



MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

May 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% | 27.1 | 37.9 | 1 |
| TSP $\mu\text{g}/\text{m}^3$ | 100% | 69.6 | 98.3 | 0 |
| Wind Speed km/h | 100% | 12 | 30 | - |
| Precipitation mm | 100% | - | 3.8 | - |
| Trailer Temperature | 100% | 12 | 31 | - |

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

COMMENTS:

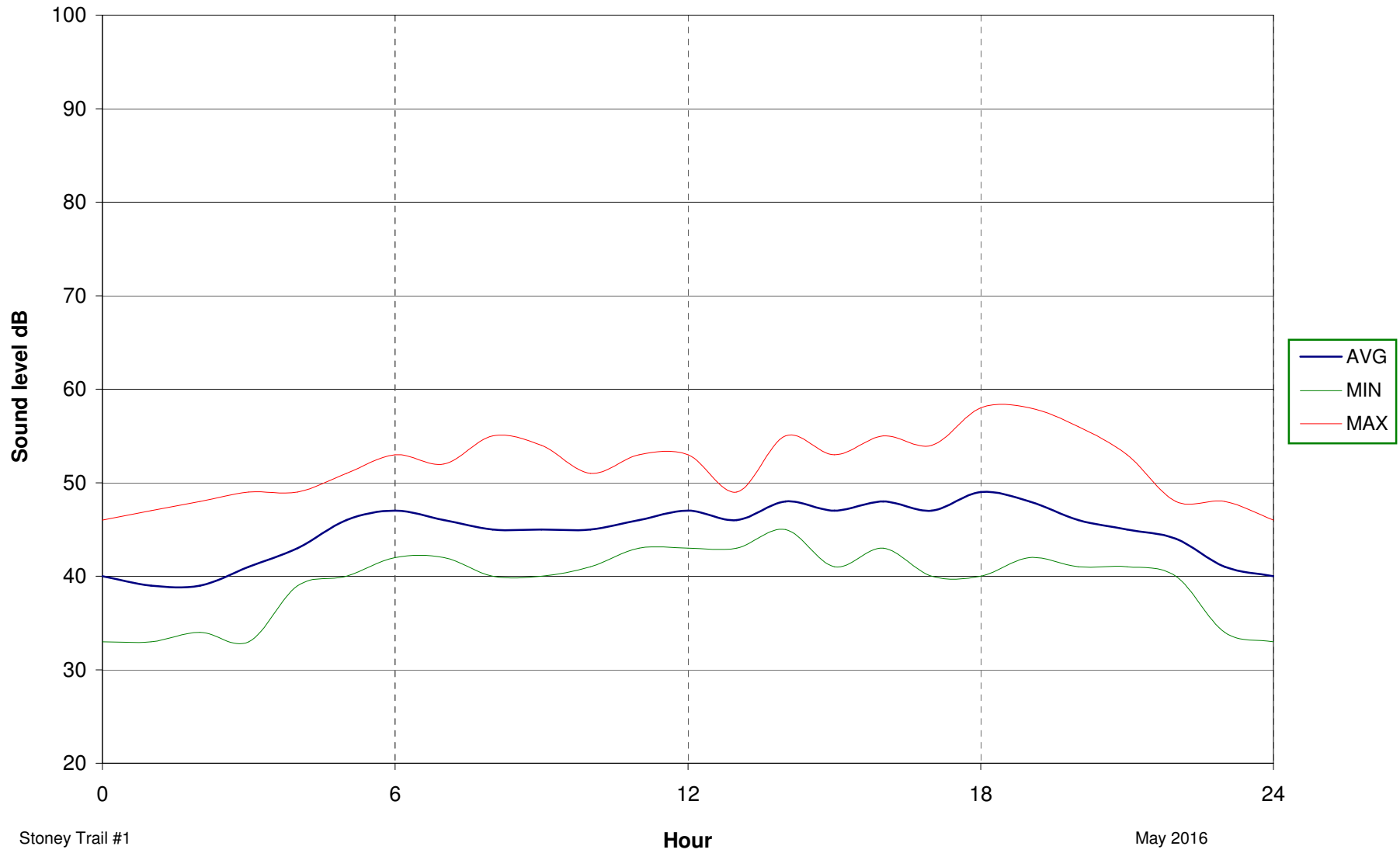
The regulation for industrial areas is 85 dB A any time.

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

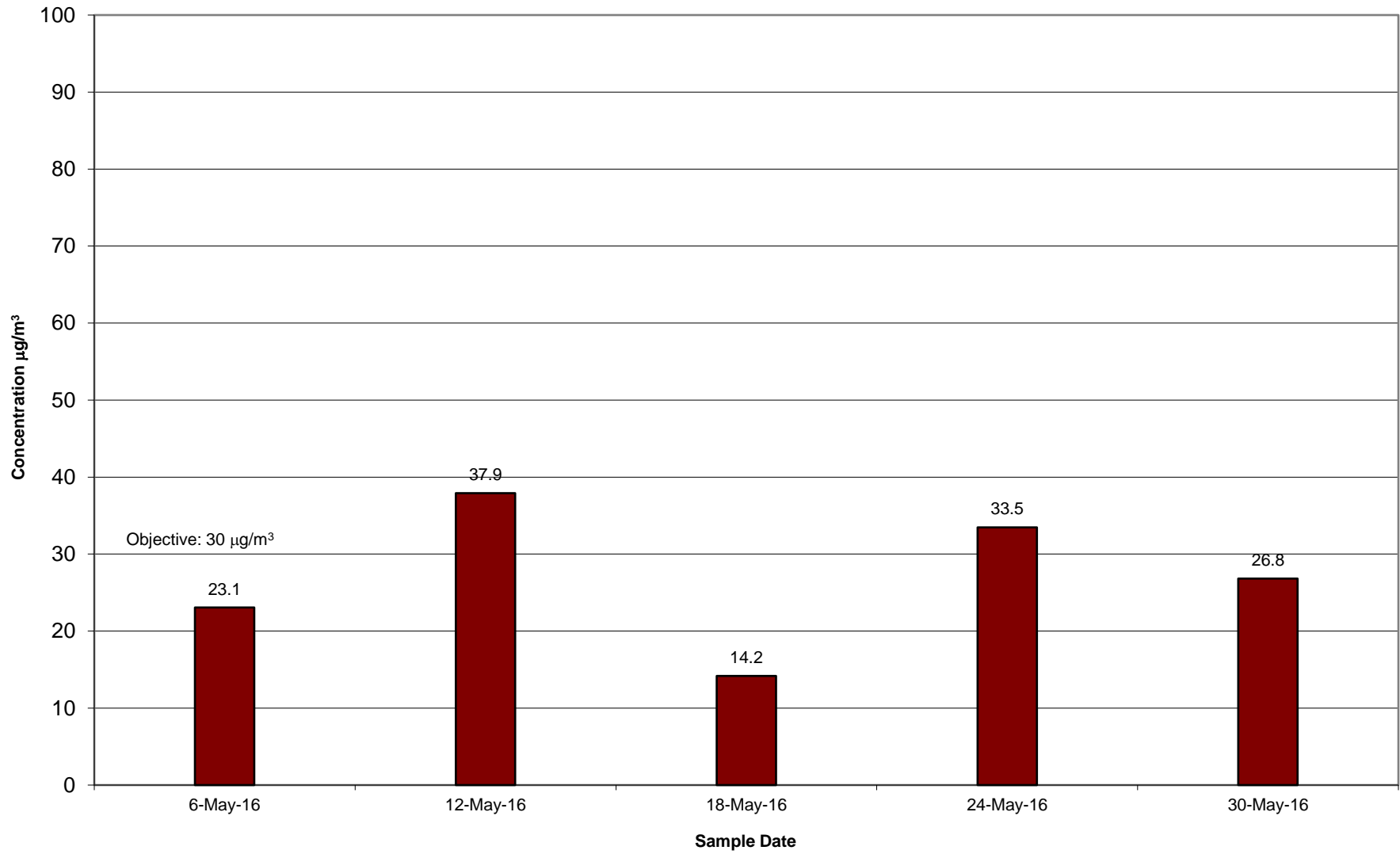


Stoney Trail #1

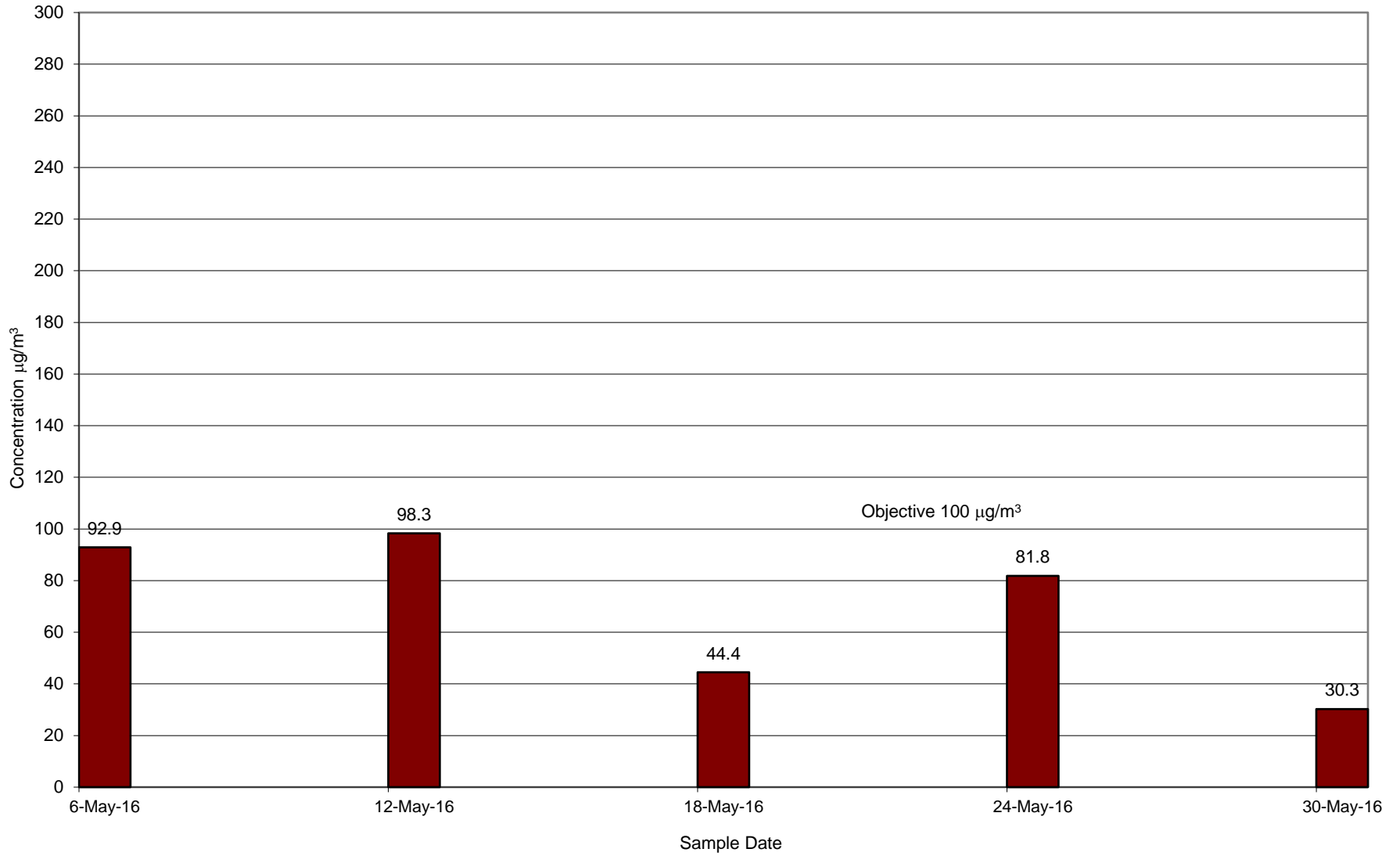
Hour

May 2016

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

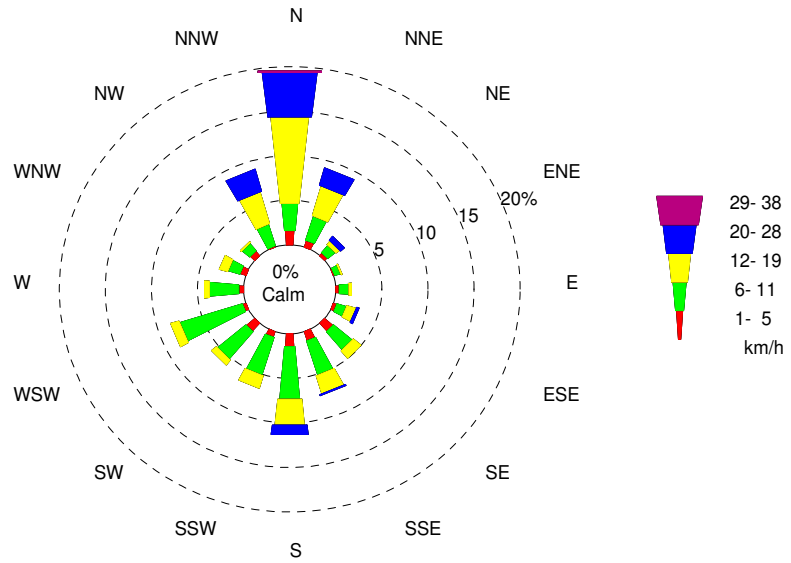


TSP at BLV Group Stoney Trail #1 May 2016



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

MEAN
SPEED 10 11 11 11 11 10 11 12 12 13 13 14 14 13 13 12 12 12 11 11 11 10 12 30 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
MAY 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 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 0 |
| 1- 5 | 12 | 6 | 3 | 1 | 3 | 3 | 9 | 8 | 11 | 5 | 9 | 3 | 4 | 5 | 5 | 1 | 88 | 12 | | | | | | | | |
| 6- 11 | 23 | 21 | 8 | 5 | 8 | 8 | 20 | 30 | 44 | 33 | 30 | 53 | 24 | 10 | 8 | 19 | 344 | 46 | | | | | | | | |
| 12- 19 | 73 | 26 | 4 | 1 | 2 | 8 | 8 | 16 | 22 | 11 | 5 | 7 | 4 | 7 | 1 | 28 | 223 | 30 | | | | | | | | |
| 20- 28 | 38 | 15 | 4 | 0 | 0 | 2 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 87 | 12 | | | | | | | | |
| 29- 38 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | | | | | | | | |
| TOTAL | 147 | 68 | 19 | 7 | 13 | 21 | 37 | 55 | 85 | 49 | 44 | 63 | 32 | 22 | 14 | 67 | 744 | 100 | | | | | | | | |
| PERCENT | 20 | 9 | 3 | 1 | 2 | 3 | 5 | 7 | 11 | 7 | 6 | 8 | 4 | 3 | 2 | 9 | | | | | | | | | | |
| AVERAGE | 16 | 14 | 13 | 7 | 8 | 12 | 9 | 10 | 11 | 9 | 8 | 9 | 9 | 9 | 7 | 15 | 12 | | | | | | | | | |

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

Percent of time operational: 100
Monthly Average: 12 Monthly Maximum: 31 Monthly Minimum: -2 M - missing data