

PROMET

March 18, 2008

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

Re: **Noise Monitoring for Lafarge – Stoney Trail**

Dear Coates;

Attached are results of the monitoring for the period February 1 - 29, 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; except for sound which was 99% and PM2.5 which was 80%..

There were no 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.



Dr. William (Bill) Murray
President

WM/kt
Enc.

PROMET

MONTHLY REPORT SUMMARY

Stoney Trail

Lafarge Canada Inc.

Name/Location

Company

February 2008

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	99%	45	55 dB A	0
PM2.5	80%	6	6	0
TSP	100%	49	74	0
Wind	100%	13 km/h	37 km/h	-
Precipitation	100%	-	0	-
Trailer Temperature	100%	-3	16	-

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.

Missing data for sound was due to the cold weather.

SOUND LEVEL [dBA] Leq 1 hour

Lafarge Canada Inc.

Stoney Trail

STATION 620

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

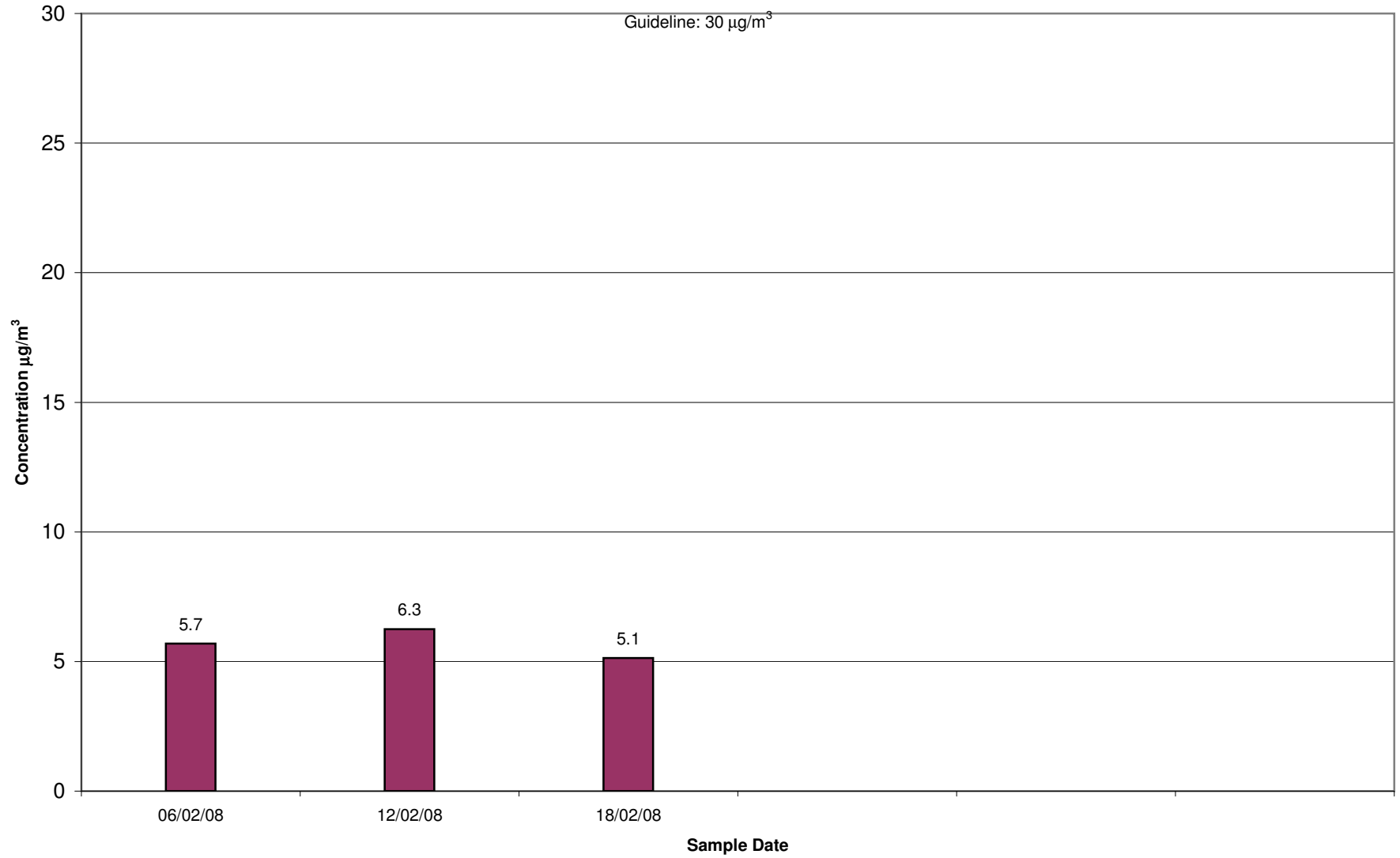
*** SOUND DATA REPORTED ONLY FOR WIND SPEED < 11.5 KM/H ***

Percent of time operational: 99 M - missing data C - Calibration

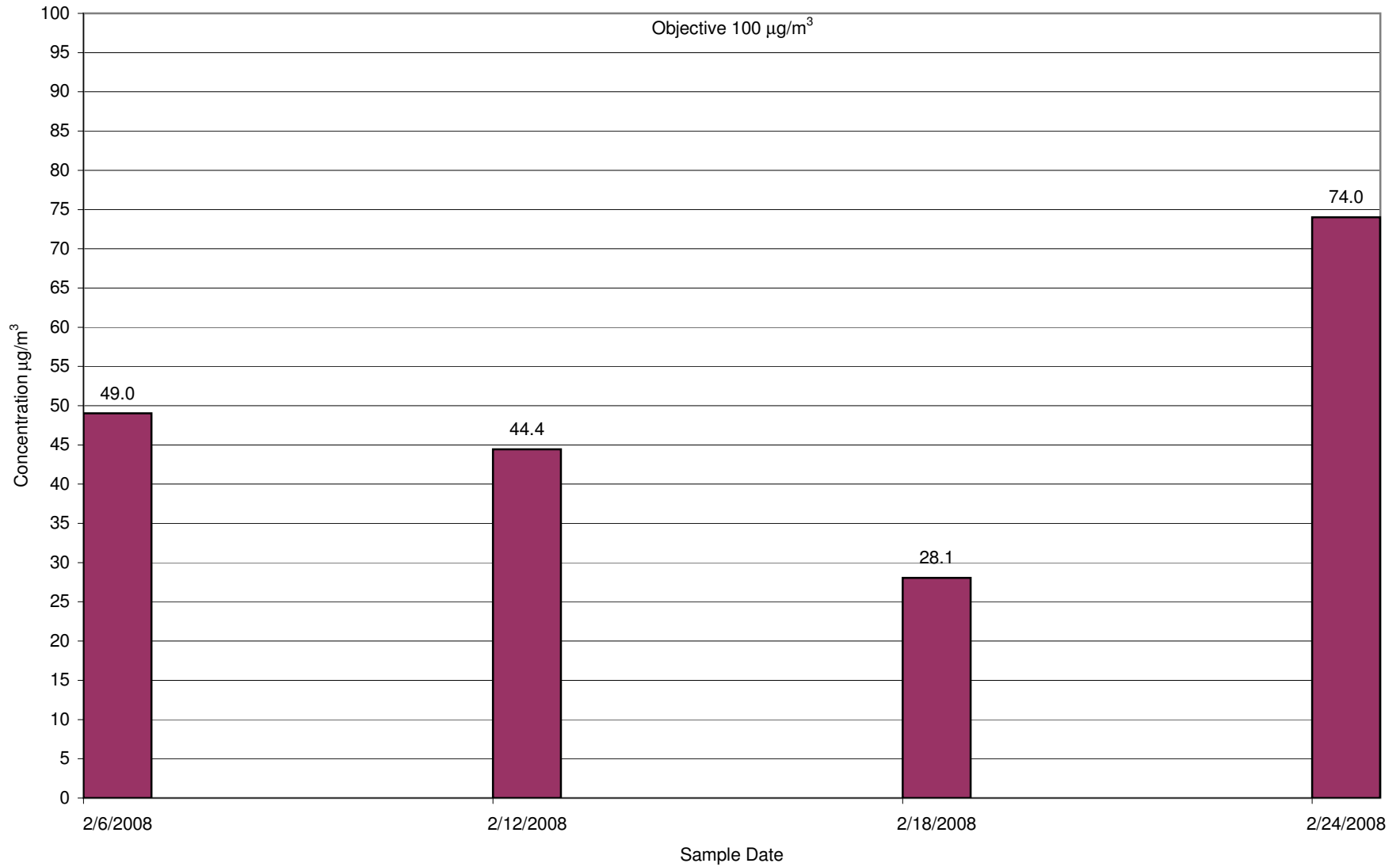
Monthly Average: 45 Monthly Maximum: 55 Monthly Minimum: 28

*** 0 Exceedances of Guideline***

PM2.5 at Lafarge Stoney Trail February 2008



TSP at Lafarge Stoney Trail, February 2008



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

ALL TIMES ARE L.S.T.		SPEED [km/h]															ANEMOMETER HEIGHT 10 m					MEAN	MAX	PREV	MISS			
HOURLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	SPD	VEL	DIR	OBS
1	SSW	SW	SW	SW	WSW	W	N	NNE	N	NW	WSW	WSW	WSW	SSW	SE	S	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	8	13	WSW	0
2	WSW	W	NNW	NNW	NNW	NNW	WNW	W	W	WSW	WSW	SSW	S	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSW	14	26	SVL	0	
3	NW	WNW	WSW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	N	N	NNE	N	N	N	N	NNW	NNW	13	20	N	0	
4	NNW	NNW	NW	SW	SW	SW	SW	SSW	S	S	S	S	S	S	S	S	SSW	WSW	W	W	W	W	W	12	20	S	0	
5	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SW	SW	SW	SSW	SSW	S	SW	SSW	SSW	WSW	WSW	14	21	SW	0	
6	WSW	WSW	W	W	W	WNW	W	WNW	W	WNW	WNW	W	W	W	W	W	W	W	W	WSW	W	SSW	S	14	21	W	0	
7	SSE	S	S	SSW	SSW	WSW	WSW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNE	ENE	ENE	W	W	WSW	WSW	WSW	SW	11	21	SVL	0	
8	S	SW	W	WSW	SW	WNW	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	NNE	NE	11	21	N	0
9	NNE	N	N	NNW	N	NNE	N	N	N	NNE	ESE	ENE	E	E	E	E	ESE	SSE	SSE	S	S	S	S	10	27	N	0	
10	S	S	S	S	SSW	SSW	SW	SW	SW	NNW	N	NNW	WSW	W	NE	SSE	NE	E	ESE	SW	WSW	NNW	N	15	33	SVL	0	
11	NNW	NNW	NW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	W	15	23	W	0	
12	WNW	NNW	N	N	N	N	W	WSW	SSW	S	S	S	SSE	SSE	S	S	SSW	WSW	S	NNW	NNW	NW	NW	12	24	S	0	
13	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	N	NNW	N	N	N	NE	WSW	WSW	SW	18	34	NNW	0	
14	SSW	SW	WSW	WSW	W	W	W	W	WNW	WNW	WNW	WNW	W	W	W	W	WSW	SW	SSW	SSW	SSW	SW	WSW	12	18	W	0	
15	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	W	WNW	WNW	23	37	W	0	
16	N	NNW	N	S	SSW	SW	SSW	SW	WNW	N	NNE	NNE	N	NNW	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NNW	14	29	NNW	0	
17	NNW	NW	NW	NW	NNW	W	W	W	W	SW	SW	WSW	WSW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NW	11	18	NW	0	
18	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	WSW	WSW	WSW	N	NE	SE	SW	SW	SW	WSW	W	11	17	WNW	0	
19	W	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	W	WSW	WSW	S	SSE	SSE	SSE	SSE	SSE	SSW	SW	SW	WSW	13	17	WNW	0	
20	WNW	NNW	NNW	NNW	NNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	N	ENE	E	SE	S	S	SSW	SW	SW	WSW	9	15	WNW	0	
21	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WSW	WSW	SSE	SSE	SSE	SSE	S	S	S	S	S	SW	WNW	9	15	WNW	0	
22	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	NNW	N	NE	ENE	ENE	E	E	ESE	SE	SSW	WSW	W	WNW	8	14	WNW	0	
23	WNW	NW	NW	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NE	WNW	NNW	NW	N	NNW	11	21	NNW	0		
24	N	NNE	NE	ENE	NNE	NNE	NNE	N	WNW	NNE	NNE	NNE	ENE	E	E	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	8	14	NNE	0	
25	S	SSE	SSE	S	SW	WSW	WSW	WSW	SW	SW	SW	SSW	S	S	SSE	SSE	S	S	S	SSW	SSW	SW	W	12	18	S	0	
26	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	SW	S	S	S	SSE	SSE	SSE	S	SW	SW	SSW	14	18	WNW	0	
27	SW	SSW	SW	WSW	WSW	W	W	W	WNW	WNW	W	W	W	W	W	W	W	W	W	WNW	WNW	W	W	17	28	W	0	
28	NNW	NNW	N	NNE	N	N	NNW	NW	NW	W	WSW	WSW	WSW	SSW	SSW	S	S	S	S	S	S	SSW	SW	12	25	S	0	
29	SW	SW	SSW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	SW	S	SSE	SSE	SSE	S	SW	SSW	12	19	SW	0		

MEAN
 SPEED 11 11 12 13 14 13 12 12 12 12 13 14 14 14 14 14 14 13 13 12 11 11 12 12 13 37 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

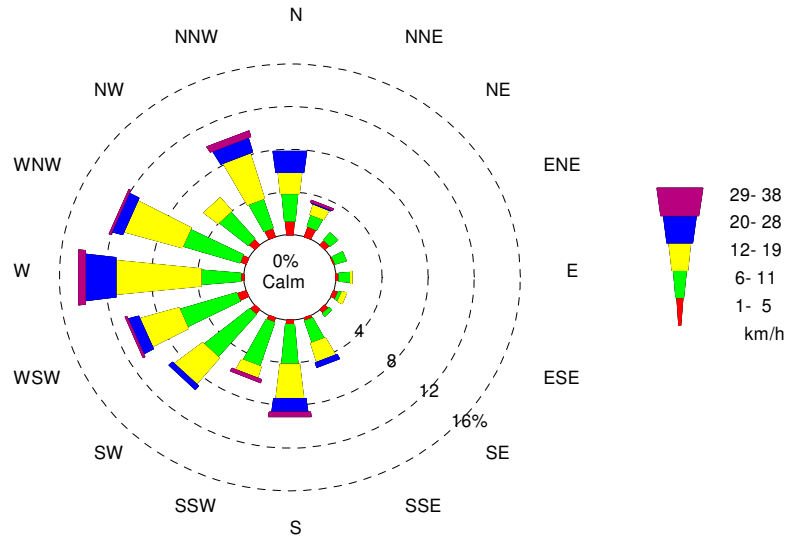
FEB 2008

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	9	7	4	1	2	3	3	2	3	3	4	6	2	4	5	6	64	9
6- 11	18	8	6	7	7	2	2	15	26	30	36	36	24	36	23	20	296	43
12- 19	14	7	0	0	1	3	0	13	23	8	22	25	52	37	11	31	247	35
20- 28	14	1	0	0	0	0	0	3	9	0	3	7	19	7	0	10	73	10
29- 38	0	1	0	0	0	0	0	0	3	2	0	1	4	1	0	4	16	2
TOTAL	55	24	10	8	10	8	5	33	64	43	65	75	101	85	39	71	696	100
PERCENT	8	3	1	1	1	1	1	5	9	6	9	11	15	12	6	10		
AVERAGE	13	10	6	8	9	9	6	12	14	11	11	12	16	12	10	15	13	

13 MAR 2008 1633

Wind rose for FEB 2008
Stoney Trail

Bar length is proportional to frequency of winds from its direction



TRAILER TEMPERATURE
Lafarge Canada Inc.
Stoney Trail
STATION 620
FEB 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	-23	-23	-22	-21	-21	-20	-21	-22	-23	-23	-18	-14	-11	-5	-2	-1	-3	-6	-9	-11	-12	-13	-14	-14	-15
2	-14	-14	-16	-16	-15	-14	-13	-13	-12	-11	-9	-6	-3	-1	-1	-1	-3	-6	-9	-10	-12	-12	-13	-14	-10
3	-16	-16	-17	-16	-16	-16	-15	-15	-15	-13	-10	-9	-7	-7	-7	-8	-9	-11	-12	-12	-13	-13	-14	-14	-12
4	-16	-17	-19	-20	-20	-21	-21	-22	-22	-19	-16	-12	-10	-8	-9	-9	-9	-9	-11	-12	-11	-10	-10	-9	14
5	-10	-10	-10	-10	-10	-9	-9	-10	-9	-6	-4	-1	0	0	0	1	1	0	-2	-3	-4	-5	-4	-5	
6	-4	-5	-5	-4	-3	-3	-3	-4	-4	-3	-2	1	2	2	2	2	1	-2	-4	-5	-6	-6	-7	-3	
7	-7	-6	-7	-7	-7	-7	-7	-7	-7	-6	-3	-1	2	3	5	6	5	2	-1	-3	-4	-3	-4	-5	3
8	-6	-7	-7	-6	-6	-6	-11	-15	-16	-17	-17	-18	-17	-17	-17	-18	-19	-20	-21	-22	-22	-23	-24	16	
9	-26	-27	-28	-29	-29	-30	-31	-31	-29	-27	-22	-18	-16	-16	-16	-17	-18	-20	-22	-23	-23	-24	-24	-24	-24
10	-24	-24	-23	-23	-23	-23	-23	-23	-23	-21	-18	-15	-11	-9	-5	-3	-2	-5	-9	-12	-13	-13	-14	-12	15
11	-10	-9	-8	-8	-8	-8	-9	-8	-8	-5	-2	0	2	3	4	3	2	1	1	0	0	0	1	1	3
12	1	0	1	1	0	-1	-2	-3	-3	0	2	3	4	5	5	4	3	2	0	0	1	1	2	2	1
13	1	1	1	1	1	1	1	1	1	1	1	3	4	5	5	4	3	0	0	-1	-1	-2	-2	-3	1
14	-4	-5	-5	-6	-6	-5	-4	-3	-2	0	1	3	5	7	7	6	5	4	2	0	0	0	0	1	0
15	1	1	1	1	2	3	3	4	5	6	7	10	12	13	14	13	12	9	7	6	5	4	4	3	6
16	2	0	1	0	-1	-2	-2	-2	-1	1	2	0	1	0	1	0	1	1	0	-1	-2	-3	-3	-3	0
17	-3	-4	-4	-4	-5	-5	-7	-7	-7	-4	0	1	0	1	3	4	4	2	0	-1	-2	-3	-2	-2	-2
18	-1	-1	-1	-1	0	0	0	-1	0	2	4	7	9	11	13	14	13	10	5	2	0	0	1	1	4
19	1	2	2	2	2	2	1	0	1	3	5	8	10	12	12	12	9	6	2	0	0	-1	-1	-1	4
20	0	0	1	1	1	1	0	0	1	1	4	8	11	14	15	15	13	9	5	2	0	0	0	-1	4
21	-1	-2	-1	-1	0	1	1	1	1	3	6	9	13	15	16	16	14	12	7	4	2	0	0	5	
22	-1	-2	-1	-1	0	1	0	0	1	3	6	9	11	13	14	14	12	9	4	1	0	-1	-2	4	
23	-3	-3	-2	-2	-2	-2	-2	-2	0	2	3	6	8	10	10	9	8	5	3	1	1	1	1	0	2
24	-1	-2	-2	-2	-2	-2	-2	-3	-2	-1	0	1	3	4	4	3	1	0	1	1	1	1	0	0	0
25	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	1	1	3	5	7	7	6	4	1	0	0	0	0	1	
26	1	1	0	0	1	1	1	1	1	2	5	8	10	12	12	12	11	9	5	3	1	1	1	4	
27	1	1	0	0	1	2	3	4	4	6	8	10	12	14	14	12	12	11	9	6	5	4	3	6	
28	1	0	1	0	0	1	1	1	1	1	1	2	3	5	7	8	7	5	2	0	0	-1	-2	2	2
29	-2	-1	-1	0	0	1	1	1	1	2	3	5	7	9	12	13	13	13	10	6	4	2	0	4	
AVG	-6	6	-6	-6	-6	-6	-6	-6	-6	-4	-2	0	2	3	4	4	3	1	-1	-3	-4	-4	-4	-4	
MAX	2	2	2	2	2	3	3	4	5	6	8	10	13	15	16	16	14	13	10	6	5	4	4	3	
MIN	-26	-27	-28	-29	-29	-30	-31	-31	-29	-27	-22	-18	-17	-17	-17	-18	-19	-20	-22	-23	-23	-24	-24	-24	

Percent of time operational: 100
 Monthly Average: -3 Monthly Maximum: 16 Monthly Minimum: -31

M - missing data