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Our ref: EA/PPC/BP3736SU

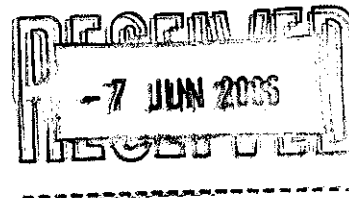
Your ref:

Date: 05 June 2006



**Environment
Agency**

The Company Secretary
Mick George Ltd
89 Station Road,
Eckington,
Nr. Sheffield,
Derbyshire,
S21 4FW



Dear Sir

**THE POLLUTION PREVENTION AND CONTROL (ENGLAND AND WALES)
REGULATIONS 2000 (SI 2000 No 1973), as amended, (the PPC Regulations);
THE LANDFILL (ENGLAND AND WALES) REGULATIONS 2002 (SI 2002 No 1559)**

Application reference: EA/PPC/BP3736SU

Applicant: Mick George (Haulage) Ltd

Installation: Southorpe Quarry

1. Your application under the PPC Regulations has been determined, and I am pleased to enclose a copy of your Permit.
2. Your notice is drawn to your Right of Appeal under Regulation 27 of the PPC Regulations if you are not satisfied with the conditions of the permit. You should note, however, that Schedule 8 of the PPC Regulations requires that appeals are made to the Secretary of State within six months of the date of issue of the attached Permit.
3. Please note that all returns required under the permit should be sent to Manfai Tang, The Environment Agency, Spalding Office, Stepping Stone Walk, Winfrey Avenue, Spalding, Lincs, PE11 1DA.

Yours faithfully

Mr Steven Holland

Direct dial 0115 8462601

Direct fax 0115 9817743



Southorpe Quarry

Permit Number BP3736SU

Introductory note

This introductory note does not form a part of the Permit

The main features of the installation are as follows. Southorpe Quarry is located 1km south of the village of Southorpe and 9km west of Peterborough in a predominantly rural area.

The site is operated by Mick George Limited and has been an inert waste disposal facility since 1995. Prior to this it was an active mineral extraction facility extracting in situ sand and gravel as well as limestone resources for use in the local construction market. Two areas of the installation, at the south and north east boundaries, have been completed.

Activities at the permitted installation will comprise direct placement of imported inert waste in two distinct parts of the worked out quarry void to raise the site to formation levels. The landfill will be permitted to accept up to 75 000 tonnes of inert waste per year. The total capacity of the site is 300 000m³.

As a result of previous landfilling activities there is no virgin land within the installation boundary and future landfilling will be take place directly onto existing waste deposits. A cap comprising 500mm imported clay compacted in two layers to attain a permeability of $1 \times 10^{-7} \text{ ms}^{-1}$ will be provided.

The Operator will be required to undertake monitoring of emissions to land and to water including groundwater and surface water to ensure that impacts on the environment and human health are reduced to an acceptable minimum.

The nearest sensitive receptor is Southorpe Paddock SSSI which lies adjacent to the north west boundary of the installation. The unimproved limestone grassland is particularly sensitive to changes in nutrient levels and smothering. The Operator will be required to ensure appropriate measures are in place to prevent impact upon the receptor.

Status Log of the Permit

Detail	Date	Response Date
Application BP3736SU	Received 09/05/05	
Response to request from English Nature for information	Request dated 16/12/05	Response dated 02/02/06
Response to request for information	Request dated 21/02/06	Response dated 20/03/06
Response to request for information – missing data	Request dated 21/02/06	Response dated 30/03/06
Request to extend determination	Request dated 16/09/05	Request accepted 21/09/05
Request to extend determination	Request dated 06/12/05	Request accepted 08/12/06
Request to extend determination	Request dated 03/02/06	Request accepted 16/02/06
Request to extend determination	Request dated 07/04/06	Request accepted 20/04/06
Permit determined	02/06/06	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of issue	Fully or Partially Superseded
Mick George (Haulage) Limited	LS 147	11/09/95	Fully superseded

Other existing Licences/Authorisations/Registrations relating to this site

Holder	Reference Number	Date of issue
Mick George (Haulage) Limited	Registration of Paragraph 19A (Storage & Use of Building Waste), Schedule 3, Exemption from Waste Management Licensing Regulations 1994, as amended	16/09/05
Mick George (Haulage) Limited	Registration of Paragraph 21 (Processing Waste Plant Matter), Schedule 3, Exemption from Waste Management Licensing Regulations 1994, as amended	16/09/05

End of Introductory Note

Permit

Pollution Prevention and Control (England and Wales) Regulations 2000
Landfill (England and Wales) Regulations 2002

Permit

Permit number
BP3736SU

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises

Mick George Limited ("the Operator"),

of/ whose Registered Office (or principal place of business) is

**Second Drove
Meadow Lane
St Ives
Cambridgeshire
PE27 4YQ**


Company registration number 2417831

to operate an installation at
**Southorpe Quarry Landfill
Sutton Road
Southorpe
Near Peterborough
Cambridgeshire
PE9 3BZ**

to the extent authorised by and subject to the conditions of this Permit.

Signed

Date

	2 June 2006
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Tom Ruffell

Authorised to sign on behalf of the Agency

Conditions

1. Management

1.1 General management

- 1.1.1 The Activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the Operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this Permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Accidents that may cause pollution

- 1.2.1 The Operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.

1.3 Finance

- 1.3.1 The financial provision for meeting the obligations under this Permit set out in the Deed of Trust dated 2 June 2006 shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Agency.
- 1.3.2 The Operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.3.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.4 Energy efficiency

- 1.4.1 There are no conditions relating to energy efficiency in this Permit.

1.5 Site security

- 1.5.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

2. Operations

2.1 Permitted activities

- 2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the "Activities").

2.2 The site

- 2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in red on the Site Plan at Schedule 2 to this Permit.

2.3 Operating techniques

- 2.3.1 The Activities shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Schedule 1 Table S1.2, unless otherwise agreed in writing by the Agency.

2.4 Off-site conditions

- 2.4.1 There are no conditions in this Permit to which Regulation 12(12) of the PPC Regulations apply.

2.5 Improvement programme

- 2.5.1 The Operator shall complete the improvements specified in Schedule 1 Table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.
- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the Operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

- 2.6.1 There are no pre-operational conditions in this Permit.

2.7 Engineering

- 2.7.1 No construction of any New Cell shall commence until the Operator has submitted Construction Proposals and the Agency has confirmed that it is satisfied with the Construction Proposals.
- 2.7.2 The construction of a New Cell shall take place only in accordance with the approved Construction Proposals unless:

- (a) any change to the approved Construction Proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Agency.
- 2.7.3 No disposal of waste shall take place in a New Cell until the Operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.7.4 No construction of Landfill Infrastructure shall commence until the Operator has submitted relevant Construction Proposals or a written request to use previous Construction Proposals and the Agency has confirmed that it is satisfied with the Construction Proposals.
- 2.7.5 The construction of the Landfill Infrastructure shall take place only in accordance with the approved Construction Proposals unless:
 - (a) any change to the approved Construction Proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Agency.
- 2.7.6 The Operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the Construction Proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it has not, within the period of 4 weeks from the date of receipt of the relevant Construction Proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the Operator that it requires further information.

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:
 - (a) they are listed in Schedule 3, and
 - (b) they are inert waste, and
 - (c) [from 30th October 2007] they are not liquid waste (including waste waters but excluding sludge), and
 - (d) all the relevant waste acceptance procedures set out in Schedule 1 of the Landfill Regulations have been completed, and
 - (e) they fulfil the relevant waste acceptance criteria, and
 - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (g) [from 30th October 2007] they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.8.2 The Operator shall visually inspect:

- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
- (b) waste at the point of deposit;

and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.

- 2.8.3 Where the Operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.8.4 The Operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on the drawing required by Improvement Condition 4 in Table S1.3.
- 2.8.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 Table S1.4.
- 2.8.7 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the Operator as commercially confidential shall be clearly identified in the record.

2.9 Leachate levels

- 2.9.1 There are no conditions relating to leachate levels in this Permit.

2.10 Closure, aftercare and decommissioning

- 2.10.1 The Operator shall maintain and operate the Activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.10.2 The Operator shall maintain a Site Closure Plan which demonstrates how the Activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.10.3 The Operator shall carry out and record a review of the Site Closure Plan at least every 4 years.
- 2.10.4 The Site Closure Plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the Activities or part thereof.

2.11 Site protection and monitoring programme

- 2.11.1 The Operator shall, within 2 months of the submission of the Application Site Report required by Improvement Condition 3 in Table S1.3, submit a Site Protection and Monitoring Programme.

- 2.11.2 The Operator shall implement and maintain the Site Protection and Monitoring Programme in relation to all areas which will not comprise permanent deposits of waste and shall carry out and record a review of it at least every 4 years commencing from the date the Site Protection and Monitoring Programme was received.

3. Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Table S4.1 of Schedule 4.
- 3.1.2 The limits given in that Schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Agency guidance LFTGN 05 and LFTGN 08.

3.2 Emissions to groundwater

- 3.2.1 There shall be no emission from the Activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the Activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameters and monitoring points set out in Table S4.2 of Schedule 4 shall not be exceeded.
- 3.2.4 The Operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
- (a) between 9 and 6 months prior to the fourth anniversary of the granting of the Permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the Permit.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 Litter or mud arising from the Activities shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 3.3.3 Litter or mud arising from the Activities shall be cleared from affected areas outside the Site as soon as practicable.

- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the Operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.3.5 The measured values from the monitoring specified in Tables S4.3 of Schedule 4 shall not exceed the limits for the parameters at the monitoring points listed in that schedule.

3.4 Odour

- 3.4.1 Emissions from the Activities shall be free from odour at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Agency, unless the Operator has used appropriate measures, to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

- 3.5.1 Emissions from the Activities shall be free from noise and vibration at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Agency, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The Operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:
- (a) Point source emissions specified in Table S4.1
 - (b) Groundwater specified in Tables S4.2 and S4.5;
 - (c) Landfill gas specified in Table S4.3;
 - (d) Surface water specified in Table S4.4.
- 3.6.2 The Operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 A topographical survey of the Site referenced to Ordnance Datum shall be carried out:
- (a) annually, and
 - (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
 - (c) following closure of the landfill or part of the landfill.
- The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the Site.
- 3.6.4 Within 6 months of the issue of this Permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the Site Protection and Monitoring Programme shall be collected and submitted to the Agency.

4. Information

4.1 Records

4.1.1 All records required to be made by this Permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Agency, for at least 6 years from the date when the records were made, or in the case of the following records until Permit surrender:
 - (i) the results of groundwater monitoring;
 - (ii) the Site Protection and Monitoring Programme;
 - (iii) sub-surface landfill gas monitoring;
 - (iv) waste types and quantities;
 - (v) topographical surveys; and
 - (vi) the specification and as built drawings of the basal, sidewall and capping engineering systems

4.2 Reporting

4.2.1 A report or reports on the performance of the Activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with this Permit against the relevant assumptions, parameters and results in the risk assessments submitted with the Application;
- (b) where the Operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the energy consumed at the Site, reported in the format set out in Schedule 5 Table S5.3
- (d) the water consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
- (e) the annual production/treatment set out in Schedule 5 Table S5.2.
- (f) details of any contamination or decontamination of the Site which has occurred;
- (g) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;

- (h) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
 - (i) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (j) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (k) the compliance testing undertaken in the period;
- 4.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in Table S5.1 of Schedule 5;
 - (b) for the reporting periods specified in Table S5.1 of Schedule 5 and using the forms specified in Table S5.4 of Schedule 5; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 The results of reviews and any changes made to the Site Protection and Monitoring Programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;

- (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and
 - (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementing any part of the Site Closure Plan in respect of any activities other than the disposal of waste in the landfill.
- 4.3.5 Where the Agency has requested in writing that it shall be notified when the Operator is to undertake monitoring and/or spot sampling, the Operator shall inform the Agency when the relevant monitoring is to take place. The Operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
 - (a) any change in the Operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary); and
 - (c) any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.

4.4 Interpretation

- 4.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 Activities		
Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A(1) (b), The disposal of waste in a landfill.	Landfill for inert waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in condition 2.8, as an integral part of landfilling.
Directly Associated Activity		
Water discharges to controlled waters.	Discharge of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.
Fuel storage.	Storage of fuel for operation of plant and equipment.	Mobile fuel storage tank.

Table S1.2 Operating Techniques		
Description	Parts	Date Received
Application	The response to questions B2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10 & 2.11 but excluding responses to questions B2.1.6, B2.2.58, B2.2.79-2.2.81, B2.3.3 & B2.9.1, including Volume I (ESID Report) but excluding Sections 2.11 & 4, including Volume II (Risk Assessments), Volume III Section 4.3-4.4 & Volume III Appendices 8, 9 10 & 11 of the Application but excluding Appendix 8 Section 5.1	09/05/05
Supplemental Information In Relation To Operating Management Procedures	All parts.	07/02/06
Response to request for information	All parts but excluding Section 5.	22/03/06
Response to request for information – missing data	All parts.	03/04/06
Letter dated 16/05/06 from Neil Johnson of Mick George Ltd regarding conditions of capping Southorpe Landfill	All parts.	18/05/06

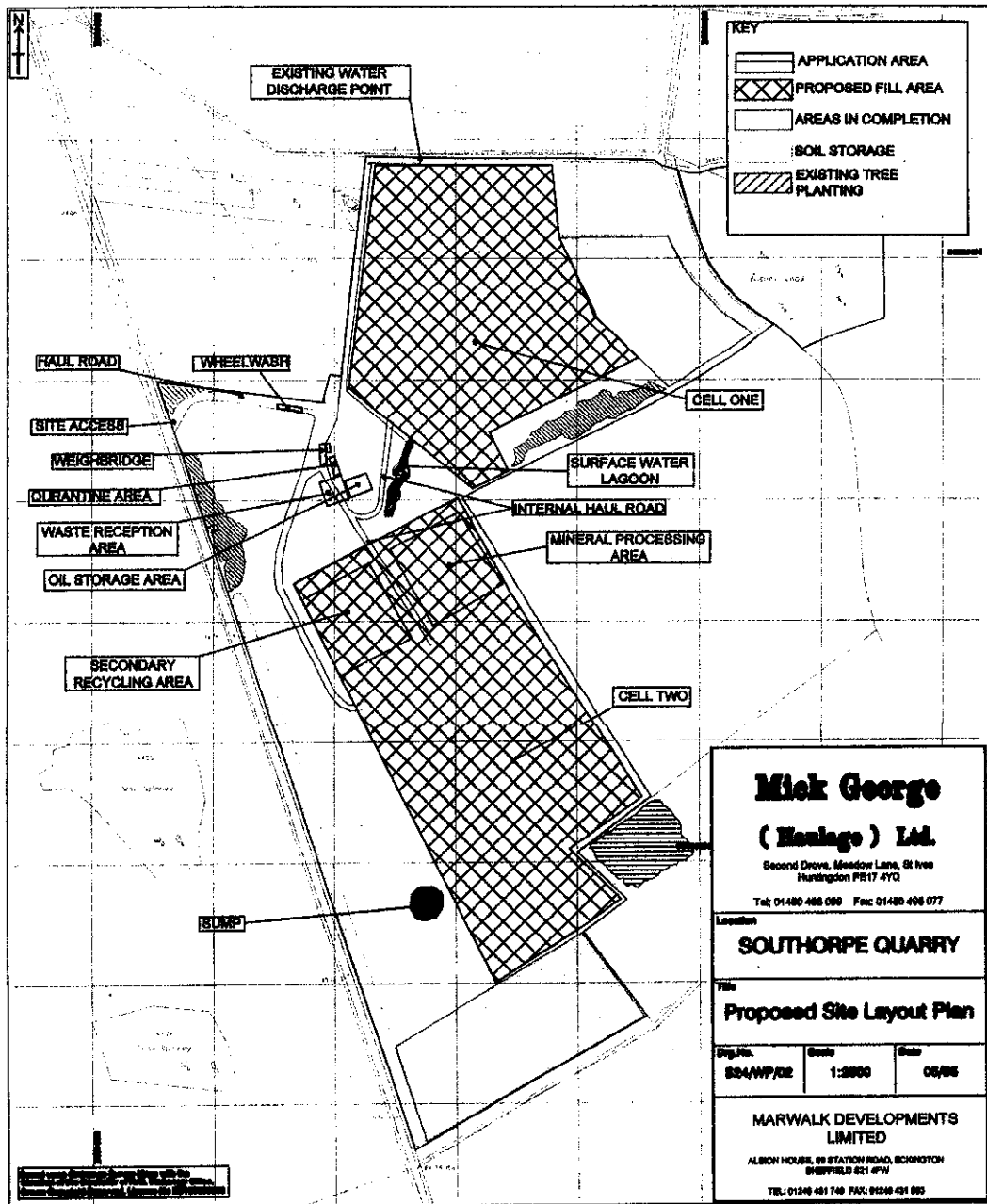
Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
1	<p>The Operator is required to develop a detailed Site Monitoring Plan in accordance with Agency guidance "Monitoring of Landfill Leachate, Groundwater and Surface Water".</p> <p>The Operator shall submit to the Agency a revised scheme for site monitoring within 1 month of permit issue. The Site Monitoring Plan should, as a minimum, include details of the points listed below in relation to all existing and proposed groundwater and surface water monitoring points. Some of the required information may have already been included elsewhere in the application, however it is required to be included in the revised scheme to form a stand-alone document for future reference.</p> <p>General requirements of the Site Monitoring Plan:</p> <p>The Site Monitoring Plan should be devised according to the Agency's best practice guidance and should include the following general areas (as discussed in sections within the guidance). Specific details relating to each of these aspects should be tailored to suit on-site conditions.</p> <ul style="list-style-type: none"> • Monitoring objectives • Monitoring locations • Monitoring schedules • Assessment criteria • Contingency actions • Design of monitoring points • Sampling methodology • Data management and reporting <p>Additional aspects requiring detailing in the Site Monitoring Plan (either separately or as part of the above outline) include:</p> <ul style="list-style-type: none"> • Appropriately scaled plans and diagrams to show sample point locations and designs. • Sample point security (e.g. protection of borehole headworks). • Construction quality assurance (CQA) programme for the installation of any additional monitoring points and any other works. • Programme for maintenance of sample points (including deadlines for repair and replacement, including decommissioning operations). • Laboratory accreditation (for all necessary analysis techniques) and quality assurance. 	3 July 2006
2	<p>The Operator is required to review all monitoring data and to submit proposals within 12 months of permit issue for:</p> <ul style="list-style-type: none"> • Control and trigger levels for groundwater • Assessment and compliance limits for surface water 	3 June 2007
3	<p>With reference to Land Protection Guidance the Operator shall provide to the Agency a Site Report that describes the condition of the site of the installation and, in particular, identifies any substance in, on or under the land which may constitute a pollution risk.</p>	2 August 2006
4	<p>The Operator shall provide to the Agency a drawing showing pre-settlement levels.</p>	3 July 2006

Table S1.4 Annual Waste Input Limits

Category	Limit Tonnes/ Year
Inert Waste	75 000

Schedule 2 - Site plan



["Reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty's Stationery Office ©Crown Copyright 2000. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings."]

Schedule 3 - List of permitted wastes

List of permitted wastes		
EW Code	Description	Restrictions
17 01 01	Concrete	Selected C&D waste only ^(a)
17 01 02	Bricks	Selected C&D waste only ^(a)
17 01 03	Tiles and ceramics	Selected C&D waste only ^(a)
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	Selected C&D waste only ^(a)
17 05 04	Soil and stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites

^(a) Selected construction and demolition waste (C & D waste): with low contents of other types of materials (like metals, plastic, organics, wood, rubber, etc). The origin of the waste must be known.

No C & D waste from constructions, 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.

Schedule 4 – Emissions and monitoring

Table S4.1 Point Source Emissions to Water (Other than Sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
SW1 identified on Drawing S24/SW/01	Suspended Solids	Surface water	20 mg/l	Spot Sample	Monthly	In accordance with "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water"
	pH		pH : between 6 and 9	Spot Sample		
	Oil/grease		None visible	Spot Sample		

Table S4.2 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GW2, GW4, GW5, GW6 identified on Drawing S24/GW/01	pH	pH : between 6 and 9	Spot Sample	Quarterly	In accordance with "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water"
	Ammoniacal Nitrogen	0.39mg/l	Spot Sample		
	Conductivity	1500 μ Sie/cm	Spot Sample		
	Chloride	100mg/l	Spot Sample		

Table S4.3 Landfill gas in monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Gas 1, Gas 2, Gas 3 identified on Drawing S24/GMP/01	Methane	1 %v/v	Quarterly	In accordance with LFTGN 03 "Guidance on the Management of Landfill Gas"
	Carbon Dioxide	1.5 %v/v		
	Oxygen	1 % v/v		
	Carbon Monoxide	[no limit]		
	Atmospheric pressure	[no limit]		
	Differential pressure	[no limit]		
	Temperature	[no limit]		
	Meteorological Data	[no limit]		

Table S4.4 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
SW1, SW2 identified on Drawing S24/SW/01	TSS, NH4-N, pH, EC, DO, Cl, COD, TON (oxidised-N), TOC, BOD	Monthly	In accordance with "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water"	
	Ca, Mg, Na, K, Alk, SO4, Fe, Mn, Cr, Cu, Sn, Ni, Pb, Zn, phenols, Cd, Hg other List I substances	Annually		

Table S4.5 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GW1, GW2, GW4, GW5, GW6, GW7 identified on Drawing S24/GW/01	Water level (mAOD), DO, pH, EC, NH4-N, Cl, temperature	Quarterly	In accordance with "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water"	
	TON (oxidised-N), TOC, BOD, COD, Ca, Mg, Na, K, Alk, SO4, Fe, Mn, Cd, Cr, Cu, Sn, Ni, Pb, Hg, Zn, phenols	6 monthly		
	Other List I substances	Annually		

Schedule 5 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this Permit, are listed below.

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
pH, Ammoniacal Nitrogen, Conductivity & Chloride	GW2, GW4, GW5 & GW6	Quarterly	2 June 2006
Water level (mAOD), DO, pH, EC, NH4-N, Cl & temperature	GW1, GW2, GW4, GW5, GW6 & GW7	Quarterly	
TON (oxidised-N), TOC, BOD, COD, Ca, Mg, Na, K, Alk, SO4, Fe, Mn, Cd, Cr, Cu, Sn, Ni, Pb, Hg, Zn & phenols	GW1, GW2, GW4, GW5, GW6 & GW7	6 monthly	
Other List I substances	GW1, GW2, GW4, GW5, GW6 & GW7	Annually	
Methane, Carbon Dioxide, Oxygen, Carbon Monoxide, Atmospheric pressure, Differential pressure, Temperature & Meteorological Data	Gas 1, Gas 2 & Gas 3	Quarterly	
Suspended solids, pH, Oil/grease	SW1	Monthly	
TSS, NH4-N, pH, EC, DO, Cl, COD, TON (oxidised-N), TOC & BOD	SW1 & SW2	Monthly	
Ca, Mg, Na, K, Alk, SO4, Fe, Mn, Cr, Cu, Sn, Ni, Pb, Zn, phenols, Cd, Hg & other List I substances	SW1 & SW2	Annually	

Table S5.2: Annual Production/Treatment

Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year

Table S5.3 Performance Parameters

Parameter	Frequency of assessment	Annual total	Unit
Potable water use	Annually		Cubic metres
Energy used	Annually		MW of electricity
Non potable water use	Annually		Cubic metres

Table S5.4 Reporting Forms

Media/parameter	Reporting Format	Date of Form
Controlled water	Reporting format to be agreed in writing with the Agency	
Surface water	Reporting format to be agreed in writing with the Agency	
Groundwater	Reporting format to be agreed in writing with the Agency	
Landfill gas	Reporting format to be agreed in writing with the Agency	
Waste summary	Reporting format to be agreed in writing with the Agency	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

Schedule 6 - Notification

This page outlines the information that the Operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Mick George Limited

Schedule 7 - Interpretation

"Accident" means an accident that may result in pollution.

"Annually" means once every Year.

"Application" means the application for this Permit, together with any additional information supplied by the Operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations

"Authorised Officer" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

"Background concentration" means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"Construction Proposals" means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details of the New Cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- "As-built" plans and sections of the works;
- Copies of the site engineer's daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

"Fugitive emission" means an emission to air, water or land from the Activities which is not controlled by an emission or background concentration limit.

"Groundwater Regulations" means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"Landfill Infrastructure" means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;

within the Site.

"Landfill Regulations" means the Landfill (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"Land Protection Guidance" means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme".

"Liquids" means any liquid other than leachate within the engineered landfill containment system.

"LFTGN 05" means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

"LFTGN 08" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

"New Cell" means any new cell, part of a cell or other similar new area of the Site where waste deposit is to commence after issue of this Permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;

- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

"*No impact*" means that the change made to the construction process will not alter the agreed design criteria, specification or performance.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this Permit which are also used in the Regulations have the same meanings as in those Regulations.

"*Quarter*" means a calendar year quarter commencing on 1 January.

"*Relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990

"*Review of the Hydrogeological Risk Assessment*" means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the Groundwater Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the Permit continue to meet the requirements of the Groundwater Regulations

"*Site Protection and Monitoring Programme*" means a document which meets the requirements for Site Protection and Monitoring Programmes described in the Land Protection Guidance.

"*Technically competent management*" and "*technical competence*" shall have the meanings given to them in the Environmental Protection Act 1990.

"*Year*" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

END OF PERMIT

creating a better place



Environment
Agency

The Site Manager
Southorpe Quarry Landfill
Sutton Road
Southorpe
Near Peterborough
Cambridgeshire
PE9 3BZ

Our ref: CP3535US

Date: 31 July, 2007

Dear Sir

**The Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 no: 1973), as amended, (the PPC Regulations);
The Landfill (England and Wales) Regulations 2002 (SI 2002 no: 1559)**

**Application reference: EA/PPC/CP3535US
Applicant: Mick George Limited
Installation: Southorpe Quarry**

We have determined your application and I enclose your copy of the variation notice.

If you wish to appeal against its conditions you can do so under regulation 27 of the within six months of the issue date. Please see the notes at the end of this letter on making an appeal.

You can find guidance on the conditions in the permit on our website at http://www.environment-agency.gov.uk/commondata/acrobat/pir_1632708.pdf

This guidance is to assist your understanding of the permit and what we expect of you with respect to compliance with the permit.

Please send all returns required under the permit to the Environment Agency, Environment Management, Stepping Stone Walk, Winfrey Avenue, Spalding, Lincs. PE11 1DA.

Yours sincerely

Mr Kevin Hall
Technical Administrator
Direct dial 0115 846 2654



Appeal

If you wish to appeal you should do so to the following, who can also provide you with the necessary forms. **You should note that your appeal must be made on the basis of the location of the installation, whose permit you are appealing.** The location of your head office or any other office is irrelevant.

In England:

Secretary of State
The Planning Inspectorate
Room 4.12 - Eagle Wing
Temple Quay House
2 The Square
Bristol
BS1 6EA

In Wales:

Welsh Assembly
Environmental Protection Division
Crown Buildings
Cathays Park
Cardiff
CF10 3NQ



ENVIRONMENT
AGENCY

Variation Notice with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Southorpe Quarry Landfill

Mick George Limited
Sutton Road
Southorpe
Near Peterborough
Cambridgeshire
PE9 3BZ

Variation Notice Number
CP3535US

Permit number
BP3736SU

Southorpe Quarry Landfill Permit Number BP3736SU

Introductory note

This introductory note does not form a part of the permit

The following notice is issued under regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a permit issued under the Regulations to operate an installation. The notice comprises schedule 1 containing conditions to be deleted, schedule 2 conditions to be amended and schedule 3 conditions to be added.

The site is operated by Mick George Limited and has been an inert waste disposal facility since 1995. Prior to this it was an active mineral extraction facility extracting in situ sand and gravel as well as limestone resources for use in the local construction market.

The original permit allowed the facility to accept up to 75 000 tonnes of inert waste per year. The total capacity of the site is 300 000m³. The application to vary the permit requests that the annual input be increased to 300 000 tonnes of inert waste per year.

Status Log of the Permit		
Detail	Date	Response Date
Application BP3736SU	Received 09/05/05	
Response to request from English Nature for information	Request dated 16/12/05	Response dated 02/02/06
Response to request for information	Request dated 21/02/06	Response dated 20/03/06
Response to request for information - missing data	Request dated 21/02/06	Response dated 30/03/06
Request to extend determination	Request dated 16/09/05	Request accepted 21/09/05
Request to extend determination	Request dated 06/12/05	Request accepted 08/12/06
Request to extend determination	Request dated 03/02/06	Request accepted 16/02/06
Request to extend determination	Request dated 07/04/06	Request accepted 20/04/06
Permit determined	02/06/06	
Variation CP3535US determined	30/07/07	

End of Introductory Note

Variation Notice
Pollution Prevention and Control
(England and Wales) Regulations 2000

Variation Notice

Permit number
BP3736SU
Variation number
CP3535US

The Environment Agency (the Agency) in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby varies the permit held by you

Mick George Limited ("the operator"),

whose registered office (or principal office) is:

Second Drove
Meadow Lane
St Ives
Cambridgeshire
PE27 4YQ

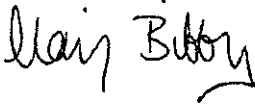
company registration number 2417831

to operate an installation at

Southorpe Quarry Landfill
Sutton Road
Southorpe
Near Peterborough
Cambridgeshire
PE9 3BZ

to the extent set out in schedules 1 to 3 of this variation notice .

The notice shall take effect from 00.01 hours on 31 July 2007

Signed	Date
	30 July 2007

Claire Bibby – Waste Permitting Team Leader

Authorised to sign on behalf of the Agency

SCHEDULE 1 – CONDITIONS TO BE DELETED

1. None

SCHEDULE 2 – CONDITIONS TO BE AMENDED

2. Table S1.4 Annual Waste Input Limits – Tonnes per year limit to be changed from 75000 to 300000.

Table S1.4 Annual Waste Input Limits	
Category	Limit Tonnes/ Year
Inert Waste	300 000

SCHEDULE 3 – CONDITIONS TO BE ADDED

3. None

END OF PERMIT

Alison Drury
Environment Agency
Trentside Offices
Scarrington Road
West Bridgford
Nottingham
NG2 5FA

16th May 2006

Dear Sirs

**Re: Pollution Prevention and Control Regulations 2000 and Landfill (England and Wales) Regulations 2002
Mick George Limited, Southorpe Quarry**

We refer to our application for a Permit under the PPC Regulations in relation to our Site at Southorpe Quarry and in connection with your proposal to incorporate conditions requiring the capping of the site we make the following observations:-

1. We do not believe that it is necessary to clay cap any part of the Site but this will need to be considered as deposition occurs;
2. Having regard to restoration which has occurred and been completed to date any requirement to provide a clay cap should not apply to any part of the Site which lies outside the area shown edged and hatched blue on the attached plan; and
3. Insofar as clay capping is necessary the following factors or technical points shall be considered and adhered to (as applicable):-
 - 3.1 The cap at Southorpe will be designed to minimise the risk of infiltration of precipitation into the landfill, minimise the risk of potential fugitive emissions and to ensure the physical separation of waste from the surrounding environs.
 - 3.2 The main component of the cap will be the geological mineral layer comprising a 500mm layer of imported clay material that will be compacted in two layers to attain a permeability of 1×10^{-07} m/s. This will be achieved using compaction plant capable of providing adequate compaction to the full depth of the layer.
 - 3.3 Prior to capping works being undertaken, the waste mass will be trimmed and rolled to provide a surface suitable for receipt of the clay materials that will be used to provide the engineered mineral layer. This will also incorporate the removal of protruding objects and filling of any hollows. If required a regulating layer can be installed to ensure the integrity of mineral layer is not compromised.

- 3.4 The mineral layer will be tied into the previously restored landforms at Southorpe, and in addition will overlap or tie into the perimeter of the cells, to ensure that no surface water run off can enter the cells after the completion of engineering operations.
- 3.5 The mineral layer will be overlain by the restoration soils which will comprise a profile of 0.9m subsoil and 0.3m topsoil. This will utilise the soil resource already stripped as part of on-site operations.
- 3.6 The construction of the cap will be undertaken in line with modern CQA procedures (including full supervision and report), to ensure compliance with the agreed design. The final design and specification of the cap is proposed to be submitted with the CQA plan.

If and insofar as it is not possible to amend your proposed conditions requiring capping of the Site we are content that the Permit is issued but on the basis that the Agency accepts that any obligation to cap shall not apply to any part of the Site outside the area referred to in 2 above. It is accepted by us that the requirement to cap and the areas within the area referred to in 2 above will be dependent on the position agreed with the local office.

Yours faithfully



Neil Johnson
Technical & Waste Manager