



August 8, 2007

Mr. Mike McLaws  
Lafarge Canada Inc.  
10511, 15<sup>th</sup> St. S.E.  
Calgary, Alberta  
T2H 2H5

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

Dear Sir;

Attached are results of the monitoring for the period July 1 – 31, 2007 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 no exceedances of the city of Calgary noise bylaw.

There were no exceedances of the Alberta Air Quality Objectives for TSP. There were no Exceedances of the Canada Wide Standard for 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

Lafarge Canada Inc.

**Name/Location**

**Company**

July 2007

**Monitoring Period**

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	100%	41	52 dB A	0
PM2.5	100%	12	16	0
TSP	100%	68	96	0
Wind	100%	12 km/h	34 km/h	-
Precipitation	100%	0	3	-
Trailer Temperature	100%	22	36	-

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

### COMMENTS:

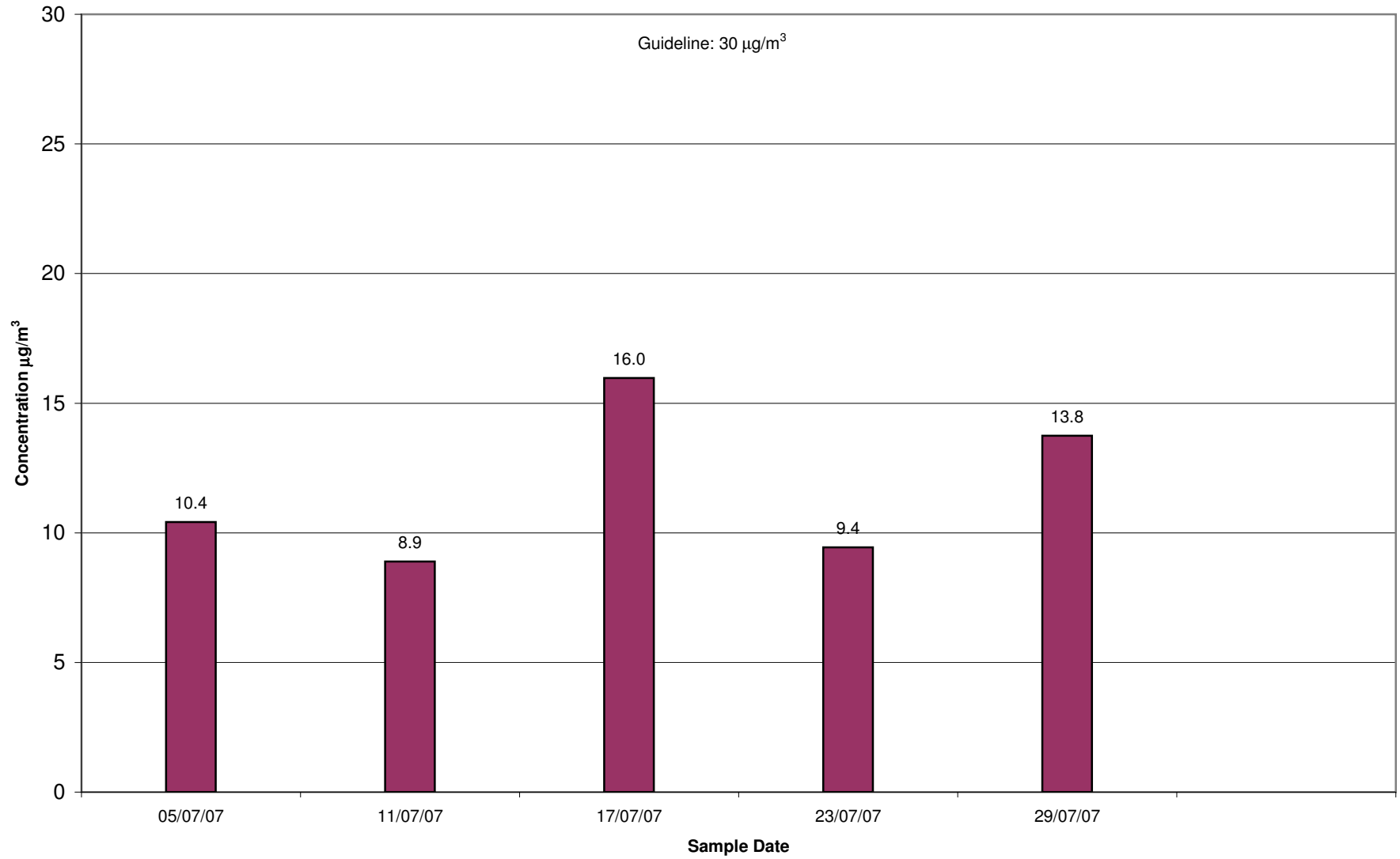
The noise regulation is 85 dB A . However, the reading is not an exceedance if it is less than 5 dB above the ambient noise level.

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

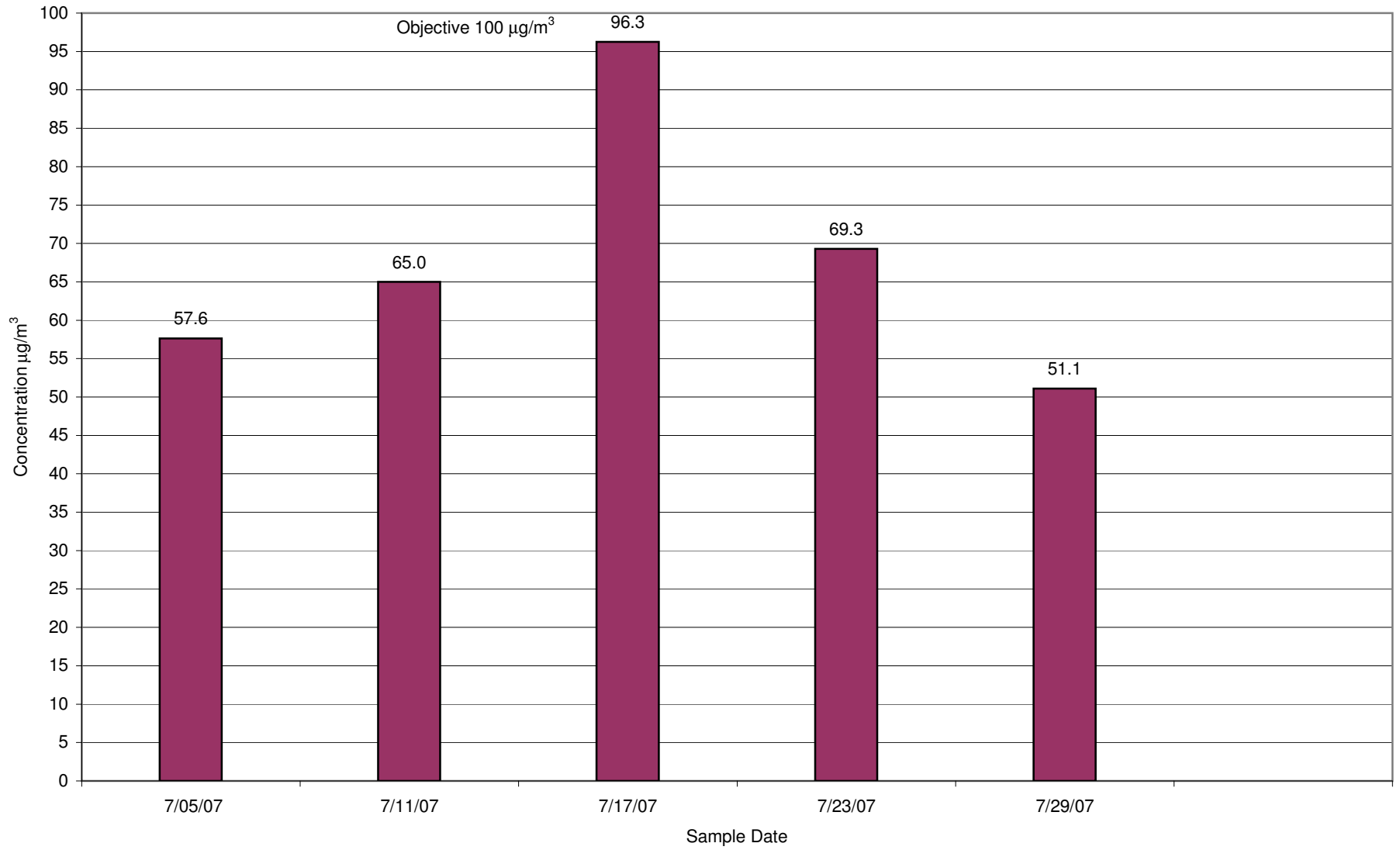
The TSP Objective is 100  $\mu\text{g}/\text{m}^3$  for the day.

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

PM2.5 at Lafarge Stoney Trail July2007



TSP at Lafarge Stoney Trail, June 2007



## SOUND LEVEL [dBA] Leq 1 hour

Lafarge Canada Inc.

Stoney Trail

STATION 620

JUL 2007

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

\*\*\* SOUND DATA REPORTED ONLY FOR WIND SPEED &lt; 11.5 KM/H \*\*\*

Percent of time operational: 100

M - missing data C - Calibration

Monthly Average: 41 Monthly Maximum: 52 Monthly Minimum: 24

\*\*\* 0 Exceedances of Guideline\*\*\*



FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
 Lafarge Canada Inc.  
 Stoney Trail  
 STATION 620  
 JUL 2007

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	6	6	6	0	1	5	1	2	2	2	2	7	9	10	2	7	68	9
6- 11	19	23	20	15	14	14	9	20	20	19	23	30	34	56	38	23	377	51
12- 19	11	22	27	20	9	7	8	27	46	16	7	7	4	17	12	2	242	33
20- 28	7	7	2	0	0	0	0	4	19	8	1	3	0	0	0	0	51	7
29- 38	1	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	6	1
TOTAL	44	58	55	35	24	26	18	53	89	48	33	47	47	83	52	32	744	100
PERCENT	6	8	7	5	3	3	2	7	12	6	4	6	6	11	7	4		
AVERAGE	12	13	12	13	11	10	11	13	16	14	10	10	8	9	10	8	12	

7 AUG 2007 1030

PRECIPITATION [mm]  
 Lafarge Canada Inc.  
 Stoney Trail  
 STATION 620  
 JUL 2007

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
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
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
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
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
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
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
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
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
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
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
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
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
14	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
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
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
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
18	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
19	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
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
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
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
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
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	4
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
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
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
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
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
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
TOTL	3	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	2	0	0	2	0	0	0	0
MAX	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3	2	0	0	2	0	0	0	0

Percent of time operational: 100  
 Monthly Total: 13 Maximum in an hour: 3  
 Year to Date: 150



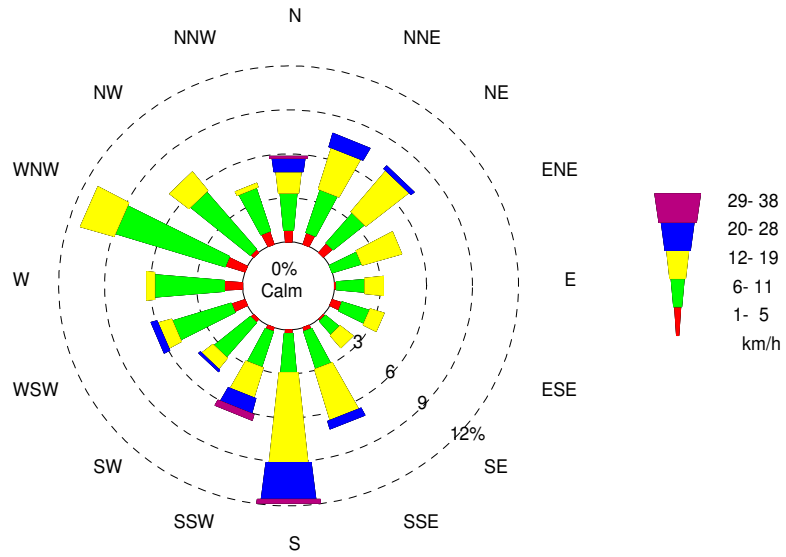
TRAILER TEMPERATURE  
Lafarge Canada Inc.  
Stoney Trail  
STATION 620  
JUL 2007

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	9	9	9	10	13	15	18	20	21	21	22	23	24	25	26	27	26	24	22	18	15	13	18	
2	12	12	12	13	13	12	13	14	18	22	25	26	28	27	27	28	26	28	26	24	21	19	17	16	20	
3	15	14	13	12	12	13	17	21	23	26	27	28	29	30	30	31	30	30	27	24	22	19	18	16	22	
4	16	15	13	12	12	13	16	19	22	24	26	27	28	28	29	29	29	29	28	26	24	21	19	19	22	
5	18	17	15	15	14	15	19	23	27	30	31	32	32	33	33	33	34	34	33	31	28	23	21	19	25	
6	18	17	17	17	16	16	17	18	20	22	23	24	25	26	27	28	28	27	26	24	22	20	19	18	21	
7	16	15	15	15	14	12	12	12	13	14	16	18	20	23	24	24	25	25	24	21	19	17	16	15	18	
8	15	15	15	15	14	14	14	14	15	15	17	17	18	21	23	24	24	24	24	23	21	20	18	16	14	18
9	13	12	12	11	11	11	12	10	9	10	14	16	18	19	19	19	20	20	19	18	16	13	13	12	15	
10	12	11	10	9	8	8	11	15	18	20	23	24	25	26	27	28	28	28	27	25	21	19	17	17	19	
11	16	15	15	14	14	14	15	19	22	24	26	27	29	30	30	30	30	30	29	26	24	22	20	19	22	
12	17	17	17	17	16	16	18	21	24	26	28	29	29	30	30	31	30	30	30	28	25	22	20	18	24	
13	17	16	15	15	15	15	18	23	26	28	29	30	31	32	33	33	33	33	32	30	27	24	22	21	25	
14	20	19	18	18	18	19	19	21	24	28	30	32	33	34	34	33	34	34	33	30	28	26	23	21	26	
15	19	19	20	20	20	20	21	23	25	27	28	30	30	31	32	33	34	33	29	25	22	19	18	17	25	
16	16	16	15	15	16	16	18	20	23	25	26	28	29	29	30	31	31	30	29	26	23	21	19	18	23	
17	18	17	17	17	17	17	18	19	21	25	27	28	29	30	30	27	26	25	25	24	23	22	21	20	23	
18	20	20	19	18	18	17	17	18	18	20	22	23	26	28	29	29	30	29	28	27	25	24	23	22	23	
19	21	19	18	17	17	17	17	18	21	25	27	27	27	28	29	30	29	29	27	25	22	19	17	15	23	
20	14	13	13	12	12	12	14	18	21	23	24	26	27	28	28	28	27	26	25	24	22	21	20	19	21	
21	17	16	15	14	13	13	15	19	21	24	26	27	28	30	30	31	32	31	30	27	23	20	17	16	22	
22	15	15	15	15	14	14	14	16	20	25	27	29	30	32	33	33	33	32	31	30	27	23	21	20	23	
23	19	18	18	19	17	16	19	24	28	30	31	32	34	35	35	34	33	32	32	31	28	26	23	21	26	
24	20	19	18	17	16	16	16	18	21	24	26	27	27	28	28	27	25	23	23	20	18	17	16	15	21	
25	14	14	14	13	13	13	13	16	17	18	20	21	21	23	24	25	22	21	21	21	18	15	13	12	18	
26	11	11	10	10	10	11	13	16	19	21	22	23	25	26	27	28	28	28	28	27	24	21	19	17	20	
27	16	16	16	16	15	15	16	20	24	28	30	31	33	34	34	35	35	34	33	31	27	24	22	20	25	
28	18	18	18	17	17	17	18	21	23	26	28	30	31	32	33	33	33	33	32	30	26	22	20	18	25	
29	16	16	17	18	18	17	18	21	24	27	29	31	33	34	35	35	36	36	35	32	27	22	19	19	26	
30	18	18	18	18	18	18	18	19	20	21	23	24	25	27	28	29	27	27	25	23	20	18	17	17	22	
31	16	16	16	15	15	14	13	14	17	16	15	17	18	19	19	19	19	20	19	17	15	12	12	10	16	
AVG	16	16	15	15	15	15	16	18	21	23	25	26	27	28	29	29	29	29	28	26	23	20	18	17		
MAX	21	20	20	20	20	20	21	24	28	30	31	32	34	35	35	35	36	36	35	32	28	26	23	22		
MIN	10	10	9	9	8	8	11	10	9	10	14	16	18	19	19	19	19	20	19	17	15	12	12	10		

Percent of time operational: 100      M - missing data  
Monthly Average:      22      Monthly Maximum:      36      Monthly Minimum:      8

Wind rose for JUL 2007  
Stoney Trail

Bar length is proportional to frequency of winds from its direction



PROMET

7/ 8/2007