

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Tarmac Aggregates Limited
Whitwell Quarry Lime works
Southfield Lane
Whitwell
Worksop
Nottinghamshire
S80 3LJ

Variation application number

EPR/BL3242IA/V006

Permit number

EPR/BL3242IA

Whitwell Quarry Lime works

Permit number EPR/BL3242IA

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (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.

Brief description of the changes introduced by this variation notice:

This is an Environment Agency initiated variation and consolidation – consolidating previous variations of environmental permit EPR/BL3242IA. This variation incorporates a number of changes as a result of:

- a statutory review of permits in the Cement and Lime sector
- the incorporation of legislative changes following the publication of “Best Available Techniques (BAT) conclusions” [BATc] for the production of cement, lime and magnesium oxide – published 9 April 2013.

Brief description of the process:

Whitwell Quarry Lime works (multi-operator installation) is operated by both Tarmac Aggregates Limited (TAL) and Steetley Dolomite Limited (SDL). Tarmac Aggregates (operator of this permit) operate the quarry and supply dolomitic limestone to the lime kilns operated by Steetley Dolomite under permit EPR/BL3269IH.

The Installation is located at grid reference SK53547516, between the villages of Creswell and Whitwell, around 7km south west of Worksop, Nottinghamshire and 8km west of Clumber Park.

The main activity taking place at the Installation is the production of dolomitic lime (covered by permit EPR/BL3269IH), which is a listed activity under ‘The Environmental Permitting (England and Wales) Regulations 2010’:

Section 3.1 Part A(1)(b): Producing lime or magnesium oxide in kilns with a production capacity of more than 50 tonnes per day.

This permit contains directly associated activities linked to this activity.

Lime production capacity of the works is around 400,000 tonnes per annum, with two kilns operating continuously 24 hours per day, seven days per week.

The Installation includes:

- The quarry and associated activities except drilling and blasting (TAL);
- All raw material handling and preparation operations (TAL and SDL);
- Lime manufacturing on two kilns, and all product handling, processing, storage, packing and loading (SDL).
- All associated fuel handling and storage including waste derived fuel (SDL).
- Air emission points and associated abatement (SDL)
- Discharge of treated surface water drainage to local watercourses (TAL).

Raw Materials and Materials handling

Tarmac Aggregates Ltd quarry and process (by crushing and screening) calcium magnesium carbonate (dolomite) from the onsite quarry primarily to produce feed stone for use by Steetley Dolomite Ltd in their rotary kilns at Whitwell works. Refer to the Introductory Note within permit EPR/BL32421A for detail of the kiln activities. There are two stone processing operations covered by this permit; one is the processing of stone as feed material for the lime kilns which is a directly associated activity (DAA) of the production of dolomitic lime. The other is processing of stone not used in the lime kilns, which is a section 3.5 part B activity.

Kiln feed material must meet a specification for chemical composition and size. Any stone that falls outside the specification required for the kilns is processed and sold as aggregate.

Stone blasted from the quarry is loaded onto dump trucks using a loading shovel and taken to the primary crusher. Processing of kiln feed stone is carried out using fixed crushing and screening plant situated above the quarry, near the kilns. Tarmac deliver prepared stone into the kiln feed silos, from where SDL receive their kiln feed material. The stone is further screened (by SDL) prior to feeding into Kiln W2 to remove fine material.

Mobile plant sited in the quarry is used for processing aggregate material, which is then stored in stockpiles within the quarry.

Tarmac Aggregates also holds a permit to operate a mining waste operation at the quarry site (EPR/RP3994EZ or EAWML 102319).

Emissions

There is minimal waste arising from TAL's operations, and stone unsuitable for use in the kilns is sold as aggregate or used for restoration.

Emissions to Air: This permit does not include any defined air emission points as there are no ducted emissions. There is potential for fugitive dust, which may arise from controlled activities such as stone stockpiles, and crushing and screening operations.

Emissions to Water: TAL have responsibility for managing all water releases off site. There are four releases; two to the Millash Brook (aka Whitwell Brook) and two to the Millwood Brook (aka River Wollen). Three of these discharges are from quarry sumps, the fourth (W2) is surface water drainage from the kiln area which passes through settlement tanks prior to discharge along with some unsettled road drainage.

There are a number of sensitive ecological receptors close to the installation, including one Special Area of Conservation (SAC) 'Birklands & Bilhaugh' which is located within 10km, one Site of Special Scientific Interest (SSSI) 'Creswell Crags' located within 2 km, 14 local wildlife sites (located within 2 km), and 2 ancient woodlands (located within 2km). The installation overlies a principal aquifer.

All Tarmac Aggregates' activities and operations at Whitwell Quarry are covered by an Environmental Management System (EMS) which has been certified as conforming to ISO14001.

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 BL3242IA (EPR/BL3242IA/A001)	Duly Made 23/08/01	Application for PPC permit BL3242
Additional information	Received 21/11/01	Phase 2 site report information
	Received 15/07/02	Response to Request for Information dated 11/03/02
Permit determined EPR/BL3242IA	Effective 31/03/04	Permit issued to Lafarge Aggregates Ltd
Application for variation EPR/BL3242IA/V002	Duly Made 10/09/13	
Variation EPR/BL3242IA/V002 determined	Effective 15/11/13	Change in Company registered address
Application for variation EPR/BL3242IA/V003	Duly made 19/05/15	Application to increase the installation boundary
Variation EPR/BL3242IA/V003 determined	Effective 14/07/15	
Application for variation EPR/BL3242IA/V004	Duly made 23/10/15	Change in company name
Variation EPR/BL3242IA/V004 determined	Effective 08/01/16	Company name changed to Tarmac Aggregates Ltd
Application for variation EPR/BL3242IA/V005	Duly made 16/09/16	Additional water emission point, increase daily discharge limit, amend site plan.
Variation EPR/BL3242IA/V005 determined	Effective 14/12/16	
Regulation 60 Notice	Issued 30/04/14	
Response to Regulation 60 Notice	Received 07/01/15	Additional information received on 03/07/15 and 05/07/17
Environment Agency Variation and consolidation EPR/BP3731VJ/V006 determined (PAS billing reference FP3931RS)	Effective 04/04/19	Environment Agency initiated variation and consolidation following the Cement and Lime Sector permit review

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Steetley Dolomite Limited	EPR/BL3269IH	31/03/04
Steetley Dolomite Limited	EAWML 43761	30/04/12
Tarmac Aggregates Limited	EAWML 102319 (EPR/RP3994EZ)	02/02/11

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/BL3242IA

Issued to

Tarmac Aggregates Limited ("the operator")

whose registered office is

**Portland House
Bickenhill Lane
Solihull
Birmingham
B37 7BQ**

company registration number **00297905**

to operate part of a regulated facility at

**Whitwell Quarry Lime works
Southfield Lane
Whitwell
Worksop
Nottinghamshire
S80 3LJ**

to the extent set out in the schedules.

The notice shall take effect from 04/04/2019

Name	Date
Rebecca Warren	04/04/2019

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BL3242IA

This is the consolidated permit referred to in the variation and consolidation notice for Environment Agency led variation EPR/BL3242IA/V006 authorising,

Tarmac Aggregates Limited ("the operator"),

whose registered office is

**Portland House
Bickenhill Lane
Solihull
Birmingham
B37 7BQ**

company registration number **00297905**

to operate part of an installation at

**Whitwell Quarry Lime works
Southfield Lane
Whitwell
Worksop
Nottinghamshire
S80 3LJ**

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

Name	Date
Rebecca Warren	04/04/2019

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 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.

1.5 Multi operator installations

- 1.5.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the Installation of the same information.

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, excluding the area edged in red on the site plan that represents the extent of the part installation covered by the permit held by the other operator of the installation.

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 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.
- 2.3.5 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.

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 table S3.1.
- 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 table S3.1;
- 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 3.3.1 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 table S3.1, 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.

4.3 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 3.5 part B(a)	Crushing, grinding, size reduction and screening of calcium magnesium carbonate (Dolomite)	From the recovery of stone from the quarry floors, the crushing, any washing and screening using mobile plant through to storage and transport off site.
Directly Associated Activity		
All raw materials storage, handling and preparation	Raw materials receipt, preparation and bulk storage	From the recovery of Dolomite from the quarry floor through transport, storage, crushing, washing and screening in fixed plant, to bulk storage in kiln feed stockpile for supply to lime kilns regulated under permit ref EPR/BL3269IH for listed activity S3.1 A(1)(b). Receipt, storage and use of chemicals including fuel and oils.
Water discharge to controlled water	Management of site drainage and process water	From collection of water arising from groundwater ingress and surface water drainage, treatment by settlement and any reuse within site activities, through to discharge to controlled waters at emission point reference W2.
Other listed activities		
Water discharge to controlled water	Management of site drainage and quarry water	From collection of water arising from groundwater ingress and surface water drainage, the settlement in quarry sumps and reuse of water through to discharge to controlled waters at emission point reference W1, W3 and W4.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application BL3242IA (EPR/BL3242IA/A001)	The response to questions 2.3 given in pages referenced LA W3 (i to vii) of the application.	23/08/01
Application EPR/BL3242IA/V003	Form EPC: Application for an environmental permit – Part C3 varying a bespoke installation permit, Question 3.	19/05/15
Response to Regulation 60(1) Notice dated 30/04/14, requiring information	In relation to the IED Best Available techniques, the details submitted against CLM BAT conclusion numbers 1, 2, 34, 35, 40, 31, 54	07/01/15
	In relation to the IED Best Available techniques, the details submitted against CLM BAT conclusion numbers 34, 41, 41	03/07/15
	In relation to the IED Best Available techniques, the details submitted against CLM BAT conclusion numbers 1, 2, 42	05/07/17

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The Operator shall carry out a review of flow measurement at each of the four discharge points, as listed within table S3.1 of this permit. The review shall cover the provision of MCERTS certification for flow measurement, as well as measurement of total flow discharging at W2 (ie including any unsettled road drainage). The review shall consider Environment Agency guidance "Minimum Requirements for the Self-Monitoring of Flow" (dated August 2014). A written report shall be submitted for approval to the Environment Agency detailing the findings from the review together with proposed timescales for implementation of MCERTS and any other required changes at each discharge point.</p>	15 July 2019
IC2	<p>The Operator shall undertake an assessment of containment measures on site including the ability of any containment structures, such as bunds or other secondary containment, and site drainage infrastructure, to prevent pollution to surface water and groundwater from the storage of chemicals and liquids. A written report detailing the findings from the assessment shall be submitted to the Environment Agency. The report shall include, but not be limited to:</p> <ul style="list-style-type: none"> • The requirements of Environment Agency guidance: Control and monitor emissions for your environmental permit. • CIRIA guidance: containment systems for the prevention of pollution (C736). <p>The report shall identify any required improvements, together with proposed timescales for their implementation.</p> <p>The report shall be submitted to the Environment Agency for written approval.</p>	15 July 2019
IC3	<p>The operator shall undertake a review of the original IPPC Phase 1a, 1b and 2 site reports and the response to our Regulation 60 Notice issued on 30/4/2014, and submit a written report to the Environment Agency for approval in writing.</p> <p>The review shall include at least the following:</p> <ul style="list-style-type: none"> • Reference to historical spillages, the chemicals involved and locations so as to inform existing locations of chemicals and storage tanks. • Confirmation of the locations of current and de-commissioned bulk liquid storage areas and tanks (for storage of hazardous substances) within the permit boundary, including an inventory of storage quantities / maximum storage quantities and location plan. • An appraisal of the condition of any storage tanks, • Whether any tanks have been de-commissioned and replaced since 2001. • Results from any visual or olfactory checks (of contamination) located around such hazardous storage areas. <p>The review shall consider Environmental Standards (rather than ICRCL criteria) for assessing contamination, specifically "Industrial emissions Directive Draft EPR Guidance on Part A installations." Dated March 2011 by DEFRA (section 5.8 - 5.13 on baseline reports, and Annex 3).</p> <p>Where the review establishes that additional baseline data is required, the operator shall submit proposals for undertaking further intrusive sampling (to ensure that all areas containing potential hazardous substances are assessed) together with a proposed date for submission of an updated baseline report.</p> <p>Any updated site report shall include a monitoring plan (for the testing of soil every 10 years and groundwater every 5 years) in consideration of condition 3.1.5 of this permit unless demonstration can be made that this is not required.</p>	15 October 2019

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC4	<p>The Operator shall undertake an assessment of all untreated surface water discharges, and provide a written report to the Environment Agency. The report shall include, but not be limited to:</p> <ul style="list-style-type: none"> • Location of all water discharges leaving the area of installation covered by this permit, including the W2 outfall. • Details of controls in place to prevent, and where that is not practicable, minimise the impacts from such discharges, prior to release. • Characterisation of any discharges not receiving treatment prior to release to watercourse. • An updated detailed drainage plan for the area of installation covered by this permit. <p>Where it is identified that appropriate measures or controls are not in place to minimise the impacts of discharges, the operator shall provide either:</p> <ol style="list-style-type: none"> a) proposed measures for isolating discharges from this site (in order to prevent, or where not practicable, minimise emissions), <p>OR</p> <ol style="list-style-type: none"> b) proposed measures for monitoring and sampling all discharges prior to leaving the Installation, including flow measurement. <p>The report shall be submitted to the Environment Agency for written approval. The Environment Agency may impose additional requirements, such as monitoring, sampling and emission limits, in response to this improvement condition.</p>	15 October 2019
IC5	<p>The operator shall carry out a programme of monitoring in order to fully characterise the discharges from release points W1 – W4 (table S3.1). The monitoring shall be undertaken at monthly intervals for a 12 month period. Testing shall include, but not be limited to, the following determinands:</p> <ul style="list-style-type: none"> • metals: zinc (total & dissolved), potassium (total), sodium (total), • total metals, • ammonia, • BOD, • phosphate, • sulphate, • chloride, • conductivity, • alkalinity, • dissolved oxygen (field), • pH, and • total and dissolved zinc in the receiving watercourse, both upstream and downstream of the discharge point. <p>Following completion of the monitoring programme, the operator shall undertake a risk assessment (or modelling where required) in accordance with EA guidance on the Gov.uk website. Where appropriate, background data collected for zinc shall be utilised within the risk assessment.</p> <p>A written report detailing the results from the monitoring programme and findings from the risk assessment (or modelling) shall be submitted to the Environment Agency.</p> <p>The report shall include proposals for any additional measures and improvements that are required in order to prevent, and where not practicable, minimise emissions, together with proposed timescales for their implementation.</p> <p>The Environment Agency may impose additional controls in relation to these discharges where it deems these are necessary.</p>	31 July 2020

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas Oil	Less than 0.1% sulphur content by weight

Schedule 3 – Emissions and monitoring

Table S3.1 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 ^{Note 2}	Monitoring standard or method ^{Note 3}
W1 on site plan in schedule 4 of BL3242IA/V005 emission to River Wollen (Millwood Brook) NGR SK52360 75123	Northern area Quarry sump	Total Suspended Solids	30 mg/l	Spot sample	Weekly	BS EN 872 or SCA Blue Book 105
		Oil and Hydrocarbons	5 mg/l			BS EN ISO 9377-2
		Total daily volume of discharge	3,000 m ³ /day ^{Note 1}	Continuous	Daily	MCERTS self-monitoring of effluent flow scheme
		Flow rate	110 l/s	Instantaneous (spot sample)	Continuous	MCERTS self-monitoring of effluent flow scheme
		Chloride	386 mg/l	Spot Sample	Weekly	BS EN ISO 15682 or SCA Blue book 51
		Conductivity	No limit			BS EN 27888 ISO 7888 or SCA Blue book 14
W2 on site plan in schedule 4 of BL3242IA/V005 emission to Millash Brook NGR to be confirmed ^{Note 1}	Site settlement lagoons (including some unsettled road drainage)	Total suspended solids	30 mg/l	Spot Sample	Weekly	BS EN 872 or SCA Blue Book 105
		Oil and Hydrocarbons	5 mg/l			BS EN ISO 9377-2
		Total daily volume of discharge	4,500 m ³ /day ^{Note 1}	24-hour total	Daily	MCERTS self-monitoring of effluent flow scheme
		Flow rate	110 l/s	Instantaneous (spot sample)	Continuous	MCERTS self-monitoring of effluent flow scheme
		Conductivity	No limit	Spot sample	weekly	BS EN 27888 ISO 7888 or SCA Blue book 14

Table S3.1 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 ^{Note 2}	Monitoring standard or method ^{Note 3}
W3 on site plan in schedule 4 of BL3242IA/V005 emission to River Wollen (Millwood Brook) NGR SK52918 74125	Southern area Quarry sump	Total suspended solids	30 mg/l	Spot Sample	Weekly	BS EN 872 or SCA Blue Book 105
		Oil and Hydrocarbons	5 mg/l			BS EN ISO 9377-2
		Total daily volume of discharge	3,000 m ³ /day ^{Note1}	24-hour total	Daily	MCERTS self-monitoring of effluent flow scheme
		Flow rate	110 l/s	Instantaneous (spot sample)	Continuous	MCERTS self-monitoring of effluent flow scheme
		Chloride	386 mg/l	Spot Sample	Weekly	BS EN ISO 15682 or SCA Blue book 51
		Conductivity	No limit			BS EN 27888 ISO 7888 or SCA Blue book 14
W4 on site plan in schedule 4 of BL3242IA/V005 emission to River Wollen (Millwood Brook) NGR SK54706 75220	Belph area Quarry sump	Total suspended solids	30 mg/l	Spot Sample	Weekly	BS EN 872 or SCA Blue Book 105
		Oil and Hydrocarbons	5 mg/l			BS EN ISO 9377-2
		Total daily volume	2,000 m ³ /day	24 hour total	Daily	MCERTS self-monitoring of effluent flow scheme
		Flow rate	110 l/s	Instantaneous (spot sample)	Continuous	MCERTS self-monitoring of effluent flow scheme
		Total cadmium as Cd	0.00084 mg/l	Spot Sample	Weekly	BS EN ISO 17294-2
		Chloride	690 mg/l			BS EN ISO 15682 or SCA Blue book 51
		Total zinc as Zn	0.251 mg/l			BS EN ISO 17294-2
		Dissolved zinc	No limit			BS EN 27888 ISO 7888 or SCA Blue book 14
		Conductivity	No limit			

Note 1: The combined total daily volume to discharge points W1, W2 and W3 is limited to 6,500m³.

Note 2: Monitoring required only when emission point is operational during a week.

Note 3: Or other method as agreed in writing by the Environment Agency.

Note 4: Location of discharge into the Millash Brook to be confirmed through completion of IC4, and prior to this, NGR SK53523 75518 shall be used as the appropriate location for sampling of the discharge for compliance purposes. Measurement of flow to W2 subject to change pending completion of IC1.

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 water Parameters as required by condition 3.5.1	W1, W2, W3, W4	Every 3 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
-	
-	

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
-	-	-

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water	Form Water1 or other form as agreed in writing by the Environment Agency	April 2019

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	EPR/BL3242IA
Name of operator	Tarmac Aggregates Limited
Location of Facility	Whitwell Quarry
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	

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.

“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.

“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.

“ELV” means emission limit value.

“emissions to land” includes emissions to groundwater.

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

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 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.

“EWC code” means the code number from the European Waste Catalogue.

“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.

“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

“ISO” means International Standards Organisation.

“Lime” also called *“quicklime”* or *“burned lime”* is calcium oxide (CaO) produced by the decarbonisation of limestone (CaCO₃).

“Lime products” is a term which covers quicklime and slaked lime.

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

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

“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.

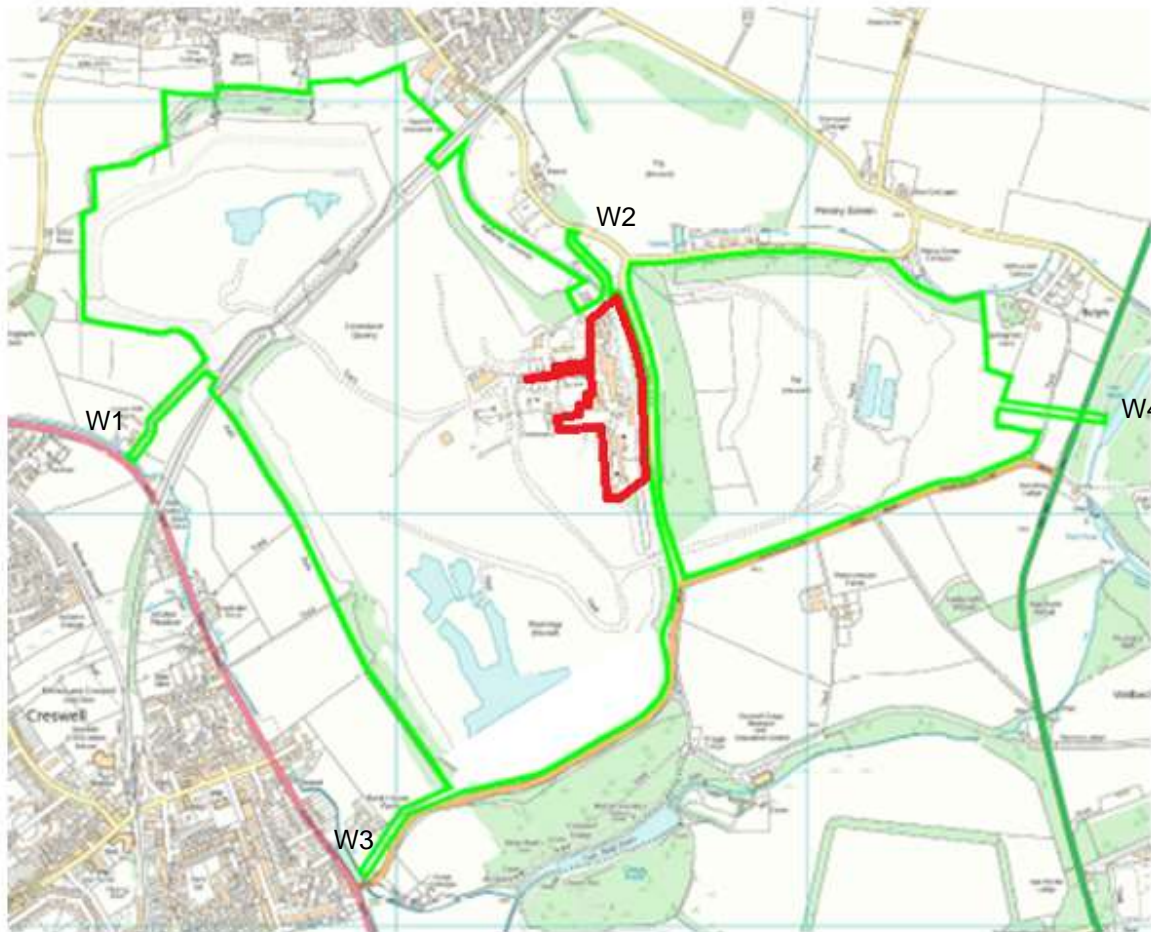
“SSSI” means a site of special scientific interest designated under the Wildlife and Countryside Act 1981 being a site in the UK which is of particular importance because of its geology, topography, or ecology.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“year” means calendar year ending 31 December.

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.

Schedule 7 – Site plan



Installation boundary



Location of EPR/BL3269IH permit boundary

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END OF PERMIT