3km west of the site which pumps flows into the River Nene. Ditches on the northern and southern boundaries are operated and maintained by the North Level Internal Drainage Board. The western edge of the site is constrained by the Cat's Water Ditch.
- 1.1.3 The River Nene is located approximately 3km to the south. The River Nene flows eastwards with water levels controlled by a sluice gate in the vicinity of the site (ACE FRA January 2017).

### 1.6 Ecology

- 1.1.4 A 'Nature and Heritage Conservation Screen' (EPR/HB3300CV/A001) was requested from the Environment Agency. The screen determines the presence of any site of nature and heritage conservation, or protected species or habitats that may be impacted by the proposal. A copy of the results is appended to the Environmental Risk Assessment (Appendix D of the Environmental Permit Application).



## Pode Hole Inert Recovery Site – Operating Techniques

- 1.1.5 The results of the screen did not identify any nature or heritage conservation issues near the site. The nearest local wildlife sites are Eye Green at 1.2km to the north west of the site and the Dogsthorpe Star Pit SSSI over 2.5km away to the west.



## Pode Hole Inert Recovery Site – Operating Techniques

### 2.0 Operating Procedures

#### 2.1 Operating Hours

2.1.1 The hours of operation of the site will be as per the planning permission for the site (Reference Number 16/02447/MMFUL) which are as follows:-

- Monday to Friday: 07:00 – 19:00; and
- Saturday: 07:00 – 13:00.

2.1.2 No work shall be undertaken on Sundays and Public Holidays.

#### 2.2 Permitted Activities

2.2.1 The proposal entails the importation of inert waste under a recovery permit to infill and progressively restore the quarry void that will be created following mineral extraction activities that are currently underway by Aggregate Industries UK Limited (AI). See Drawing Number M15.137(a).D.003 for the full permit boundary and extent of filling.

2.2.2 It is considered that the proposed activities at Pode Hole Inert recovery site will fall under the following Recovery and Disposal codes, provided for in Annex II to Directive 2008/98/EC of the European Parliament and The Council of 19th November 2008 Waste.

**Table 1: Proposed Permitted R/D Codes**

R/D Code	Activity Description
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)
R10	Land treatment resulting in benefit to agriculture or ecological improvement
R5	Recycling/reclamation of other inorganic compounds

#### 2.3 Waste Types

2.3.1 The waste codes to be taken by this site are identified by the Environment Agency as suitable for use in the restoration of mineral workings and as general fill material (Environment Agency Guidance: Waste Recovery Plans and Permits, October 2016). The proposed waste types are detailed in Table 1 below and are the same as those given in the agreed Waste Recovery Plan (Appendix E of this application):-



**Table 2: Permitted Waste Types**

<b>EWC Code</b>	<b>Description</b>
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>
<b>01 04</b>	<b>Wastes from physical and chemical processing of non-metalliferous minerals</b>
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOILS FROM CONTAMINATED SITES)</b>
<b>17 01</b>	<b>Concrete, bricks, tiles and ceramics</b>
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 05</b>	<b>Soil (including excavated soil from contaminated sites) soil and dredging spoil</b>
17 05 04*	Soil and stones other than those mentioned in 17 05 03
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION / INDUSTRIAL WASTE</b>
<b>19 12</b>	<b>Wastes from the mechanical treatment of wastes</b>
19 12 09	Minerals (for example sand, stones)
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES INCLUDING SEPARATELY COLLECTED FRACTIONS)</b>
<b>20 02</b>	<b>Garden and park wastes</b>
20 02 02	Soil and stones

*NB: 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).*

*\* This specifically excludes excavated soil from contaminated sites*

## 2.4 Waste Quantities

2.4.1 As mentioned above, sand and gravels are currently extracted from the quarry by AI. The





## Pode Hole Inert Recovery Site – Operating Techniques

estimated total void that will be available for filling is 1.98 million tonnes.

### 2.5 Waste Acceptance Procedures

2.5.1 Wastes will only be accepted onto the site if they comply with the list of wastes included in the permit. All vehicles delivering waste will be licensed waste carriers and each delivery must be accompanied by a relevant Waste Transfer Note, consistent with fulfilling the company's responsibilities under the provisions of the Duty of Care.

#### Basic Characterisation (Level 1)

2.5.2 Basic characterisation will ensure that the waste is suitable for acceptance at the regulated facility. The information to be supplied at this stage includes:-

- Source and origin of the waste;
- Information on the process producing the waste;
- Appearance of the waste, e.g. physical form; and
- The List of Wastes (England) Regulations 2005 code.

2.5.3 The inert wastes will be accepted at the site without testing, provided that there is confirmation that they are single stream loads from known reliable sources and that they are accompanied by the required information. As noted above, the 17 05 04 code will specifically exclude excavated soil from contaminated sites.

2.5.4 Loads that contain wastes from multiple streams may be accepted together, provided they are from the same source, comply with the waste types specified in the permit and are accompanied by the required information.

#### On Site Verification

2.5.5 Each load of waste delivered to the site shall be, where possible, visually inspected before unloading. Each load will be inspected after unloading. These inspections will ensure that the waste conforms to the description compiled as part of the basic characterisation.

2.5.6 If there is uncertainty regarding the acceptance of wastes at the site, testing may be required. No wastes will be accepted onto the site if there is uncertainty as to its source, conformance with the conditions in the environmental permit and/or its suitability for the intended use.

2.5.7 Routine testing will be undertaken to confirm that the above procedures are adequate for controlling the nature of the incoming waste streams. This testing will be against the limits for



## Pode Hole Inert Recovery Site – Operating Techniques

inert waste landfill waste acceptance criteria (WAC). If the material is likely to come from a single source, one sample per 1,000m<sup>3</sup> of the waste code will be taken and sent to a laboratory for analysis. The laboratory results will be reviewed and any breaches will be reported to the Environment Agency. A record will be kept of all WAC testing that is undertaken.

- 2.5.8 All site staff will be made aware of the waste acceptance procedures and will be trained in the procedures with dealing with non-conformances. The Site Manager will be responsible for ensuring that the procedures are implemented appropriately.

### **2.6 Unauthorised and Rejected Wastes**

- 2.6.1 Any loads or part loads identified as unacceptable upon discharge of the load shall be reloaded into the container and isolated whilst the Environment Agency are contacted by telephone. The most appropriate course of action shall then be agreed with the Environment Agency.

- 2.6.2 Any load or part load identified as unacceptable upon discharge of the load when the haulier has exited the site shall be isolated or quarantined on the site. The Environment Agency shall be kept informed of the subsequent course of action.

- 2.6.3 The following details of the rejected waste will be kept on site:-

- Time and date of incident;
- Haulier and vehicle registration number;
- Customer;
- Waste type; and
- Reason for rejection.

- 2.6.4 For small quantities of paper, plastic, wood and metal, a skip or similar container will be located near the operational area for the operator to dispose of such materials. The skip will be removed from site once full and taken to a permitted facility for disposal or recovery where appropriate.

- 2.6.5 Records will be kept of all rejected loads and these will be made available to the Environment Agency.



### 3.0 Regulated Facility Infrastructure

#### 3.1 Wheel Cleaning Facilities

3.1.1 If required, wheel cleaning facilities will be provided on site and if installed, will be checked on a monthly basis and any necessary work will be carried out as soon as practicable. In the event of a breakdown with prolonged downtime, additional road cleaning equipment will be provided. If necessary, a road sweeper will be contracted to clean the site access road.

#### 3.2 Fuel Tanks

3.2.1 Tanks for fuel, oil and lubricants will be provided on site, and they will be appropriately bunded (with 110% capacity). These will allow the quick and efficient fuelling and repair of the site machinery. The tanks will be maintained and inspected in accordance with the manufacturer's recommendations.

#### 3.3 Security

3.3.1 All vehicles delivering waste to the site will be required to report to the site office. Upon request, they may have to provide evidence of Registration as Waste Carriers. All other visitors to the site must sign the Visitors Book before proceeding onto the site and sign out prior to leaving.

3.3.2 A sign will be located at the site entrance detailing the name, address and telephone numbers of the permit holder, emergency contact numbers, site operating hours and the contact details of the Environment Agency. Any permanent changes to these details will be updated within 30 days. The sign will be located so that it does not encourage fly tipping and will be maintained in a satisfactory condition at all times. Signs will be erected on peripheral fences giving warnings of operations at the site.

3.3.3 A notice board will be maintained in the site reception area. A copy of the Environmental Permit and a copy of the company's 'Health and Safety Policy' will be displayed, together with any other relevant notices. A copy of all documents accompanying this application, detailing all site procedures will be kept in the site office.

3.3.4 The site will be secured from the public highway by substantial lockable gates at the site entrance and all reasonable precautions will be taken to prevent the unauthorised entry of the general public and the unauthorised depositing of wastes.



## Pode Hole Inert Recovery Site – Operating Techniques

### 4.0 Emissions Control

#### 4.1 Point Source Emissions to Air

4.1.1 There will be no point source emissions to air as a result of this application.

#### 4.2 Point Source Emissions to Groundwater

4.2.1 There will be no point source emissions to groundwater as a result of this application.

#### 4.3 Point Source Emissions to Surface Water and Sewers

4.3.1 There will be no point source emissions to surface water or sewer as a result of this application.

#### 4.4 Fugitive Emissions

4.4.1 Fugitive emissions have been identified as a potential environmental risk resulting from the proposal, as detailed in the Environmental Risk Assessment that accompanies this application.

##### **Particulate Matter (Dust)**

4.4.2 The Site Manager will undertake daily visual assessments of dust levels and all site operatives will be vigilant and report any problems to the Site Manager. The following operational procedures may be implemented to reduce the risk of dust:-

- Enforcement of a speed limit on site to prevent re-suspension and entrainment;
- Use of water to dampen site roads and operational area as necessary;
- Utilisation of a road sweeper to maintain site roads as necessary; and
- Operations will be halted if necessary.

4.4.3 The Site Manager will be responsible for monitoring wind strength and direction and implementing any necessary preventive measures.

##### **Contaminated Surface Water Runoff**

4.4.4 The potential fugitive emissions of contaminated surface water runoff resulting from the proposed activities must be considered. However, the proposed waste types are inert and therefore should not pose a risk to surface water.

4.4.5 There will be strict waste acceptance procedures in place at the site to prevent the acceptance



## Pode Hole Inert Recovery Site – Operating Techniques

of non-conforming waste types.

### **Mud**

- 4.4.6 HGV movements could result in the tracking of mud on to the access road and local highways. However, the length of the haul road and the wheelwash will mitigate this issue.
- 4.4.7 The amount of mud on these roads will be monitored and in the event that mud is deposited, a road sweeper will be utilised as necessary.

### **Noise**

- 4.4.8 All noise and vibration generating activities will be confined to the operating hours stipulated in the planning permission, with the exception of emergency repairs.
- 4.4.9 All equipment and vehicles will have effective silencers where practicable and will be maintained in accordance with the manufacturer's requirements. Further, all equipment and vehicles will be switched off when not in regular use.
- 4.4.10 All noise generating activity will be monitored closely and site operatives will be vigilant and report any excessive noise or vibration issues to the Site Manager, who will implement measures to mitigate the issue where possible.



## Pode Hole Inert Recovery Site – Operating Techniques

### 5.0 Accident Management

- 5.0.1 All necessary measures will be taken to prevent the occurrence of accidents. The types of accidents and the potential environmental consequences associated with them have been identified in the Environmental Risk Assessment that accompanies this application.
- 5.0.2 It is considered that the most significant risk associated with the site is the unauthorised acceptance of non-compliant waste types. The waste acceptance procedures listed in Section 2 of this document aim to control and minimise this risk.

#### 5.1 Fire Control

- 5.1.1 Fires from the acceptance of inert waste are considered unlikely due to the nature of the waste material. However, the operation and/or maintenance of mobile plant do pose a potential fire hazard, if precautions are not taken.
- 5.1.2 Firefighting equipment of a suitable type shall be kept at appropriate locations as advised by the Health and Safety Manager or the local Fire Service. Where appropriate, mobile plant will be fitted with firefighting equipment. All firefighting equipment shall be kept in good condition, unobstructed and be serviced at least once a year by a competent person. The site will be designated as a “no smoking area” and signed accordingly.
- 5.1.3 Any fire on the site will be treated as an emergency and will be extinguished at the earliest opportunity. If necessary, the Fire Service will be summoned. Any incidents of fire will be reported to the Environment Agency and recorded in the Site Diary.

#### 5.2 Spillage Procedure

- 5.2.1 Material accepted at the site will be inert. The most likely source for spillages will be from fuel tanks or spillages of fuel or oil associated with plant and machinery.
- 5.2.2 In the event of a spillage of fuel/oil from site machinery or vehicles, the following procedures will be implemented:-
- Clear the area straight away;
  - Lay absorbent granules over the spill to soak up the spillage;
  - Use Personal Protective Equipment (PPE) provided on site if required;



## Pode Hole Inert Recovery Site – Operating Techniques

- Once the liquid has all been absorbed use a shovel to clear up the waste, put it in a plastic sack and then place it in the container for non-compliant waste for disposal at a suitably permitted facility; and
- A record of the spill incident and remedial action taken will be recorded in the Site Diary.

5.2.3 Spillage kits will be maintained on site in order to respond to any spillage incident. The spillage kits will be kept securely in the site office.

### **5.3 Maintenance Procedures**

5.3.1 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 or to the manufacturers' maintenance schedules.

5.3.2 Details of faults, breakdowns and repairs are documented and records are maintained at the site office and by the operator's maintenance department. Faults and breakdowns will be investigated and the service schedule revised if necessary.



## Pode Hole Inert Recovery Site – Operating Techniques

### 6.0 Site Management

#### 6.1 Technical Competence

6.1.2 The site will be supervised by an individual who possesses the required level of technical competence. A copy of the Certificate of Technical Competence (COTC) is provided as Appendix A.

#### 6.2 Management System

6.2.1 The operator, Mick George, has a certified Environmental Management System (EMS) in place which is compliant with the requirements of ISO 14001. A copy of the company's ISO 14001 Certificate is provided as Appendix B of this document. The operator may update their EMS procedures from time to time to reflect working practice which will take precedent over the details contained herein.

6.2.2 All site operatives will be adequately trained in health, safety and environmental issues. Staff will only be permitted to undertake activities that they have been trained for. They will be made aware of the procedures they must follow in the event of an accident or incident and will be able to access any relevant documentation that they may require. All training, experience and qualifications of staff will be noted and these records will be maintained and kept up to date.





## Pode Hole Inert Recovery Site – Operating Techniques

### 7.0 Management of Documentation

#### 7.1 Record Keeping

- 7.1.1 Mick George Ltd has a Management System which is compliant with ISO 14001 and this includes procedures for the management of documentation.
- 7.1.2 A record will be kept that provides details on all wastes deposited at the site. This will include details on waste types, quantities and the date of deposition. This will be provided to the Environment Agency at three-monthly intervals, within one month of the end of each period. A record of basic waste characterisation and any compliance testing or on-site verification will be maintained in the site office.
- 7.1.3 A site diary will be kept in the site office, and this will be updated daily. The diary will be used to record any accidents, incidents or complaints. This will provide an ongoing record throughout the period of operation at the site, and this will enable any investigative or corrective action that may be required.
- 7.1.4 The Environmental Permit and other documents containing information regarding the operation of the site will be kept in a convenient location, allowing access for any person that may be working at or visiting the site.



## Pode Hole Inert Recovery Site – Operating Techniques

### 8.0 Incidents and Non-Conformances

8.0.1 Mick George has procedures for investigating and recording any incidents and non-conformances at the site, and for taking any corrective action. Mick George has an EMS which is compliant with ISO 14001 and this includes procedures for handling incidents and non-conformances.

8.0.2 The following types of incidents will require investigation:-

- Malfunction, breakdown or failure of plant and equipment;
- Deviation from site procedures and operating techniques;
- Near misses; and
- Complaints from external parties.

8.0.3 All staff will be trained to detect and report any such occurrences. Procedures will be taken to allow operations to resume and preventative measures may be put in place to ensure that the incident does not reoccur.



## **Drawings**

M15.137(a).D.001 - Location Plan

M15.137(a).D.003 - Block Phasing Northerly Extension (Permit Boundary and Phasing Plan)

1660 – 135 – Overall Restoration Plan



## Appendices



## **Appendix A – Certificate of Technical Competence**



## **Appendix B – ISO 14001 Certificate**