

18 JUL 2013

## 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 PPC Regulations.

### Part A

Permit Number	EPR/BL1096IB/V010
Name of operator	Castle Cement Limited
Location of Installation	Padeswood Works, Padeswood, Mold.
Time and date of the detection	00.05 12/07/2013

#### (a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution

##### To be notified within 24 hours of detection

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

#### (b) Notification requirements for the breach of a limit

##### To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	Kiln 4 main stack
Parameter(s)	HCl
Limit	Emission limit value 10mg/Nm <sup>3</sup>
Measured value and uncertainty	Actual emission value – 13.5mg/Nm <sup>3</sup>
Date and time of monitoring	11/07/2013 00:00 to 24:00
Measures taken, or intended to be taken, to stop the emission	Raw Mill off from 05:30hrs and Kiln off for maintenance at 14: 00hrs until the following day.

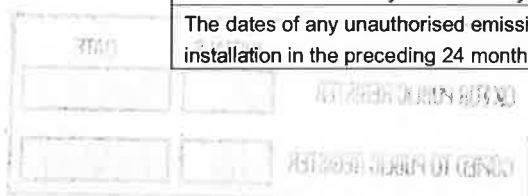
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Time periods for notification following detection of a breach of a limit	
Parameter	Notification period


(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.	<p>The raw mill was stopped for routine maintenance at 05:30. The HCl emission was seen to increase during the time the mill was off but the kiln continued to operate. The kiln was then stopped at 14:00 to carry out repairs to the conveyor from the clinker cooler to store and did not run again that day.</p> <p>Hydrogen chloride is an acidic gas which is efficiently removed by the high turbulence of the gas stream loaded with highly alkaline, fine, and reactive particles. This occurs mainly in the kiln and preheater system. Some HCl is carried over from the preheater and under normal operating conditions is scrubbed out by the limestone dust present in the raw mill which is produced by the crushing of the stone. In this case because the mill was stopped the HCl was not reduced further.</p> <p>The breach occurred because the kiln stopped at 14:00 when the HCl emission had reached 13.5 mg/Nm<sup>3</sup>. Had the kiln continued to run, the raw mill would have restarted following the completion of its maintenance and the HCl emission would have reduced to below the limit value.</p>		
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Normal operation is for the raw mill to operate in conjunction with the kiln. Because the kiln did not run again during the day it was not possible to reduce the emission below the ELV.		
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 emission would have dissipated quickly with negligible environmental impact		
The dates of any unauthorised emissions from the installation in the preceding 24 months.	21/07/2011	06/03/2012	27/06/2012



	31/07/2011	07/03/2012	23/07/2012
	05/08/2011	12/03/2012	07/10/2012
	12/08/2011	14/03/2012	25/10/2012
	15/08/2011	20/04/2012	27/10/2012
	22/09/2011	03/05/2012	29/10/2012
	30/09/2011	23/06/2012	28/02/2013
	07/11/2011	23/06/2012	07/07/2013
	21/02/2012	27/06/2012	

<b>Name*</b>	N Sharpe
<b>Post</b>	Quality and Environment Manager - North
<b>Signature</b>	
<b>Date</b>	18 <sup>th</sup> July 2013

\* authorised to sign on behalf of Castle Cement Limited



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12 JUL 2013

## 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.

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### Part A

Permit Number	EPR/BL1096IB/V010
Name of operator	Castle Cement Limited
Location of Installation	Padeswood Works, Padeswood, Mold.
Time and date of the detection	00.05 12/07/2013

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<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	Kiln 4 main stack
Parameter(s)	HCl
Limit	Emission limit value 10mg/Nm <sup>3</sup>
Measured value and uncertainty	Actual emission value – 13.5mg/Nm <sup>3</sup>
Date and time of monitoring	11/07/2013 00:00 to 24:00
Measures taken, or intended to be taken, to stop the emission	Raw Mill off from 05:30hrs and Kiln off for maintenance at 14: 00hrs until the following day.


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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 installation in the preceding 24 months.	

<b>Name*</b>	N Sharpe
<b>Post</b>	Quality and Environment Manager - North
<b>Signature</b>	
<b>Date</b>	11 July 2013

\* authorised to sign on behalf of Castle Cement Limited