



## MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

August 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	46	60	0
PM2.5 $\mu\text{g}/\text{m}^3$	80%	10.3	21.5	0
TSP $\mu\text{g}/\text{m}^3$	100%	43.7	95.0	0
Wind Speed km/h	100%	10	34	-
Precipitation mm	100%	-	13.6	-
Trailer Temperature	100%	17	30	-

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

### COMMENTS:

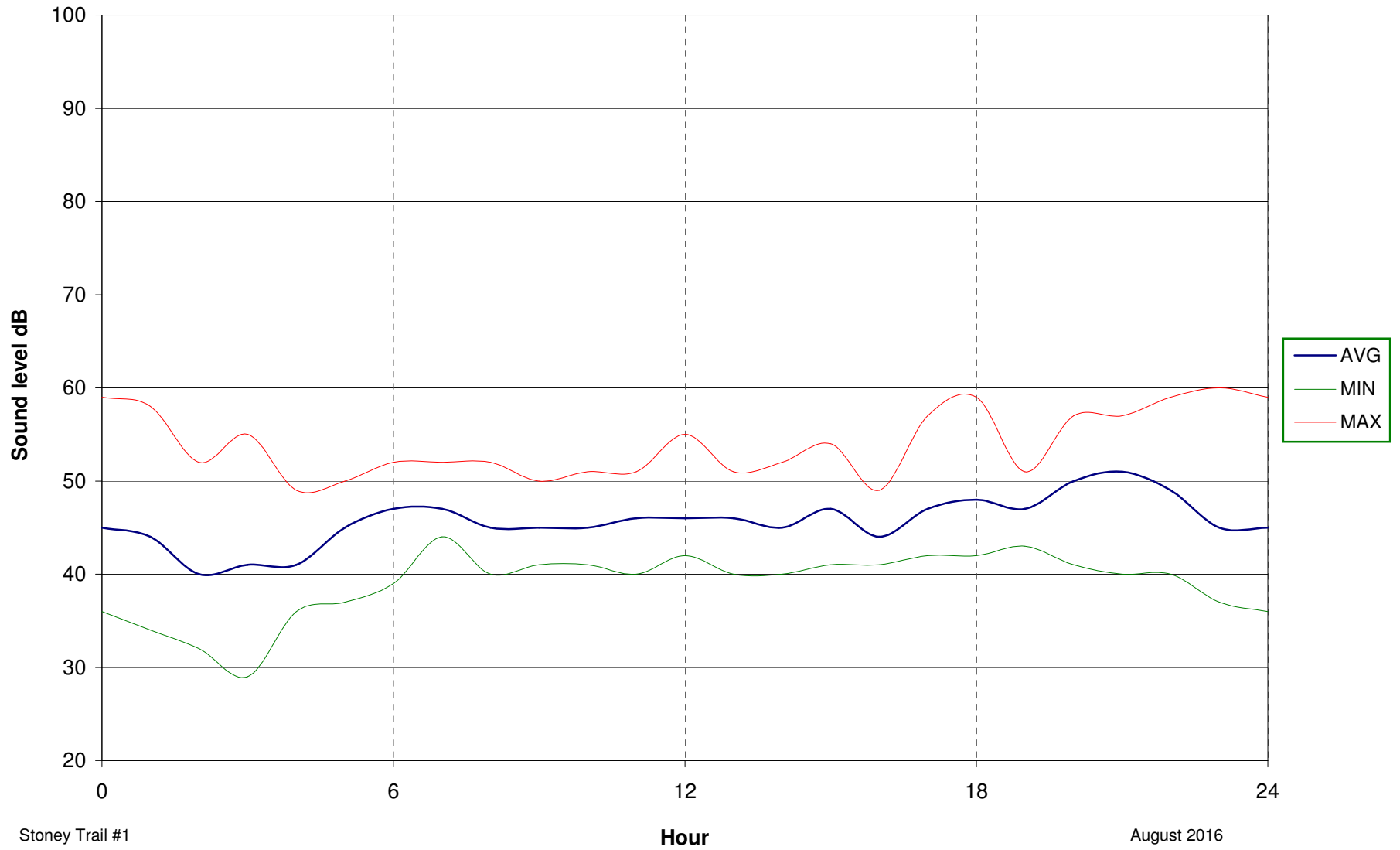
The regulation for industrial areas is 85 dB A any time.

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.

# Sound Level by Hour of the Day

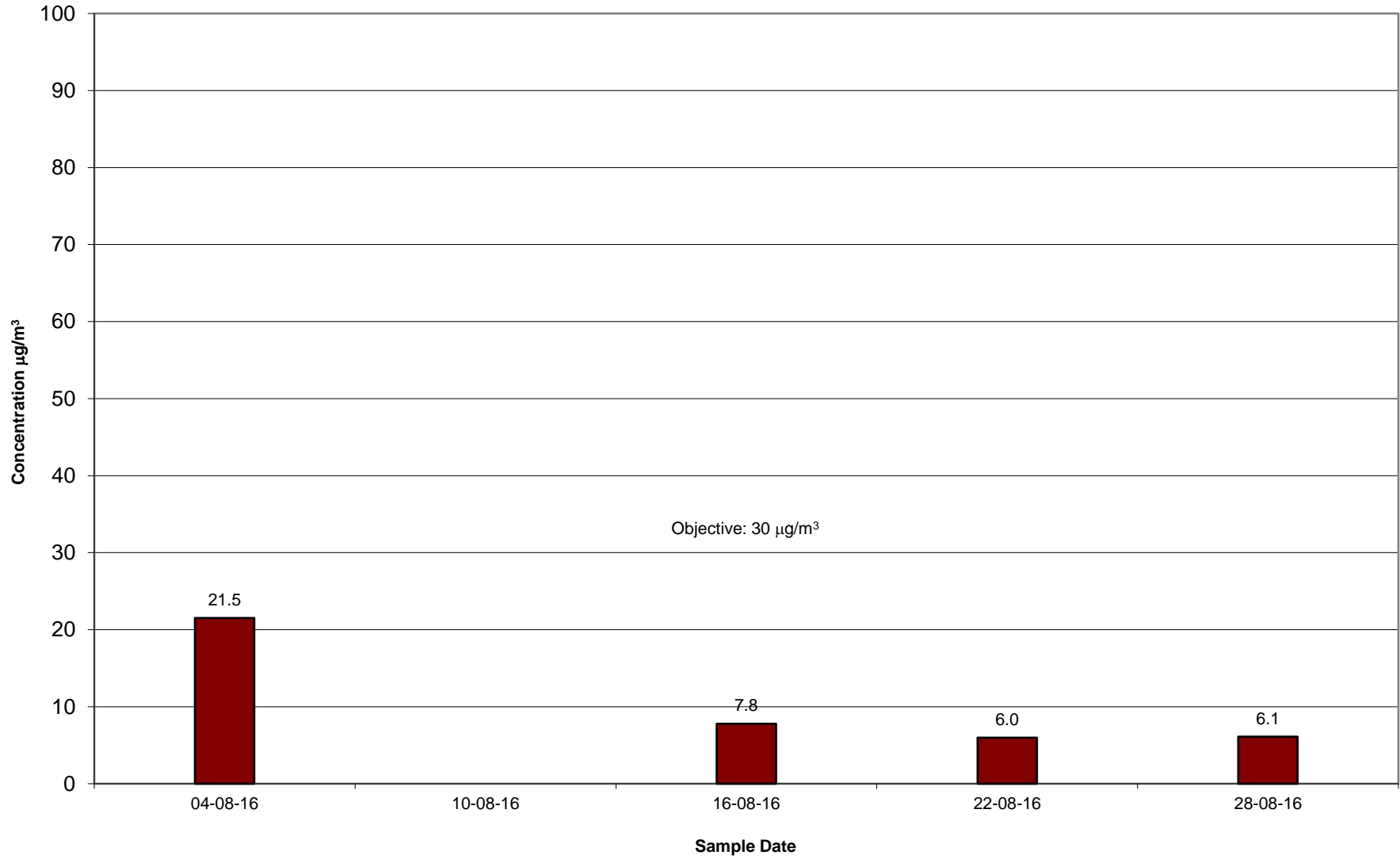


Stoney Trail #1

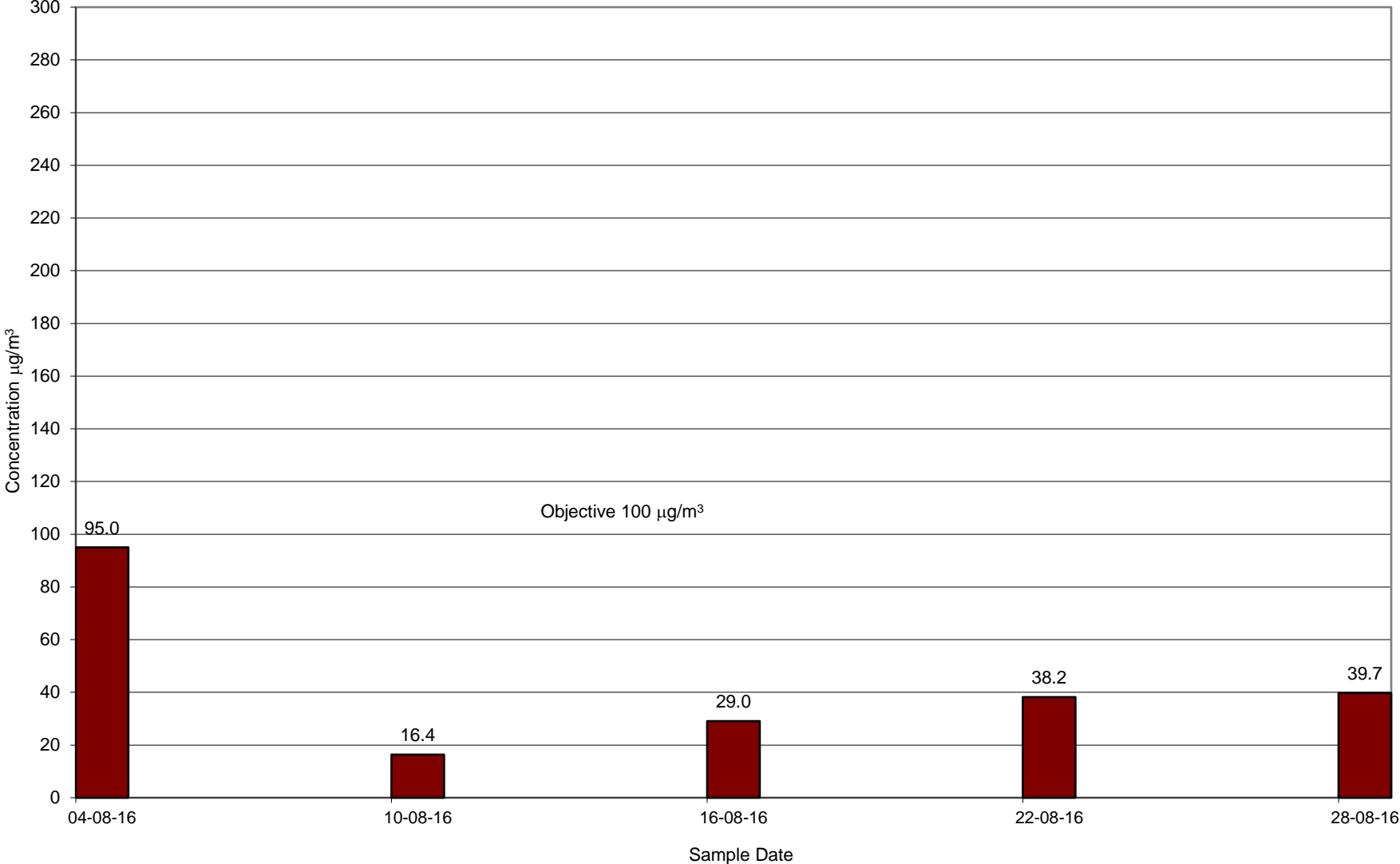
Hour

August 2016

PM2.5 at BLV Group Stoney Trail #1 August 2016

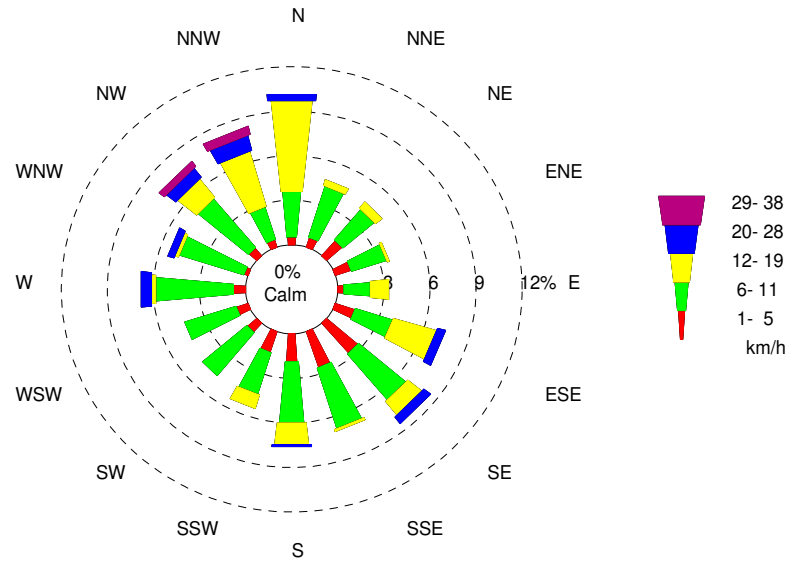


TSP at BLV Group Stoney Trail #1 August 2016



Wind rose for AUG 2016  
Stoney Trail 1

Bar length is proportional to frequency of winds from its direction





ABSTRACT OF THE WIND  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
AUG 2016

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	N	N	NW	WSW	W	WSW	SW	SW	SW	WSW	W	W	E	ENE	ESE	SSE	E	S	S	SE	SSE	SE	SE	8	12	W	0			
2	SSE	SSW	WSW	W	NW	NNW	NNW	NNE	E	E	E	E	E	E	ESE	ESE	ESE	NE	NE	NE	NE	N	N	N	11	17	E	0			
3	N	N	NNW	NW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	N	N	NNW	NNW	SSW	SSW	SE	SSW	WSW	WSW	13	21	NNW	0				
4	W	WNW	WNW	NW	WNW	W	W	WNW	WNW	W	ESE	ESE	ENE	NE	ENE	E	ESE	ESE	ESE	ESE	ESE	SE	SE	9	16	ESE	0				
5	SSE	SSE	SSE	SSE	SSE	S	SW	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	13	25	SE	0				
6	SE	SE	SE	SE	SE	S	SSW	S	SE	SE	E	SE	S	ESE	NNE	NW	NE	ENE	SSE	S	S	ESE	SSE	8	16	SE	0				
7	SSW	S	SE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	SE	8	18	SVL	0				
8	S	SW	NW	WNW	NE	S	W	ENE	SE	SE	SSW	ESE	ENE	E	N	E	ESE	ESE	E	ESE	SE	SSE	SSE	5	14	ESE	0				
9	S	S	SSE	S	SW	S	W	WSW	SSE	S	SE	E	ESE	SE	S	SSW	WNW	NNE	NE	NNE	NE	NW	NW	7	14	S	0				
10	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNW	NNW	NNW	N	W	WNW	NW	WNW	WNW	WNW	WNW	WNW	11	17	NNW	0				
11	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NE	NNE	ENE	NE	NW	N	W	WNW	WNW	WNW	9	13	WNW	0				
12	WNW	W	WNW	W	WNW	W	WNW	W	WNW	N	NNE	N	WSW	NNW	NNE	NE	ENE	ENE	SE	S	S	SSW	SSW	7	11	W	0				
13	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	E	ENE	ENE	ESE	SSE	S	S	ESE	NE	N	7	13	SVL	0				
14	NW	NW	W	W	NW	W	NW	SW	SW	SW	S	NNE	NE	ENE	ENE	ENE	SE	NE	SSW	NNW	SSE	SW	NW	8	16	SVL	0				
15	WSW	WSW	WSW	W	WNW	NW	NNW	N	N	N	NNE	NE	NE	NE	ENE	ENE	ENE	NE	ENE	ESE	SE	SE	SSE	8	13	SVL	0				
16	SSW	S	S	SW	SW	SW	CLM	WSW	WSW	WSW	SSW	NNW	NNW	ENE	ENE	NE	NE	NE	NNE	N	N	NNW	W	8	16	NE	0				
17	NW	N	NNW	N	N	N	NNE	NNE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	N	N	NW	NW	NW	NNW	7	12	N	0				
18	NNE	ENE	WNW	N	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	N	N	N	NNE	NNE	NE	NW	WNW	8	16	NNW	0				
19	WNW	NW	NW	NW	NW	NW	W	WSW	SSW	S	S	S	SSE	S	S	SSE	SE	ESE	ESE	ESE	S	SW	SW	8	13	S	0				
20	WSW	W	W	WNW	WNW	WNW	W	WSW	SSW	W	WSW	SSW	SSE	ESE	E	SE	SE	SE	SSE	SSE	S	SSW	SW	9	12	W	0				
21	WSW	WSW	W	W	WNW	NNW	N	N	NNE	NE	E	E	ESE	ESE	ESE	E	E	NNE	N	NNW	NW	W	WSW	9	16	SVL	0				
22	SW	SW	N	N	N	N	N	N	NE	WNW	NW	W	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	19	31	N	0				
23	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	24	34	NNW	0				
24	NNW	NNW	N	N	NNW	NW	NW	NNW	N	N	N	NNE	NNE	NNE	NE	ENE	CLM	CLM	S	SW	WSW	WSW	WSW	9	16	N	0				
25	WSW	WSW	W	WNW	N	N	N	NNW	NNW	N	N	NNW	NNW	N	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	13	18	NNW	0				
26	NW	NW	NW	WNW	W	WNW	W	WSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	9	13	SSE	0					
27	SSW	SW	WSW	WSW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	SW	S	SW	N	N	N	W	SW	W	WNW	N	10	27	SW	0				
28	N	N	N	N	N	N	N	N	N	N	N	NNE	NE	ENE	E	ESE	SE	S	SSE	SE	SE	SSE	SE	11	19	N	0				
29	SSE	S	S	S	S	SSW	SSW	S	SSW	SSW	SSW	SSW	SSE	SE	SE	ESE	ESE	ESE	ESE	SE	SE	SSE	SE	12	21	SSW	0				
30	SE	SSE	S	S	S	S	SSW	SSW	S	SSE	SSW	SSE	SE	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	13	21	SE	0				
31	ESE	SSE	SW	SE	SW	WSW	SSW	SSE	ESE	NE	E	E	ESE	ESE	S	SSE	SSE	S	SSW	SW	SSW	SSW	SSW	8	14	ESE	0				

MEAN  
SPEED 9 9 9 10 10 10 9 9 9 9 10 11 11 11 12 12 12 10 10 9 8 9 9 10 34 N 0  
NOTE: Missing data represented by M; no clear prevailing direction represented by SVL; calm winds represented by CALM  
WS UPTIME 100 % WD UPTIME 100 %

Date of Last Calibration 060221 Make and Model of Instrument: RM Young5103

FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
AUG 2016

SPEED [km/h]	WIND DIRECTION																TOTAL	PCT							
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW									
< .5																								3	0
1- 5	4		5	10	8	3	10	20	19	14	11	6	6	2	5	4	133	18							
6- 11	23	27	20	18	13	19	30	32	31	22	28	26	38	33	32	17	409	55							
12- 19	46	3	4	1	9	22	9	1	11	7	0	0	2	2	12	29	158	21							
20- 28	3	0	0	0	0	4	4	0	1	0	0	0	5	3	6	8	34	5							
29- 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	1							
TOTAL	76	35	34	27	25	55	63	52	57	40	34	32	51	40	58	62	744	100							
PERCENT	10	5	5	4	3	7	8	7	8	5	5	4	7	5	8	8									
AVERAGE	13	9	8	7	10	11	8	7	8	8	7	10	10	12	15	10									





TRAILER TEMPERATURE  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
AUG 2016

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

Percent of time operational: 100  
Monthly Average: 17 Monthly Maximum: 30 Monthly Minimum: 7 M - missing data