



December 24, 2008

Mr. Shawn Thurber  
Lafarge Canada Inc.  
10511, 15<sup>th</sup> St. S.E.  
Calgary, Alberta  
T2H 2H5

Re: **Particulate Monitoring for Lafarge – Young Offenders Centre**

Dear Mr. Thurber;

Attached are results of the monitoring for the period November 12 - 30, 2008 for TSP and PM2.5 particulate. Met One E-Samplers recorded TSP and PM2.5 particulate.

Data collection was 100% for all parameters during the monitoring period.

There were no exceedances of the Alberta Guidelines for PM2.5. There was one exceedance for TSP on November 17, 2008.

Please call if there are any questions regarding the results.

Yours truly,

**PROMET ENVIRONMENTAL GROUP LTD.**

A handwritten signature in black ink, appearing to read "Bill Murray".

Dr. William (Bill) Murray  
President

WM/kt  
Enc.



## MONTHLY REPORT SUMMARY

Young Offenders Centre

Lafarge Canada Inc.

**Name/Location**

**Company**

November 2008

**Monitoring Period**

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Exceedances
PM2.5 (hourly)	100%	8	129	0
PM2.5 (24 hour)	100%	8	21	0
TSP (24 hour)	100%	24	669	1

Sound level is analyzed only for wind speed less than 11 km/h and precipitation less than 3 mm/hour

### COMMENTS:

The PM2.5 Objective is 30  $\mu\text{g}/\text{m}^3$  for a day and 80  $\mu\text{g}/\text{m}^3$  for an hour.

The TSP Objective is 100  $\mu\text{g}/\text{m}^3$  for a day.

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PM2.5 [ug/m3]  
 Lafarge North America Inc.  
 Young Offenders Centre  
 STATION 636  
 NOV 2008

Day	Hour																								Avg
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12												2	18	2	2	2	2	2	5	2	1	2	17	5	
13	2	13	2	6	2	6	2	4	2	3	2	2	2	2	2	2	2	14	2	5	2	10	2	6	4
14	2	5	2	4	2	3	2	9	2	9	2	6	2	5	2	7	2	8	2	6	2	8	2	6	4
15	2	6	2	5	2	3	2	12	2	2	2	4	2	2	2	2	2	2	2	6	2	2	2	3	
16	2	4	2	13	2	15	2	16	2	17	2	18	2	16	2	9	2	11	2	20	2	17	2	17	8
17	2	18	2	22	2	15	2	20	2	21	2	2	2	2	2	6	3	14	2	12	2	23	2	16	8
18	2	14	2	13	2	11	2	6	2	2	16	9	4	17	13	3	2	13	2	6	13	13	1	5	7
19	3	1	7	12	13	8	8	8	6	2	26	4	1	12	6	8	6	9	10	20	8	21	21	20	10
20	12	10	13	10	8	15	12	18	17	12	6	10	8	4	9	8	9	7	7	4	5	10	8	6	9
21	10	2	5	2	1	2	1	2	1	13	1	13	11	13	8	8	8	14	9	8	7	2	2	3	6
22	3	2	2	2	2	1	4	1	12	5	5	4	4	4	5	5	5	5	5	5	1	1	1	2	3
23	2	2	2	2	1	1	3	3	6	6	1	2	7	7	7	7	4	6	6	2	2	1	1	1	3
24	1	1	2	2	3	3	6	2	2	1	21	6	16	1	1	1	1	4	14	6	6	2	3	2	4
25	2	2	2	2	9	5	2	3	17	5	2	20	2	19	12	4	2	2	4	2	4	2	2	4	5
26	2	2	2	2	2	2	1	4	2	4	4	5	1	2	2	1	8	11	3	2	2	2	2	2	3
27	1	1	3	3	2	2	2	3	16	6	2	2	2	18	10	7	7	1	2	1	57	57	57	4	11
28	1	3	1	1	2	2	2	2	6	3	8	2	10	10	10	4	7	5	7	4	1	1	1	1	4
29	1	2	1	1	2	1	1	1	8	6	6	1	6	3	2	2	1	4	2	3	2	1	1	1	2
30	2	2	2	2	1	1	1	3	4	4	1	1	1	1	1	2	3	2	7	3	1	5	1	1	2
AVG	3	5	3	6	3	5	3	6	6	7	6	6	5	8	5	5	4	7	5	6	6	9	6	6	
MAX	12	18	13	22	13	15	12	20	17	21	26	20	16	19	13	9	9	14	14	20	57	57	57	20	
MIN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	

Percent of time operational: 100  
 Monthly Average: 6      Monthly Maximum: 57      M - missing data  
 Exceedances of 80 ug/m3 Hourly Guideline: 0      Monthly Minimum: 1  
 Exceedances of 30 ug/m3 Daily Guideline: 0

TSP [ug/m3]  
Lafarge North America Inc.  
Young Offenders Centre  
STATION 636  
NOV 2008

Day	Hour																								Avg
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12													21	14	30	11	5	9	1	5	1	7	1	20	10
13	4	14	4	11	1	10	4	4	7	11	65	20	45	15	51	3	4	30	3	5	9	15	1	6	14
14	3	13	10	9	2	3	24	14	70	10	9	12	2	11	5	17	3	9	2	11	14	32	10	7	13
15	13	14	10	5	5	6	16	14	1	24	20	16	24	5	1	7	16	4	9	6	1	11	4	2	10
16	14	24	5	15	14	13	8	29	11	16	4	37	37	34	22	17	30	50	51	32	434	60	69	35	44
17	11	48	24	52	32	51	30	51	24	31	104	1000	785	31	3	73	20	25	3	24	2	30	9	20	103
18	2	16	13	86	4	27	2	11	8	14	1	14	4	24	13	3	2	22	3	11	15	13	1	6	13
19	4	1	7	16	18	10	6	6	6	3	23	13	1	12	7	9	5	12	18	30	9	23	19	16	11
20	11	10	12	11	31	20	37	19	15	23	31	13	18	4	11	9	9	9	8	4	5	18	19	7	15
21	10	7	15	5	3	3	2	2	1	12	1	14	23	11	23	13	6	16	21	10	6	7	10	7	9
22	7	4	6	3	36	19	37	4	55	65	4	20	1	5	12	19	8	6	3	9	1	5	3	2	14
23	2	2	6	1	3	3	5	11	5	3	18	15	31	1	2	4	13	25	5	3	2	1	3	10	7
24	1	3	2	13	5	3	30	12	3	14	60	37	51	1	24	3	19	22	59	6	3	6	13	3	16
25	4	5	3	9	44	8	6	5	45	15	14	46	2	40	17	24	4	10	4	9	5	4	4	11	14
26	2	21	8	8	6	6	2	31	3	9	4	9	6	3	14	9	7	24	6	9	4	3	3	3	8
27	10	1	4	4	3	8	3	6	23	31	2	47	5	79	31	30	10	4	20	7	303	5	4	6	27
28	1	3	5	6	13	2	2	7	5	10	6	17	13	15	1	4	18	16	15	18	2	1	5	1	8
29	4	4	4	3	12	5	7	8	14	8	1	1	15	3	2	12	13	7	2	17	4	1	5	3	6
30	4	8	4	3	4	1	3	5	3	1	1	5	3	4	1	5	7	3	12	3	7	8	2	3	4
AVG	6	11	8	15	13	11	12	13	17	17	20	74	57	17	14	14	10	16	13	11	43	13	10	9	
MAX	14	48	24	86	44	51	37	51	70	65	104	1000	785	79	51	73	30	50	59	32	434	60	69	35	
MIN	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	3	2	3	1	3	1	1	1	1	

Percent of time operational: 100  
Monthly Average: 19 Monthly Maximum: 1000 Monthly Minimum: 1  
Exceedances of 100 ug/m3 Daily Guideline: 1 M - missing data