



MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

September 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	46	64	0
PM2.5 $\mu\text{g}/\text{m}^3$	100%	9.8	22.8	0
TSP $\mu\text{g}/\text{m}^3$	100%	32.9	63.1	0
Wind Speed km/h	100%	10	34	-
Precipitation mm	100%	-	2.9	-
Trailer Temperature	100%	12	27	-

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

COMMENTS:

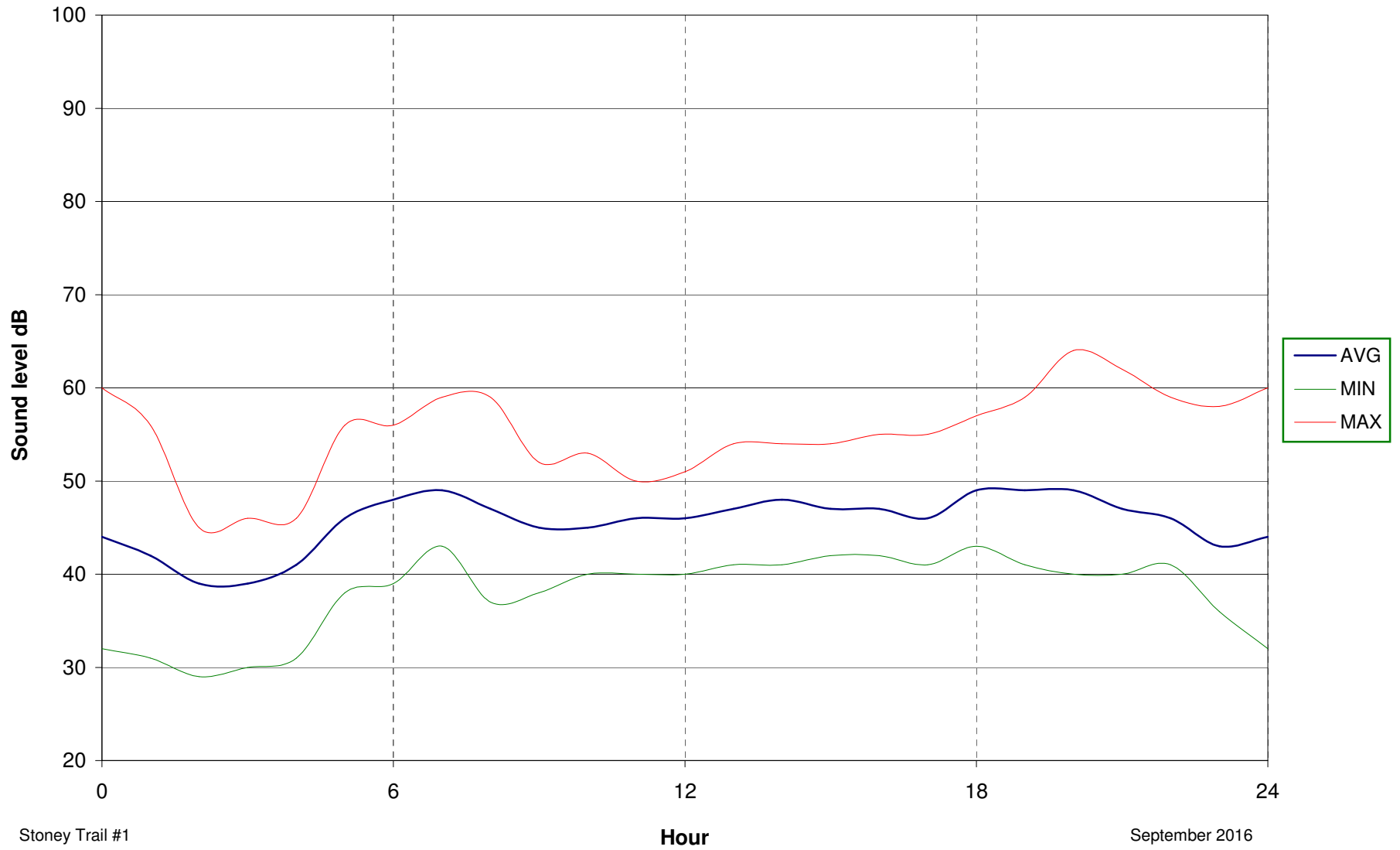
The regulation for industrial areas is 85 dB A any time.

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

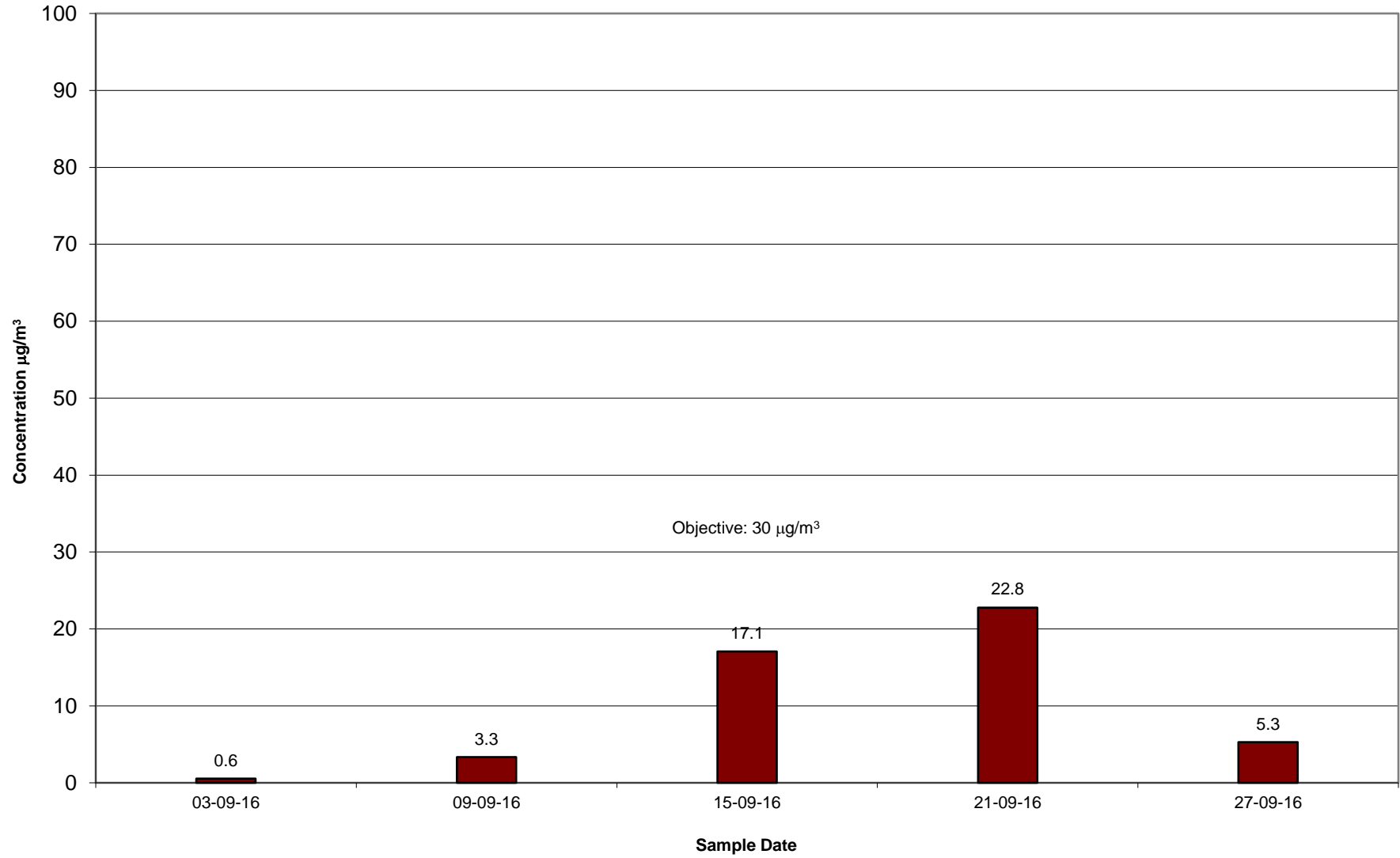
The TSP Objective is 100 $\mu\text{g}/\text{m}^3$ for the day.

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

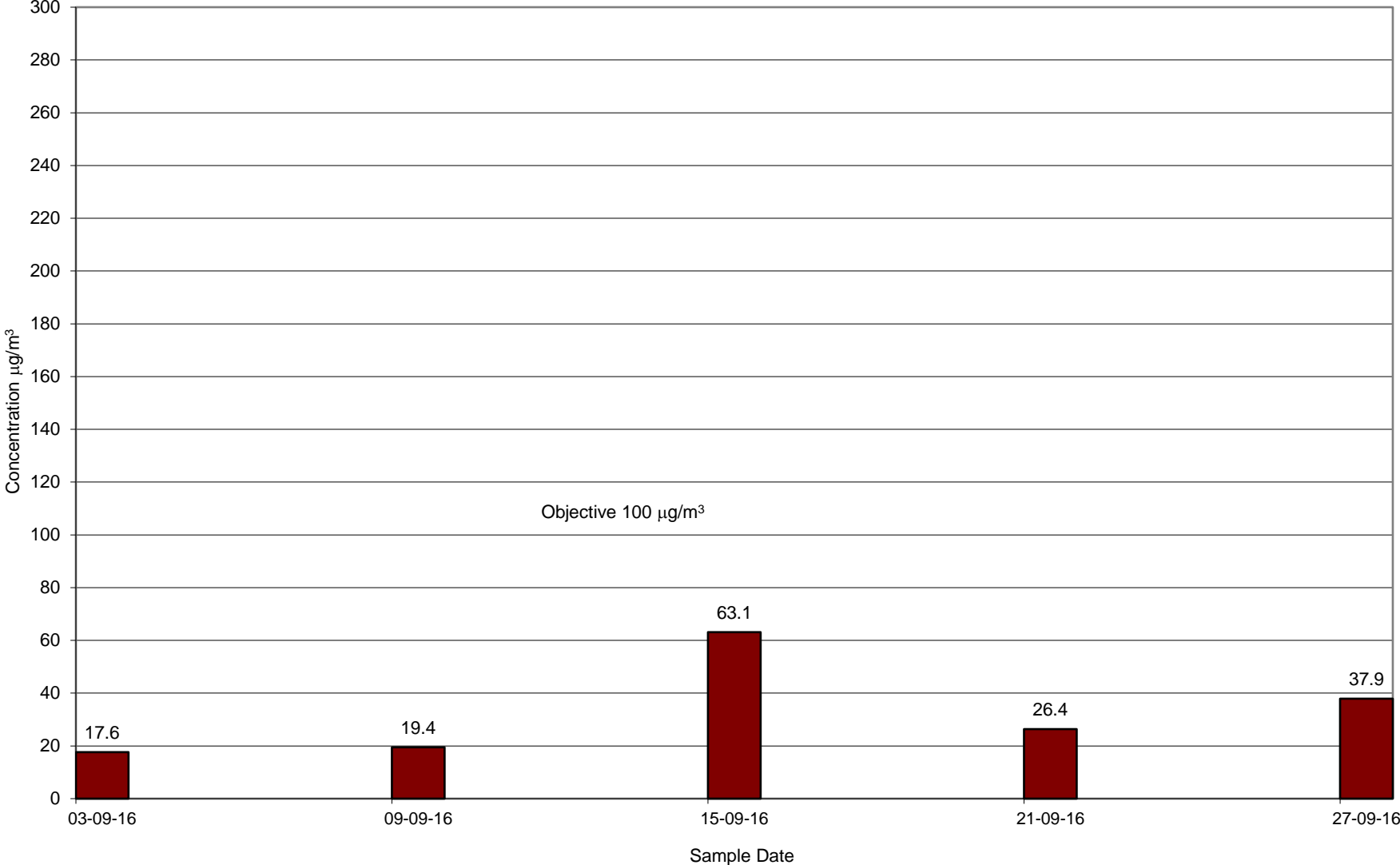
Sound Level by Hour of the Day



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

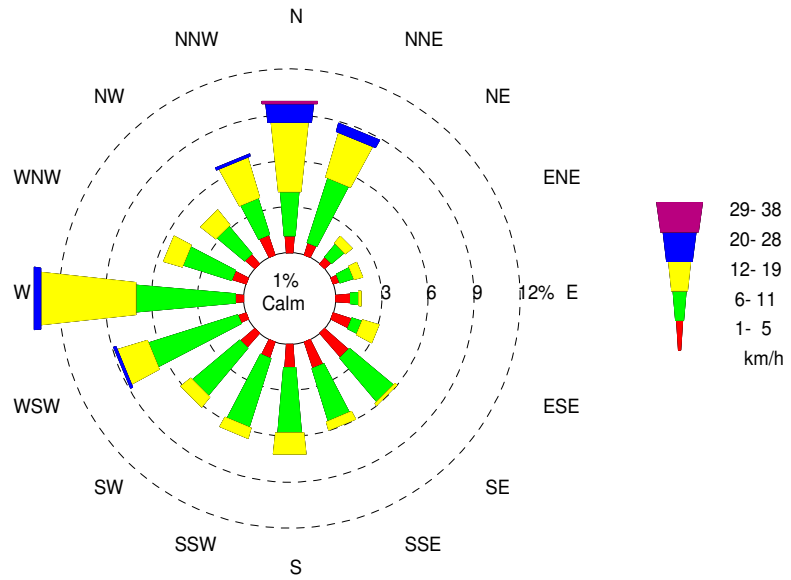


TSP at BLV Group Stoney Trail #1 September 2016



Wind rose for SEP 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
SEP 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	60	56	40	46	42	45	48	49	48	46	C	46	44	44											49		
2			38		40	41	48	45	42	45	41	45													45		
3	42	41	42	41	43	45	47	46	48	45	44	45	45	45	46	46	43	42	43	44					44		
4					37	41	39	43	37	38	40	40	40	41	42	43						42	44	41	40	41	
5	40	40	40	40	41	44	43																		46		
6	44	46	41	45	46	47	50	50	42	43	43	46	44	45	44	44	44	44	44	45	51	47	47	46	42	46	
7	38	37	39	40	40							46	47	48											45	45	
8	40	41	40	39	41			46	45																40	42	
9						43	47	48	42	42	44	49	49	52	52							45	44		42	42	
10		41				40	44	44																		47	
11			37	35	38																					42	
12				40	38	43	48	48	44	45	42	45	46	44	46	47	49	50	57	59				53	43	48	
13	44	45	43	41	43		47	47	47	44	47	49		50	47	46	46	51	54	56				47	48		
14	47	46	44					51	47	45	45	46	46	47	49	53	48	47	50	54	57	64	62	59	58	53	
15	52	44	45									45	46	46	46	46	45	46	45	47	46	46	43	44	42	46	
16	38	31	33									45	47	46	47	47	45	45	44	41	41	42	42	39	43	43	
17	35	36	34	34			39	44	51				45	42	41	43	45	43	44	43	43	43	43	39	42	42	
18	38			33	34	38	42	45	42	42	43	45	46											38	41	41	
19		33	29	34	37	47	47	46	42	46	47	48	43	45	47	46	45	46	49	48	43	43	43	42	45	45	
20	41	38	41	39	39					44	42	41	43	43	45	44	44	45	44	44	42	44	44	44	41	43	
21	37	36	34	43	42	48	51	51	45	45	41	45	45	44	45	42	42	41	43	43	43	45	44	42	44	44	
22	41	42	40	38	41	47	51	52	52	52	53	50	46	50	52	48	46				51	50	42	41	42	48	
23	39	37	40	42							46	46	51	54	54	54					45	46	44	42	36	47	
24	34	36	33	31	41	42					46	46	45	45	44	45	45	42	45	42	40	41	41	38	42	42	
25	35	34	29	30	31	40	43	46	44	44	43	45	45	45											41	41	
26	32					44	49	50					44	52	51	53	50	46	44	44	43	40	41	39	47	47	
27	39	38	38	39	42	55	51	49									44	43	44	45	46	43	41	37	45	45	
28	36	39	39	40	42	56	56	59	59									55	54	54	54	49	43	42	52	52	
29	42	40	40	37	41	48	52	52	49	47	47	47	45	46	51	53	51				52	49	51	46	43	40	48
30	37	38	39	40	45	48	52	49	48	49	40	43	47	47							46	41	41		45	45	
AVG	44	42	39	39	41	46	48	49	47	45	45	46	46	47	48	47	47	46	49	49	49	47	46	46	43	43	
MAX	60	56	45	46	46	56	56	59	59	52	53	50	51	54	54	54	55	55	57	59	64	62	59	58	58	58	
MIN	32	31	29	30	31	38	39	43	37	38	40	40	40	41	41	42	42	41	43	41	40	40	41	36	36	36	

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

Percent of time operational: 100 M - missing data
 Monthly Average: 46 Monthly Maximum: 64 Monthly Minimum: 29 C - Calibration
 Median: 44.3
 *** No Exceedances of Guideline ***

SOUND METER CALIBRATIONS

DATE	TIME	STANDARD	RESPONSE	ERROR
SEP 1, 2016	10	94.0	93.9	-.1

ABSTRACT OF THE WIND
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
SEP 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	S	SSW	SW	SSW	SW	SSW	SSW	SW	SW	SW	SW	W	W	SW	ENE	ENE	ENE	ENE	NE	NE	NE	NE	N	N					SW	0	
2	NNW	N	N	N	N	NNW	NW	N	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	SE	SE	ENE	ENE	N	N					NNW	0	
3	NNW	NNW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	WSW	N	NNE	NNE	NNE	NE	NNE	NNE	N	NNE					NNW	0	
4	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	ESE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE					SE	0	
5	SSE	S	S	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	N	N					S	0	
6	NW	NW	NW	NW	NW	N	N	NE	E	ESE	ESE	ESE	ESE	SSE	SSE	S	NNE	NE	NNE	NNW	WSW	SW	NNW	NNW					SVL	0	
7	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					W	0
8	WSW	SW	W	WSW	WSW	W	WSW	WSW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					NW	0
9	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					WSW	0
10	W	WSW	WSW	W	W	W	WSW	WSW	W	WSW	WSW	W	WSW	W	W	WSW	WSW	W	NNW	NNE	NNE	NNE	NNE	NNE					W	0	
11	N	NW	NNW	N	N	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					N	0
12	N	N	NNE	NNE	NNE	NNW	NNW	NNW	NNW	WSW	WSW	WSW	WSW	S	S	SSW	SE	SSE	S	S	S	SSW	SW	SW					S	0	
13	SW	WSW	WSW	W	W	W	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW					SSW	0	
14	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					SSW	0
15	WSW	W	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					NNW	0
16	WSW	W	NNW	W	W	W	NNW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW					W	0
17	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					WSW	0
18	W	NNW	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					W	0
19	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W					W	0
20	NNW	NNW	N	N	N	N	N	N	NNE	NNE	N	NW	NW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					N	0
21	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ESE	S	ESE	ESE	ESE	SE	ESE	ESE	ESE	SE	ESE	SSE	SSE	SSE	CLM	CLM	CLM	ESE				ESE	0
22	SE	SE	S	S	S	CLM	CLM	ENE	SE	SSE	SSE	SSE	SSE	SE	SE	E	ESE	SE	SE	SE	SE	SE	SE	SE	SE					SE	0
23	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					S	0
24	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					N	0
25	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					W	0
26	W	W	W	W	W	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					W	0
27	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					SVL	0
28	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE					SE	0
29	SSE	SSE	S	SSE	S	SSW	SSW	SSW	N	NNE	ENE	ENE	ENE	E	ESE	ESE	ESE	SE	SE	SSE	SSE	S	S	S					SSE	0	
30	S	SSE	SE	E	NNE	NNW	NNE	SSE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE					NNW	0
MEAN	1	1	2	1	4	5	5	5	5	4	5	6	9	9	13	13	17	12	12	10	8	10	14	13					8	17	0
SPEED	9	9	10	9	9	9	9	9	10	11	10	10	10	10	11	11	11	10	9	9	9	9	9	10	34					W	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
SEP 2016

SPEED [km/h]	WIND DIRECTION															TOTAL	PCT														
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	NNW	NW																
< .5																														7	1
1- 5	8		6	4	3	7	9	15	13	11	8	9	4	4	7	6	10	124	17												
6- 11	21	32	8	7	4	5	27	26	31	34	29	44	47	24	17	18	374	52													
12- 19	33	22	4	4	1	8	1	4	10	5	6	15	45	9	9	20	196	27													
20- 28	9	4	0	0	0	0	0	0	0	0	0	1	3	0	0	1	18	3													
29- 38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0													
TOTAL	72	64	16	14	12	22	43	43	52	47	44	64	99	40	32	49	720	100													
PERCENT	10	9	2	2	2	3	6	6	7	7	6	9	14	6	4	7															
AVERAGE	14	11	8	9	6	9	7	7	8	8	9	10	12	10	9	10															

PRECIPITATION [mm]
 Lafarge Canada Inc.
 Stoney Trail 1
 STATION 620
 SEP 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	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	.2	0	0	0	0	0	0	0	0	2.7	1.1	0	0	0	0	0	0	0	0	0	0	4.1
3	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	.5
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	.8	.2	0	.5	0	0	0	0	1.6
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	2.9	.4	1.8	.3	0	0	0	0	0	0	0	0	5.4
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	.6	1.3	1.9
11	.6	1.7	.7	.7	1.4	.8	.3	0	0	0	0	0	0	.2	0	.3	.2	0	0	0	0	0	.2	0	0	7.5
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	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
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1.2	1.3	1.4	.5	.4	.9	.4	.6	0	0	0	0	0	0	0	0	6.9
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	.2	0	.3	.4	0	1.3
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	.3
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
TOTL	.7	1.7	.9	.7	1.6	.8	.4	.2	1.2	1.4	1.4	.5	.5	6.8	2.4	2.7	1.5	.3	.2	.5	.4	1.2	1.5	0	0	
MAX	.6	1.7	.7	.7	1.4	.8	.3	0	1.2	1.3	1.4	.5	.4	2.9	1.1	1.8	.8	.2	.2	.5	.3	.6	1.3	0	0	

Percent of time operational: 100 M - missing data
 Monthly Total: 29 Maximum in an hour: 2.9
 Year to Date: 417

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

Percent of time operational: 100
Monthly Average: 12 Monthly Maximum: 27 Monthly Minimum: 1 M - missing data