

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Grundon Sand & Gravel Limited

Frith End Sand Quarry

Grooms Farm Lane

Frith End

Bordon

GU35 0QR

Permit number

EPR/FB3802FG

Frith End Sand Quarry

Permit number EPR/FB3802FG

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Frith End Quarry site is permitted to carry out a deposit of waste for recovery activity. The site is located approximately 4 kilometres to the south of the Farnham, Surrey.

The site is currently an active sand and gravel quarry which is being restored in stages. The deposit of waste for recovery activity shall form part of the restoration plans for the site.

The operator is limited to import a total of 700,000 m³ of non-hazardous waste for the deposit activity. This will be limited to the operator accepting a maximum of 300,000 m³ per annum.

The non-hazardous wastes that will be deposited to land shall be limited to the waste codes:

- EWC 01 04 09 - waste sand and clays, originating from physical and chemical processing of non-metalliferous minerals; and,
- EWC 17 05 04 - soil and stones (excluding topsoil and peat), originating from construction and demolition activities.

If the operator needs to deploy mobile plant under a mobile plant permit at a site that is subject to a site based permit to enable the operator to complete the recovery activity, there will be inconsistencies between the requirements of the two permits and, in this situation, those of the site based permit prevail. Therefore the operator must be able to deliver the desired recovery activity through use of this permit alone, without relying upon the subsequent use of a separate mobile plant permit.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/FB3802FG/A001	Duly made 21/11/18	Application for a deposit for recovery activity permit.
Additional information received	15/02/19	Updated waste acceptance criteria, maximum capacity calculations, site and restoration plans, site stability report and hydrogeological risk assessment.
Additional information received	22/03/19	Updated dust and emission management plan, updated risk assessment, and updated waste recovery plan submitted.
Additional information received	02/04/19	Updated emission monitoring plan submitted.
Additional information received	05/07/19	Updated waste acceptance procedure submitted.
Permit determined EPR/FB3802FG	31/07/19	Permit issued to Grundon Sand & Gravel Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FB3802FG

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Grundon Sand & Gravel Limited (“the operator”),

whose registered office is

**Thames House
Oxford Road
Benson
Wallingford
Oxfordshire
OX10 6LX**

company registration number 00443147

to operate waste operations at

**Frith End Sand Quarry
Grooms Farm Lane
Frith End
Bordon
GU35 0QR**

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

Name	Date
Tom Carey	31/07/2019

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only 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 green on the site plan at schedule 7 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 Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ('plan') specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.4 Waste acceptance

2.4.1 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2, table S2.1;
- (b) it has been identified as a suitable waste in the approved waste recovery plan;
- (c) its chemical, physical and biological characteristics make it suitable for its intended use on the site; and
- (d) it fulfils the approved waste acceptance criteria; and
- (e) all the approved waste acceptance procedures have been completed; and
- (f) it conforms to the description in the documentation supplied by the producer and holder; and
- (g) It is not waste consisting solely or mainly of dusts, powders or loose fibres; and
- (h) It is not hazardous wastes; and
- (i) It is not waste in liquid form.

2.4.2 The operator shall:

- (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the site and waste at the point of deposit; and
- (b) be satisfied that the waste conforms to the requirements of condition 2.4.1.

2.4.3 The total quantity of waste that shall be deposited under the permit shall be limited by the final levels shown on the final levels contour plan referenced in schedule 1 table S1.2.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 The operator shall prevent the input of any hazardous substances from the activities into groundwater.

3.1.2 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:

- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
- (b) between nine and six months prior to every subsequent six year anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

- 3.2.2 All liquids in containers, 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 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

- 3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

- 3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) groundwater specified in table S3.1;
- (b) ground gas specified in table S3.2; and
- (c) surface water specified in table S3.3.

- 3.5.2 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.

- 3.5.3 The operator shall undertake a topographical survey of the site referenced to ordnance datum that shall be used to produce a plan of a scale adequate to show the surveyed features of the site:

- (a) prior to commencement of the recovery activity; and
- (b) on completion of the recovery activity to show final waste levels.

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 Environment 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) off-site environmental effects;
 - (ii) matters which affect the condition of the land and groundwater;
 - (iii) waste types and quantities;
 - (iv) the results of groundwater monitoring; and
 - (v) the results of ground gas monitoring.

4.1.2 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery, origin and the identity of the carrier and producer of any waste that is received for recovery. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

4.1.3 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment 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 schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2 ; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall submit the topographical survey plans required by condition 3.5.3 (a) and (b) to the Environment Agency within one month of the completion of the survey.

4.3 Notifications

4.3.1 In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

- (a) inform the Environment Agency,
 - (b) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (c) take the measures necessary to prevent further possible incidents or accidents;
- 4.3.2 In the event of a breach of any permit condition the operator must immediately—
- (a) inform the Environment Agency, and
 - (b) take the measures necessary to ensure that compliance is restored within the shortest possible time.
- 4.3.3 In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.4 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 Where the Environment 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 Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.7 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.8 The operator shall notify the Environment Agency in writing:
- (a) at least 14 days before the commencement of the recovery activity;
 - (b) within 14 days of completion of the recovery activity.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made 'immediately', in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities	
Description of activities for waste operations	Limits of activities
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)	Secure storage of wastes listed in Table S2.1 for the purpose of recovery. Storage of wastes listed in Table S2.1 shall be limited to three years.
R5: Recycling/reclamation of other inorganic compounds	Use of waste types specified in Table S2.1 for the purposes of construction work and/or restoration, reclamation or improvement of land.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/FB3802FG/A001	Response to section 3a – technical standards, Part B4 of the application form. Environmental Setting and Site Design Report (document reference: Environmental Setting and Site Design Report, dated: April 2018).	30/08/18
Response to Schedule 5 notice dated 29/01/19	Waste acceptance criteria (document reference “Appendix 5 - Checking Quarry Restoration Material at Frith End Quarry”). Maximum capacity calculations for the deposit for recovery (email reference: “Appendix 11 – Capacity Calculation”). Maximum capacity calculations for the inert fill buttress (drawing reference: Appendix 12 - inert fill buttress “GFRITH1902”). Site Plan for “Area A” and “Area B” (drawing reference: Appendix 13 Inert fill location “DG/QO/FRI/EA/01”). Site Stability Report (document reference “Appendix 14 - Review of Options for Gault Clay Slopes at Frith End Quarry, dated 02/05/17”). Final Contour Plan (drawing reference: DG QO FRI Phasing Plan Res Full “Restoration Proposal”, dated: July 2018). Quantitative Hydrogeological Risk Assessment (document reference: Quantitative Hydrogeological Risk Assessment, dated: April 2018).	15/02/19
Response to request for information dated 11/03/19	Dust and Emissions Management Plan (document reference: Dust and Emissions Management Plan version 1, dated: 02/11/18). Approved Waste Recovery Plan (document reference Waste Recovery Plan - Version 3, dated: November 2017).	22/03/19
Response to request for information dated 25/03/19	Environmental monitoring site plan (reference: Monitoring Point Plan, Version A Final).	02/04/19
Response to request for information dated 03/07/19	Waste Acceptance Procedure at Frith End Quarry (Document Number: SO/QO/FRI/034 v3.0).	05/07/19

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for use of waste in deposit for recovery	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 300,000 m ³ per year.
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 09	waste sand and clays
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones (excluding topsoil and peat)

Schedule 3 – Emissions and monitoring

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Emission points GW1 to GW7 inclusive, GrB1 to GrB3 inclusive and GrY3 [Note 1]	Electrical Conductivity, Chloride, Ammoniacal Nitrogen, COD, BOD, Total Suspended Solids, pH.	Twice per year	Spot sample	
	Sulphate, Alkalinity, TON, TOC, Sodium, Potassium, Calcium, Magnesium, Iron, Manganese, Chromium, Copper, Nickel, Lead, Cadmium, Zinc, Boron.	Annually	Spot sample	

Note 1 - Reference points as shown on the environmental monitoring site plan (reference: Monitoring Point Plan, Version A Final), as listed in Table S1.2 of the permit.

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GRB1 to GRB3 inclusive, GRGW1 to GRGW7 inclusive, GRO1, GRO3(1), GRO3(2) and GRY3 [Note 1 and 2]	Atmospheric pressure, Methane, Carbon Dioxide, Oxygen.	Monthly	Spot sample	

Note 1 - Reference points as shown on the environmental monitoring site plan (reference: Monitoring Point Plan, Version A Final), as listed in Table S1.2 of the permit.

Note 2 - Additional monitoring points to be included for in-waste borehole monitoring. This requirement has been specified within the document "Appendix 8A - Environmental Monitoring", referenced in Table S1.2 of the permit.

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Emission points SW01, SW02, SW03, SW04 [Note 1]	Electrical Conductivity, Chloride, Ammoniacal Nitrogen, COD, BOD, Total Suspended Solids, pH.	Twice per year	Spot sample	
Emission point SW05 [Note 1]	Electrical Conductivity, Chloride, Ammoniacal Nitrogen, COD, BOD, Total Suspended Solids, pH.	Monthly	Spot sample	

Note 1 - Reference points as shown on the environmental monitoring site plan (reference: Monitoring Point Plan, Version A Final), as listed in Table S1.2 of the permit.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data		
Parameter	Reporting period	Period ends
Groundwater monitoring Parameters as required by schedule 3, table S3.1	Every 6 months	31 March, 30 September
Ground gas monitoring Parameters as required by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Other surface water monitoring Parameters as required by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
Groundwater	Form Groundwater 1 or other form as agreed in writing by the Environment Agency	31/07/19
Ground gas	Form Gas 1 or other form as agreed in writing by the Environment Agency	31/07/19
Surface water	Form Water 1 or other form as agreed in writing by the Environment Agency	31/07/19

Schedule 5 – Notification

These pages outline 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 EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment	
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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment	
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 submitted 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 facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

‘accident’ means an accident that may result in pollution.

‘Annex I’ means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘Annex II’ means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘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 5 to the EP Regulations.

‘authorised officer’ means any person authorised by the Environment 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 groundwater, the groundwater quality up-gradient of the site; or
- For emissions of ground gas, the ground or air outside the site and not attributable to the site

‘emissions of substances not controlled by emission limits’ means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

‘groundwater’ means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

‘List of Wastes’ means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

‘quarter’ means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

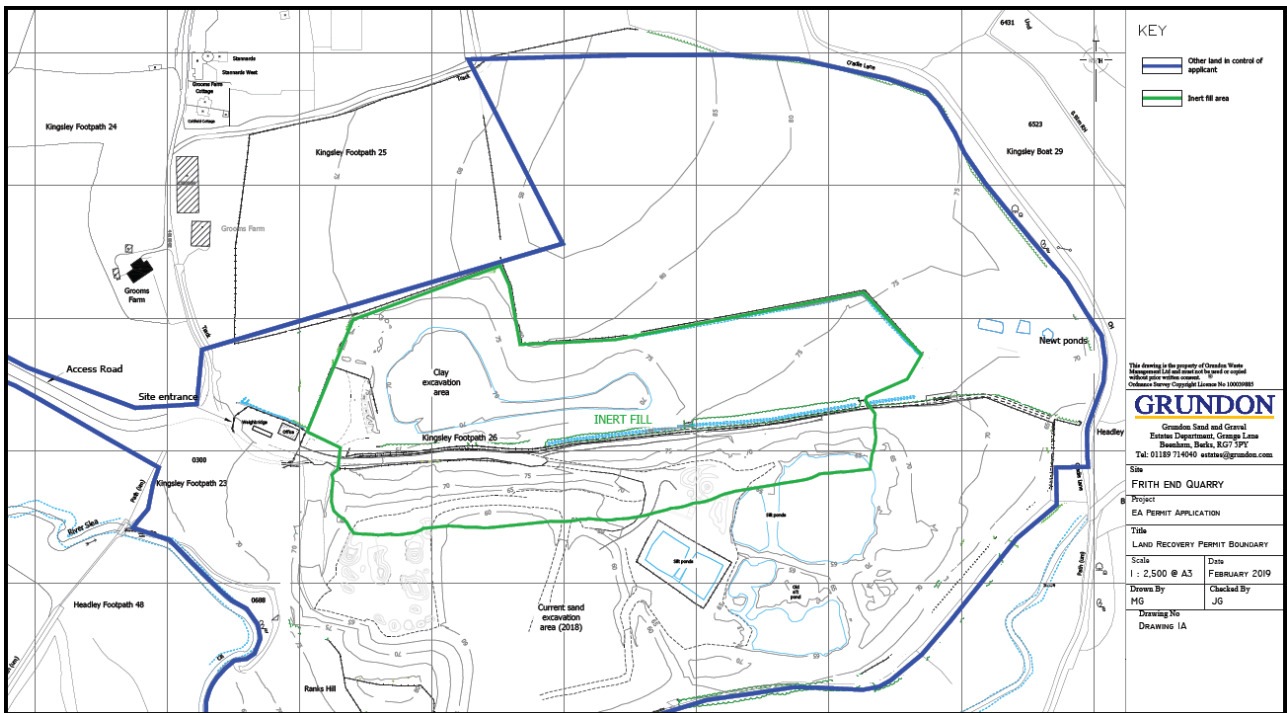
‘R’ means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘Waste code’ means the six digit code referable to a type of waste in accordance with the ‘List of Wastes’ and in relation to hazardous waste, includes the asterisk.

‘Waste Framework Directive’ or ‘WFD’ means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘year’ means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT