

PROMET

November 19th, 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 October 1 - 31, 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 four 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 #1

Lafarge Canada Inc.

Name/Location

Company

October 2008

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	100%	45	66 dB A	4
PM2.5	100%	7	10	0
TSP	100%	24	36	0
Wind	100%	13 km/h	36 km/h	-
Precipitation	100%	-	1	-
Trailer Temperature	100%	7	30	-

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 [dBA] Leq 1 hour

Lafarge Canada Inc.

Stoney Trail

STATION 620

OCT 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	41										43	42	42	39	C	42	47	54	54	42	41	39	41	41	45		
2	39										51	43	43	40	43	46	47	44							37	44	
3	34	34	33	34	37					47	49	48	45	46	49	47		46	49	41	42	39	37	39	44		
4	40	35	32	40	39	45	56	55	49	49						48	43	40		52		36	38	39	46		
5	38	39	33	30	54	39	39												48						46	45	44
6	48	46	48	35	39	42	48	46	44									47	47	44	47	43	38	35	45		
7	36	38						48	50	41																45	
8												45					52	48	50	47	46	46	42	32	47		
9	37	33	39	39	41	44	54	48	42	37	37	66	41	38	39	39	45	53	55	51	39	50	43	44	48		
10	42	42	43	50	43		52												47	44	47	43	42	46	46		
11	45	41	35	30	34	34	41	44	44																	40	
12				34	34	36	39	41	39					45	47	47	47	50	49	48	47	46	43	36	44		
13	35	31	31	33	37	39	49	49											50	44	44	44	40	42	43		
14	38	38								47	48	42	49	50	47	46	50	48	45	46	48	50	36	43	46		
15	34	39	47	38	38	50	58	47	47	45	45						45	43	41	40	41	40	35		45		
16				51	38	41	49														48	41	39	37	36	44	
17	36	33	42							44	44								49	46	46		39	40	43		
18	51							45	52	46	50	48	46	49	45	47	45	50	49	46	48	45		33	47		
19	32	34	40	37	32	35	42	43	47	43																40	
20									52	49		46	41	37	43											46	
21				56	41	43	53	48																		50	
22			41	36			45	48										44	43	43	41	42	43	34		42	
23		40				47					46															45	
24			36	30	37																	46	45	39	39	40	
25			34																44	45						42	
26						33	40	46	43	43																42	
27											44								41							42	
28					48	53							48		43	45	46	47								46	
29		37	30	35			49		51	52		39	40	44	47	41										45	
30			44	52	41	45	55	50	51										44	48			43			48	
31	43			49		46	47	47	47	46	45	46	44	45	42	45	46	48		42	44	40				45	
AVG	41	38	40	44	41	43	50	48	48	46	46	52	45	44	45	45	47	48	49	46	45	44	40	40			
MAX	51	46	48	56	54	50	58	55	52	52	51	66	49	50	49	48	52	54	55	52	48	50	46	46			
MIN	32	31	30	30	32	33	39	41	39	37	37	39	40	37	39	39	43	40	41	40	39	36	34	32			

*** 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: 66 Monthly Minimum: 30

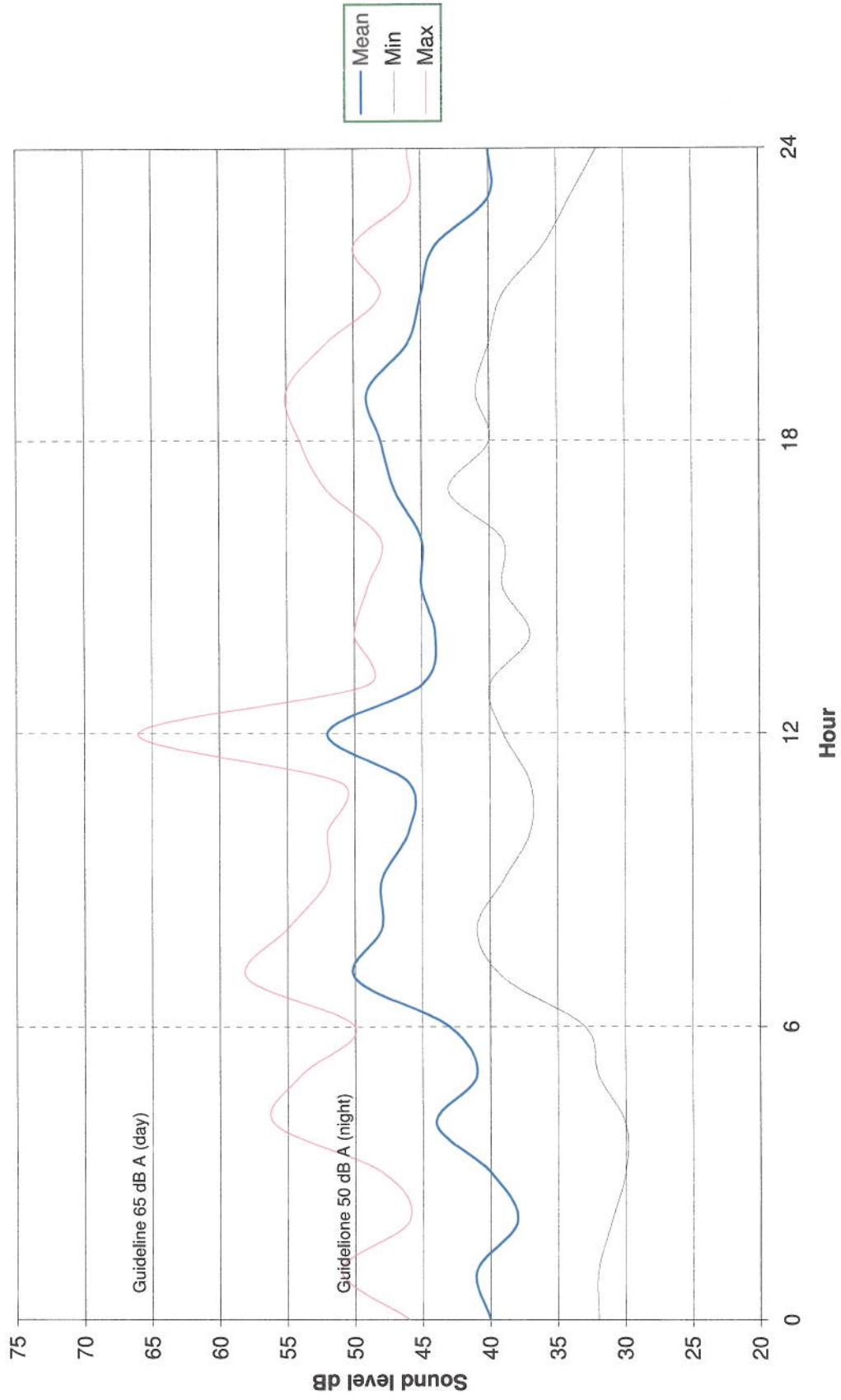
*** 4 Exceedances of Guideline***

14 NOV 2008 1427

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

Date	Hour Ending MST	Sound Level dB A	Sound Limit dB A	Wind Direction	Wind Speed km/h	Pcpn mm	Temp C
4	700	56	55	SW	10	0	4
9	1200	66	55	W	5	0	9
15	700	58	55	W	4	0	-3
21	400	56	55	NW	11	0	3
4 EXCEEDANCES OCT 2008							

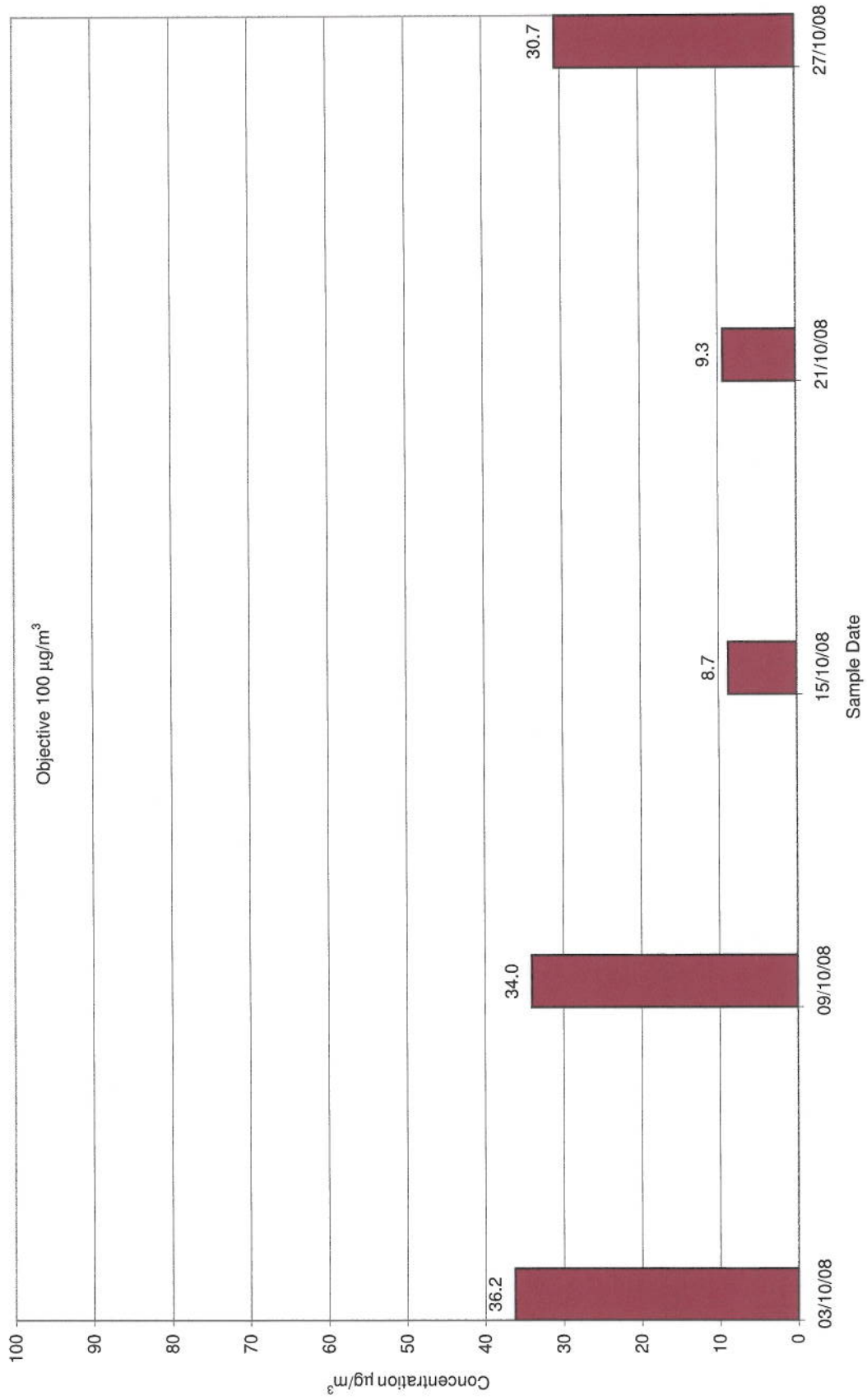
Sound Level by Hour of the Day



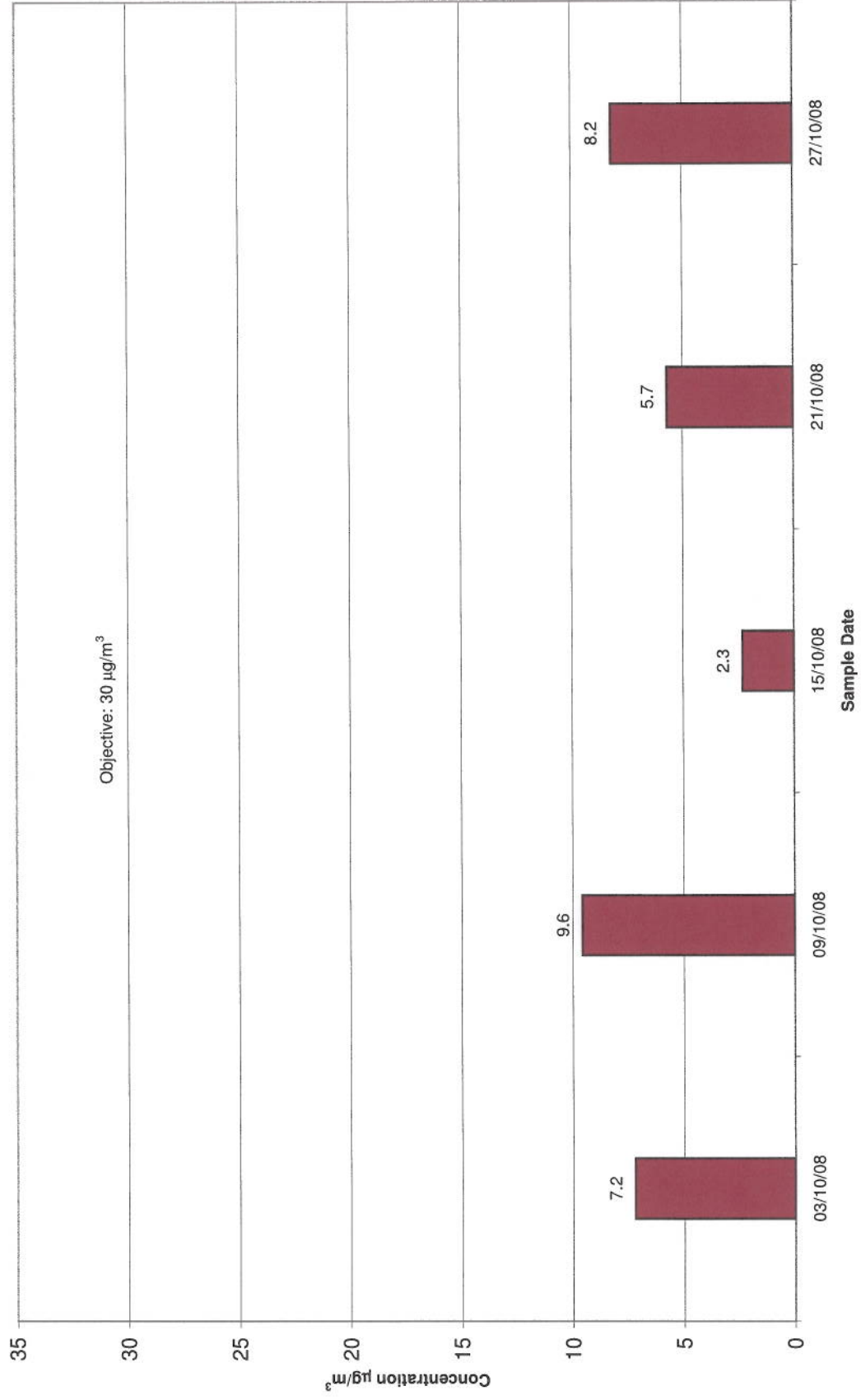
Stoney Trail #1

October 2008

TSP at Lafarge Stoney Trail #1, October 2008



PM2.5 at Lafarge Stoney Trail #1 October 2008



ABSTRACT OF THE WIND
 Lafarge Canada Inc.
 Stoney Trail
 STATION 620
 OCT 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	W	W	W	WNW	WNW	W	WNW	WNW	WNW	NW	WNW	W	WSW	N	ENE	E	ESE	SE	SSE	SSW	SSW	SW	WSW	11	17	SVL	0	
2	W	WNW	W	W	WNW	WNW	W	W	W	W	W	SW	S	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSW	11	16	W	0	
3	SW	WSW	WSW	WSW	WSW	W	W	W	NW	NNW	NNE	N	NW	WNW	S	SSE	SE	SE	SE	SSE	SW	SW	SW	SW	10	15	SW	0	
4	WSW	ENE	ESE	WSW	W	SW	SW	WSW	SW	S	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SE	SSE	S	SSW	SW	SW	10	18	SSE	0	
5	WSW	WSW	WSW	SW	SW	WSW	SW	W	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	W	WNW	NNW	NNE	16	31	W	0	
6	NNW	NW	NW	WNW	W	WSW	SSW	SSW	S	SW	WSW	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW	SW	WSW	S	SSW	9	19	WSW	0	
7	SSW	SSE	S	S	SSE	SSE	SSE	S	N	SW	W	W	WSW	W	W	W	W	WNW	WNW	W	W	W	W	W	18	36	W	0	
8	W	W	W	W	W	W	W	W	W	W	W	W	W	WNW	WNW	WSW	NNE	NNE	NNE	N	NNW	NW	WNW	WNW	14	23	W	0	
9	NW	NNW	NNW	NNW	NNW	NW	W	W	W	NNW	NW	W	N	NW	NNW	NNE	NNE	NE	NNE	NNW	NNW	NW	NW	7	11	NNW	0		
10	NNW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	NNW	NNW	N	N	NW	W	13	22	N	0	
11	W	W	W	SE	S	SSW	SW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSW	13	23	SSE	0	
12	SSW	SSW	SSW	SW	SW	WSW	WSW	W	WSW	W	NW	NNW	NNW	WNW	WSW	W	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	10	17	WNW	0	
13	WNW	WNW	WNW	W	W	WSW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	NW	N	NNW	N	SE	NNE	N	N	12	26	WSW	0		
14	N	NE	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	ENE	E	ENE	ENE	ENE	E	S	ESE	CLM	S	10	24	NNW	0		
15	S	SSW	SW	WSW	SSW	NW	W	SSW	SSW	SW	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	WSW	W	W	9	18	SSE	0	
16	W	W	WNW	NW	NW	NW	NNW	NNW	W	W	W	W	W	WSW	WSW	WSW	WSW	W	WSW	SW	WSW	SW	SW	14	22	W	0		
17	SW	SW	SSW	SW	W	W	W	W	SW	WSW	SSW	SW	WSW	WSW	W	W	WNW	W	WNW	NW	NW	WNW	WNW	W	14	29	W	0	
18	N	N	N	N	N	N	N	NNW	N	NNW	NNE	NNE	NE	ENE	ENE	S	NNW	NNW	NW	W	NW	NNW	NNE	8	17	N	0		
19	N	NNW	W	W	NW	NW	W	CLM	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSE	S	13	25	SSE	0		
20	S	S	SSW	SSW	SW	SW	SSW	SW	SW	WSW	SW	SW	S	E	NW	NNW	NNW	W	W	W	WSW	WSW	W	W	14	27	SW	0	
21	NW	NNW	NNW	NW	NW	NW	WNW	W	WSW	W	WNW	NW	W	WNW	W	W	W	W	W	W	W	W	W	W	13	26	W	0	
22	W	W	WSW	SW	SSW	S	SSW	SW	SW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WNW	SSW	W	WSW	WSW	SSE	13	27	WSW	0		
23	SSE	S	SW	WSW	WSW	WNW	WNW	N	N	N	N	S	S	S	WSW	WSW	W	WSW	WSW	SW	WSW	W	W	16	24	WSW	0		
24	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	W	W	W	18	36	W	0		
25	W	W	W	W	WNW	NW	W	W	W	W	W	W	W	NNW	N	N	N	N	N	N	N	N	NNW	19	34	W	0		
26	NNW	NNW	NNW	NW	NW	NW	NNW	NW	SSW	S	S	S	S	SSE	S	SSE	SSE	SSE	S	S	S	S	SSW	SW	15	23	S	0	
27	WSW	WSW	W	WSW	WSW	W	W	WSW	WSW	WSW	SW	WSW	W	NNW	W	W	W	W	W	W	W	W	W	W	14	19	W	0	
28	W	W	W	W	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W	NNW	W	NNW	W	SW	SSW	W	W	W	W	W	12	18	W	0	
29	MNW	MNW	W	SW	SSW	SSW	SW	E	SSE	S	S	S	SSE	SW	SW	W	NNW	NNW	W	W	W	N	N	13	26	W	0		
30	N	N	N	WNW	WSW	WSW	W	WSW	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	S	S	12	20	SSE	0		
31	S	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	S	SE	SE	S	SW	WSW	WSW	W	10	14	WSW	0		
MEAN	11	11	11	11	11	11	11	11	11	11	12	13	15	16	17	17	16	14	13	12	12	12	11	12	12	13	36	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

OCT 2008

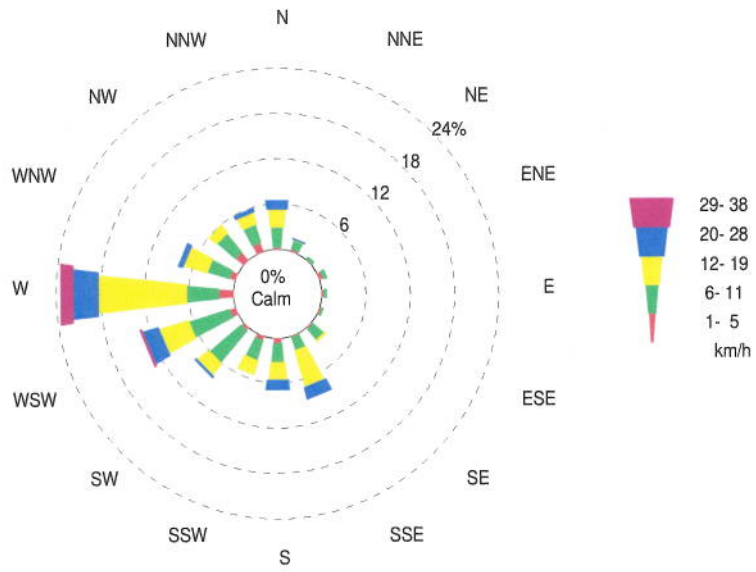
SPEED [km/h]	WIND DIRECTION																TOTAL	PCT
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
< .5																	2	0
1- 5	2	2	1	4	2	2	2	1	5	4	3	6	14	6	10	9	73	10
6- 11	20	9	3	4	3	2	14	14	19	21	42	43	33	23	24	19	293	39
12- 19	18	1	0	0	0	0	2	38	18	15	15	31	90	25	10	12	275	37
20- 28	9	1	0	0	0	0	0	12	10	0	2	17	26	5	0	4	86	12
29- 38	0	0	0	0	0	0	0	0	0	0	0	2	13	0	0	0	15	2
TOTAL	49	13	4	8	5	4	18	65	52	40	62	99	176	59	44	44	744	100
PERCENT	7	2	1	1	1	1	2	9	7	5	8	13	24	8	6	6		
AVERAGE	13	10	7	6	6	5	9	15	13	10	11	14	16	12	9	11	13	

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Wind rose for OCT 2008

Stoney Trail

Bar length is proportional to frequency of winds from its direction



PRECIPITATION [mm]
 Lafarge Canada Inc.
 Stoney Trail
 STATION 620
 OCT 2008

Day	Hour																								Tot	
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of time operational: 100 M - missing data
 Monthly Total: 4 Maximum in an hour: 1
 Year to Date: 173

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

Percent of time operational: 100 M - missing data
 Monthly Average: 7 Monthly Maximum: 30 Monthly Minimum: -6