Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Brett Aggregates Limited

Hatfield Aerodrome
Inert Landfill, Waste Treatment and Mining Waste Operations
Hatfield Road
Hertfordshire
AL4 0HN

Permit number

EPR/EB3808HD

Hatfield Aerodrome
Permit number EPR/EB3808HD

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The application is for an inert landfill operation at the site of the former Hatfield Aerodrome. The operator will also produce extractive mineral waste (silt) from the quarry operations located within the permit boundary and manage this on-site. Both operations will run in parallel. Silt produced as a result of washing the sand and gravel will be stored in lagoons on site and regulated as a waste under this permit. Imported waste will be used to construct an artificial geological barrier to a thickness of 1 metre and a maximum permeability of 1 x 10-7 m. Waste material will not be deposited below this artificial geological barrier.

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/EB3808HD/A001	Duly made 13/02/2017	Application for inert landfill and non-hazardous waste treatment and mining waste operation.
Additional information received	09/03/17	PRE-SETTLEMENT DRAWING 005A.
Additional information received	17/07/2017	Schedule 5 response.
Additional information received	18/09/2017	Schedule 5 response including revised Hydrogeological Risk Assessment.
Additional information received	13/10/2017	Schedule 5 response.
Additional information received	07/12/2017	Confirmation that waste will not be deposited below artificial geological barrier.
Permit determined EPR/EB3808HD	15/01/2018	Permit issued to Brett Aggregates Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/EB3808HD

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

Brett Aggregates Limited ("the operator"),

whose registered office is

150 Aldersgate Street
London
EC1A 4AB

company registration number 00316788

to operate waste operations at

Hatfield Aerodrome
Inert Landfill, Waste Treatment and Mining Waste Operations
Hatfield Road
Hertfordshire
AL4 0HN

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

Name	Date
Tracey Pollard	**15/01/2018**

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 Finance

1.2.1 No activities authorised by this permit shall be commenced unless the operator has entered into an Agreement with the Environment Agency to secure financial provision for meeting the obligations under this permit and has provided the provision.

1.2.2 The operator shall give prior notice to the Environment Agency of its intention to commence operations at the site.

1.2.3 The financial provision provided under condition 1.2.1 above shall thereafter be maintained by the operator throughout the subsistence of the permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.

1.2.4 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 1.2.1; and

the estimated costs for the closure and aftercare of the landfill.

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

1.3.1 The operator shall:

(a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;

(b) review and record at least every four years whether changes to those measures should be made; and

(c) 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.

2.3.3 The operator shall review the mining waste plan every five years from the date of initial approval.

2.4 Pre-operational conditions

2.4.1 The activities shall not be brought into operation until the measures specified in schedule 1, tables S1.3A and S1.3B have been completed.

2.5 Landfill Engineering

2.5.1 No construction of any new cell or development area shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

2.5.2 The construction of a new cell or development area 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 Environment Agency.

2.5.3 The operator shall submit a CQA Validation Report to the Environment Agency within 4 weeks following the construction of the new cell.

2.5.4 No disposal of waste shall take place in a new cell or development area until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.

2.5.5 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 Environment Agency has confirmed that it is satisfied with the construction proposals.

2.5.6 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 Environment Agency.

2.5.7 The operator shall submit a CQA Validation Report within 4 weeks of the completion of the landfill infrastructure.

2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.1 and 2.5.5 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

2.5.9 For the purposes of conditions 2.5.1, 2.5.4 and 2.5.5 the Environment Agency shall be deemed to be satisfied where it has not, within the period of four 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.

2.5.10 Where the Environment Agency has required further information under condition 2.5.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

(a) confirmed whether or not it is satisfied; or

(b) informed the operator that it requires further information.

2.6 Waste acceptance

2.6.1 Wastes shall only be accepted for disposal if:

(a) they are listed in schedule 2, table S2.1 and

(b) they are inert waste; and

(c) they are not liquid waste (including waste waters but excluding sludge); and

(d) all the relevant waste acceptance procedures 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) they are wastes which have been treated, except for wastes for which treatment is not technically feasible.

2.6.2 The operator shall:

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

(b) be satisfied that the waste conforms to the requirements of condition 2.6.1.

2.6.3 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.

2.6.4 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.6.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing PRE-SETTLEMENT DRAWING 005A March 2017.

2.6.6 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1, table S1.4.

2.6.7 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 restoration 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.

2.7 Closure and aftercare

2.7.1 The operator shall maintain a closure and aftercare management plan.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 The limits in schedule 3 shall not be exceeded.

3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, table S3.1.

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

3.1.4 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 years after the sixth anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

3.2.1 For the activities A1 and A2 referenced in schedule 1, table S1.1 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 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.3 Noise and vibration

3.3.1 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.

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to 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.

3.4 Monitoring

3.4.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:

(a) Groundwater specified in tables S3.1 and S3.3;

(b) Landfill gas specified in table S3.2; and

(c) Surface water specified in table S3.4;

3.4.2 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.

3.4.3 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:

(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.

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) the results of groundwater monitoring;

(ii) landfill gas monitoring;

(iii) waste types and quantities.

4.1.2 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 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 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency. 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 in relation to this activity and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;

(b) the topographical surveys required by condition 3.4.3 other than those submitted as part of a CQA validation report;

(c) 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;

(d) an assessment of the settlement behaviour 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;

(e) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and

(f) a plan(s) ('the monitoring point plan – MPP') showing the locations of all monitoring points.

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 or other reporting format as agreed in writing with the Environment Agency; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 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.

4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six 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.

4.3 Notifications

4.3.1 In the event:

(a) 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—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) 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.

4.3.2 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.

4.3.3 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.

4.3.4 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.

4.4 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 specified activity and WFD Annex I and II operations		**Limits of activities**
A1	D1: Deposit into or on to land	The deposit of inert waste into or onto land. Waste types as specified in table S2.1.
A2	R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R5: Recycling or reclamation of other inorganic material R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Treatment consisting of screening and crushing of waste for recovery. Waste types as specified in table S2.1.
A3	R5: Recycling or reclamation of other inorganic material	Recovery of waste in landfill engineering in accordance with condition 2.5. Waste types as specified in table S2.2
A4	The storage, treatment and disposal of inert extractive waste and unpolluted soil resulting from the prospecting, extraction, treatment and storage of mineral resources and the working of quarries	Permitted waste types shall conform to the description in the approved waste management plan.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Extractive Waste Management Plan (WMP) SLR Ref: 427.01009.00140, August 2016 Version No: 1	12/12/16
Application	Waste acceptance criteria as stated in Appendix E and page 9 and pages 56 to 84 of Operating Techniques document.	12/12/16
Application	Environmental Setting and Installation Design SLR Ref: 427.01009.00140 Version No:1 August 2016	12/12/16
Application	Operating Techniques, SLR Ref: 427.01009.00140 Version No: 1, October 2015	12/12/16
Application	Environmental Risk Assessment, SLR Ref: 427.01009.00140/ERA, August 2016	12/12/16
Application	Stability Risk Assessment, SLR Ref: 427.01009.00140, Version No: 2, October 2016	12/12/16
Application	Hydrogeological Risk Assessment SLR Ref: 427-01009-00140/HRA Version No: 2 September 2017	18/09/17

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Schedule 5	Response to Question 2 of Schedule 5 request where the applicant confirms no waste soils will be bought to the site for the purposes of restoration	13/10/17

Table S1.3A Pre-operational measures	
Reference	**Pre-operational Measures**
1	No landfilling activities shall commence on site until adequate provision by way of financial security has been put in place and the Environment Agency has agreed in writing that operation may commence in accordance with condition 1.2.1 and 1.2.2.

Table S1.3B Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational Measures**
1	Ammoniacal nitrogen limits	Prior to deposit of waste the operator shall: • Set control level and compliance limit, 3 months before landfilling commences using at least 12 sets of data, the results of which will be obtained from quarterly monitoring. • Undertake the monitoring in accordance with the Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003). • Submit a written report identifying compliance limits and action levels to the Environment Agency for approval.

Table S1.4 Annual waste input limits	
Category	**Limit Tonnes/ Year**
Inert Waste for disposal	250,000

Schedule 2 – List of permitted waste

Table S2.1 Permitted waste types for disposal at a landfill for inert waste (250,000 tonnes per annum)	
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 01	**wastes from mineral excavation**
01 01 02	wastes from mineral non-metalliferous excavation
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
10	**Wastes from thermal processes**
10 11	**wastes from manufacture of glass and glass products**
10 11 03	waste glass-based fibrous materials
10 12	**wastes from manufacture of ceramic goods, bricks, tiles and construction products**
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 07	glass packaging
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 01	**concrete, bricks, tiles and ceramics**
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
17 02	**wood, glass and plastic**
17 02 02	glass
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**

Table S2.1 Permitted waste types for disposal at a landfill for inert waste (250,000 tonnes per annum)	
Waste code	**Description**
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 05	glass
19 12 09	minerals (for example sand, stones)
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 02	glass
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones

Table S2.2 Permitted waste types for construction of the geological barrier in accordance with agreed CQA Plans	
Waste code	**Description**
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 other than those mentioned in 17 05 03
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones

Schedule 3 – Emissions and monitoring

Table S3.1 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
Upper Mineral Horizon Compliance down-gradient boreholes: BHEU and BHJU	Sulphate Nickel Selenium Cadmium Naphthalene Ammoniacal Nitrogen	144 mg/l 0.04 mg/l 0.005 mg/l 0.0006 mg/l 0.001 mg/l TBC[1]	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Lower Mineral Horizon Compliance down-gradient boreholes:BH101L and BH106L	Sulphate Nickel Selenium Cadmium Naphthalene Ammoniacal Nitrogen	250 mg/l 0.10 mg/l 0.005 mg/l 0.0011 mg/l 0.001 mg/l TBC[1]			
Chalk Compliance down-gradient BH101C and BH106C	Sulphate Nickel Selenium Cadmium Naphthalene Ammoniacal Nitrogen	250 mg/l 0.043 mg/l 0.005 mg/l 0.0001 mg/l 0.001 mg/l TBC[1]			

1. Control level and compliance limit to be set 3 months before landfilling commences using at least 12 sets of data gained prior to disposal of waste, the results of which will be obtained from, at least, quarterly monitoring.

Table S3.2 Landfill gas in monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
Peripheral boreholes GMW109, GMW107, GMW105, GMW101, GMW114, GMW113, GMW112, GMW111 GMW110 as identified on Drawing 007	Methane	1 %v/v	Quarterly	As specified in Environment Agency Guidance LFTGN03 'Guidance on the management of landfill gas' (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered
	Carbon Dioxide	[no limit]		
	Oxygen	[no limit]		
	Relative Pressure Flow	[no limit]		
	Atmospheric Pressure	[no limit]		
In-waste monitoring boreholes G1 to G48 as identified on Drawing 007	Methane	[no limit]		Record whether the ground is: waterlogged frozen snow covered
	Carbon Dioxide	[no limit]		
	Oxygen	[no limit]		
	Relative Pressure Flow	[no limit]		
	Atmospheric Pressure	[no limit]		

Table S3.3 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
All monitoring wells	Groundwater level (mAOD) Well base	Quarterly Annual	
Up hydraulic gradient: BH102U BH103U BH104L BH104C	Electrical conductivity, chloride , sulphate, ammoniacal nitrogen, fluoride, phenol, TON, TOC, COD, BOD, total alkalinity (CaCO3), magnesium, manganese, potassium, lead , zinc, copper, cadmium, mercury nickel, iron, chromium, calcium, selenium, sodium, Nitrate, pH, naphthalene, ionic balance	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Down hydraulic gradient: BHEU & BHJU BH101L & BH106L BH101C & BH106C	Electrical conductivity, chloride , sulphate, ammoniacal nitrogen, fluoride, phenol, TON, TOC, COD, BOD, total alkalinity (CaCO3), magnesium, manganese, potassium, lead , zinc, copper, cadmium, mercury nickel, iron, chromium, calcium, selenium, sodium, Nitrate, pH, naphthalene, ionic balance	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency. After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.

Table S3.4 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
SW1 (up-stream) SW11 (up-stream) SW7a (down-stream) As per Drawing HRA4	Electrical conductivity, chloride (Cl), sulphate (SO4), ammoniacal nitrogen (NH3-N), fluoride, phenol, TON, TOC, COD, BOD, total alkalinity (CaCO3) (tot alk), magnesium (Mg), manganese (Mn), potassium (K), lead (Pb), zinc (Zn), copper (Cu), cadmium (Cd), mercury (Hg), nickel (Ni), iron (Fe), chromium (Cr), calcium (Ca), selenium (Se), sodium (Na), Nitrate, pH, naphthalene, ionic balance and suspended solids	Quarterly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

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**
Emission to groundwater As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in monitoring boreholes As specified by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Other groundwater monitoring As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Other surface water monitoring As specified by schedule 3, table S3.4	Every 12 months	31 December

* - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2.

Table S4.2 Reporting Forms		
Media/parameter	**Reporting Format**	**Date of Form**
Controlled water	Form Water 1, or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Groundwater	Form Groundwater 1, or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Landfill gas	Form LFG 1, or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Waste Return	E-waste Return Form	-
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-

Schedule 5 – 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 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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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 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 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 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.

"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 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 sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

"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 Landfill Infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details 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 Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

"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 limit.

"Emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations 2016, 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.

"Exceeded" means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

"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.

"Hazardous substances" as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22 and listed in our risk assessment guidance.

"Inert waste" means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.

"Landfill infrastructure" means any specified element of the:

- Artificially established geological barrier;
- surface water drainage systems;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes.

"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.

"Liquids" means any liquid other than leachate.

"MPP" Monitoring point plan, required to specify routine monitoring locations.

"No impact" means that the change made to the construction process will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

"Previous year" means the 12 month period preceding the month the annual report is submitted in.

"Quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"Relevant waste acceptance criteria" means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

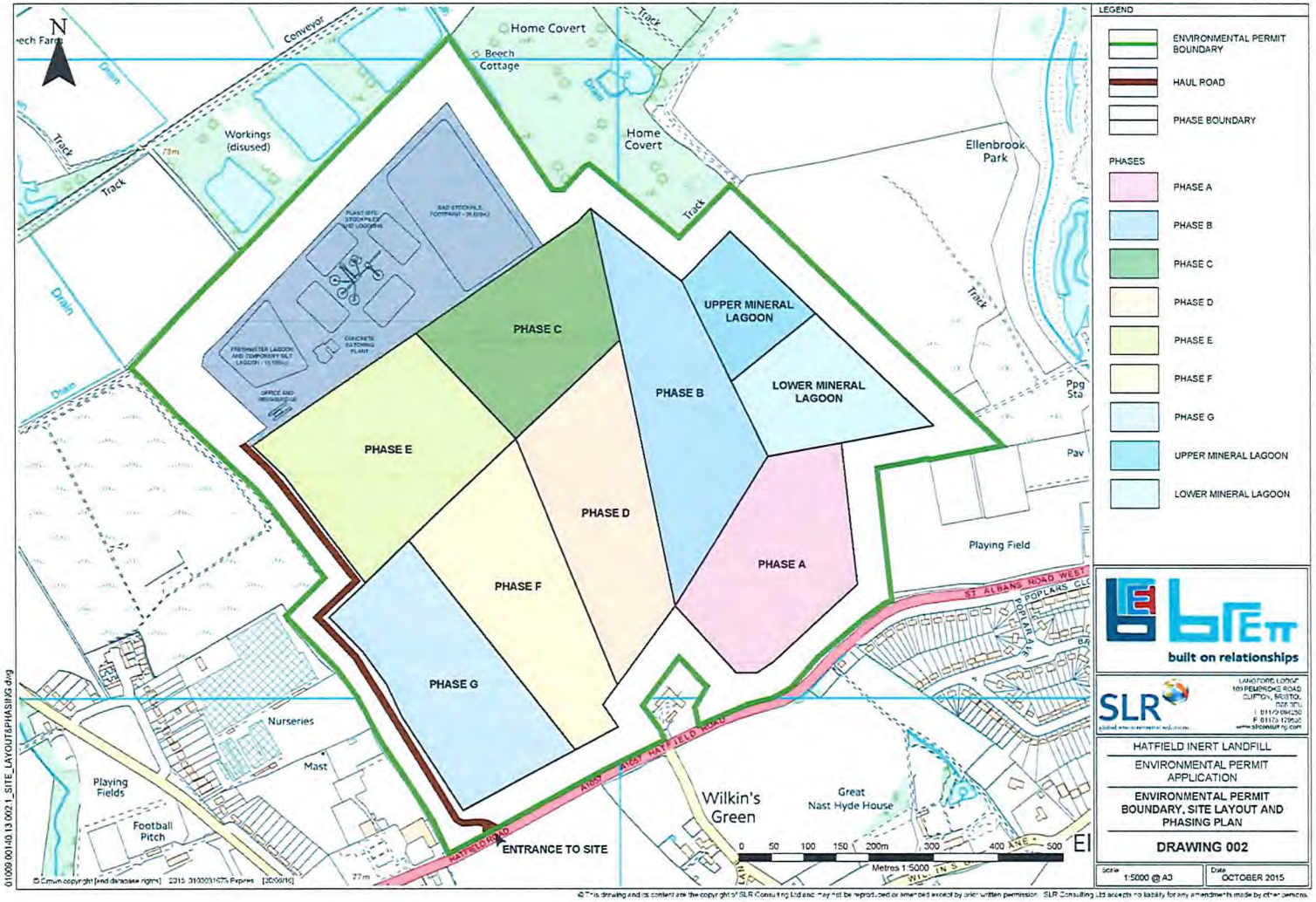
"Relevant waste acceptance procedures" means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

"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 EP 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 EP Regulations.

"Waste code" – See "List of Wastes".

"WFD" means Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste [and repealing certain Directives] – the Waste Framework Directive.

Schedule 7 – Site plan



END OF PERMIT

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Brett Aggregates Limited

Hatfield Aerodrome
Inert Landfill, Waste Treatment and Mining Waste Operations
Hatfield Road
Hertfordshire
AL4 0HN

Variation application number

EPR/EB3808HD/V002

Permit number

EPR/EB3808HD

Hatfield Aerodrome
Permit number EPR/EB3808HD

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation notice amends the waste codes that can be accepted on site; several waste codes have been removed from the list of permitted wastes to align with the waste types detailed within 'The Landfill Tax (Qualifying Material) Order 2011'. Table S2.1 has been amended to include an additional restriction/notes that states all waste accepted must be listed within the Landfill Tax (Qualifying Materials) Order 2011 at the request of the operator; Table S2.2 has also been amended to include an additional note that states soil includes naturally occurring sands and clays.

The schedules specify the changes made to the original permit.

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

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/EB3808HD/A001	Duly made 13/02/2017	Application for inert landfill and non-hazardous waste treatment and mining waste operation.
Additional information received	09/03/2017	PRE-SETTLEMENT DRAWING 005A.
Additional information received	17/07/2017	Schedule 5 response.
Additional information received	18/09/2017	Schedule 5 response including revised Hydrogeological Risk Assessment.
Additional information received	13/10/2017	Schedule 5 response.
Additional information received	07/12/2017	Confirmation that waste will not be deposited below artificial geological barrier.
Permit determined EPR/EB3808HD	15/01/2018	Permit issued to Brett Aggregates Limited.
Application EPR/EB3808HD/V002 (variation)	Duly made 11/11/2019	Application to remove waste codes.
Variation determined EPR/EB3808HD	02/01/2020	Varied permit issued.

End of introductory note

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/EB3808HD

Issued to

Brett Aggregates Limited ("the operator")

whose registered office is

150 Aldersgate Street
London
EC1A 4AB

company registration number 00316788

to operate a regulated facility at

Hatfield Aerodrome
Inert Landfill, Waste Treatment and Mining Waste Operations
Hatfield Road
Hertfordshire
AL4 0HN

to the extent set out in the schedules.

The notice shall take effect from 02/01/2020

Name	Date
Tracey Pollard	**02/01/2020**

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator.

Table S2.1 as referenced in condition 2.6.1(a) is amended as follows:

Table S2.1 Permitted waste types for disposal at a landfill for inert waste (250,000 tonnes per annum)	
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 08	waste gravel and crushed rocks other than those mentioned in 01 04 07[1]
01 04 09	waste sand and clays[1]
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11[1]
17	**Construction and demolition wastes (excluding excavated soil from contaminated sites)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete [1] [2]
17 01 02	bricks [1] [2]
17 01 03	tiles and ceramics [1] [2]
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 [1] [2]
17 05	**soil, stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03 (excluding topsoil and peat) [1] [3]
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones (excluding topsoil and peat) [1] [3]

Note [1] – All wastes received must be listed in the Landfill Tax (Qualifying Materials) Order 2011.

Note [2] – 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 C&D 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.

Note [3] –Soil includes naturally occurring sands and clays

Table S2.2 is amended as follows:

Table S2.2 Permitted waste types for construction of the geological barrier in accordance with agreed CQA Plans	
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 other than those mentioned in 17 05 03[1]
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones[1]
Note [1] – Soil includes naturally occurring sands and clays	

Schedule 3 – conditions to be added

None.