

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Etex Building Performance Limited

Etex Building Performance
Redland Avenue
Easton-in-Gordano
Bristol
BS20 0FB

Variation application number

EPR/XP3036SZ/V008

Permit number

EPR/XP3036SZ

Etex Building Performance

Permit number EPR/XP3036SZ

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

The variation permits the expansion of plasterboard operations at the operator's manufacturing facility in Bristol, introducing a second 50 million square metre per year capacity board production line, referred to as BL4. This effectively doubles the production capacity of the site as a whole. The installation boundary is extended to include the land on which the new production line is located, adjacent to the existing facility.

The new production line has generated a need for a ball mill accelerator product (BMA) used in the plasterboard manufacturing process. This requires a new workshop (the 'BMA workshop') and a replacement ball mill which grinds, blends and reduces lignosulphonate and BMA to finer particulates. The workshop and ball mill are located within the existing main warehouse and utilise existing storage infrastructure. This is the only change to the existing plasterboard manufacturing line (referred to as BL1/BL2) as a result of this variation. There are no new emission points associated with the BMA workshop and ball mill.

There are a number of new emission points to air arising from the dryers, heat exchangers, calciner and dust abatement processes associated with the new production line. Run off from the new truck wheel wash bay is discharged, via interceptor, to sewer.

The installation is regulated for the following activities:

Section 3.5 B(a) Unless falling within Part A(1) or Part A(2) of Section within this Schedule, the crushing, grinding or other size reduction, other than the cutting of stone or the grading, screening or heating of any designated mineral or mineral product except where the operation of the activity is unlikely to result in the release to air of particulate matter

Section 1.1 A(1)(a) Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more

Etex Building Performance is located on Redland Avenue within the Royal Portbury Docks area of Bristol (approximately 7.5 km to the northwest of Bristol city centre). The site is approximately centred at national grid reference ST 50885 76922. The installation is surrounded by industrial and disused land, with the M5 motorway located approximately 750m to the southeast of the site. The new plant is built on land previously used for coal storage. The River Avon lies 600m to the north and east, and beyond, the River Severn estuary is 800m to the north.

The installation now comprises two separate lines producing plasterboard and coving from gypsum (BL1/BL2 and BL4), and directly associated combustion plant that provides heat and power. The installation accepts gypsum rock and recovered plaster gypsum by ship and road as the main raw materials, which are stored in enclosed facilities. The gypsum is crushed and then milled and heated, or fed into a calciner and heated. Both routes lead to the production of stucco (heated, dried gypsum plaster). The heated stucco is combined with additives and water to produce slurry. The slurry is extruded, cut and dried to form plasterboard and coving, which is stored and dispatched to the customer.

The main emissions from the installation are to air, comprising particulates from the gypsum processes and combustion gases from the combustion of natural gas. There are no process discharges to sewer or surface water. Uncontaminated surface water run off discharges to the River Avon. No disposal to land takes place at the installation.

The following habitats sites are located with relevant screening distances of the site: Severn Estuary Special Area of Conservation (SAC), Special Protection Area (SPA), Ramsar and Site of Special Scientific Interest (SSSI) and Avon Gorge Woodlands SAC as well as a number of local nature reserves, wildlife sites and ancient woodland.

The nearest residential receptor is located approximately 150 metres to the northwest of the site.

The installation has an internal Environmental Management System (EMS) certified to ISO 14001.

The schedules specify the changes made to the 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 XP3036SZ	Duly made 04/04/2006	
Request for further information made 10/05/2006	22/05/2006	
Permit determined	19/09/2006	
Variation application EPR/XP3036SZ/V002	Duly made 17/01/2012	
Variation determined EPR/XP3036SZ/V002	20/03/2012	
Application EPR/XP3036SZ/V003 (admin variation)	Duly made 10/12/2012	
Variation determined EPR/XP3036SZ/V003	07/01/2013	Varied permit issued.
Application EPR/XP3036SZ/V004 (variation and consolidation)	Duly made 30/05/2014	Application to vary permit to allow new calcining operations, refining plant and gypsum storage and existing operations to use just DSG and waste plasterboard.
Variation determined EPR/XP3036SZ	30/07/2014	Varied and consolidated permit issued in modern condition format.
Application EPR/XP3036SZ/V005 (variation and consolidation)	Duly made 20/10/2016	Application to vary permit to change the site address to Redland Avenue, conditions for emission monitoring in schedule 6 and emission requirements in Schedule 3 table S3.2.
Variation determined EPR/XP3036SZ	11/11/2016	Varied permit issued.
Notified of change of company name	09/01/2017	Name changed to Etex Building Performance Limited.
Variation issued EPR/XP3036SZ/V006	17/01/2017	Varied permit issued to Etex Building Performance Limited.
Variation issued EPR/XP3036SZ/V006	17/01/2017	Varied permit issued to Etex Building Performance Limited.
Variation application	Duly made	Application to vary to remove emission points A14 and W2 and amend the monitoring location

Status log of the permit		
Description	Date	Comments
EPR/XP3036SZ/V007	25/07/2019	for emission point W1
Variation issued EPR/XP3036SZ/V007	04/11/2019	Varied and consolidated permit issued
Application received	Duly made 27/06/2023	Application to expand plasterboard manufacturing operations and to extend the installation boundary.
Additional information received Response to email dated 11/09/2023	14/09/2023	Confirmation of standards for monitoring of existing emission points.
Additional information received Response to Schedule 5 notice dated 08/09/2023	13/10/2023 and 25/10/2023	Revised air quality assessment and additional information on how amenity impacts are mitigated at the site.
Additional information received Response to email dated 06/11/2023	17/11/2023	Confirmation of monitoring arrangements at emission point A49.
Variation determined EPR/XP3036SZ/V008	26/03/2024	Varied permit issued.

End of introductory note

Notice of variation and consolidation

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 and consolidates

Permit number

EPR/XP3036SZ

Issued to

Etex Building Performance Limited (“the operator”)

whose registered office is

**Gordano House
Marsh Lane
Easton-in-Gordano
Bristol
BS20 0NE**

company registration number **02163844**

to operate a regulated facility at

**Etex Building Performance
Redland Avenue
Easton-in-Gordano
Bristol
BS20 0FB**

to the extent set out in the schedules.

The notice shall take effect from 26/03/2024

Name	Date
Beccy Brough	26/03/2024

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

Schedule 1, Table S1.1 (Activities), as referenced by condition 2.1, is amended by adding plasterboard production line BL4 to activity AR1 and additional combustion plant to activity AR2. The existing and new production lines are referenced as BL1/BL2 and BL4 respectively.

Condition 2.2 is amended by including revised site plans at Schedule 7.

Schedule 1, Table S1.2 (Operating Techniques), as referenced by condition 2.3, is amended by adding additional operating techniques.

Schedule 1, Table S1.3 (Improvement programme requirements), as referenced by condition 2.4, is amended by adding improvement condition IC11.

Conditions 3.1 and 3.5 are amended by adding reference to Schedule 3, Table S3.3 (Point source emissions to sewer).

Schedule 3, Table S3.1 (Point source emissions to air), as referenced by conditions 3.1 and 3.5 is amended to include monitoring emission limit values and monitoring requirements for emission points A31 to A52.

Schedule 3, Table S3.2 (Point source emissions to water), as referenced by conditions 3.1 and 3.5, is amended to include emission point W2.

Schedule 4, Table S4.1 (Reporting of monitoring data), as referenced by condition 4.2, is amended to include reporting of monitoring at emission points A32, A49, A50 and A52.

The following conditions were varied as a result of an Environment Agency initiated variation:

Schedule 1, Table S1.1 (Activities), as referenced by condition 2.1, is amended by describing all directly associated activities in accordance with the modern permit template.

Schedule 2, Table S2.1 (Raw materials and fuels), as referenced by condition 2.3, is amended to list non-waste raw materials.

Schedule 3 (Emissions and monitoring), as referenced by condition 3.1 is amended by deleting the interpretation text before Table S3.1 (Point source emissions to air).

Schedule 3, Table S3.1 (Point source emissions to air), as referenced by condition 3.1, is amended to include current monitoring standards for continuous particulate monitoring.

Schedule 5 (Notification), as referenced by condition 4.3, is amended in accordance with the modern permit template.

Schedule 6 (Interpretation), as referenced by condition 4.3, is amended in accordance with the modern permit template.

The following conditions are added as a result of the application made by the operator:

Condition 2.5 (Pre-operational conditions) is added together with Table S1.4 in Schedule 1.

Schedule 2, Table S2.2 (Permitted waste types and quantities), as referenced by condition 2.3, is amended to only include wastes that are imported from off-site for use as a raw material without further processing.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/XP3036SZ

This is the consolidated permit referred to in the variation and consolidation notice for Environment Agency led variation EPR/XP3036SZ/V008 authorising,

Etex Building Performance Limited (“the operator”),

whose registered office is

**Gordano House
Marsh Lane
Easton-in-Gordano
Bristol
BS20 0NE**

company registration number **02163844**

to operate an installation at

**Etex Building Performance
Redland Avenue
Easton-in-Gordano
Bristol
BS20 0FB**

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

Name	Date
Beccy Brough	26/03/2024

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.

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

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

1.4.1 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.

- 1.4.2 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 red on the installation boundary and emission point 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder;
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

- 2.4.1 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 Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

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 schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

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 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.
- 3.2.3 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) point source emissions specified in tables S3.1, S3.2 and 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 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment 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 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; and
 - (ii) matters which affect the condition of the land and groundwater.

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 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 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment 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 the permit including an interpretive review of that data;
 - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 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 S4.4; 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, 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.
- 4.2.5 Within 1 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, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

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 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.
- 4.3.4 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.
- 4.3.5 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.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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			
Activity Reference	Activity listed in Schedule 1 of the EPR Regulations	Description of specified activity	Limits of specified activity and waste types
AR1	Section 3.5 B(a)	<p>Unless falling within Part A(1) or Part A(2) of Section within this Schedule, the crushing, grinding or other size reduction, other than the cutting of stone or the grading, screening or heating of any designated mineral or mineral product except where the operation of the activity is unlikely to result in the release to air of particulate matter.</p> <p>[Plaster production lines BL1/BL2 and BL4]</p>	<p>Plaster process: from receipt of gypsum and other raw materials (as specified in Tables S2.1 and S2.2), through gypsum crushing and milling, calcination to produce stucco, further grinding/milling (to produce plaster), then production, cutting and drying of plasterboard and coving. Includes abatement of emissions to air.</p>
AR2	Section 1.1 A(1)(a)	<p>Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.</p> <p>[Aggregation of all units 119.8 MWth]</p> <p>Production line BL1/BL2 natural gas burners:</p> <p>Cove line dryer: 2.69 MWth, Flash calciner: 8.94 MWth, Mill 1 & 2: 2 MWth, Line 1 dryer: 19.6 MWth, Line 2 dryer: 11.65 MWth, Kettles: 12 MWth, Vulcain calciner: 11.65 MWth.</p> <p>Production line BL4 gas burners:</p> <p>Gypsum dryer: 19 x 1.4 MWth, 1 x 5.3 MW gas burner, Calciner: 1 x 19 MWth</p>	<p>From receipt of natural gas fuel to operation of direct-fired combustion plant to dry and treat gypsum and plasterboard.</p>
Directly Associated Activity			
AR3	Raw materials storage and handling		<p>Receipt of raw materials at site, handling and storage, including gypsum rock, de-sulphurogypsum (DSG), quality protocol compliant recovered gypsum (as specified in Table S2.1), process additives and fuel for vehicles.</p>
AR4	Operation of condensate recovery systems		<p>Receipt of moisture-laden air to return of condensate to the manufacturing process or its disposal as a waste.</p>

Directly Associated Activity		
AR3	Waste storage and handling	From waste generation, handling, storage and monitoring through to final dispatch off site.
AR4	Reuse/recycling of waste gypsum (generated on site)	Collection of internal wet/dry scrap, processing to separate gypsum from the paper and gypsum/paper recycling, and storage prior to use.
AR5	Finished product handling and storage, including bagging.	Storage of finished products and transfer off site.
AR6	Operation of systems for the supply of utilities and services, including electricity, water and compressed air.	Utilities and services systems as far as the installation boundary, any associated fuel storage.
AR7	Discharge to foul sewer	From the collection of run off from truck wash to point of entry (via interceptor) to foul sewer (emission point S1).
AR8	Surface water drainage	From the collection of uncontaminated surface water to point of discharge (emission points W1 and W2).
AR9	Import, storage and handling of waste gypsum and other treated wastes from off-site prior to being used as a raw material without further processing	Receipt of waste materials from off-site, including waste gypsum, handling and storage prior to use as a raw material. Waste types as specified in Table S2.2.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section 2.1 and 2.2 in the Application.	04/04/2006
Additional information to the application	Responses to questions 2, 4 and 5 detailing the condensate return system, the containment for wax and additive unloading areas, and the wax overflow point.	22/05/2006
Variation Application EPR/XP3036SZ/V002	All documentation submitted in support of Application EPR/XP3036SZ/V002	09/12/2011 and 17/01/2012
Variation Application EPR/XP3036SZ/V003	Response to section 3 of part C3 of the application form, and sections 1, 3.2, 3.3, 4 and 7 of "Environmental Permit Report – Final, May 2014 Revised, 47066810.B002/LORP0001"	Duly made 30/5/2014
Variation application EPR/XP3036SZ/V007	Variation summary July 2019, Part B: Further Technical Information Response to question 3a in the Part C application form: Diagram July 2019	22/07/2019
Variation application EPR/XP3036SZ/V008	Response to section 3 of application form part C3	Duly Made 27/06/2023
Response to Schedule 5 notice dated 08/09/2023	Response to question 2 regarding operation of the ball mill, BMA workshop, associated silos and lorry loading area. Response to question 3 regarding control of emissions from elevated conveyors.	13/10/2023
Response to email dated 06/11/2023	Confirmation of monitoring arrangements at emission point A49.	17/11/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall review the adequacy of secondary containment around all external storage and delivery areas and identify improvements required, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. The Operator shall submit a written report to the Environment Agency, identifying, for each area of external storage or delivery, the existing secondary containment, identified improvements and a timetable for carrying out the identified improvements.	Complete
IC2	The Operator shall establish a programme for testing the integrity of pollution prevention measures, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. A written programme shall be submitted to the Environment Agency.	Complete
IC3	The Operator shall submit a written procedure to the Environment Agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure. The procedure shall be implemented by the Operator from the date of approval in writing by the Environment Agency.	Complete
IC4	The Operator shall develop a written flood management plan, which shall include details relating to measures in place to prevent pollution in the event of flood, storm surge, emergency overflow or the production of fire-waters on site. The plan shall be submitted to the Agency in writing.	Complete
IC5	The Operator shall submit a proposal to the Environment Agency to carry out a programme to investigate CO and SO ₂ emission concentrations from all combustion sources, identify the causes of releases above benchmark values in Environment Agency draft Combustion Guidance Note, July 2005, and propose a programme of improvements to reduce emission levels. The proposal shall include a timetable to conduct tests and produce a report on the results. On receipt of written agreement by the Environment Agency to the proposal and the timetable, the Operator shall carry out the tests and submit to the Environment Agency a report of the results.	Complete
IC6	The Operator shall assess the viability of recovering condensate from the cove line and provide a written report on the assessment to the Agency, which shall include a timetabled programme for implementing viable options.	Complete
IC7	The Operator shall develop a written site closure plan, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. The written plan shall be submitted in writing to the Environment Agency.	Complete
IC8	The Operator shall provide the Environment Agency with a written report containing six months' particulates monitoring data from points A2, A3 and A6. The report shall identify the causes of any exceedances above 50mg/m ³ , and propose techniques to reduce emissions below 50mg/m ³ .	Complete
IC9	The Operator shall review the design and operation of the burners in use, having regard to the Environment Agency draft Combustion Guidance Note, July 2005 Section 2.2 and shall submit a report in writing to the Environment Agency, detailing the potential for NO _x reduction, the improvements required and a timescale for implementation, which shall be	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	adhered to unless otherwise agreed in writing by the Environment Agency.	
IC10	The operator shall provide a post commissioning report, providing monitoring results for the emissions of oxides of nitrogen, sulphur dioxide and particulates from emission points A13 and A14 listed in table S3.1.	Complete
IC11	<p>Air emissions monitoring locations</p> <p>During commissioning of the plasterboard production line BL4 (detailed in application EPR/XP3036SZ/V008), the operator shall carry out tests to assess whether air emissions monitoring locations (subject to continuous monitoring) meet the requirements of BS EN 17389.</p> <p>The operator shall:-</p> <ul style="list-style-type: none"> Submit a written report containing results and conclusions from the testing, for assessment by the Environment Agency. In the event improvements are required, the report shall propose a timetable for their implementation. <p>The report shall seek written approval from the Environment Agency. If notified in writing that the requirements of BS EN 17389 are not met, the operator shall submit further proposals for rectifying this in accordance with timescales set out in the notification.</p>	Within 3 months of the completion of commissioning

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Plasterboard production line BL4	<p>Commissioning Plan</p> <p>At least four weeks before commencement of commissioning, the operator shall submit a written commissioning plan, including timescales for completion, for assessment and written approval by the Environment Agency.</p> <p>The commissioning plan shall include, but is not limited to the following:</p> <ul style="list-style-type: none"> the expected emissions to the environment during the different stages of commissioning the expected durations of each stage of the commissioning activities and the actions to be taken to protect the environment any sampling and testing to be undertaken, and the mechanism for reporting to the Environment Agency, in the event that actual emissions exceed expected emissions. <p>The operator shall implement commissioning in accordance with the commissioning plan as agreed with the Environment Agency's written approval.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gypsum recovered products	PAS 109
Desulphurised Gypsum (DSG)	Non-waste

Table S2.2 Permitted waste types and quantities	
Maximum quantity	Maximum annual process limit of 75,000 tonnes
Waste code	Description
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
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
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	wastes from mechanical treatment of wastes other than those mentioned in 19 12 11 - recovered gypsum that does not meet PAS109 classification only

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Cove line dryer	Particulates	No limit set	-	Daily	No permanent access required
A2 [Point A2 on site plan in schedule 7]	Flash calciner gas burner	Particulates	50 mg/m ³	Validated daily average of validated hourly averages	Continuous	BS EN 17389
A3 [Point A3 on site plan in schedule 7]	Mill 1 & 2	Particulates	50 mg/m ³	Validated daily average of validated hourly averages	Continuous	BS EN 17389
A4 [Point A4 on site plan in schedule 7]	Line 1 dryer	Particulates	No limit set	-	Daily	No permanent access required
A5 [Point A5 on site plan in schedule 7]	Line 2 dryer	Particulates	No limit set	-	Daily	No permanent access required
A6 [Point A6 on site plan in schedule 7]	Gas burners on kettles 1-4	Particulates	50 mg/m ³	Validated daily average of validated hourly averages	Continuous	BS EN 17389
A8 [Point A8 on site plan in schedule 7]	Boardline 2 dust abatement	Particulates	No limit set	-	Annual	No permanent access required
A13 [Point A13 on site plan in schedule 7]	Calciner process (gas fired burner, plus abated process emissions)	Particulates	50 mg/m ³	Validated daily average of validated hourly averages	Continuous	BS EN 17389
A31 [Point A31 on site plan in schedule 7]	Exhaust Stack – Dryer Prezone	Water vapour	No limit set	-	-	-
A32, A52 [Points A32 and A52 on site plan in schedule 7]	Heat Exchangers	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/Nm ³	Average of at least 3 samples of at least 30 mins	Quarterly	BS 13284-1

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Channelled dust emissions less than 10,000 Nm ³ /hr [locations indicated as Points A33-A48 on site plan in schedule 7]	Dusty operations abated by fabric filters such as crushing, conveyors, material handling, mixer, silos	Particulate matter	10 mg/Nm ³	-	Annual	In accordance with maintenance management system
A49 [Point A49 on site plan in schedule 7]	Main Exhaust Air Stack (Calcination Area) ^{Note 1}	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/Nm ³	Periodic	Quarterly	EN 14792
	Main Exhaust Air Stack (includes fabric filter) (Calciner and Stucco Cooler)	Particulates	10mg/Nm ³	Daily Average	Continuous measurement	BS EN 17389
A50 [Point A50 on site plan in schedule 7]	Dedusting System Dividing Saw (includes fabric filter) (Calcination Area)	Particulates	10mg/Nm ³	Periodic	Quarterly Note 2	EN 13284-1 and MID
A51 [Point A51 on site plan in schedule 7]	Emergency Stack (Calcination Area)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	-	-	-
<p>Note 1: Sampling shall take place on the flue line from the calciner but before the emission is introduced into the combined stack.</p> <p>Note 2: Monitoring frequencies may be reduced by prior written agreement of the Environment Agency if emission levels are proven to be sufficiently stable.</p>						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1 ^{Note 1} emission to River Avon at NGR ST51167749	Uncontaminated surface water	No parameters set	No limit set	-	-	-

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

W2 [Point W2 on site plan in Schedule 7] emission to surface water sewer discharging to River Avon	Uncontaminated surface water	No parameters set	No limit set	-	-	-
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Note 1: Sampling of the discharge shall take place at the following locations, as shown on site plan in schedule 7:

S1: Grid reference: ST 50899 77173 – boardline 1 branch, north west side of the site

S2: Grid reference: ST 50910 77178 – boardline 2 branch, south east side of the site

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [Point F2 on site plan in schedule 7] emission to Portbury Wharf Sewage Treatment Works	Run off from truck wheel wash bay via interceptor	No parameters set	No limit set	-	-	-

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	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A2, A3, A6, A13, A49	Summary of continuous monitoring reporting every 6 months	1 January
	A32, A49, A50, A52	3 monthly extractive monitoring reported every 6 months ^{Note 1}	
Note 1: Or as otherwise agreed by prior written agreement by the Environment Agency (emission point A50).			

Table S4.2: Annual production/treatment	
Parameter	Units
Plasterboard and coving	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh/tonne
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	23/07/2014
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	25/07/2006
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	25/07/2006
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	25/07/2006

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 malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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	

(d) 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 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

“abatement equipment” means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

“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.

“Climate Change Agreement” means an agreement made between the Secretary of State and the operator, either directly or through the offices of any association of which he is a member, in which he agrees to secure energy efficiency improvements as set out in a plan agreed with the Secretary of State in that agreement in return for a discount from the amount he would otherwise pay as a Climate Change Levy.

“daily” means a 24 hour period.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“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.

“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 property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“Industrial Emissions Directive” or “IED” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

“ISO” means International Standards Organisation.

“monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“oxides of nitrogen (NO_x)” means nitric oxide (NO) plus nitrogen dioxide (NO₂) expressed as NO₂.

“permitted installation” means the activities and the limits to those activities described in Table S1.1 of this Permit.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“quarterly periodic monitoring” for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 2 months between each sampling date.

“six monthly periodic monitoring” means periodic monitoring in each 6 month period (January-June & July – December) with at least 4 months between sampling dates.

“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.

“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:

- (a) in relation to emissions from combustion sources, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K, at a pressure of 101.3 kPa and with no correction required for oxygen or water vapour.
- (c) in relation to emissions from combustion sources that are used for direct heating of process stages, the concentration at a temperature of 273k, at a pressure of 101.3 kPa and with no correction required for oxygen or water vapour.

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table, they have the meaning given below:

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

“PCBs” means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances

“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

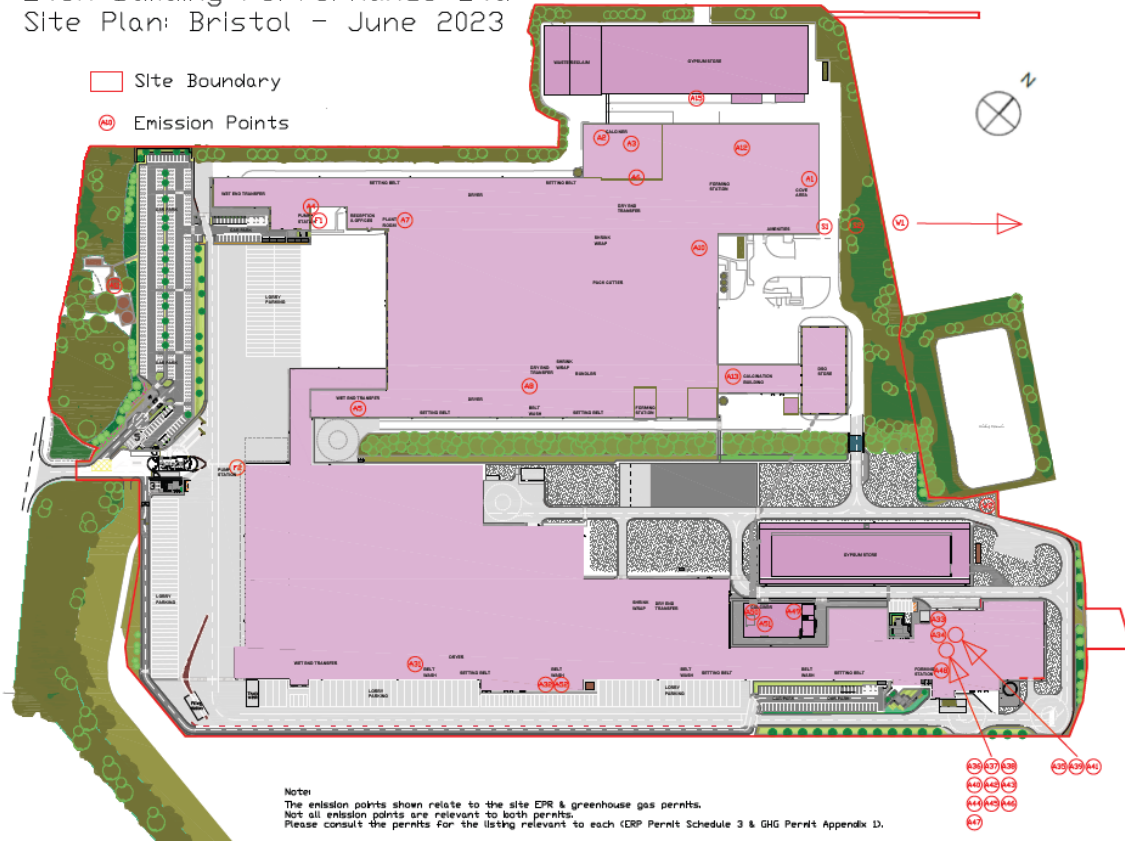
“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan

Installation boundary and emission point plan

Etex Building Performance Ltd
Site Plan: Bristol - June 2023



Site Location



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END OF PERMIT