



December 29th, 2008

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

Re: Noise Monitoring for Lafarge – Stoney Trail #1

Dear Mr. Thurber;

Attached are results of the monitoring for the period November 1 - 30, 2008 for noise and TSP and PM2.5 particulate. A B&K model 2236 meter was used for noise, and the Aerometrics Minivol model for particulate. Winds were measured with a R.M. Young Model 5103 anemometer. Precipitation was recorded with a Texas Instruments model TE25M rain gauge.

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

There were nine exceedances of the city of Calgary noise bylaw.

There were no exceedances of the Alberta Air Quality Objectives for TSP or PM2.5 particulate.

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

Stoney Trail #1

Lafarge Canada Inc.

Name/Location

Company

November 2008

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	100%	45	58 dB A	9
PM2.5	100%	7	11	0
TSP	100%	38	66	0
Wind	100%	13 km/h	41 km/h	-
Precipitation	100%	-	1	-
Trailer Temperature	100%	3	20	-

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

COMMENTS:

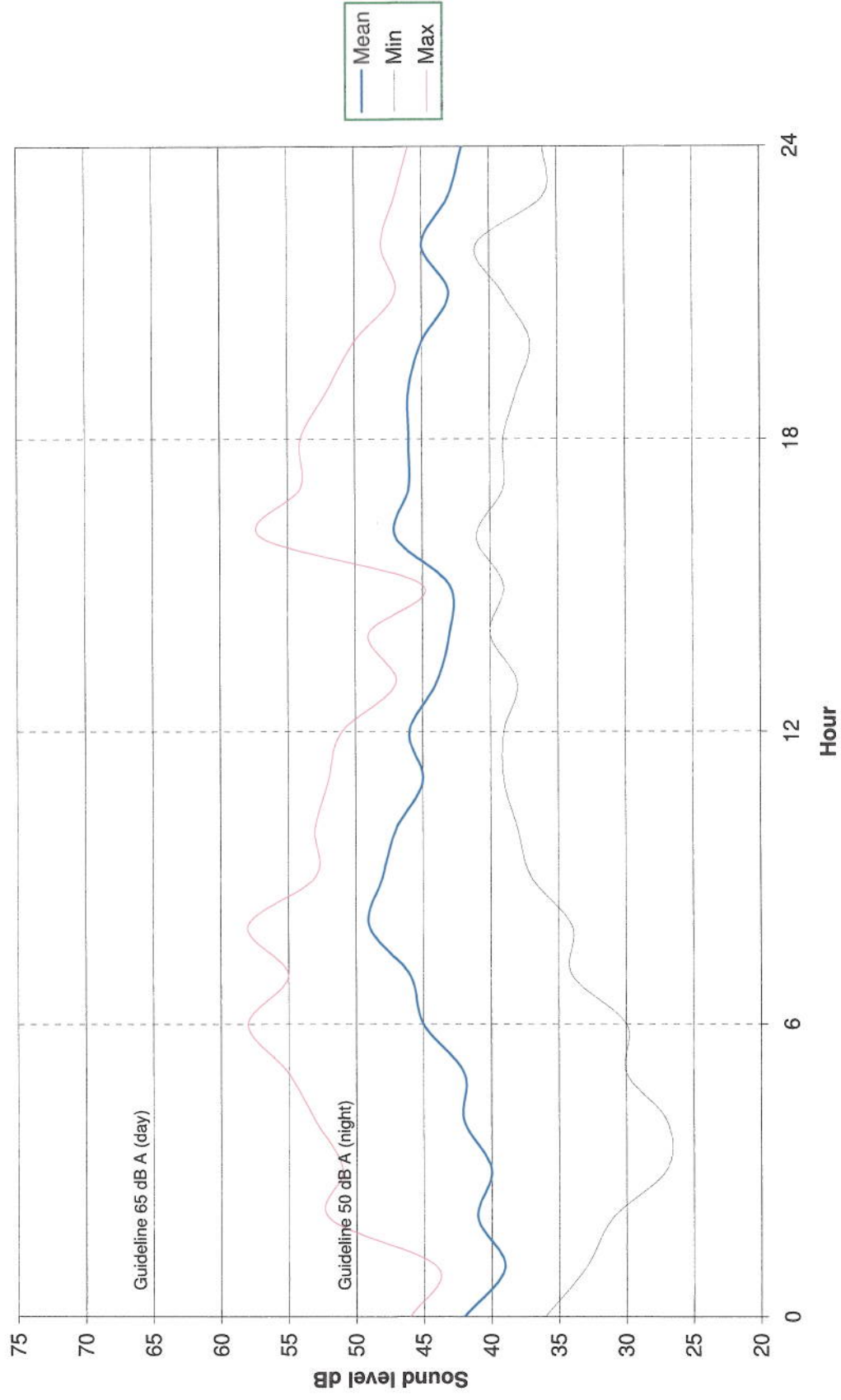
The regulation for residential areas is 65 dB A for day time or 50 dB A for night-time. Sound Level must exceed 5 dB A Leq over the Ambient Sound Level before it becomes an offence.

The PM2.5 Standard is 30 $\mu\text{g}/\text{m}^3$ for the day.

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

One 24 hour sample of PM2.5 and TSP is taken every 6th day following the federal NAPS schedule.

Sound Level by Hour of the Day



Stoney Trail #1

November 2008

SOUND LEVEL [dBA] Leq 1 hour

Lafarge Canada Inc.

Stoney Trail

STATION 620

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	
1												39												40	40
2			35	34				40	46	44	43	46	40	42	45	47	45		48						44
3																			48	47	41	48	41	44	46
4	42	52	51	48	55	44	54	58	52	53	C			41	42	43	47	46	45	44	39	41	36	36	48
5			39	34	41	38	37	40	44	40	40		39			41	42	43	42	38	44	48	45	44	42
6	37	38	33	53	44	46	50	51		46										46	43	47			40
7					49	58	55	55	52	48	50	50	46	43	44	47	45	54	52	49	46	47	47	46	50
8	44	42	43	44	39	39	51	50	52	48	45	43	43	43	44	45	47	45							46
9																47	43		43						44
10					36	40	49	53	52	52	47	48		40	41	45	46								47
11	36	41	42	37	37	34	39	45	43	42	42	42	43	43	44	42									41
12			33	34	40	43	42											46							41
13					42	42	48	47												46	42	43	39	44	44
14	34	32	36	51	43	45	38	49	53	44	44														45
15								45			52	51						47	47	50	40	46			48
16				32	33	30	34	34	37	38	39	40	41	41	41	41	39	39							38
17																57	54	46	43	37			42		50
18			40						48	46						48	49	49	49	46	40	43	45		46
19		34	39	34	31	46	44	44	45		39	44	42	43	45	44	43	44	46						43
20																									0
21								48	47	47	45	49							45	45	43	42	42	42	46
22	41	39														47	47								44
23				30	34								46	44	41		43	40	38						41
24														45					46						45
25						40					45	44	41	42	42	45	43	45	48	45	43				44
26				36				51	48	45	42			41	39		45	43	44				38	44	
27	35	36	37	36	37				48	44	43	43	38	40	42	43	44								41
28									48	47	44	47	47						42	44					46
29							37	42	41	50	46	46	46	49	45	51	44	46	48	45	40			42	46
30	33	31	27	27	30		34	39	40	45	45	45	47												40
AVG	39	41	40	42	42	45	46	49	48	47	45	46	44	43	43	47	46	46	46	45	43	45	43	42	
MAX	44	52	51	53	55	58	55	58	53	53	52	51	47	49	45	57	54	54	52	50	47	48	47	46	
MIN	33	31	27	27	30	30	34	34	37	38	39	39	38	40	39	41	39	39	38	37	39	41	36	36	

*** SOUND DATA REPORTED ONLY FOR WIND SPEED < 11.5 KM/H ***

Percent of time operational: 100 M missing data C - Calibration
 Monthly Average: 45 Monthly Maximum: 58 Monthly Minimum: 27

Averages are computed only when time operational > 75%

*** 9 Exceedances of Guideline***

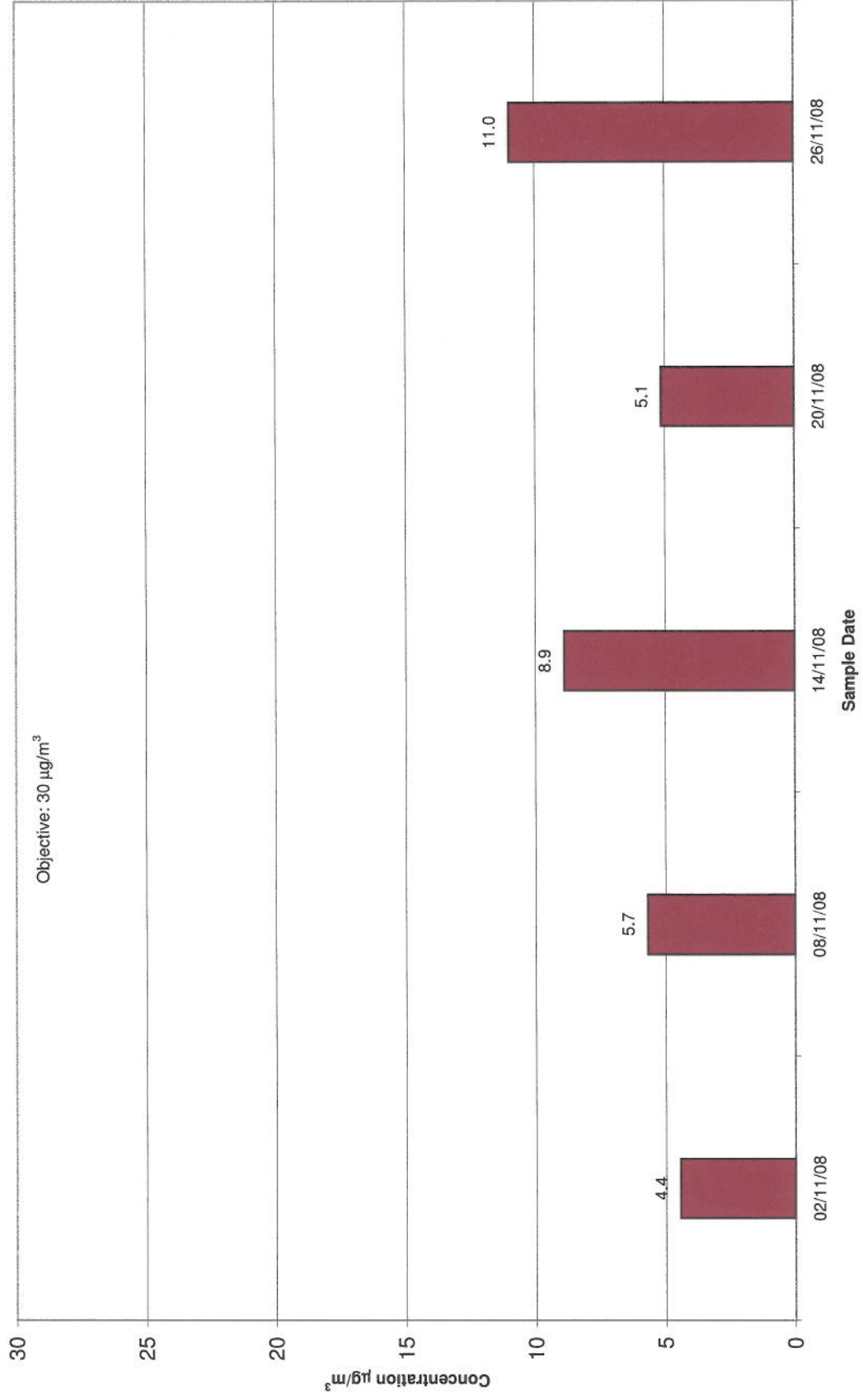
26 DEC 2008 1534

NOISE LEVEL EXCEEDANCES
 Lafarge Canada Inc.
 Stoney Trail
 STATION 620
 NOV 2008

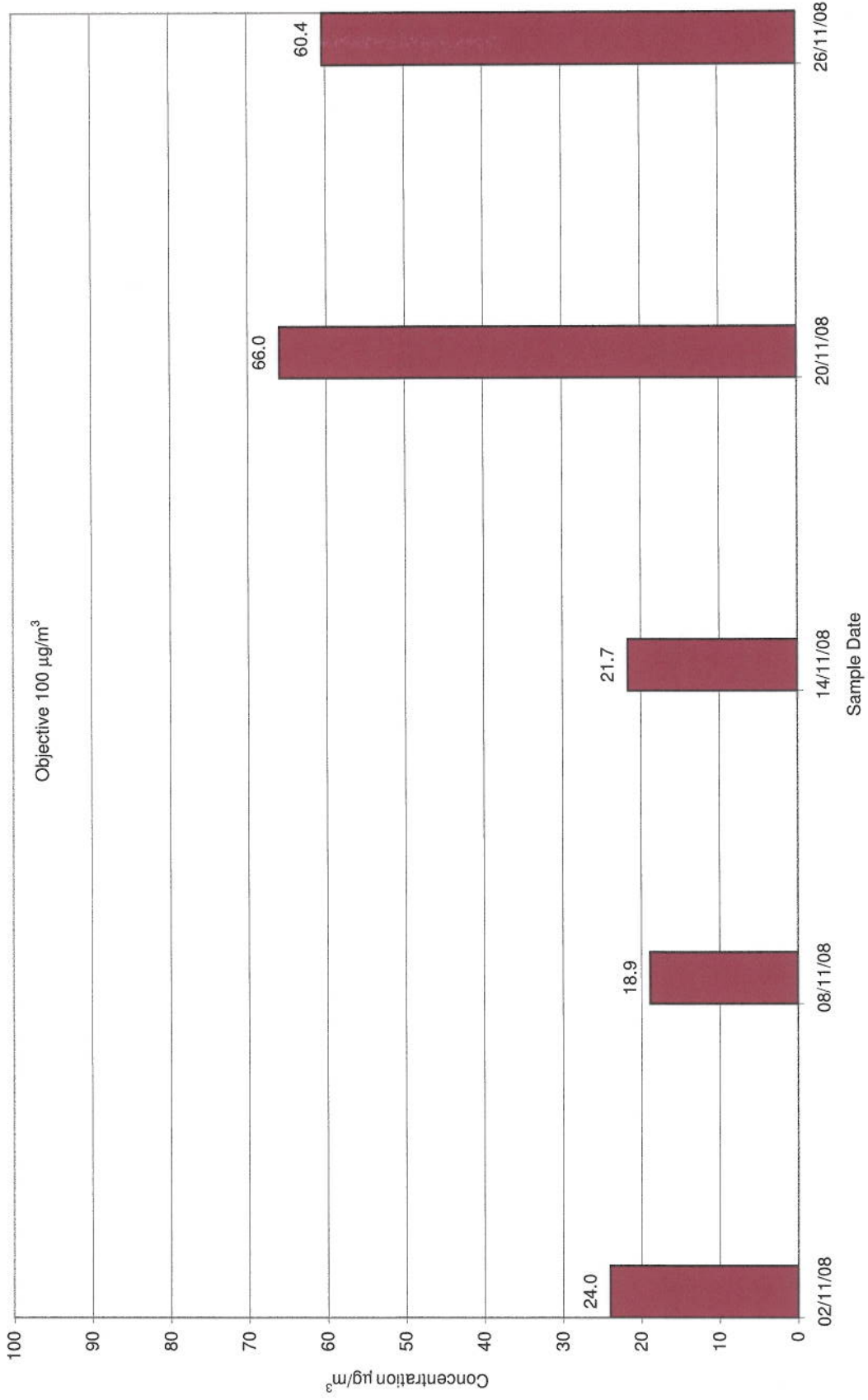
Date	Hour Ending MST	Sound Level dB A	Sound Limit dB A	Wind Direction	Wind Speed km/h	Pcpn mm	Temp C
4	200	52	50	S	7	0	1
4	300	51	50	WNW	3	0	0
4	500	55	50	S	7	0	-2
4	700	54	50	SSW	4	0	-2
6	400	53	50	SW	9	0	0
7	600	58	50	NNW	10	0	2
7	700	55	50	NNW	7	0	1
8	700	51	50	SSW	11	0	1
14	400	51	50	WNW	9	0	0

9 EXCEEDANCES NOV 2008

PM2.5 at Lafarge Stoney Trail #1 November 2008



TSP at Lafarge Stoney Trail #1, November 2008



ABSTRACT OF THE WIND
 Lafarge Canada Inc.
 Stoney Trail
 STATION 620
 NOV 2008

HOUR DAY	ALL TIMES ARE L.S.T.																								SPEED [km/h]					ANEMOMETER HEIGHT 10 m					MEAN SPD	MAX VEL	PREV DIR	MISS OBS
	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	W	WNW	W	W	W	W	W	W	W	W	WNW	WNW	SE	SE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	S			W	0										
15	12	15	16	16	15	13	14	15	15	14	7	12	13	14	17	16	16	16	18	15	12	12	11	14	18			0										
2	SW	SSW	SSW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	W	W	WNW	WNW	W	WNW	WNW	W	W	W	W	W	W	W	0										
13	12	10	11	12	13	13	11	10	8	9	9	9	7	8	7	9	12	11	17	15	18	20	14	12	20			0										
3	W	W	W	W	W	WNW	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	W	W	W	0										
17	22	22	26	25	23	18	19	20	21	23	22	25	27	24	15	14	12	11	9	10	6	9	8	18	27			0										
4	WNW	S	WNW	NNE	S	SW	SSW	E	ESE	ESE	SE	ESE	ESE	SE	ESE	E	ESE	S	SE	SSE	ESE	NE	NE	ENE			ESE	0										
8	7	3	3	7	7	4	2	3	6	11	16	13	8	7	7	10	5	4	5	4	5	8	10	7	16			0										
5	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ESE	SE	SSE	S	S	S	S	S	SSW	WSW	WNW	NW	NW	NNW	NNW			ENE	0										
12	12	11	10	7	6	6	6	6	7	10	12	11	12	12	11	9	8	2	1	7	6	10	8	8	12			0										
6	WNW	W	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	0									
5	3	8	9	10	8	10	10	12	11	12	15	16	14	17	20	18	13	9	6	8	12	13	16	11	20			0										
7	W	WNW	WNW	NW	NNW	NNW	NNW	NNW	NW	W	SW	SW	WSW	W	WSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	0									
22	22	19	16	10	10	7	4	6	9	11	10	8	10	9	7	7	6	8	9	9	7	8	9	10	22			0										
8	WSW	SW	SSW	WSW	SW	SW	SSW	SW	SW	SSW	WSW	SSW	SSW	SSW	SSW	SW	S	SW	WSW	W	W	W	W	W	W	W	W	W	0									
7	9	10	11	9	9	11	9	10	6	3	5	4	6	9	11	4	10	15	15	17	15	16	16	10	17			0										
9	W	W	W	W	W	W	W	W	W	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	0									
16	17	14	13	15	15	14	14	13	13	16	18	20	21	17	8	9	12	11	12	12	12	16	16	14	21			0										
10	W	W	NW	NNW	NNW	N	N	NW	SW	SW	SW	S	SSE	SSE	S	S	S	S	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	0									
15	15	13	12	9	7	6	3	7	11	10	10	13	11	9	9	12	12	14	17	22	18	17	12	22			0											
11	WNW	NW	NW	WNW	WNW	SW	SW	SW	SW	SW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	0									
10	10	10	9	4	9	9	9	11	10	6	6	6	8	8	8	12	17	16	16	15	17	16	13	11	17			0										
12	S	SSW	SSW	S	S	SSW	SSW	SW	WSW	WSW	NNW	NNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	0										
14	13	10	11	8	11	22	22	18	20	25	27	25	26	17	11	13	14	16	15	21	20	14	17	27			0											
13	W	W	W	W	W	W	W	W	W	WNW	WNW	NNW	NW	WNW	WNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	W	W	W	0										
16	16	16	12	13	13	10	11	9	11	13	14	13	15	16	22	23	25	19	14	9	11	9	10	14	25			0										
14	WNW	WNW	WNW	WNW	W	NW	NNW	NNW	N	S	S	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	0										
8	10	9	9	9	10	9	6	4	4	8	15	18	20	21	19	16	16	15	12	14	13	16	16	12	21			0										
15	WSW	W	W	WSW	WSW	WSW	WSW	NW	N	N	ENE	SSE	ESE	ESE	SE	SE	ESE	E	NE	N	NNW	ENE	ENE	ENE	WSW	0												
19	23	19	24	24	19	13	11	12	12	7	9	14	15	17	16	13	8	5	2	2	10	12	13	13	24			0										
16	ENE	NE	NE	NE	ENE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	ESE	ESE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	0									
14	14	13	8	5	2	7	10	10	11	10	8	9	10	11	11	9	11	14	15	18	17	18	18	11	18			0										
17	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	SSW	SW	SW	SW	SW	WSW	WSW	SSW	SSW	SSW	W	W	WSW	W	WSW	W	WSW	W	0									
18	18	19	18	17	18	17	17	18	16	18	16	15	14	17	14	8	5	11	7	4	13	15	10	16	14	19			0									
18	W	SW	WSW	W	W	WSW	WSW	W	NW	NW	N	NNW	NW	N	N	NNW	W	WSW	NNE	ENE	NNE	N	NNE	SSW	SSW	SSW	SSW	SSW	0									
13	15	8	17	16	20	24	13	7	9	16	18	19	17	15	10	6	5	7	5	5	6	11	15	12	24			0										
19	NNE	NNE	NE	ENE	NE	NNE	NNE	N	NNE	NNE	NNE	NNW	NNW	N	NNE	NE	ENE	E	SE	SSE	S	S	S	S	NNE	0												
13	10	6	8	9	6	3	7	10	12	8	7	9	9	8	5	7	7	14	18	20	23	22	10	23			0											
20	S	S	S	S	S	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	0									
22	26	25	21	22	23	29	24	27	32	36	37	41	37	32	32	33	11	22	20	20	19	17	28	41			0											
21	SW	W	W	W	W	WNW	NW	NNW	NNW	NNW	N	NNE	S	SSE	SSE	SSE	SSE	SSE	S	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	0									
19	23	24	22	24	19	15	10	8	5	7	5	15	19	21	17	14	13	10	8	7	9	9	14	24			0											
22	SSW	SW	SW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WNW	W	WSW	WNW	W	WNW	W	W	W	W	W	W	W	W	W	0									
11	8	13	18	29	30	28	27	30	30	27	23	23	17	14	11	10	18	14	12	13	14	13	13	19	30			0										
23	W	W	W	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	0									
12	13	12	11	11	12	14	16	16	15	13	13	11	10	9	12	10	9	9	13	15	13	15	14	12	16			0										
24	WSW	W	W	W	W	W	W	W	W	W	WNW	W	W	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	0									
14	16	18	25	24	18	23	28	21	23	18	20	18	8	20	26	32	27	24	11	15	22	26	24	21	32			0										
25	WSW	WSW	WSW	W	W	W	W	W	WSW	W	W	WSW	WSW	WSW	WSW	W	W	W	WNW	W	W	W	W	W	W	W	W	W	0									
22	22	20	17	16	10	13	13	14	12	10	11	9	7	7	5	6	9	7	5	7	14	16	15	12	22			0										
26	W	NNW	N	N	N	NNW	N	W	SW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	S	SSW	WSW	W	W	W	W	W	W	W	W	0										
14	20	13	11	12	17	16	6	9	9	9	12	12	11	11	12	9	6	5	12	14	12	12	10	11	20			0										
27	WNW	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	0									
9	10	11	10	11	14	14	12	9	8	7	6	8	9	9	10	17	19	20	26	27	23	18	13	27			0											
28	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	KNW	W	SSW	S	S	S	S	S	SSW	SW	W	W	W	W	W	W	W	W	W	0									
16	17	18	16	19	20	20	10	11	9	10	11	14	14	15	14	14	10	11	12	16	15	15	15	15	20			0										
29	WNW	WNW	WNW	W	WNW	NNW	N	N	W	SSW	SE	ENE	NE	NE	NNE	NNW	W	SW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	0									
19	17	16	17	18	15	8	5	6	5	4	5	6	8	11	7	5	3	4	3	8	13	14	9	9	19			0										
30	NNW	NNW	NW	SW	S	W	WNW	WNW	NNW	NNW	NNE	E	SSE	S	SSE	S	S	S	S	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	0									
5	4	1	5	3	12	11	11	8	6	5	9	8	12	15	16	17	16	14	13	13	13	18	18	11	18			0										

MEAN
 SPEED 14 14 14 14 14 13 12 12 12 12 13 14 14 15 13 12 13 11 11 13 14 15 14 13 41 W 0
 NOTE: Missing data represented by M; no clear prevailing direction represented by SVL; calm winds represented by CALM
 Date of Last Calibration 060221 Make and Model of Instrument: RM Young5103 WS UPTIME 100 % WD UPTIME 100 %

FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

Lafarge Canada Inc.

Stoney Trail

STATION 620

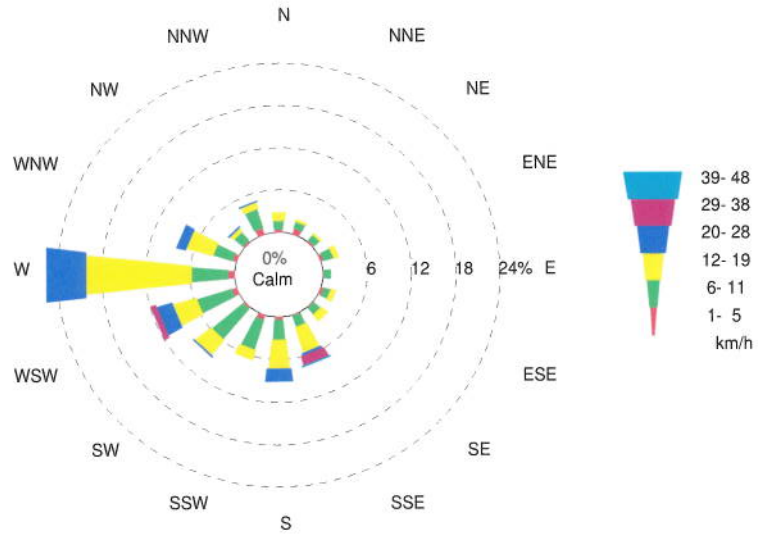
NOV 2008

SPEED (km/h)	WIND DIRECTION																TOTAL	PCT	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
< .5																		0	0
1- 5	3	6	2	3	1	3	1	1	3	5	2	5	6	4	2	7	54	8	
6- 11	9	7	7	10	7	7	9	12	20	32	40	36	36	20	11	20	283	39	
12- 19	8	2	2	5	0	5	8	27	30	10	20	24	104	27	5	7	284	39	
20- 28	0	0	0	0	0	0	0	3	13	0	1	16	39	9	1	1	83	12	
29- 38	0	0	0	0	0	0	0	10	0	0	0	5	0	0	0	0	15	2	
39- 48	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	
TOTAL	20	15	11	18	8	15	18	54	66	47	63	96	185	60	19	35	720	100	
PERCENT	3	2	2	3	1	2	3	8	9	7	9	12	26	8	3	5			
AVERAGE	10	8	8	9	7	10	12	19	15	10	11	14	15	14	11	9	13		

26 DEC 2008 1534

Wind rose for NOV 2008
Stoney Trail

Bar length is proportional to frequency of winds from its direction



TRAILER TEMPERATURE
Lafarge Canada Inc.
Stoney Trail
STATION 620
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	
1	10	10	10	9	9	9	8	8	9	12	14	17	19	20	20	19	16	13	11	10	9	9	8	7	12
2	7	7	7	7	7	8	8	9	9	9	12	14	16	17	19	19	16	14	13	12	11	11	11	10	11
3	8	8	8	8	8	8	8	7	7	8	10	11	12	13	13	11	8	7	6	4	2	1	1	0	7
4	1	1	0	-1	-2	-2	-2	-2	-1	1	3	4	4	4	5	4	3	3	2	2	2	2	1	1	1
5	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	2	2	1	1	1	1	0	0	1
6	1	1	1	0	1	0	0	-1	0	1	1	3	4	5	4	3	2	1	1	1	0	1	0	1	1
7	2	3	3	4	3	2	1	1	1	4	6	8	10	12	14	13	10	6	3	2	1	0	1	0	5
8	1	0	1	1	1	1	1	0	0	2	4	6	7	8	8	7	6	4	3	5	6	6	7	4	
9	6	6	5	5	4	4	4	3	4	6	9	11	13	14	14	11	9	7	6	4	3	3	3	7	
10	3	3	2	1	1	0	0	-1	-1	1	2	5	8	9	8	8	5	3	2	2	2	2	3	3	3
11	1	1	1	1	1	0	0	1	1	1	1	2	2	3	4	5	4	3	2	1	1	1	1	1	2
12	1	1	2	2	2	2	2	2	3	5	7	10	12	14	14	13	11	8	6	5	4	4	4	3	6
13	3	2	2	1	1	0	1	1	1	1	3	3	4	4	5	4	3	2	1	0	1	0	0	1	2
14	-1	-1	0	0	1	1	1	-1	-1	1	2	3	4	5	5	4	2	0	1	1	1	1	0	1	1
15	3	5	6	6	6	6	6	5	5	4	4	5	6	8	10	9	7	5	3	3	3	3	2	2	5
16	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	1
17	1	0	1	1	1	1	1	1	1	1	0	1	1	3	3	4	3	2	2	1	3	5	6	6	2
18	7	7	7	7	7	8	8	7	6	7	8	7	8	6	5	4	3	1	1	1	1	1	1	1	5
19	0	1	0	1	1	1	1	0	0	0	0	0	1	0	1	1	1	-1	-3	-3	-2	-3	-2	-2	0
20	-2	-2	-3	-4	-4	-5	-6	-6	-5	-3	-2	0	0	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2
21	-2	-1	1	1	1	1	1	1	1	1	3	5	7	7	7	6	4	1	1	1	0	0	0	0	2
22	1	0	1	1	0	0	1	0	1	1	2	3	4	4	4	3	2	1	0	1	0	0	0	1	1
23	-1	-2	-2	-2	-3	-3	-3	-2	-1	1	2	4	6	8	8	7	3	0	0	0	0	1	1	1	1
24	1	2	3	4	4	4	4	4	5	5	6	6	7	8	10	10	9	8	7	6	5	5	5	5	5
25	4	4	4	3	3	3	2	1	2	2	4	6	8	8	7	7	7	5	4	3	2	2	3	3	4
26	3	3	2	2	1	1	1	1	0	1	1	3	5	7	8	7	4	0	-1	-2	-1	-1	-1	-1	2
27	-3	-3	-3	-3	-4	-3	-3	-3	-3	-1	1	3	5	5	3	2	1	1	2	2	2	2	2	1	0
28	0	1	0	1	1	1	1	1	0	0	1	3	5	6	5	4	3	2	1	1	1	0	1	1	2
29	1	2	2	2	2	2	2	1	1	1	3	7	10	10	10	9	5	1	0	-1	0	1	2	2	3
30	0	0	0	-1	-2	-1	1	1	1	1	4	6	8	9	8	7	5	3	3	2	2	2	4	5	3
AVG	2	2	2	2	2	2	2	1	2	3	4	5	7	7	7	7	5	3	3	2	2	2	2	2	2
MAX	10	10	10	9	9	9	8	9	9	12	14	17	19	20	20	19	16	14	13	12	11	11	11	10	
MIN	-3	-3	-3	-4	-4	-5	-6	-6	-5	-3	-2	0	0	-1	1	1	-1	-1	-3	-3	-2	-2	-2	-2	

Percent of time operational: 100 M - missing data
 Monthly Average: 3 Monthly Maximum: 20 Monthly Minimum: -6