

Stack - 2023 (Quarterly)

Lafarge Canada Inc.

Permit: 0154 / Due Date: January 31, 2023

035 - Cement kiln, preheater, precalciner, coal mill, raw mill, clinker cooler, homogenization silo extract (57-AIF-01 & 53-AIF-01)					
Hydrogen Chloride					
Test Dates:	Nov 22, 2022	Nov 23, 2022	Nov 23, 2022		
Test Results:	95.1000 mg/m3	< 35.6000 mg/m3	< 18.0000 mg/m3		
Average of Test Results:	49.567 mg/m3				
Contaminant Permit Limit:	50.0000 mg/m3				
Test Result Comments:	Nov. 22 being raw mill down.				
Flow Results:	5004.000 m3/min	5897.000 m3/min	6025.000 m3/min		
Average of Flow Results:	5642 m3/min				
Permitted Flow Limit:	6200.00 m3/min				
Flow Result Comments:					
Particulate Matter					
Test Dates:	Nov 22, 2022	Nov 23, 2022	Nov 23, 2022	Dec 06, 2022	
Test Results:	136.0000 mg/m3	67.2000 mg/m3	79.3000 mg/m3	88.5000 mg/m3	
Average of Test Results:	92.75 mg/m3				
Contaminant Permit Limit:	25.0000 mg/m3				
Out of Compliance Explanation:	Nov. 22 and Dec. 06 are raw mill down day tests and Nov. 23 is raw mill up. The bags in the main baghouse started wearing off				
Plan of Action to Obtain Compliance:	The plant inspected the baghouse and replaced faulty bags immediately after receiving the compliance test report and retested the particulate matter. After receiving the second result, the plant further did isolation checks and replaced more bags. A retest is done in January.				
Test Result Comments:					
Flow Results:	5004.000 m3/min	5897.000 m3/min	6025.000 m3/min	5230.000 m3/min	
Average of Flow Results:	5539 m3/min				
Permitted Flow Limit:	6200.00 m3/min				
Flow Result Comments:					

Trace Metals:Class I (Pb, Sb, Cu, Mn, V, Zn)					
Test Dates:	Nov 22, 2022	Nov 23, 2022	Nov 23, 2022	Dec 06, 2022	
Test Results:	< 1.4892 mg/m3	< 0.0347 mg/m3	< 0.0408 mg/m3	< 0.0419 mg/m3	
Average of Test Results:	0.402 mg/m3				
Contaminant Permit Limit:	1.5000 mg/m3				
Test Result Comments:	Nov. 22 and Dec. 06 being raw mill down				
Flow Results:	5004.000 m3/min	5897.000 m3/min	6025.000 m3/min	5230.000 m3/min	
Average of Flow Results:	5539 m3/min				
Permitted Flow Limit:	6200.00 m3/min				
Flow Result Comments:					
Trace Metals:Class II (As, Cr, Co, Ni, Se, Te)					
Test Dates:	Nov 22, 2022	Nov 23, 2022	Nov 23, 2022	Dec 06, 2022	
Test Results:	< 0.0147 mg/m3	< 0.0094 mg/m3	< 0.0100 mg/m3	< 0.0120 mg/m3	
Average of Test Results:	0.012 mg/m3				
Contaminant Permit Limit:	0.5000 mg/m3				
Test Result Comments:	Nov. 22 and Dec. 06 being raw mill down				
Flow Results:	5004.000 m3/min	5897.000 m3/min	6025.000 m3/min	5230.000 m3/min	
Average of Flow Results:	5539 m3/min				
Permitted Flow Limit:	6200.00 m3/min				
Flow Result Comments:					
Trace Metals:Class III (Tl, Cd, Hg)					
Test Dates:	Nov 22, 2022	Nov 23, 2022	Nov 23, 2022	Dec 06, 2022	
Test Results:	< 0.1284 mg/m3	< 0.0166 mg/m3	< 0.0173 mg/m3	< 0.0901 mg/m3	
Average of Test Results:	0.063 mg/m3				
Contaminant Permit Limit:	0.1500 mg/m3				
Test Result Comments:	Nov. 22 and Dec. 06 being raw mill down				
Flow Results:	5004.000 m3/min	5897.000 m3/min	6025.000 m3/min	5230.000 m3/min	
Average of Flow Results:	5539 m3/min				
Permitted Flow Limit:	6200.00 m3/min				
Flow Result Comments:					