

# CEM - 2012 (Quarterly)

Lehigh Hanson Materials Limited  
Permit: 0175 / Due Date: Apr 30 2012

06 - Raw mill, preheater, and kiln	
<b>Carbon Monoxide</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	
Minimum Hourly Average Test Result:	74 mg/m3
Date/Time of Minimum Hourly Average Test Result:	Feb 02 2012
Maximum Hourly Average Test Result:	441 mg/m3
Date/Time of Maximum Hourly Average Test Result:	Feb 12 2012
Average of Test Results Over the Quarter:	213 mg/m3
98th Percentile Value:	340 mg/m3
Data Recovery:	100 %
Comments:	
<b>Nitrogen Oxides</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	600 kg/h
Minimum Hourly Average Test Result:	40 kg/h
Date/Time of Minimum Hourly Average Test Result:	Feb 02 2012
Maximum Hourly Average Test Result:	682 kg/h
Date/Time of Maximum Hourly Average Test Result:	Feb 08 2012
Average of Test Results Over the Quarter:	362 kg/h
98th Percentile Value:	546 kg/h
Data Recovery:	100 %
Comments:	
<b>Opacity</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	20 %
Minimum Hourly Average Test Result:	2 %
Date/Time of Minimum Hourly Average Test Result:	Feb 12 2012
Maximum Hourly Average Test Result:	15 %
Date/Time of Maximum Hourly Average Test Result:	Feb 29 2012
Average of Test Results Over the Quarter:	6.9 %
98th Percentile Value:	10 %
Data Recovery:	91 %
Comments:	66 hours of downtime due to electronic board failure.
<b>Oxygen</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	
Minimum Hourly Average Test Result:	8.3 %
Date/Time of Minimum Hourly Average Test Result:	Feb 02 2012
Maximum Hourly Average Test Result:	21.4 %

Date/Time of Maximum Hourly Average Test Result:	Feb 04 2012
Average of Test Results Over the Quarter:	12 %
98th Percentile Value:	19 %
Data Recovery:	100 %
Comments:	
<b>Sulphur Oxides</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	500 mg/m3
Minimum Hourly Average Test Result:	5.2 mg/m3
Date/Time of Minimum Hourly Average Test Result:	Feb 14 2012
Maximum Hourly Average Test Result:	112 mg/m3
Date/Time of Maximum Hourly Average Test Result:	Feb 04 2012
Average of Test Results Over the Quarter:	37 mg/m3
98th Percentile Value:	76 mg/m3
Data Recovery:	100 %
Comments:	
<b>Total Hydrocarbons</b>	
Test Date Range:	January 1 - March 31
Total Hours of Data Collected:	718 hrs
Permitted Flow Limit:	8500 m3/min
Average Measured CEM Flow:	7362 m3/min
Contaminant Permit Limit Value:	50 mg/m3
Minimum Hourly Average Test Result:	1.1 mg/m3
Date/Time of Minimum Hourly Average Test Result:	Mar 01 2012
Maximum Hourly Average Test Result:	12.7 mg/m3
Date/Time of Maximum Hourly Average Test Result:	Feb 06 2012
Average of Test Results Over the Quarter:	2.5 mg/m3
98th Percentile Value:	6.5 mg/m3
Data Recovery:	100 %
Comments:	