



MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

October 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	45	58	0
PM2.5 $\mu\text{g}/\text{m}^3$	100%	12.8	16.1	0
TSP $\mu\text{g}/\text{m}^3$	100%	88.2	161.0	2
Wind Speed km/h	100%	9	24	-
Precipitation mm	100%	-	3.4	-
Trailer Temperature	100%	4	17	-

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

COMMENTS:

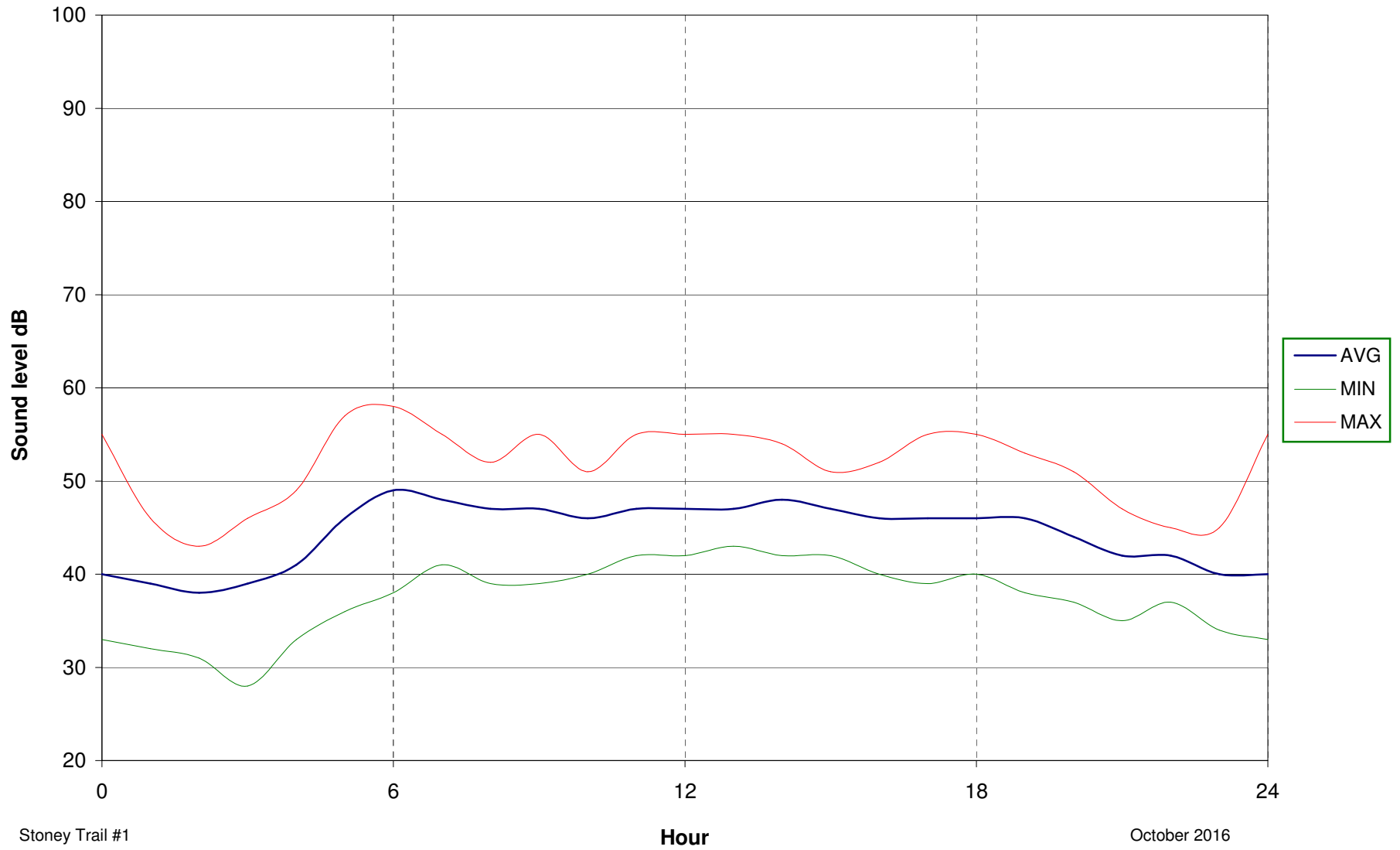
The regulation for industrial areas is 85 dB A any time.

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

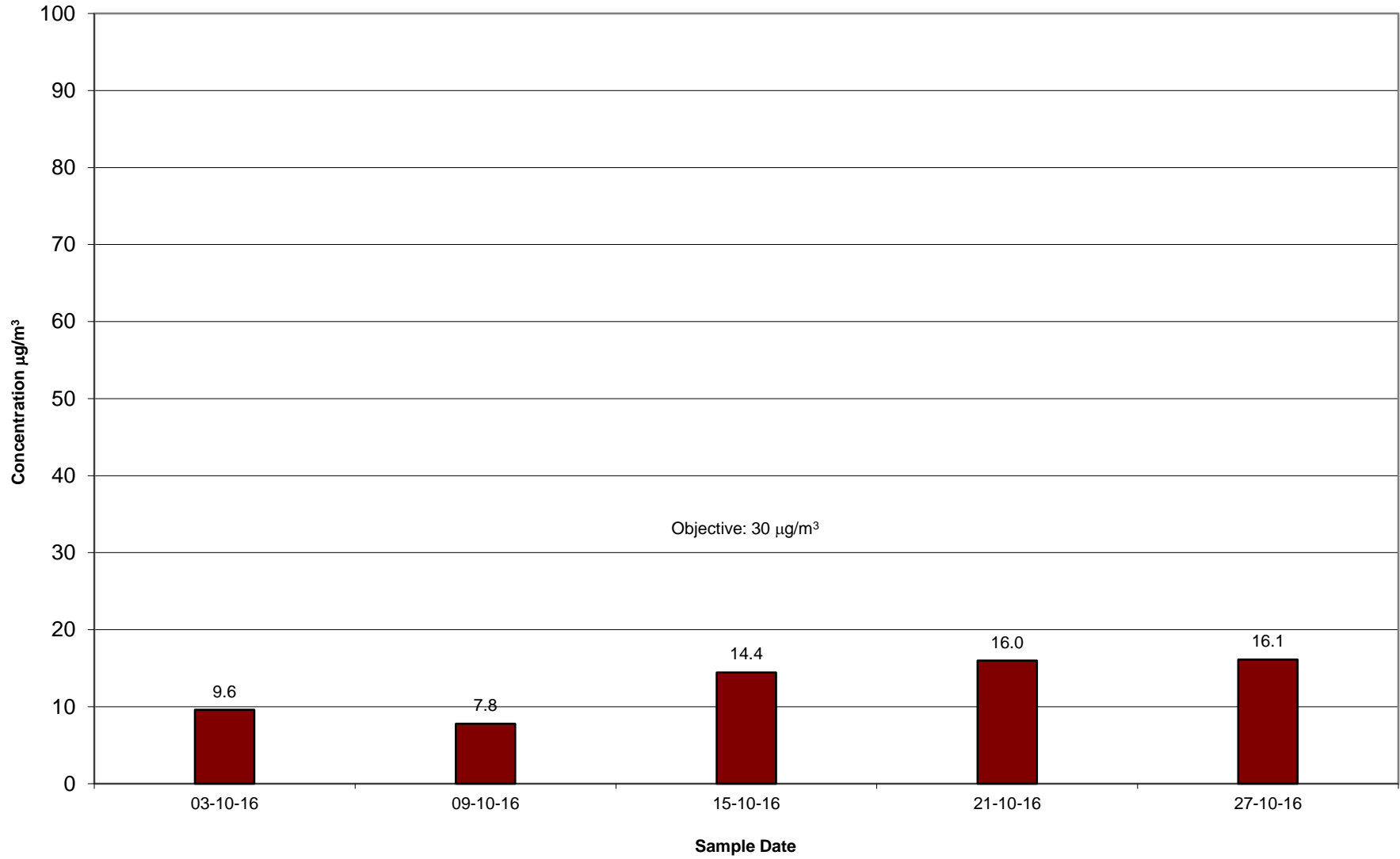
The TSP Objective is 100 $\mu\text{g}/\text{m}^3$ for the day.

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

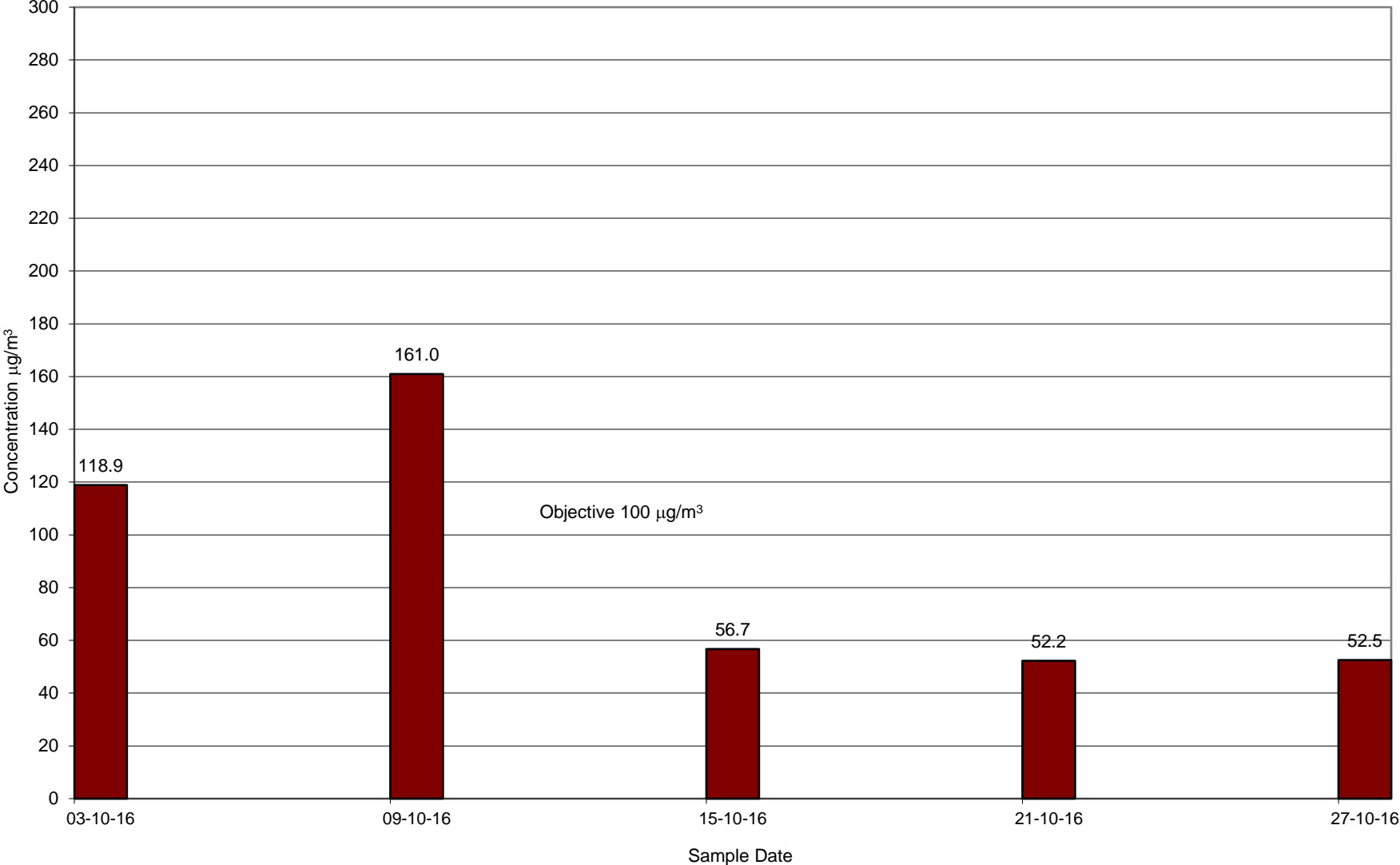
Sound Level by Hour of the Day



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

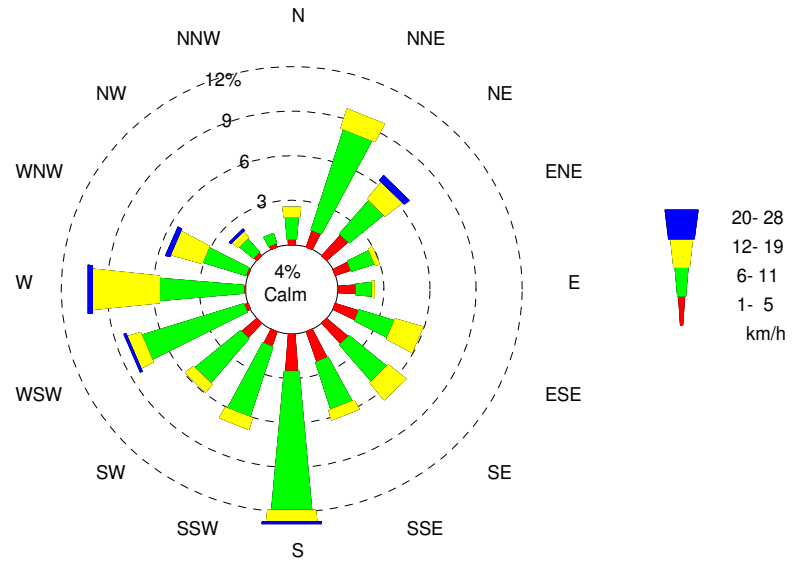


TSP at BLV Group Stoney Trail #1 October 2016



Wind rose for OCT 2016
Stoney Trail 1

Bar length is proportional to frequency of winds from its direction



SOUND LEVEL [dBA] Leq 1 hour
 Lafarge Canada Inc.
 Stoney Trail 1
 STATION 620
 OCT 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	34			28		42		41	43	42	41	44	42	45	46	51	52	55	55						47			
2	34	34	31	33	34	38	39	44				46				48	46	45	41	43	39	40	40	37	34	41		
3	35	34	33	35	38	46	51	51	49	48	44	45	44	46	45	44					53		47	43	40	45		
4	39	41	39	43	49	52	58	53	48	46	42	42	45	46										44	35	47		
5	33		34			42		45	45			C												41	34	41		
6	33	33	33	36	36	42	44	46	42	44	44	46	47	47	49	48							43	42	40	41	34	41
7	40	42	42	42	47	57																			39	44	44	
8	38	36	37	39	48	52	54	55		55	51	55	55	55	54			40	39	40	38	37	35	40	39	46	49	
9																												
10				33	33	38	43	41				44	44	45	44	48	44	41	41		43	43	38	41	37	41		
11	34					43	46	45	42	45	46	46	47	48	48	47	48	51	53	51	48	41	41	38	39	38	38	42
12	39	36	35	35	39	44							48	47	46	47									41	40	39	46
13	42	41	43	42	45	49	50	49	49	50	50	46	45	44	46	46	46	44	44	46	44	43	41	45	45	46	46	
14	38	40	42	46	49	46	45	41	39	44	46														41	40	37	43
15	39	38	39	39	42	46	47	49	52	50	50	48	49	49	54	50	47										44	47
16	42	43	43						46								45	42	43	42	45	43	39	38	37	43		
17	37	34	33	37	42	47	49	51	51	49	46	45	45				44	41	43	43	39	41	42	42	36	44		
18	33	32	33	36	41	45	49	48	46	42	40	44	47	46	49	47	47	41	44	45	39	44	44	44	42	44		
19	44	44	41	43	42	47	48														45	46	44	46	43	42	44	
20	40	42	41	41	40	42	46	50	49	46	43	45															44	
21	55	35			38	43	49	48	44	47	48	48	48	47	49	45	43	44	45	44	44	42	43	37	46	46		
22	37	36	35	33	35		45	45													42	43	40	37	41	39	40	
23	41	41	41	43	43	43	43	44	45	47	48																	
24	35	35	37	39	41	49	51	52	51	51	50	50	50	51	50	50	49	49	48	48	48	47	40	40	37	47		
25	33	38	37	34	36	38	42	46	47	44	49																	
26	38		35	34	39	54	55	51	48	45	44	44	45	46	48	48	50	51	52	52	50	46	44	44	48	48		
27	48	46	42	40	43	48	51	50																				
28	36	35	35	35	42	41	50	47	43	44		42	45				43	44	42	43	45	46	47					
29		36		35	36	38	42	39	42	40	43	43																
30			36		36	39	41	43				46	46	47	46	44	42	42	42	42	42	42	43	43	42	43		
31	40	40	39	39	41	47	50	50		51	48	48	46	43	42	42	44	43	45	46	46	43	44	42	45			
AVG	40	39	38	39	41	46	49	48	47	47	46	47	47	47	48	47	46	46	46	46	46	44	42	42	40			
MAX	55	46	43	46	49	57	58	55	52	55	51	55	55	55	54	51	52	55	55	53	51	47	45	45				
MIN	33	32	31	28	33	36	38	41	39	39	40	42	42	43	42	42	40	39	40	38	37	35	37	34				

*** 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: 58 Monthly Minimum: 28
 Median: 43.5
 *** No Exceedances of Guideline ***

SOUND METER CALIBRATIONS

DATE	TIME	STANDARD	RESPONSE	ERROR
OCT 5, 2016	10	94.0	93.8	-.2

ABSTRACT OF THE WIND
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
OCT 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	NNE	NE	NE	NNE	NNW	NE	NE	ENE	SE	ESE	NW	ENE	SSW	SSE	SSE	S	S	S	S	W	WNW	WNW	NW	NW			SVL	0	
2	NNW	NW	NW	SW	SSW	S	SSW	SSW	SW	SSW	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	S	SSE	NW			SSE	0	
3	W	W	WNW	NW	NW	WNW	WNW	W	NW	NNW	NNE	NE	E	E	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	S			ESE	0	
4	S	S	S	S	S	S	SSW	SSW	SW	WSW	WSW	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE			NE	0	
5	NNE	NNE	NNE	NNE	N	N	N	N	N	N	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW			NNE	0	
6	N	NNE	NNE	NNE	NNE	NNE	N	NNW	N	N	NE	E	E	ESE	ESE	E	ESE	ESE	ESE	ESE	SE	SE	SE	SE			ESE	0	
7	SE	SSE	SSE	SSE	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE			SE	0	
8	SE	SSE	SSE	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ENE	ENE	ENE	ENE			S	0	
9	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM	CLM			NNE	0	
10	CLM	CLM	CLM	NNE	NNE	NE	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE			NE	0	
11	CLM	CLM	CLM	CLM	CLM	4	7	4	8	11	12	13	13	10	9	11	9	11	11	11	14	9	9	7			S	0	
12	WSW	WSW	W	W	WSW	3	6	1	5	5	7	7	9	9	8	7	8	10	11	10	9	9	9	9			W	0	
13	ESE	SE	S	S	S	S	S	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			SW	0	
14	SSE	E	NE	NE	NE	NNE	NNE	ENE	NE	NNE	N	NW	W	NE	ENE	ENE	ENE	ENE	E	ENE	E	E	ESE	E			SVL	0	
15	SE	SE	SE	SE	S	SW	NNW	N	N	ENE	ENE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			ESE	0		
16	SSE	SE	S	SSW	SSW	SW	WSW	WSW	W	WSW	W	WNW	WSW	W	WNW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	W			WSW	0	
17	WSW	WSW	WSW	NE	E	SSE	SSE	NE	NNE	NE	NNE	NE	NNE	NE	NNE	NE	NNE	NE	NNE	NE	NNE	NE	NE	NE			NNE	0	
18	NE	ENE	ENE	S	S	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	ESE	S	W	WSW	WSW	WSW	S	0	
19	WSW	WSW	WSW	W	W	WSW	WSW	W	W	WNW	WNW	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW			W	0	
20	SW	SSW	SW	SW	WSW	W	WSW	WSW	W	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WNW	WNW	WNW	WNW			SW	0	
21	W	W	W	W	WSW	W	WSW	WSW	S	SSE	S	S	SSW	S	W	WNW	W	W	WNW	WSW	SW	W	WNW			W	0		
22	W	W	W	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW			W	0	
23	WSW	WSW	SW	SSW	SSE	S	S	SSW	SSW	S	S	S	S	S	SSE	SSE	SE	SSW	SW	WSW	WSW	WNW	SSW			S	0		
24	NE	NNW	NNW	W	SE	ESE	ESE	ESE	SSE	SSE	SE	SE	SSE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	S	S			ESE	0		
25	SSE	SW	SE	ESE	ESE	SE	SSE	S	S	S	SSW	SW	WSW	WSW	W	WNW	WSW	W	N	WNW	WSW	WSW	WSW			WSW	0		
26	W	W	W	W	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW			SW	0	
27	WSW	WSW	WSW	WSW	W	WNW	WNW	W	W	W	WNW	NW	NNW	NE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE			SVL	0	
28	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	CLM	NE	ENE	S	SW	SSW	S	S	S	S	S	S	S	S			NNE	0		
29	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			SSW	0		
30	WNW	WNW	WNW	WNW	WNW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			W	0		
31	ESE	ESE	SE	SE	SSE	SW	SSW	S	S	S	S	SSW	SW	SSW	S	SE	ENE	NNE	NNE	NNE	NNE	NNE	NNE			S	0		
MEAN																													
SPEED	7	8	7	7	7	8	8	9	8	9	10	11	11	11	11	9	9	9	9	8	8	7	8			9	24	S	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
OCT 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																													30	4
1- 5		3	9	14	8	9	12	14	16	19	8	10	2	1	1	2	2	130	17											
6- 11	11	11	53	22	12	8	18	24	25	70	37	29	52	41	22	9	5	438	59											
12- 19	5	10	11	2	1	14	11	5	6	6	5	7	33	16	4	0	136	18												
20- 28	0	0	3	0	0	0	0	0	0	1	0	0	1	2	2	1	0	10	1											
TOTAL	19	72	50	22	18	44	49	46	96	51	44	62	77	41	16	7	744	100												
PERCENT	3	10	7	3	2	6	7	6	13	7	6	8	10	6	2	1														
AVERAGE	9	9	10	7	6	9	9	7	8	9	8	10	12	12	9	6	9													

PRECIPITATION [mm]
 Lafarge Canada Inc.
 Stoney Trail 1
 STATION 620
 OCT 2016

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	.2	0	3.4	2.2	0	0	.6	.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1
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	.5	0	0	0	0	0	0	0	0	0	0	.8
9	0	0	0	0	0	0	0	0	0	0	0	0	.6	0	0	0	0	0	0	0	0	0	0	0	.9
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	0	0	0	0	0	0	0	0	.2
11	0	0	0	0	0	0	0	0	0	0	.2	.4	.2	.2	0	0	0	0	0	0	0	0	0	0	1.2
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	.5	.6	0	0	0	0	0	0	0	0	0	0	1.1
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	.2
16	0	0	0	0	0	0	0	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2
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	.4	0	0	0	0	0	0	0	0	0	0	0	0	.4
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
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	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
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	.2
28	.9	.7	1.1	.9	0	0	0	0	0	0	0	0	0	3.1	2.3	1.3	.5	0	0	.2	0	.3	.3	.3	12.2
29	.2	0	0	0	0	0	0	0	0	0	.2	.3	0	0	0	0	0	0	0	0	0	0	0	0	.9
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	1.1	.7	1.4	.9	3.4	2.2	0	0	1.1	.8	.8	1.5	1.6	3.8	2.6	1.3	.6	0	0	.2	0	.3	.4	.6	
MAX	.9	.7	1.1	.9	3.4	2.2	0	0	.6	.6	.4	.5	.6	3.1	2.3	1.3	.5	0	0	.2	0	.3	.3	.3	

Percent of time operational: 100 M - missing data
 Monthly Total: 26 Maximum in an hour: 3.4
 Year to Date: 442

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

Percent of time operational: 100
 Monthly Average: 4 Monthly Maximum: 17 M - missing data
 Monthly Minimum: -4