



January 28, 2009

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

Re: Noise Monitoring for Lafarge – Young Offenders Centre

Dear Mr. Thurber;

Attached are results of the monitoring for the period December 1 - 31, 2008 TSP and PM2.5 particulate. Met One E-Sampler recorded TSP and PM2.5 particulate.

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

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". The signature is fluid and cursive, with a long horizontal stroke at the end.

Dr. William (Bill) Murray
President

WM/kt
Enc.

PROMET

MONTHLY REPORT SUMMARY

Young Offenders Centre

Lafarge Canada Inc.

Name/Location

Company

December 2008

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Residential Area
PM2.5 (hourly)	100%	7	83	0
PM2.5 (24 hour)	100%	7	39	-
TSP (hourly)	100%	9	771	0
TSP (24 hour)	100%	9	64	-

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.

TSP [ug/m3]
 Lafarge North America Inc.
 Young Offenders Centre
 STATION 636
 DEC 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	
1	21	3	1	1	0	7	7	1	2	0	13	35	0	3	3	4	6	2	M	M	6	1	3	1	5
2	4	2	5	1	1	1	6	0	2	1	1	0	1	1	0	2	4	2	5	4	1	1	1	1	2
3	0	0	1	1	1	2	1	2	4	2	2	6	6	2	3	9	5	10	5	1	2	1	2	2	3
4	1	1	0	1	3	2	4	7	9	1	3	4	3	1	4	7	2	3	1	4	1	4	3	2	3
5	2	2	1	3	2	1	6	1	3	1	3	2	3	2	1	1	1	0	34	2	13	31	66	449	26
6	76	120	34	4	2	8	33	19	246	74	5	2	2	2	4	1	6	3	1	1	5	4	1	0	27
7	0	5	1	0	4	2	0	2	0	0	1	1	3	3	4	2	3	4	4	5	8	213	50	17	14
8	771	233	23	24	18	21	20	35	20	25	23	20	16	19	14	17	6	5	4	2	4	136	21	47	64
9	34	22	37	21	29	29	16	29	9	13	23	27	23	10	2	3	0	0	4	2	0	2	1	0	14
10	1	2	1	6	2	1	1	1	1	1	3	1	5	3	0	3	2	1	3	1	1	1	1	1	2
11	1	1	2	1	0	2	2	2	2	4	2	2	2	1	3	3	2	5	0	0	1	1	1	1	2
12	1	2	1	0	1	1	0	6	3	4	2	4	2	10	0	3	2	27	7	1	3	3	7	1	4
13	2	4	1	2	4	2	2	2	0	1	2	2	7	8	4	7	6	5	7	5	8	8	9	8	4
14	6	9	8	8	7	8	13	7	8	8	6	5	5	6	7	7	3	8	4	5	6	5	4	4	7
15	3	3	7	2	3	3	7	8	5	5	7	4	3	4	4	2	3	4	2	8	2	6	3	1	4
16	1	11	0	2	2	6	3	2	11	5	4	3	1	1	4	5	6	4	5	5	3	4	4	6	4
17	3	3	4	4	5	12	2	3	1	5	5	2	4	2	4	5	3	9	5	6	5	2	3	3	4
18	4	2	4	2	3	4	4	1	6	9	7	6	8	5	6	11	12	6	10	14	11	13	16	6	7
19	11	19	16	12	15	23	16	13	21	18	16	20	15	19	14	19	11	12	15	11	17	10	15	12	15
20	13	10	14	9	9	11	7	8	9	6	7	33	3	10	8	4	2	10	5	5	4	4	6	5	8
21	3	5	2	2	2	5	3	4	2	5	7	9	8	6	5	6	18	1	31	4	7	9	9	6	6
22	4	12	7	5	4	5	6	8	7	4	4	5	3	5	7	5	2	5	9	5	2	7	3	4	5
23	2	2	3	2	2	2	4	5	4	4	5	1	6	2	1	2	2	2	0	1	1	2	1	2	2
24	2	6	1	2	2	2	1	2	1	11	1	31	4	2	1	2	3	1	2	3	1	3	3	2	4
25	1	1	2	1	2	2	2	2	1	2	1	0	2	1	1	2	1	2	1	1	2	2	3	1	1
26	0	1	1	3	2	0	0	1	10	2	2	1	1	2	2	1	1	2	1	2	1	1	2	1	2
27	1	6	1	7	1	0	1	4	0	2	1	1	1	1	3	1	2	1	2	1	1	1	6	4	2
28	0	1	1	4	2	1	2	2	1	2	2	1	0	0	1	2	2	4	7	30	15	40	8	14	6
29	8	4	236	5	5	2	2	1	2	4	1	6	5	4	6	5	6	5	5	4	25	52	26	15	18
30	8	10	10	7	12	12	12	16	27	34	19	30	15	11	10	12	15	22	16	10	4	4	4	2	13
31	3	4	3	1	2	2	4	1	3	2	4	1	3	1	1	1	7	4	3	2	2	12	3	1	3
AVG	32	16	14	5	5	6	6	6	14	8	6	9	5	5	4	5	4	6	6	6	5	19	9	20	
MAX	771	233	236	24	29	29	33	35	246	74	23	35	23	19	14	19	15	27	34	31	25	213	66	449	
MIN	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	

Percent of time operational: 100 M - missing data
 Monthly Average: 9 Monthly Maximum: 771 Monthly Minimum: 0

PM2.5 [ug/m3]
Lafarge North America Inc.
Young Offenders Centre
STATION 636
DEC 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	
1	17	1	1	1	1	1	2	2	2	1	3	15	1	4	6	6	6	6	M	M	2	2	2	2	4
2	2	2	5	5	2	1	3	3	2	1	1	1	1	2	2	6	6	1	5	5	5	5	2	2	3
3	1	1	2	2	2	2	2	2	2	1	2	3	3	1	5	9	4	2	3	2	1	2	1	4	2
4	2	2	1	1	1	3	2	7	2	2	4	2	2	2	2	4	2	2	2	2	2	2	2	2	2
5	2	2	2	2	2	2	2	1	2	2	1	1	3	4	4	2	2	1	2	4	17	33	19	6	5
6	2	3	6	14	4	16	16	11	6	25	14	6	4	2	2	2	3	8	3	2	2	1	2	2	6
7	1	3	3	1	1	1	1	2	2	2	1	2	5	4	2	5	6	9	10	8	18	9	32	31	7
8	10	32	60	62	34	42	48	79	51	71	46	55	25	50	30	34	19	13	5	6	6	33	50	83	39
9	44	46	63	55	60	73	41	32	15	34	62	70	56	26	3	2	2	2	1	1	1	2	2	2	29
10	2	1	1	1	1	2	2	2	2	2	2	2	6	3	3	9	9	2	2	1	2	3	2	2	3
11	1	1	1	1	1	1	2	2	3	5	3	1	1	2	2	2	6	2	2	1	1	1	1	1	2
12	3	4	4	4	1	1	1	6	7	4	5	11	5	3	3	4	3	6	6	2	2	2	1	1	4
13	5	10	2	7	4	4	5	5	1	2	6	2	5	6	10	5	7	16	10	6	2	6	3	23	6
14	14	6	9	17	10	19	8	12	12	17	9	6	9	4	10	10	5	12	10	3	6	18	8	2	10
15	2	2	11	5	6	1	5	17	2	13	4	6	6	6	10	4	2	3	2	2	3	2	2	2	5
16	2	14	14	5	2	10	6	6	15	5	4	2	3	13	9	11	9	6	6	6	5	4	7	7	7
17	5	8	8	6	6	8	3	6	2	6	9	5	4	3	6	12	10	2	7	4	7	2	6	2	6
18	4	2	4	6	6	2	6	2	12	4	6	13	12	15	12	16	13	17	21	18	17	16	13	9	10
19	13	11	17	20	25	17	21	17	22	18	22	22	28	15	31	20	19	21	22	14	31	16	25	29	21
20	26	14	25	12	25	23	7	16	12	14	6	13	11	11	5	6	6	12	10	9	2	4	10	1	12
21	2	6	3	4	6	6	9	1	7	4	5	14	7	15	9	10	17	17	2	14	10	10	11	15	8
22	10	10	14	15	10	6	10	9	9	6	12	5	3	6	6	10	5	6	10	6	2	6	7	10	8
23	5	4	5	6	2	6	3	8	7	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	2
24	1	1	0	2	2	1	1	0	0	3	1	0	0	0	0	1	1	0	1	0	1	1	3	0	1
25	1	0	1	0	0	1	1	0	1	0	1	0	0	1	1	0	1	2	1	1	0	1	1	0	1
26	0	0	0	2	0	0	0	0	0	1	0	1	0	1	0	1	0	1	1	0	0	1	0	1	1
27	0	5	1	0	0	1	1	0	0	0	0	0	1	1	0	1	0	1	1	1	0	1	2	0	1
28	0	1	1	1	1	1	1	0	0	2	0	1	0	0	1	0	0	1	7	16	7	12	11	9	3
29	6	4	6	3	4	2	1	1	1	0	4	5	2	4	5	3	7	2	3	14	29	16	12	6	6
30	6	5	7	7	7	9	9	10	20	27	16	24	17	14	11	14	12	17	16	5	1	1	5	2	11
31	3	2	1	1	1	2	4	1	1	1	2	0	1	0	0	-1	8	4	1	1	2	7	0	1	2
AVG	6	7	9	9	7	8	7	8	7	9	8	9	7	7	6	7	6	7	6	5	5	7	8	8	8
MAX	44	46	63	62	60	73	48	79	51	71	62	70	56	50	31	34	19	21	22	18	31	33	50	83	83
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	1	0	0	1	0	0	0

Percent of time operational: 100
 Monthly Average: 7 Monthly Maximum: 83 M - missing data
 Monthly Minimum: -1