



October 10, 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 September 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 twelve 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".

Dr. William (Bill) Murray
President

WM/kt
Enc.

PROMET

MONTHLY REPORT SUMMARY

Stoney Trail #1

Lafarge Canada Inc.

Name/Location

Company

September 2008

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	100%	46	56 dB A	12
PM2.5	100%	7	9	0
TSP	100%	27	45	0
Wind	100%	11 km/h	25 km/h	-
Precipitation	100%	-	3	-
Trailer Temperature	100%	12	29	-

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

COMMENTS:

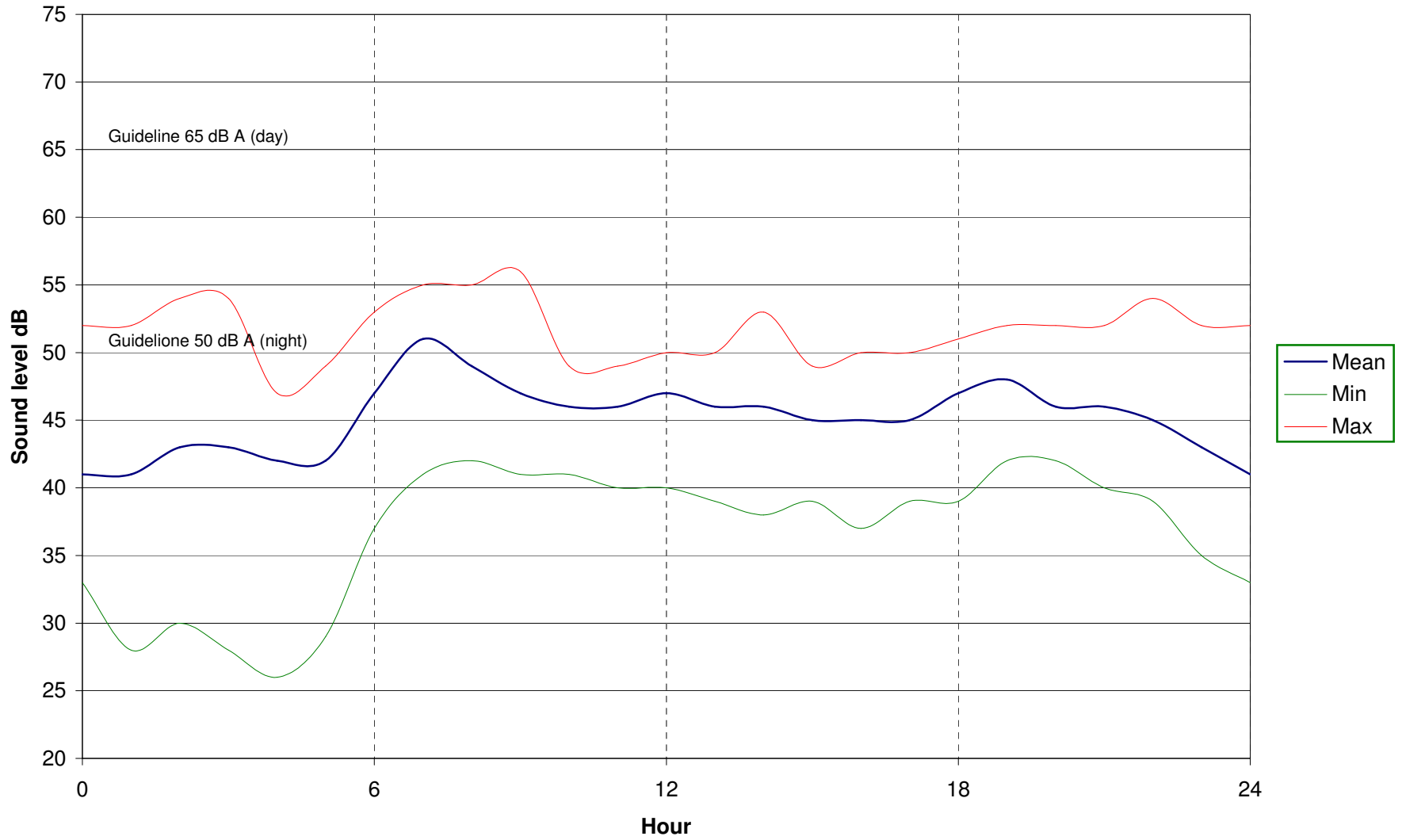
The regulation for residential areas is 65 dB A for day time or 50 dB A for night-time. Sound Level must exceed 5 dB A Leq over the Ambient Sound Level before it becomes an offence.

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



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

Date	Hour Ending MST	Sound Level dB A	Sound Limit dB A	Wind Direction	Wind Speed km/h	Pcpn mm	Temp C
5	600	53	50	NW	4	0	3
18	2400	52	50	NNW	8	0	14
19	100	52	50	N	8	0	13
19	200	54	50	N	8	0	12
19	300	53	50	N	7	0	11
19	600	51	50	N	4	0	8
25	600	51	50	WNW	6	0	4
25	2300	52	50	N	6	0	5
25	2400	51	50	NNW	6	0	5
28	300	54	50	NNW	5	0	3
28	600	52	50	S	4	0	0
28	700	51	50	SW	9	0	1

12 EXCEEDANCES SEP 2008

SOUND LEVEL [dBA] Leq 1 hour

Lafarge Canada Inc.

Stoney Trail

STATION 620

SEP 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	28	31	28	26	29	38	51	49	43	47	46	48	48	45	46	37	41	42		44			35	36	43	
2	32	36	41	43	44							C	46		44	43	42	43	44	43	42	41	40	36	42	
3	36	30	34	41	39					47	49	49							50	50	49	47	45	41	45	
4	41	41	42	45	44	47	52	51	46	47	48	48	47	46	47	46	46	49	50	44	47	47	39	37	46	
5	34	35	38	41	39	53	49	50	47	49	48	49				48	47	49	49	46	45	47		47		
6		40	39	47	37	45	47	45	56	47	47	50	50	53	47	46		49	49	44	45	45	45	40	47	
7	47	48	47	36	33	37	41	42	47	47	47	44	49	52	46	48	45	48	47	49	48	46	40	38	46	
8	33		34	37			50	50	47	41	40		43	42	41	41	42	41	45	45	43	42	41	37	43	
9	41	33	37	40					54										48	42	49				45	
10						45	55	51	44	46	48	48	46	45	47	43									48	
11											45	40				42	42				46	44		39	43	
12	31	44	41		41				48							47	50	50							46	
13				46	49	44	51	48	47	45	44				42	44	39	39	42			48		39	45	
14								44	44	46	48	45	39	38	39	39			42	42	41	40	40	41	42	
15												47	45	42	45	45	44				40	41	46		44	
16			37	41	43														49	52	51	51	50	47	46	48
17	42	44	44	38	43	48	50	50	48	46				41	41	45	43			43	41				45	
18									46	47	48	46	46	48	49	50	49	51	49	43	42	39	46	52	47	
19	52	54	53	44	42	51	54	55	47	46	45								50						50	
20	41		41	38	45			51						39	39										43	
21	39	39	44	47	43	46	49	48	41	42	43	44	46	45											44	
22							47						49	46	45		44		46	50	49			46	37	46
23	46	42	46		40	47	54	50	46	47									49	44	44	39	36	33	46	
24	29	31	35	34	41	45	55	51	47										43	44	44	47	45	38	36	44
25	35	32	33	32	40	51	49	49	47		49	50						49	47	47	50	52	54	52	51	48
26	49	49	38	45	46	48	51	51	46	44	43														38	47
27	39	36	37	39	39	46	51	49	43	42																45
28	37	48	54	46	43	52	51	44	43					43	42	42		43				40		34	46	
29	35										48	43	44											44	38	43
30					44	49			49	46	40	43	45										42	39	45	
AVG	41	43	43	42	42	47	51	49	47	46	46	47	46	46	45	45	45	47	48	46	46	45	43	41		
MAX	52	54	54	47	49	53	55	55	56	49	49	50	50	53	49	50	50	51	52	52	52	54	52	52		
MIN	28	30	28	26	29	37	41	42	41	41	40	40	39	38	39	37	39	39	42	42	40	39	35	33		

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

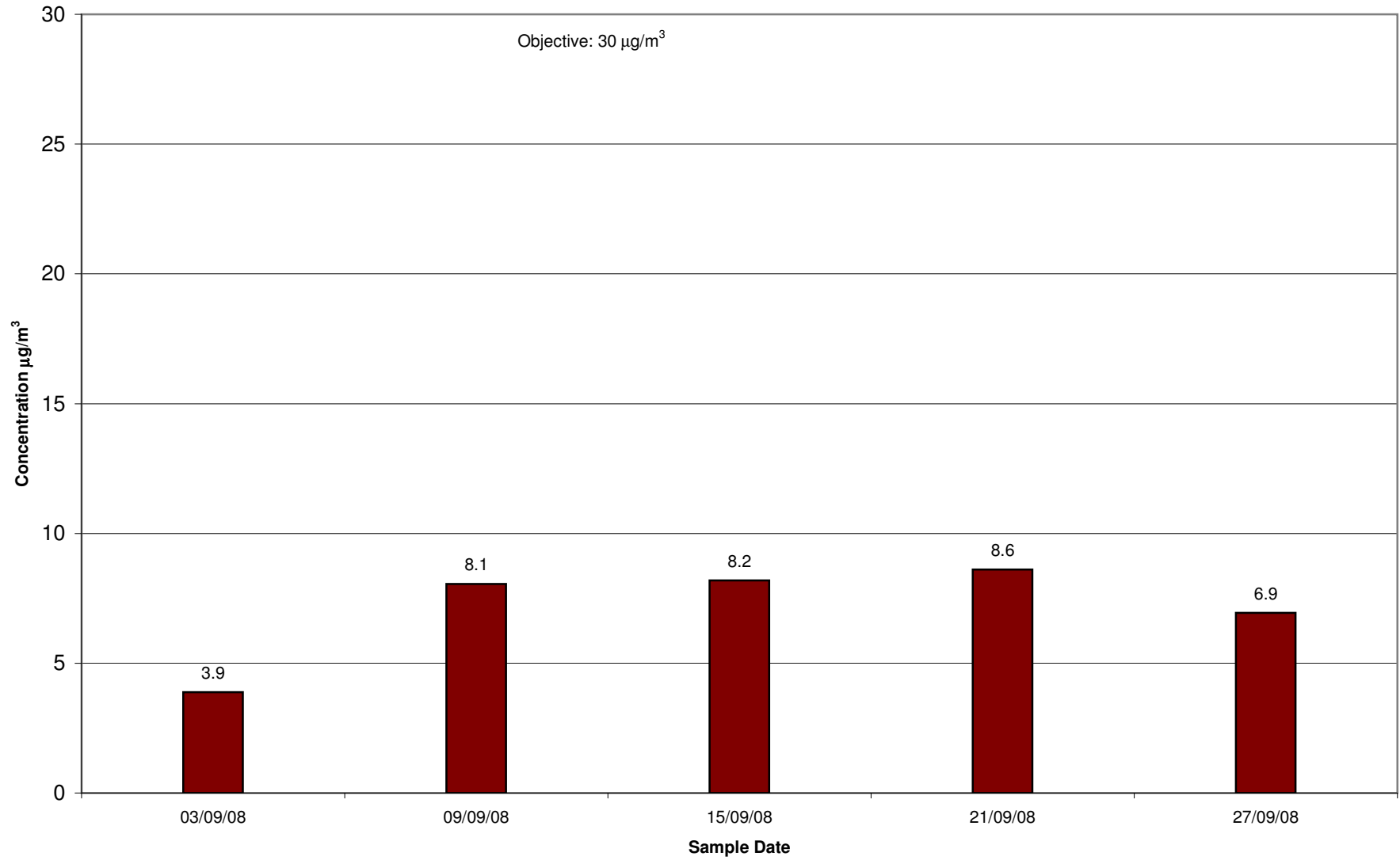
Percent of time operational: 100 M - missing data C - Calibration

Monthly Average: 46 Monthly Maximum: 56 Monthly Minimum: 26

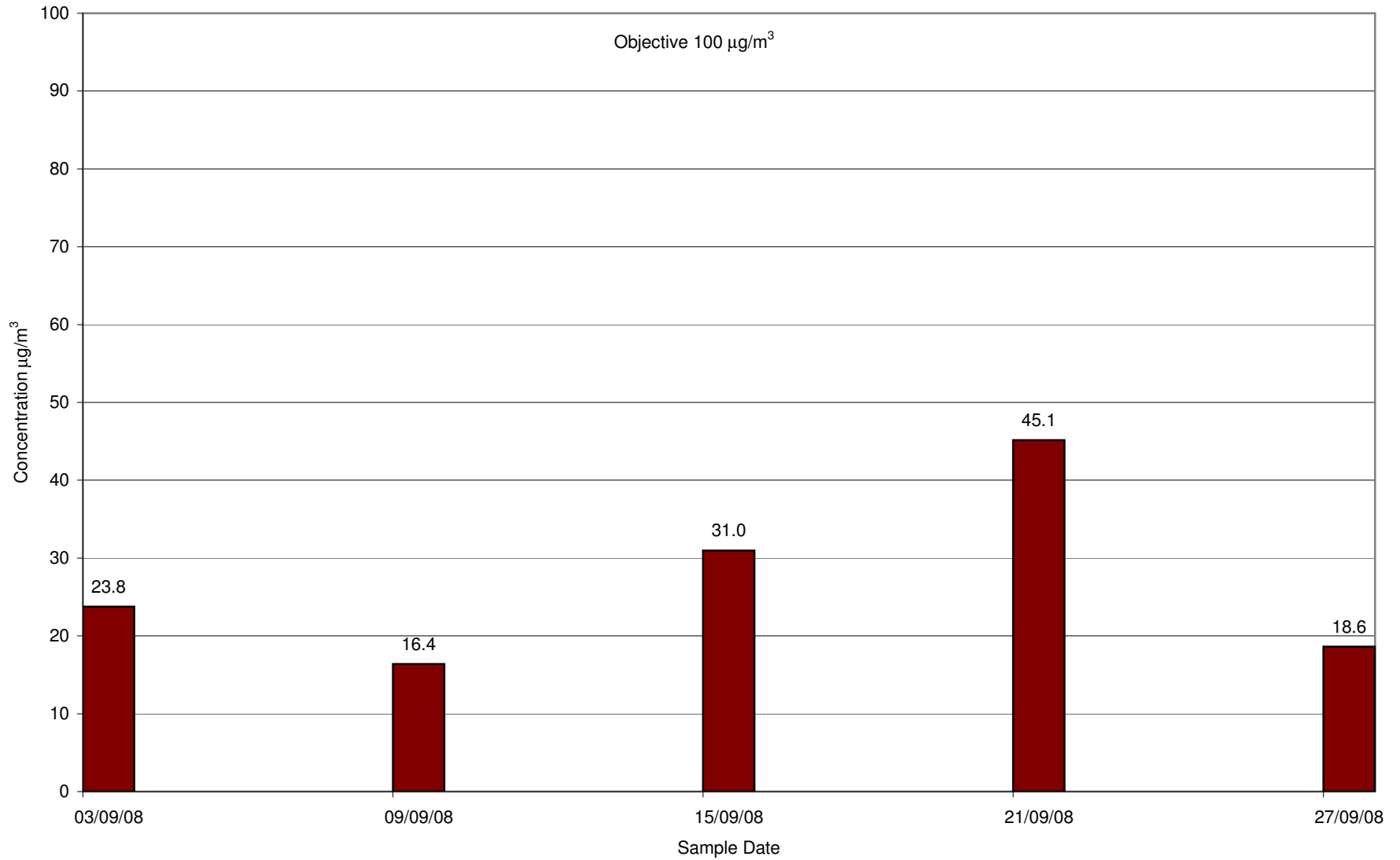
*** 12 Exceedances of Guideline***

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PM2.5 at Lafarge Stoney Trail #1 September 2008



TSP at Lafarge Stoney Trail #1, September 2008



ABSTRACT OF THE WIND
Lafarge Canada Inc.
Stoney Trail
STATION 620
SEP 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	NW	NW	NW	NW	NW	WNW	NW	N	SE	SE	SSW	SW	SSW	E	ESE	E	ESE	SSE	SSE	S	S	S	SSW	SSW	7	13	NW	0								
2	SW	WSW	W	WSW	W	W	W	W	W	W	WNW	W	SW	SW	W	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	10	16	W	0								
3	WSW	W	W	W	NW	NNW	NW	NNW	WNW	WSW	WSW	NNW	N	N	NNW	NNW	NW	WNW	W	WNW	W	WNW	WNW	13	25	SVL	0									
4	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	NW	N	N	NNW	N	NE	N	CLM	SE	ESE	SE	SE	SSE	7	11	WNW	0									
5	S	SW	WNW	W	WNW	NW	NNW	NNW	NNW	N	NNE	NE	NE	NE	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	9	13	NNW	0									
6	NW	NNW	NNW	NW	NW	WNW	WNW	WNW	NW	NW	N	NNE	NNE	NE	N	NW	N	N	N	W	W	W	WNW	7	15	NW	0									
7	N	N	NW	WNW	W	NW	WNW	WNW	NNW	NNW	NNW	W	NNW	NNE	WSW	NNW	NNW	WSW	WSW	WSW	WSW	WSW	WSW	6	11	WSW	0									
8	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SW	SSW	SSW	SSW	S	SSE	S	SW	SW	SW	9	13	WSW	0									
9	WSW	WSW	W	NW	NW	NNW	NNW	NNE	NE	NNE	NNW	N	N	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	13	20	NNW	0										
10	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	W	WSW	SSW	SW	SSW	S	SSE	S	S	S	SSW	WSW	WSW	12	18	NW	0									
11	W	W	W	W	W	W	W	W	W	W	WSW	SW	SW	SSW	S	S	S	S	SSW	SW	SW	WSW	WSW	13	16	W	0									
12	WSW	SW	SW	WSW	WSW	N	NNE	N	N	N	NNE	NNE	N	N	N	NW	NW	NW	WNW	WNW	WNW	NW	NW	13	20	N	0									
13	NW	NW	NW	WNW	WNW	W	W	WSW	WSW	SSW	S	SSW	S	SSW	SSW	S	S	S	S	S	S	SSW	SW	11	19	S	0									
14	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WSW	W	WSW	S	SSW	S	SSE	S	S	S	SSW	SSW	WSW	W	9	14	WNW	0									
15	WNW	WNW	WNW	W	W	W	W	WNW	WNW	WNW	NW	N	NE	ESE	SE	SSE	SSE	S	SSW	SSW	SSW	WNW	WNW	12	18	WNW	0									
16	WNW	W	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	NNE	NE	SE	ESE	12	17	WNW	0										
17	SE	SSE	S	S	SSW	SW	WSW	WSW	WSW	SW	SW	SSW	S	S	SSE	S	SSW	SSW	SSW	WSW	W	W	W	10	14	SVL	0									
18	W	W	W	W	W	W	W	WSW	WSW	W	WNW	W	WSW	SW	SW	SSW	SSW	SSW	SW	WSW	WSW	W	NNW	11	15	W	0									
19	N	N	N	N	NNW	N	WSW	SW	S	NE	E	ESE	E	ESE	E	ESE	ESE	ESE	SE	SE	SE	SE	SSE	11	18	ESE	0									
20	SSE	SSE	SSE	S	S	SW	WSW	WSW	SW	SW	SSW	SSW	S	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	S	12	15	SSE	0									
21	S	SSE	SSW	NW	WNW	ENE	SSE	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	12	23	NNW	0									
22	NNW	NW	NW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	W	W	WSW	W	WSW	W	WSW	WSW	W	WSW	W	13	19	NNW	0									
23	NW	NW	WNW	WNW	WNW	W	W	WSW	WSW	WSW	SW	W	WSW	W	W	WSW	W	WSW	WSW	W	W	WSW	W	13	21	W	0									
24	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	S	S	S	SSW	S	SSW	SSW	11	16	SVL	0									
25	W	W	WNW	WNW	WNW	W	W	WSW	W	NNE	NE	ENE	ENE	ENE	NE	NE	ESE	ENE	N	N	N	NNW	10	17	W	0										
26	W	NNW	NNE	NE	SW	WSW	SW	SW	SW	S	SSE	SE	SSE	SSE	SSE	SSE	SE	SSE	SSE	S	S	SSW	11	20	SSE	0										
27	WSW	WSW	WSW	SW	SSW	WSW	WSW	SW	SW	WSW	W	W	WNW	N	N	NNE	N	NNW	WNW	WSW	SW	SW	12	24	WSW	0										
28	SW	N	NNW	N	SSE	S	SW	SW	S	SSE	SSE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	S	S	SSW	SW	10	16	SSE	0									
29	WSW	W	W	W	W	W	W	W	W	WSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	WSW	13	17	W	0										
30	W	W	W	W	W	W	W	WNW	WNW	WSW	SSE	E	ESE	ESE	SE	SSE	SSE	SE	SSE	S	S	SSE	SW	13	16	W	0									
MEAN	13	13	12	12	10	8	13	13	7	5	6	7	10	12	14	15	15	13	12	14	16	16	11	8	11	16										
SPEED	11	10	10	10	10	10	10	10	10	10	11	11	11	12	12	13	11	10	11	11	11	11	11	11	11	25	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 %

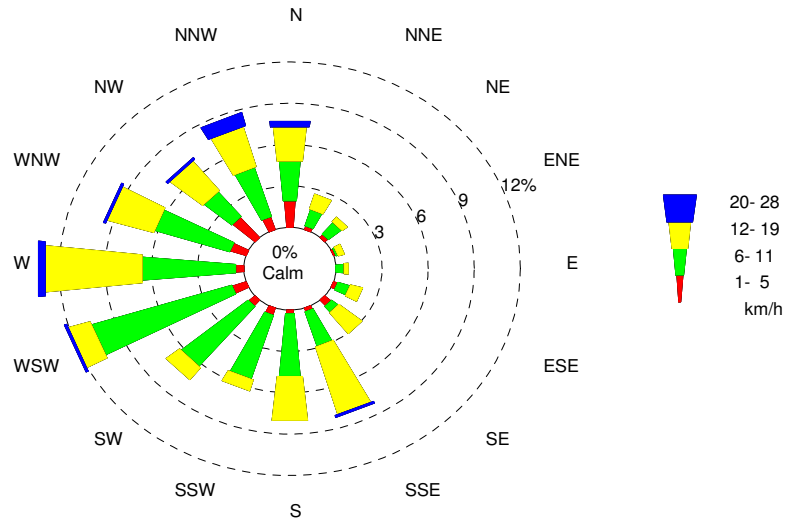
FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION
 Lafarge Canada Inc.
 Stoney Trail
 STATION 620
 SEP 2008

SPEED [km/h]	WIND DIRECTION														TOTAL	PCT			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW			NW	NNW	
< .5																		1	0
1 - 5	14	2	2	1	0	2	4	2	2	4	4	7	4	8	14	7	77	11	
6 - 11	21	9	8	1	4	6	4	19	33	35	41	69	44	37	17	27	375	52	
12 - 19	18	8	3	3	2	6	14	37	23	6	8	11	46	23	20	22	250	35	
20 - 28	3	0	0	0	0	0	0	1	0	0	0	1	3	1	1	7	17	2	
TOTAL	56	19	13	5	6	14	22	59	58	45	53	88	97	69	52	63	720	100	
PERCENT	8	3	2	1	1	2	3	8	8	6	7	12	13	10	7	9			
AVERAGE	10	11	9	12	11	11	11	13	11	9	9	10	12	10	11	12	11		

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Wind rose for SEP 2008
Stoney Trail

Bar length is proportional to frequency of winds from its direction



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

Percent of time operational: 100
 Monthly Average: 12 Monthly Maximum: 29 M - missing data
 Monthly Minimum: 0