OPERATING PERMIT APPLICATION

MONTANA LIMESTONE RESOURCES PROJECT

APPENDIX A-1
EXISTING ENVIRONMENT BASELINE REPORTS
AIR QUALITY REPORT

Prepared for:

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Prepared by:

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May, 2015

TABLE OF CONTENTS

Page

1.0 INTRODUCTION A-1-1

Appendix A-1 Existing Environment Baseline Reports – Air Quality Report:
Ambient Monitoring Program Quarterly Data Report – Third Quarter 2013
Ambient Monitoring Program Quarterly Data Report – Fourth Quarter 2013
Ambient Monitoring Program Quarterly Data Report – First Quarter 2014
Ambient Monitoring Program Quarterly Data Report – Second Quarter 2014
Ambient Monitoring Program Quarterly Data Report – Third Quarter 2014
Ambient Monitoring Program Quarterly Data Report – Fourth Quarter 2014

1.0 INTRODUCTION

Baseline air quality and meteorological monitoring is being conducted by Bison Engineering, Inc. in the vicinity of the proposed Montana Limestone Resources (MLR) facility near Drummond, Montana. The following ambient air quality monitoring reports have been submitted to the Montana Department of Environmental Quality – Air Resources Management Bureau, but are included in this submittal as Appendix A-1 in support of future Montana Environmental Policy Act (MEPA) document preparation. A minimum of one year of data has been collected for each monitor. Because the various monitors were installed on different dates in 2013 and 2014, six quarters of ambient air quality monitoring reports are required to capture a year's worth of data for all the monitors. Table A-1-1 below lists the parameters being monitored, including start and end dates when applicable. Section 2.1 of the operating permit application (Air Quality) contains tables summarizing the contents of the six ambient air quality monitoring reports of this appendix.

Table A-1-1
MLR Baseline Air Quality / Meteorology Monitoring Parameters

Site Location	Parameter(s)	Start Date	End Date (as of May 2015)
MLR Meteorological Tower	Wind direction, 19 meters Wind direction sigma, 19 meters Wind speed, 19 meters Temperature, 2 meters and 19 meters Delta temperature (19 meters – 2 meters) Solar radiation, 3 meters	09/24/2013	Ongoing
	Relative humidity, 2 meters	04/10/2014	Ongoing
Particulate Monitors[1]	$PM_{2.5}$ and PM_{10}	08/17/2013	08/30/2014
Sulfur Dioxide Shelter	Sulfur dioxide	01/09/2014	2/5/2015
	Barometric pressure	02/03/2014	Ongoing
	Precipitation	05/22/2014	Ongoing

$PM_{2.5}$ denotes particulate matter smaller than 2.5 microns in diameter
PM_{10} denotes particulate matter smaller than 10 microns in diameter

BISON
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February 19, 2014

Mr. Hoby Rash
Air, Energy & Pollution Prevention Bureau
Montana Dept. of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Rash:

Bison Engineering Inc., (Bison) is submitting for your review the third and fourth quarter ambient air monitoring reports for the newly constructed PM_{10}, $PM_{2.5}$ and meteorological monitoring stations for Montana Limestone Resources. The monitoring is taking place just southwest of Drummond, Montana. Monitoring for these parameters started late in the third quarter 2013. An SO_2 monitoring station has also just been constructed and started operations in January 2014. The next quarterly report (first quarter 2014) will contain the SO_2 data as well.

Please contact me with any questions or comments on this report at 406-442-5768.

Sincerely,
BISON ENGINEERING, INC.

Chris Hiltunen, P.E.
Project Engineer

Enclosure

cc: Tad Dale – Montana Resources
John Gage, Montana Limestone Resources

MONTANA LIMESTONE RESOURCES, LLP
DRUMMOND, MONTANA
Ambient Monitoring Program
Quarterly Data Report
Third Quarter 2013

Prepared for:

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Prepared by:

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November 15, 2013

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan*, the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume II, Ambient Air Specific Methods (April 1994)*, and EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Part 1, Ambient Air Quality Monitoring Program Quality System Development (March 1998).*

Preparer: Jeffrey S. Bell

Signature: Jeffrey S Bell

Title: Senior Field Technician

Date: 11/08/13

Reviewer: Rebecca L. Picchioni, P.E.

Signature: Rebecca Picchioni

Title: Project Engineer

Date: 11/15/13

TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 PRECISION CHECK DATA 6

4.0 CALIBRATION DATA 8

5.0 PERFORMANCE AUDIT DATA 14

6.0 DATA COMPLETENESS 15

7.0 MONITORING DATA 18

LIST OF TABLES

Table 1. $PM_{2.5}$ Precision Check Data 7
Table 2. $PM_{2.5}$ Sampler Calibration (Reporting) 10
Table 3. PM_{10} Sampler Calibration 11
Table 4. $PM_{2.5}$ Sampler Calibration (Duplicate) 12
Table 5. Meteorological Station Calibration 13
Table 6. PM_{10} Data Completeness 16
Table 7. $PM_{2.5}$ Data Completeness 16
Table 8. Monthly Meteorological Data Completeness 17
Table 9. Quarterly Meteorological Data Completeness 17
Table 10. Missing Data Codes 19
Table 11. PM_{10} Sampling Data – $\mu g/m^3$ 20
Table 12. $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting) 21
Table 13. $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate) 22
Table 14. Monthly Wind Rose Summary, MLR Met Site 23
Table 15. Quarterly Wind Rose Summary, MLR Met Site 24

LIST OF FIGURES

Figure 1. MLR Monitoring Site Locations 2
Figure 2. Monthly Wind Rose, MLR Met Site 25
Figure 3. Quarterly Wind Rose, MLR Met Site 26

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Report

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) established ambient monitoring sites to measure wind speed, wind direction, standard deviation of wind direction, temperature at 19 meters and 2 meters, delta temperature, solar radiation, particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns (micrometers) or less (PM_{10}), in the Drummond area. The particulate monitoring system was installed in August 2013 and the meteorological monitoring system was installed in September 2013. The sites are operated by Bison Engineering, Inc., of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the third quarter (July through September) of 2013. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations, and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. MLR Monitoring Site Locations

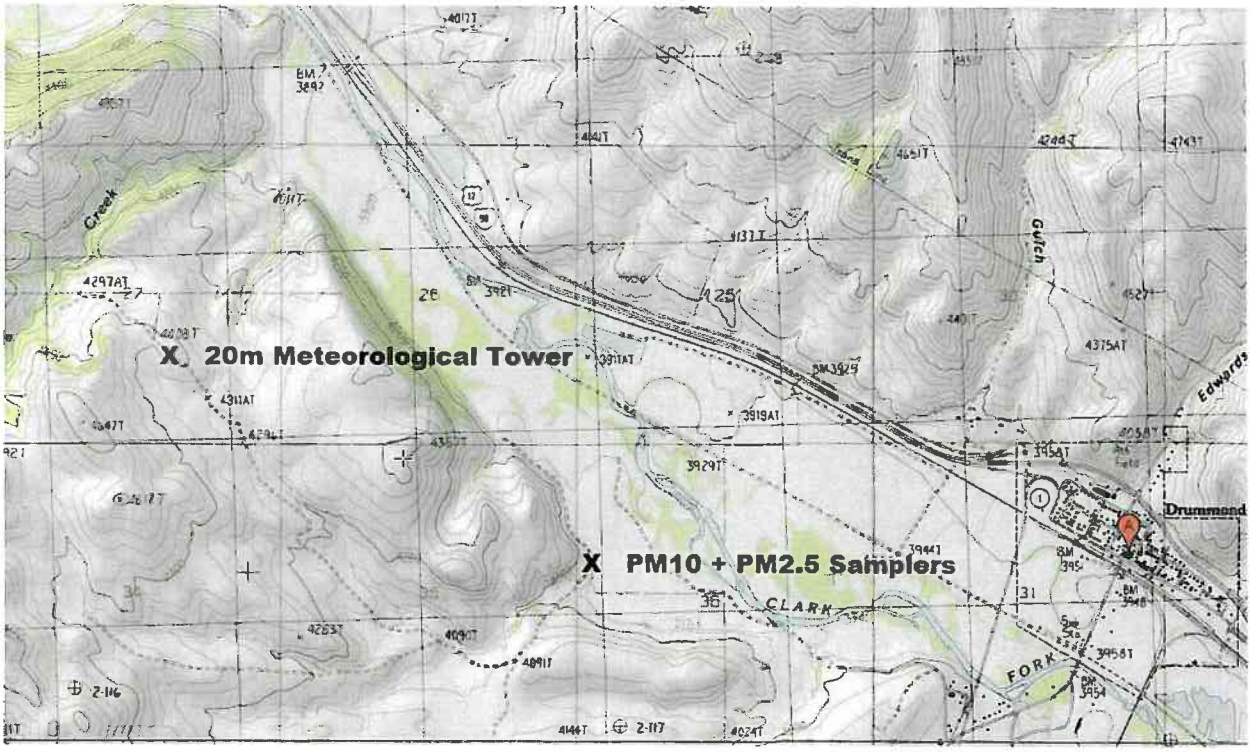


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. In total, the installation of the tower and calibration of the meteorological equipment required about three weeks to complete. All meteorological instruments were in full operation and producing valid data by September 23, 2013. The meteorological station is located on a ridge approximately 0.5 mile west of the proposed mine site.

The $PM_{2.5}$ and PM_{10} sampling is accomplished with BGI Model PQ200 battery-powered low volume samplers. The $PM_{2.5}$ samplers have Very Sharp Cut Cyclone (VSCC) separators. The sample filters were submitted to the Bison-Billings Office for gravimetric analysis. All $PM_{2.5}$ and PM_{10} samplers were in full operation and producing valid data by August 16, 2013. This monitoring procedure is similar to that employed at other State and Local Air Monitoring Stations (SLAMS). The particulate samplers are located approximately 0.5 mile east of the proposed mine site.

The particulate monitoring site includes:

- **Sampler MLR-1 ($PM_{2.5}$ Reporting)**, which operates on a one-day-in-three schedule;
- **Sampler MLR-2 (PM_{10} Reporting)**, which operates on a one-day-in-three schedule; and
- **Sampler MLR-3 ($PM_{2.5}$ Duplicate)**, which operates on a one-day-in-six schedule.

Collocated results from the two $PM_{2.5}$ samplers are used to determine sampling precision statistics.

All instruments operated with no problems during the quarter.

Because of site startup occurring late in the third quarter, no performance audits were conducted within the quarter. Performance audits were conducted on all instruments on November 7, 2013. The audits produced results within the recommended tolerance limits for all instrumentation. Those results are presented in Appendix B of the fourth quarter report.

2.1 Summary of Method for $PM_{2.5}$ and PM_{10}

The "method" for $PM_{2.5}$ and PM_{10} consists of:

- A $PM_{2.5}$ and PM_{10} sampler or analyzer designed, built and sold by a particular manufacturer to meet the design specifications found at 40 CFR Part 50, Appendix L;

- An operation or instruction manual provided by the instrument manufacturer that describes the proper use and operation of the sampler or analyzer; and
- The other operational and quality assurance requirements necessary to obtain reliable $PM_{2.5}$ and PM_{10} concentration measurements. These performance specifications are found at 40 CFR Part 53, Appendix E. Bison also prepared a Quality Assurance Project Plan for the operation of the samplers.

Bison used three BGI Incorporated (BGI) PQ200 federal reference method (FRM) samplers. The two $PM_{2.5}$ samplers include the additional Very Sharp Cut Cyclone (VSCC) separators. The PM_{10} sampler uses the (BGI WE10) WINS Eliminator to convert the $PM_{2.5}$ sampler to a PM_{10} FRM. These samplers have been designated by the U.S. EPA as an equivalent method for the determination of $PM_{2.5}$ and PM_{10} in ambient air. Designation No. EQPM-0202-142 has been assigned to this sampling method in the Code of Federal Regulations. This sampler is specifically designed to comply with the requirements of the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (40 CFR 50) and to facilitate sampling as specified in that document.

The BGI PQ200-VSCC is specifically designed as an equivalent method for the measurement of $PM_{2.5}$ and PM_{10}. The design specifications include:

- Operation with firmware version 3.88, 3.91, 3.89R, or 3.91R, for 24-hour sample periods;
- Operation in accordance with the Model PQ200-VSCC Instruction Manual and VSCC supplemental manual;
- Operation with sample collection filters specified in 40 CFR Part 50, Appendix L.
- Operation with or without the optional solar power supply or the optional dual filter cassette and associated lower impactor housing, where the upper filter is used for $PM_{2.5}$.

2.2 Principle of Operation

The PM_{10} inlet, sample tube, VSCC, filter holder, and filter cassette are design-specified. Mechanical drawings have been made publicly available by EPA. The remainder of the reference method sampler is performance-specified and requires that:

- The sampler provides automatic control of the sample flow rate to ± 5% of 16.67 lpm.

- The sampler monitors the operational parameters and logs the ambient temperature, filter temperature, ambient barometric pressure, and system pressure every five minutes during the 24-hour sampling event.

- The logged information is available to the sampler operator during and at the end of each sample event in both visual and electronic data form.

- The microprocessor provides a digital display which updates continuously while an RS232 data output port provides the capability for logged data to be electronically output from the sampler.

In the Model PQ200-VSCC, the fixed flow rate of 16.67 lpm is maintained by a microprocessor. Temperature and pressure data are collected and corrections are made for the differences of temperature and pressure between the ambient and sampler conditions. The barometric pressure, meter pressure drop, ambient temperature, filter temperature, and meter temperature are measured and reported by the PQ200-VSCC control system. The vacuum pump and volumetric flow rate control system, flow rate measurement device, ambient and filter temperature monitoring system, timer, outdoor enclosure, and microprocessor monitoring control capability meet design and functional performance requirements as specified in Appendix L.

The air inlet which removes particulate matter larger than 10 microns, the downtube which carries the sample stream from the inlet to the secondary particle size separator (VSCC), the VSCC itself, the filter cassette, and the internal configuration of the filter holder assembly are specified explicitly by EPA in Appendix L of 40 CFR 50. The EPA specifications include design figures, and associated mechanical dimensions, tolerances, materials, surface finishes, assembly instructions and other necessary specifications.

The basic measurement approach for the EPA design is similar to that of the dichotomous sampler that has been used for over 20 years. Large particles are eliminated by gravity before reaching the inlet of this low-flow-volume sampler. The omni-directional inlet acts as an aerodynamic device that does not discriminate ambient PM_{10} under varying wind and climate conditions and provides a clean aerodynamic cut-point for particles of greater than 10 microns that enter the system.

The air sample flows through the PM_{10} inlet and then through a 12-inch length of tubing (the downtube). The downtube supports the PM_{10} inlet above the sampler shelter and transports the sample stream to the $PM_{2.5}$ particle size separator (the VSCC). This VSCC operates at a volumetric sample rate of 16.67 lpm and has a sharp aerodynamic cut-point at 2.5 micrometers. The particles greater than $PM_{2.5}$ are removed to the grit pot on the side of the VSCC. The $PM_{2.5}$ sample is ducted through the cyclone separator to the filter holder and collected on the 47 mm PTFE filter media.

Prior to transport to the field for sample collection, the filters are equilibrated to constant temperature and relative humidity conditions and are weighed in a laboratory setting. After sampling, the filters are again equilibrated to essentially the same constant temperature and humidity conditions and again weighed in the laboratory. The concentration is determined by dividing the weight difference of the filter before and after the sample is collected by the volume of air that passed through the sampler during the sample collection period.

3.0 PRECISION CHECK DATA

Precision of the $PM_{2.5}$ data is evaluated by operating collocated samplers at a monitoring site. The differences between the paired measurements represent the precision of the $PM_{2.5}$ data.

The precision data from the two collocated $PM_{2.5}$ samplers (MLR-1 and MLR-3) are given in Table 1. In accordance with EPA's policy for evaluating $PM_{2.5}$ precision data, only $PM_{2.5}$ concentrations of at least 3 $\mu g/m^3$ are included in the precision calculations. In addition, the quarterly summary statistics, as described in EPA's "Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A" are presented at the end of each table.

Table 1. $PM_{2.5}$ Precision Check Data

Third Quarter 2013			
Date	Reporting Concentration** $\mu g/m^3$	Duplicate Concentration** $\mu g/m^3$	Relative Percent Difference
8/20	20	20	0.000
8/26	11	12	-8.696
9/1	13	10	26.087
9/7	7	7	0.000
9/13	5	6	-18.182
9/19	2	3	-40.000
9/25	1	1	0.000

Third Quarter Summary Statistics*	
n =	5
$\Sigma\lvert d\rvert$ =	52.964
Σd =	-0.791
Σd^2 =	1086.722
CV (%) =	22.6
25th Percentile =	-8.696
75th Percentile =	0.000

*Only sampling runs where both of the $PM_{2.5}$ concentrations were at least 3 $\mu g/m^3$ were included in the calculation of the quarterly summary statistics.
**See Table 10 for an explanation of the missing data codes.

4.0 CALIBRATION DATA

4.1 Particulate Samplers

Calibration checks / adjustments to the particulate samplers are performed as follows:

- A multipoint flow calibration is performed at the time of installation, at least once per quarter, and upon failure of a single-point flow verification;
- A single-point flow verification is performed at least once per month;
- A multipoint temperature sensor verification/calibration is performed at least once per year, and upon failure of a single-point verification;
- A single-point verification of the temperature sensors is performed at least once per month;
- A single-point verification of the pressure sensor is performed at least once per month;
- Additional calibration checks/adjustments are also performed whenever there is any indication that the system is inaccurate or operating improperly, and whenever adjustments are made to the system that could affect its calibration.

Additionally, the integrity of the sampling train is verified prior to each sampling run by using the sampler internal leak test function. During this check, the pressure drop must be less than five centimeters of water over two minutes.

The results of the multipoint flow calibrations of the $PM_{2.5}$ and PM_{10} samplers conducted during the third quarter are presented in Tables 2 through 4. Results of single-point flow, temperature and pressure verifications are documented on the "MLR Particulate Monitoring Field Data Form" that is completed by the site operator prior to each sampling event. Because the BGI Model PQ200 samplers have a computer processing unit (cpu), the only requirement for calibration is to set the flow rate in the samplers at their design value of 16.67 LPM. All flow, temperature and pressure checks of the particulate samplers were performed using a certified BGI DeltaCal unit.

4.2 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter:

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motors;

- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;
- The solar radiation sensor is certified by the manufacturer and is verified by taking collocated measurements with a certified sensor.

Results of the meteorological sensor calibrations performed during the third quarter are shown in Table 5.

Table 2. $PM_{2.5}$ Sampler Calibration (Reporting)

CALIBRATION OF BGI SAMPLER S/N 1037 (MLR-1) AT DRUMMOND
Performed 08-16-2013 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW SAMPLER INSTALLATION

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	19.50	18.40
16.7 LPM	17.20	16.70
15.3 LPM	14.00	15.30

FLOW VERIFY

Delta Cal = 16.68 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 21.1 deg C

Sampler = 21.0 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 20.0 deg C

Sampler = 20.5 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 656.5 mmHg

Sampler = 656 mmHg No adjustment

LEAK CHECK

Initial 99cm
Final 96 cm Pass

Signature of Calibrator Steven R Heck

Table 3. PM_{10} Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1548 (MLR-2) AT DRUMMOND
Performed 08-16-2013 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW SAMPLER INSTALLATION

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	19.80	18.40
16.7 LPM	17.60	16.70
15.3 LPM	15.50	15.30

FLOW VERIFY

Delta Cal = 16.68 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 22.1 deg C

Sampler = 22.0 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 23.0 deg C

Sampler = 23.5 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 656.5 mmHg

Sampler = 656 mmHg No adjustment

LEAK CHECK

Initial 100cm
Final 98 cm Pass

Signature of Calibrator Steven R. Heck

Table 4. $PM_{2.5}$ Sampler Calibration (Duplicate)

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-3) AT DRUMMOND
Performed 08-16-2013 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW SAMPLER INSTALLATION

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.90	18.40
16.7 LPM	17.77	16.70
15.3 LPM	15.75	15.30

FLOW VERIFY

Delta Cal = 16.69 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 22.8 deg C

Sampler = 22.2 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 24.0 deg C

Sampler = 23.5 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 657 mmHg

Sampler = 657 mmHg No adjustment

LEAK CHECK

Initial 99cm
Final 98 cm Pass

Signature of Calibrator Steven R. Heck

Table 5. Meteorological Station Calibration

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Startup Calibration Results

Client: Montana Limestone Resources
Site: Drummond
Date: September 23, 2013
Performed By: Steve Hack, Bison Engineering Inc.

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (20 meters), N1889C (2 meters)
Audit Device: Control Company - digital thermometer Model 4000
Serial Number : 91255639
Last certified: 11/20/2012

Temperature bath results

Audit Value °C	20m DAS Value °C	20m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	20m - 2m DAS Diff. °C
0.1	0.18	0.08	0.19	0.09	-0.01
18.0	17.94	-0.06	17.95	-0.05	-0.01
36.5	36.64	0.14	36.64	0.14	0.00

Wind Direction

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Crossarm orientation (from solar sighting): 90.3 / 270.3
Site latitude and longitude for solar sighting
N 46.7 deg, W 113.1 deg
Calculated sun position at 1530 MST
153.4 deg.
Sensor response aligned with crossarm: 90.9

Linearity Audit Device: Climatronics 101968, SN 70

Threshold Torque: 0.04 oz.-in.
(Waters Model 366-1 torque watch)

Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
270	269.2	269.3	-0.8	-0.7
300	299.4	299.5	-0.6	-0.5
330	329.7	329.3	-0.3	-0.7
0	0.1	0.1	0.1	0.1
30	30.5	30.2	0.5	0.2
60	60.9	61.1	0.9	1.1
90	91.2	90.4	1.2	0.4
120	119.8	120.2	-0.2	0.2
150	150.1	149.7	0.1	-0.3
180	179.5	179.5	-0.5	-0.5
210	209.5	209.6	-0.5	-0.4
240	239.6	239.6	-0.4	-0.4
		Max Diff	**1.2**	**1.1**

Wind Speed

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Synchronous motor checks

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.13	-0.09
300	6.66	6.62	-0.04
600	13.09	13.32	0.23

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley August 2013)

Audit Value: 759 watts/m^2
Station Value: 752 watts/m^2
Diff.: -0.01%

Audit Value: 231 watts/m^2
Station Value: 225 watts/m^2
Diff.: -2.6%

Signature of Calibrator : Steven R Hack

5.0 PERFORMANCE AUDIT DATA

Because of site startup occurring late in the third quarter, no performance audits were conducted within the quarter. Performance audits were conducted on all instruments on November 7, 2013. The audits produced results within the recommended tolerance limits for all instrumentation. Those results are presented in Appendix B of the fourth quarter report.

6.0 DATA COMPLETENESS

The PM_{10} and $PM_{2.5}$ percentages of data recovery during the third quarter of 2013 are given in Tables 6 and 7. In these tables, the number of possible data values during each month of the third quarter is given, together with the number of valid readings. The percentage data recovery is computed by dividing the number of valid readings by the number of possible readings and multiplying the result by 100.

During the third quarter of 2013, the net percentage data recovery was 100.00 percent for the PM_{10} reporting sampler, 100.00 percent for the $PM_{2.5}$ reporting sampler, and 100.00 percent for the $PM_{2.5}$ duplicate sampler at Drummond.

The meteorological percentages of data recovery achieved during the third quarter of 2013 are given in Tables 8 and 9. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as calibrations, performance audits, and maintenance on the sensors). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery.

During the third quarter, the net percentage data recovery was 100.00 percent for all meteorological parameters at Drummond.

Table 6. PM_{10} Data Completeness

Third Quarter 2013			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
PM_{10} Sampler (MLR-2)			
July	NA	NA	NA
August	5	5	100.00
September	10	10	100.00
Third Quarter	15	15	100.00

Table 7. $PM_{2.5}$ Data Completeness

Third Quarter 2013			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
Reporting $PM_{2.5}$ Sampler (MLR-1)			
July	NA	NA	NA
August	5	5	100.00
September	10	10	100.00
Third Quarter	15	15	100.00
Duplicate $PM_{2.5}$ Sampler (MLR-3)			
July	NA	NA	NA
August	2	2	100.00
September	5	5	100.00
Third Quarter	7	7	100.00

Table 8. Monthly Meteorological Data Completeness

September 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR - Met					
Wind Speed	177	175	98.9	2	100.0
Wind Direction	177	175	98.9	2	100.0
Standard Deviation	177	175	98.9	2	100.0
Temperature 19 Meters	177	175	98.9	2	100.0
Temperature 2 Meters	177	175	98.9	2	100.0
Temperature Delta T	177	175	98.9	2	100.0
Solar Radiation	177	175	98.9	2	100.0
Total	1,239	1,225	98.9	14	100.0

Table 9. Quarterly Meteorological Data Completeness

Third Quarter 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR - Met					
Wind Speed	177	175	98.9	2	100.0
Wind Direction	177	175	98.9	2	100.0
Standard Deviation	177	175	98.9	2	100.0
Temperature 19 Meters	177	175	98.9	2	100.0
Temperature 2 Meters	177	175	98.9	2	100.0
Temperature Delta T	177	175	98.9	2	100.0
Solar Radiation	177	175	98.9	2	100.0
Total	1,239	1,225	98.9	14	100.0

7.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 10.

The $PM_{2.5}$ and PM_{10} data collected during third quarter at the site are given in Tables 11 through 13. These tables give the 24-hour $PM_{2.5}$ and PM_{10} concentrations measured (referenced to local temperature and pressure), together with the first- and second-highest 24-hour $PM_{2.5}$ and PM_{10} concentrations and average $PM_{2.5}$ and PM_{10} concentrations during each month, quarter, and the year to date.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 14 and 15. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 and 3. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions. It should be recognized that these wind roses are based on only 175 hours of data at the end of the quarter.

Table 10. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 11. PM_{10} Sampling Data – $\mu g/m^3$

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									7				1
2													2
3													3
4									17				4
5													5
6													6
7									12				7
8													8
9													9
10									6				10
11													11
12													12
13									10				13
14													14
15													15
16									10				16
17								18					17
18													18
19									4				19
20								26					20
21													21
22									6				22
23								24					23
24													24
25									2				25
26								16					26
27													27
28									3				28
29								17					29
30													30
31													31
Monthly Summaries for Site													
Max								26	17				Max
2nd								24	12				2nd
Avg								20.2	7.7				Avg
Count								5	10				Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			26		26
2nd			24		24
Avg			11.9		11.9
Count			15		15

* See Table 10 for an explanation of the missing data codes.

Table 12. $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting)

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									13				1
2													2
3													3
4									13				4
5													5
6													6
7									7				7
8													8
9													9
10									4				10
11													11
12													12
13									5				13
14													14
15													15
16									4				16
17								13					17
18													18
19									2				19
20								20					20
21													21
22									3				22
23								18					23
24													24
25									1				25
26								11					26
27													27
28									2				28
29								12					29
30													30
31													31
Monthly Summaries for Site													
Max								20	13				Max
2nd								18	13				2nd
Avg								14.8	5.4				Avg
Count								5	10				Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			20		20
2nd			18		18
Avg			8.5		8.5
Count			15		15

* See Table 10 for an explanation of the missing data codes.

Table 13. $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate)

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									10				1
2													2
3													3
4													4
5													5
6													6
7									7				7
8													8
9													9
10													10
11													11
12													12
13									6				13
14													14
15													15
16													16
17													17
18													18
19									3				19
20								20					20
21													21
22													22
23													23
24													24
25									1				25
26								12					26
27													27
28													28
29													29
30													30
31													31
Monthly Summaries for Site													
Max								20	10				Max
2nd								12	7				2nd
Avg								16.0	5.4				Avg
Count								2	5				Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			20		20
2nd			12		12
Avg			8.4		8.4
Count			7		7

* See Table 10 for an explanation of the missing data codes.

Table 14. Monthly Wind Rose Summary, MLR Met Site

September 2013																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.6	1.7	0.6	0.0	0.0	2.9	1.7	2.3	1.1	0.6	2.9	0.6	0.0	0.6	1.1	0.0	16.6
1.1 - 2.0	0.0	1.7	1.7	0.6	1.1	0.6	4.6	2.3	2.3	2.3	0.0	0.6	1.1	1.7	2.3	2.3	25.1
2.1 - 3.0	1.1	0.6	0.0	0.0	0.0	0.0	1.1	1.7	1.7	0.6	0.0	0.0	1.7	3.4	2.9	4.0	18.9
3.1 - 4.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	0.0	0.6	2.3	2.3	1.7	1.7	12.0
4.1 - 5.0	0.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.6	2.3	0.6	0.6	0.0	0.6	0.6	0.0	6.9
5.1 - 6.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	1.1	0.6	1.7	1.1	0.0	8.6
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.3	0.6	0.0	0.0	0.0	0.0	5.7
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	2.3	0.0	0.0	1.1	0.0	5.1
9.1 - 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	0.0	0.0	0.0	0.0	0.0
10.1 - 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	0.0	0.0	0.0	0.0	0.0
11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.3	4.6	4.6	0.6	1.1	3.4	7.4	7.4	6.9	10.9	8.6	7.4	5.7	10.3	10.9	8.0	100.0
Average Speed	2.6	1.7	3.1	1.2	1.6	0.8	1.6	1.8	2.3	4.4	4.4	6.3	3.0	3.1	3.4	2.6	3.1

Table 15. Quarterly Wind Rose Summary, MLR Met Site

Third Quarter 2013																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.6	1.7	0.6	0.0	0.0	2.9	1.7	2.3	1.1	0.6	2.9	0.6	0.0	0.6	1.1	0.0	16.6
1.1 - 2.0	0.0	1.7	1.7	0.6	1.1	0.6	4.6	2.3	2.3	2.3	0.0	0.6	1.1	1.7	2.3	2.3	25.1
2.1 - 3.0	1.1	0.6	0.0	0.0	0.0	0.0	1.1	1.7	1.7	0.6	0.0	0.0	1.7	3.4	2.9	4.0	18.9
3.1 - 4.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	0.0	0.6	2.3	2.3	1.7	1.7	12.0
4.1 - 5.0	0.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.6	2.3	0.6	0.6	0.0	0.6	0.6	0.0	6.9
5.1 - 6.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	1.1	0.6	1.7	1.1	0.0	8.6
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.3	0.6	0.0	0.0	0.0	0.0	5.7
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	2.3	0.0	0.0	1.1	0.0	5.1
9.1 - 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	0.0	0.0	0.0	0.0	0.0
10.1 - 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	0.0	0.0	0.0	0.0	0.0
11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.3	4.6	4.6	0.6	1.1	3.4	7.4	7.4	6.9	10.9	8.6	7.4	5.7	10.3	10.9	8.0	100.0
Average Speed	2.6	1.7	3.1	1.2	1.6	0.8	1.6	1.8	2.3	4.4	4.4	6.3	3.0	3.1	3.4	2.6	3.1

Figure 2. Monthly Wind Rose, MLR Met Site

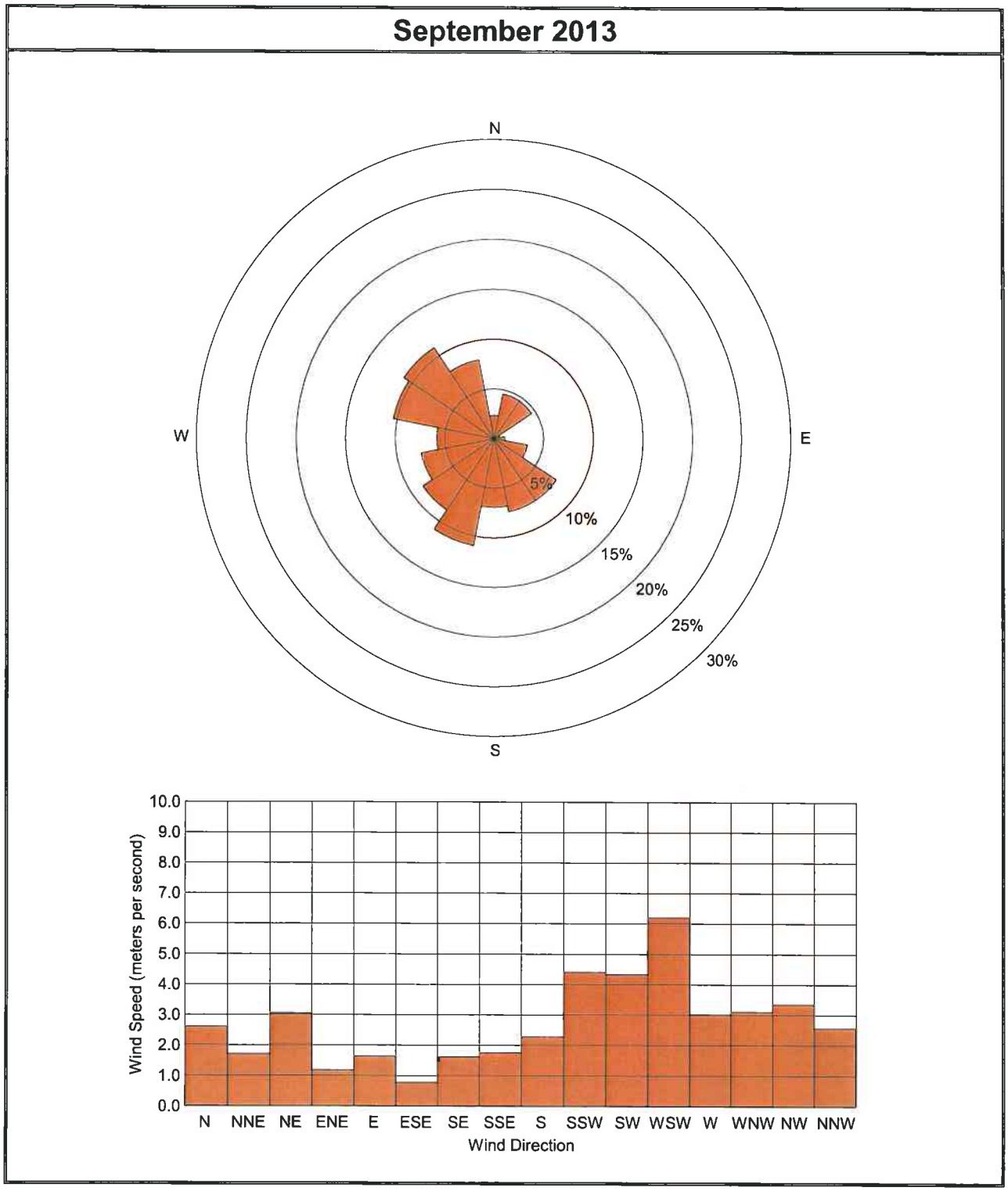
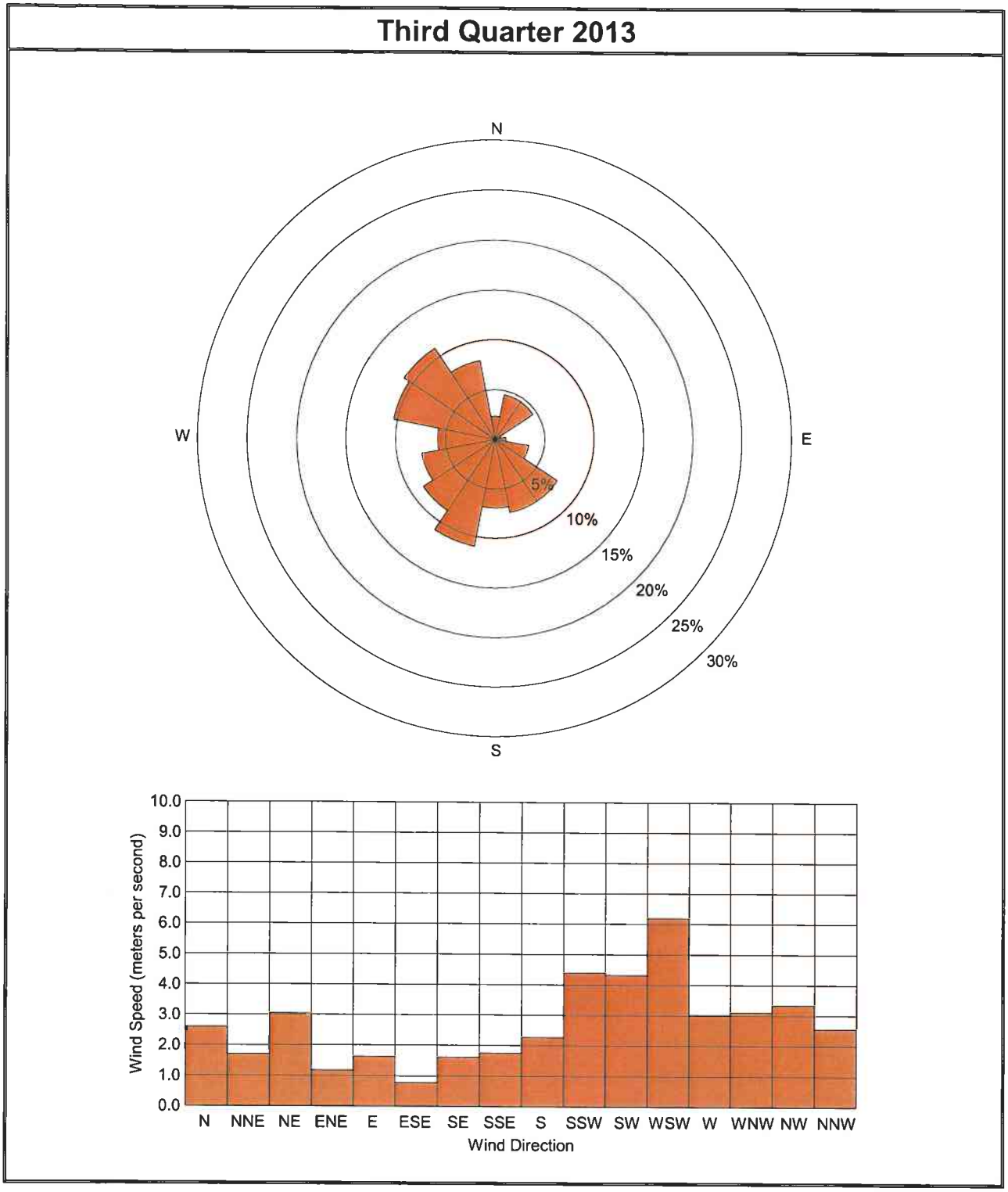


Figure 3. Quarterly Wind Rose, MLR Met Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, THIRD QUARTER 2013

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
September 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																Ca	Ca	5.9	5.7	4.0	3.1	3.7	2.2	1.1	3.7	5.9	1.1
24	1.5	1.2	0.9	1.3	1.2	1.3	0.8	2.3	2.0	1.6	2.6	1.4	1.0	1.6	1.0	0.8	1.1	2.0	2.4	2.0	1.1	1.1	1.9	0.7	1.5	2.6	0.7
25	0.8	1.5	0.9	0.8	0.8	0.6	1.3	1.7	1.6	0.9	0.9	2.0	5.6	6.0	4.1	2.8	2.1	2.6	2.1	3.7	2.6	2.5	3.6	2.9	2.3	6.0	0.6
26	4.5	3.8	3.6	2.4	1.3	1.8	2.2	1.6	0.8	2.0	2.9	4.4	3.8	2.8	4.3	2.6	2.3	2.8	1.3	0.9	1.2	2.1	1.0	1.0	2.4	4.5	0.8
27	0.8	0.6	0.7	0.9	0.8	0.6	0.6	0.4	0.9	1.1	1.3	1.6	5.6	5.6	5.3	4.7	3.5	5.2	3.1	2.8	2.2	2.4	3.7	2.3	2.4	5.6	0.4
28	2.0	2.1	1.8	1.0	1.3	1.0	1.2	1.2	0.9	1.4	4.3	5.4	3.7	8.1	6.6	8.5	6.6	6.1	5.0	4.5	6.7	6.5	6.1	6.3	4.1	8.5	0.9
29	3.6	5.0	1.7	1.5	2.5	3.7	7.3	8.3	2.9	2.7	5.4	8.2	6.2	5.2	5.9	6.9	5.8	4.5	3.4	2.3	2.0	2.3	2.0	1.7	4.2	8.3	1.5
30	2.9	3.9	1.5	2.0	3.5	4.2	9.0	2.6	1.9	3.0	3.2	3.8	9.0	11.6	9.0	8.6	8.4	6.2	2.9	4.0	6.0	6.0	4.3	3.7	5.0	11.6	1.5
Avg	2.3	2.6	1.6	1.4	1.6	1.9	3.2	2.6	1.6	1.8	2.9	3.8	5.0	5.8	5.2	5.0	4.3	4.4	3.2	3.0	3.1	3.3	3.1	2.5	3.1	6.6	0.9
Max	4.5	5.0	3.6	2.4	3.5	4.2	9.0	8.3	2.9	3.0	5.4	8.2	9.0	11.6	9.0	8.6	8.4	6.2	5.7	4.5	6.7	6.5	6.1	6.3	5.0	11.6	1.5
Min	0.8	0.6	0.7	0.8	0.8	0.6	0.6	0.4	0.8	0.9	0.9	1.4	1.0	1.6	1.0	0.8	1.1	2.0	1.3	0.9	1.1	1.1	1.0	0.7	1.5	2.6	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
September 2013

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																Ca	Ca	315	317	296	274	292	289	245	290
24	183	158	173	199	164	199	308	161	348	284	169	148	149	139	134	143	152	92	186	264	128	109	174	144	163
25	215	209	105	154	248	103	196	270	323	117	20	24	54	54	52	333	336	332	310	344	344	332	335	321	348
26	311	335	325	305	177	313	336	329	35	341	336	353	12	359	43	16	2	125	82	326	291	281	192	218	338
27	115	147	228	216	164	174	214	103	15	26	40	33	285	278	284	287	269	290	311	296	280	292	312	309	283
28	334	296	289	293	317	357	44	60	32	53	206	225	262	219	228	207	195	219	218	207	214	213	204	197	242
29	191	185	131	171	175	189	248	309	299	205	201	203	231	240	214	205	214	208	196	161	127	132	126	130	192
30	153	155	127	140	159	194	305	326	304	302	300	289	253	248	246	245	240	258	274	247	236	239	254	270	247
Prev	194	190	169	202	187	190	282	337	348	347	289	311	268	251	225	249	244	257	261	274	251	260	236	232	247

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
September 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
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24	88	35	23	34	40	27	68	12	82	75	8	15	36	15	26	38	44	55	47	64	43	75	16	66	43	88	8
25	42	28	86	26	36	78	52	26	49	39	89	49	16	19	24	63	50	46	38	24	34	39	28	36	42	89	16
26	20	19	21	33	57	20	26	31	31	21	22	19	63	33	23	33	52	15	62	53	19	13	81	67	35	81	13
27	68	68	55	84	46	50	54	53	37	34	36	68	19	22	18	16	22	15	10	14	26	23	7	12	36	84	7
28	18	17	11	29	36	73	58	41	24	42	76	25	40	14	16	9	12	11	11	9	9	11	7	9	25	76	7
29	15	11	34	52	25	42	45	9	24	25	9	9	20	11	15	13	12	10	15	47	38	19	23	26	23	52	9
30	15	10	20	27	14	85	11	53	35	30	21	24	17	10	13	12	11	22	33	11	12	15	24	24	23	85	10
Avg	38	27	36	41	36	54	45	32	40	38	37	30	30	18	19	26	29	23	28	29	24	26	29	36	32	75	9
Max	88	68	86	84	57	85	68	53	82	75	89	68	63	33	26	63	52	55	62	64	43	75	81	67	43	89	16
Min	15	10	11	26	14	20	11	9	24	21	8	9	16	10	13	9	11	7	5	9	9	11	7	9	20	45	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
September 2013

Day	<< Hour >> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
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23																Ca	Ca	11.7	11.0	10.3	9.7	9.8	9.8	9.5	10.3	11.7	9.5
24	8.6	6.5	6.6	6.1	6.0	5.7	6.1	5.1	5.4	6.3	5.9	5.7	6.4	6.9	7.2	7.3	7.3	7.2	7.3	7.3	6.7	6.4	6.4	6.0	6.5	8.6	5.1
25	6.2	6.2	5.8	5.3	5.4	5.4	5.1	5.4	5.6	5.6	5.8	6.9	7.7	8.7	8.9	8.3	8.0	7.7	7.3	6.9	6.4	6.1	6.0	5.0	6.5	8.9	5.0
26	4.1	4.2	4.0	3.5	3.5	3.6	3.9	3.8	4.0	4.0	4.5	5.1	4.2	5.4	5.6	5.9	5.9	4.8	4.5	4.4	4.2	3.0	2.1	1.6	4.2	5.9	1.6
27	0.4	0.3	0.2	0.0	-1.4	-1.7	-1.1	-1.4	-0.9	0.1	2.0	4.6	6.8	8.2	8.4	8.1	8.2	7.1	6.8	6.5	6.0	5.9	6.2	5.9	3.6	8.4	-1.7
28	5.8	6.3	6.6	6.4	6.4	6.5	6.4	6.5	6.3	7.9	10.4	12.2	13.1	14.3	14.3	14.0	13.8	13.9	13.3	13.0	13.0	12.5	12.5	12.4	10.3	14.3	5.8
29	12.0	12.2	12.2	12.2	12.0	11.7	10.2	5.1	5.3	5.9	6.8	7.3	8.1	8.3	8.1	8.0	8.1	7.4	6.8	6.9	7.2	7.1	6.5	6.9	8.4	12.2	5.1
30	6.7	7.0	7.3	7.1	6.4	6.5	5.6	4.7	5.0	6.0	6.8	7.7	8.5	9.0	9.3	9.6	9.0	5.8	5.9	6.2	6.7	6.4	5.9	5.8	6.9	9.6	4.7
Avg	6.3	6.1	6.1	5.8	5.5	5.4	5.2	4.2	4.4	5.1	6.0	7.1	7.8	8.7	8.8	8.7	8.6	8.2	7.9	7.7	7.5	7.2	6.9	6.6	6.8	9.9	4.4
Max	12.0	12.2	12.2	12.2	12.0	11.7	10.2	6.5	6.3	7.9	10.4	12.2	13.1	14.3	14.3	14.0	13.8	13.9	13.3	13.0	13.0	12.5	12.5	12.4	10.3	14.3	9.5
Min	0.4	0.3	0.2	0.0	-1.4	-1.7	-1.1	-1.4	-0.9	0.1	2.0	4.6	4.2	5.4	5.6	5.9	5.9	4.8	4.5	4.4	4.2	3.0	2.1	1.6	3.6	5.9	-1.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
September 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
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23																Ca	Ca	11.8	10.7	10.2	9.4	9.4	9.8	8.8	10.0	11.8	8.8
24	7.6	6.2	6.5	5.7	5.6	5.4	5.9	5.2	5.7	6.5	6.2	6.1	6.9	7.4	7.6	7.6	7.7	7.5	7.4	7.1	6.8	6.4	6.3	6.1	6.6	7.7	5.2
25	5.8	5.7	5.7	5.5	5.4	5.4	5.0	5.4	5.6	5.9	6.2	7.3	8.1	9.2	9.2	8.5	8.1	7.8	7.3	7.0	6.4	6.0	5.9	5.0	6.6	9.2	5.0
26	3.9	4.1	3.9	3.6	3.5	3.5	3.7	3.8	4.3	4.5	5.3	5.9	4.6	6.1	6.2	6.4	6.3	5.1	4.6	4.3	3.6	2.6	1.8	1.1	4.3	6.4	1.1
27	0.1	0.0	-0.2	-0.4	-2.2	-1.9	-1.5	-1.2	-0.5	0.7	2.6	5.3	7.6	8.9	9.0	8.5	8.5	7.3	6.9	6.6	6.1	6.0	6.2	5.9	3.7	9.0	-2.2
28	5.8	6.1	6.5	6.2	6.0	5.9	6.0	6.2	6.6	8.4	10.9	12.8	13.7	15.2	14.9	14.3	14.1	14.0	13.3	12.9	13.0	12.5	12.4	12.2	10.4	15.2	5.8
29	11.8	11.8	11.5	11.5	11.2	11.5	10.0	5.2	5.4	6.0	6.9	7.5	8.4	8.6	8.4	8.2	8.3	7.5	6.8	6.7	7.1	6.9	6.4	6.6	8.3	11.8	5.2
30	6.4	6.7	7.1	6.6	6.3	6.3	5.6	4.6	5.0	6.6	7.2	8.1	8.9	9.6	9.9	10.1	9.2	5.8	5.5	5.5	6.3	6.3	5.9	5.8	6.9	10.1	4.6
Avg	5.9	5.8	5.9	5.5	5.1	5.2	5.0	4.2	4.6	5.5	6.5	7.6	8.3	9.3	9.3	9.1	8.9	8.3	7.8	7.5	7.3	7.0	6.8	6.4	6.8	10.1	4.2
Max	11.8	11.8	11.5	11.5	11.2	11.5	10.0	6.2	6.6	8.4	10.9	12.8	13.7	15.2	14.9	14.3	14.1	14.0	13.3	12.9	13.0	12.5	12.4	12.2	10.4	15.2	8.8
Min	0.1	0.0	-0.2	-0.4	-2.2	-1.9	-1.5	-1.2	-0.5	0.7	2.6	5.3	4.6	6.1	6.2	6.4	6.3	5.1	4.6	4.3	3.6	2.6	1.8	1.1	3.7	6.4	-2.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
September 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
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23																Ca	Ca	-0.15	0.24	0.13	0.30	0.41	0.07	0.76	0.25	0.76	-0.15
24	0.98	0.29	0.14	0.40	0.39	0.33	0.20	-0.14	-0.28	-0.18	-0.37	-0.45	-0.44	-0.52	-0.38	-0.33	-0.32	-0.28	-0.04	0.18	-0.05	0.02	0.04	-0.06	-0.04	0.98	-0.52
25	0.33	0.44	0.13	-0.12	-0.02	0.04	0.10	-0.02	-0.05	-0.33	-0.35	-0.46	-0.38	-0.48	-0.29	-0.20	-0.18	-0.13	-0.06	-0.01	0.01	0.14	0.07	0.07	-0.07	0.44	-0.48
26	0.15	0.06	0.03	-0.04	0.06	0.09	0.24	-0.02	-0.23	-0.50	-0.74	-0.73	-0.38	-0.66	-0.63	-0.44	-0.34	-0.30	-0.13	0.09	0.62	0.38	0.34	0.54	-0.11	0.62	-0.74
27	0.30	0.28	0.43	0.41	0.76	0.22	0.41	-0.14	-0.33	-0.60	-0.61	-0.73	-0.82	-0.76	-0.52	-0.42	-0.30	-0.20	-0.04	-0.09	-0.13	-0.02	0.01	-0.03	-0.12	0.76	-0.82
28	-0.01	0.20	0.05	0.18	0.39	0.57	0.36	0.35	-0.28	-0.47	-0.45	-0.67	-0.57	-0.88	-0.60	-0.38	-0.27	-0.08	-0.01	0.13	0.03	0.04	0.13	0.16	-0.09	0.57	-0.88
29	0.27	0.42	0.65	0.64	0.76	0.18	0.24	-0.07	-0.12	-0.02	-0.07	-0.24	-0.30	-0.31	-0.33	-0.27	-0.18	-0.13	0.02	0.21	0.10	0.26	0.16	0.26	0.09	0.76	-0.33
30	0.37	0.31	0.12	0.49	0.19	0.27	0.03	0.09	-0.01	-0.55	-0.42	-0.35	-0.36	-0.66	-0.62	-0.50	-0.23	0.01	0.39	0.72	0.41	0.08	-0.02	0.03	-0.01	0.72	-0.66
Avg	0.34	0.29	0.22	0.28	0.36	0.24	0.23	0.01	-0.19	-0.38	-0.43	-0.52	-0.46	-0.61	-0.48	-0.36	-0.26	-0.16	0.05	0.17	0.16	0.16	0.10	0.22	-0.04	0.70	-0.57
Max	0.98	0.44	0.65	0.64	0.76	0.57	0.41	0.35	-0.01	-0.02	-0.07	-0.24	-0.30	-0.31	-0.29	-0.20	-0.18	0.01	0.39	0.72	0.62	0.41	0.34	0.76	0.25	0.98	-0.15
Min	-0.01	0.06	0.03	-0.12	-0.02	0.04	0.03	-0.14	-0.33	-0.60	-0.74	-0.73	-0.82	-0.88	-0.63	-0.50	-0.34	-0.30	-0.13	-0.09	-0.13	-0.02	-0.02	-0.06	-0.12	0.44	-0.88

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
September 2013

Day	<< Hour >> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
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23																Ca	Ca	67.6	6.8	0.0	0.0	0.0	0.0	0.0	10.6	67.6	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	7.2	68.7	72.0	79.7	91.0	147.0	174.5	162.7	99.6	51.3	38.7	20.4	3.0	0.0	0.0	0.0	0.0	0.0	42.3	174.5	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	3.6	15.4	30.9	57.9	71.9	185.5	248.8	235.1	106.0	57.8	45.7	21.7	2.2	0.0	0.0	0.0	0.0	0.0	45.1	248.8	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	3.7	46.1	134.5	182.0	346.1	290.4	129.7	328.0	193.3	141.6	68.5	24.6	5.5	0.0	0.0	0.0	0.0	0.0	78.9	346.1	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	12.6	69.6	205.4	400.7	444.6	577.2	457.5	471.9	256.0	166.4	86.9	33.3	1.4	0.0	0.0	0.0	0.0	0.0	132.6	577.2	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	1.9	21.8	145.0	257.0	253.1	394.1	362.6	519.8	288.5	152.4	88.6	35.3	2.0	0.0	0.0	0.0	0.0	0.0	105.1	519.8	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	2.0	33.6	44.3	44.7	111.5	175.8	184.6	181.3	164.4	104.6	55.4	29.3	1.3	0.0	0.0	0.0	0.0	0.0	47.2	184.6	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	1.8	27.4	118.2	365.4	208.3	194.0	379.9	605.5	459.7	321.3	105.8	20.5	2.0	0.0	0.0	0.0	0.0	0.0	117.1	605.5	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	4.7	40.4	107.2	198.2	218.1	280.6	276.8	357.8	223.9	142.2	69.9	31.6	3.0	0.0	0.0	0.0	0.0	0.0	78.4	340.5	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	12.6	69.6	205.4	400.7	444.6	577.2	457.5	605.5	459.7	321.3	105.8	67.6	6.8	0.0	0.0	0.0	0.0	0.0	132.6	605.5	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	1.8	15.4	30.9	44.7	71.9	147.0	129.7	162.7	99.6	51.3	38.7	20.4	1.3	0.0	0.0	0.0	0.0	0.0	10.6	67.6	0.0

APPENDIX B: PERFORMANCE AUDIT REPORT THIRD QUARTER 2013

No performance audits were conducted within the third quarter due to the late startup of monitoring. All instruments were audited on November 7, 2013. Those results are presented in the Quarter 4, 2013, monitoring report.

MONTANA LIMESTONE RESOURCES, LLP
DRUMMOND, MONTANA
Ambient Monitoring Program
Quarterly Data Report
Fourth Quarter 2013

Prepared for:

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Prepared by:

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http://www.bison-eng.com

February 15, 2014

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan*, the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume II, Ambient Air Specific Methods (April 1994)*, and EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Part 1, Ambient Air Quality Monitoring Program Quality System Development (March 1998).*

Preparer: Jeffrey S. Bell

Signature:

Title: Senior Field Technician

Date: 2/5/14

Reviewer: Rebecca L. Picchioni, P.E.

Signature:

Title: Project Engineer

Date: 2/14/14

TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 PRECISION CHECK DATA 7

4.0 CALIBRATION DATA 9

5.0 PERFORMANCE AUDIT DATA 17

6.0 DATA COMPLETENESS 18

7.0 MONITORING DATA 22

LIST OF TABLES

Table 1. $PM_{2.5}$ Precision Check Data 8
Table 2. Reporting $PM_{2.5}$ Sampler Calibration 11
Table 3. PM_{10} Sampler Calibration 13
Table 4. Duplicate $PM_{2.5}$ Sampler Calibration 14
Table 5. Meteorological Station Calibration 16
Table 6. PM_{10} Data Completeness 19
Table 7. $PM_{2.5}$ Data Completeness 19
Table 8. Monthly Meteorological Data Completeness 20
Table 9. Quarterly Meteorological Data Completeness 21
Table 10. Missing Data Codes 23
Table 11. PM_{10} Sampling Data – $\mu g/m^3$ 24
Table 12. Reporting $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting) 25
Table 13. Duplicate $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate) 26
Table 14. Monthly Wind Rose Summary, MLR Met Site 27
Table 15. Monthly Wind Rose Summary, MLR Met Site 28
Table 16. Monthly Wind Rose Summary, MLR Met Site 29
Table 17. Quarterly Wind Rose Summary, MLR Met Site 30

LIST OF FIGURES

Figure 1. MLR Monitoring Site Locations 2
Figure 2. Monthly Wind Rose, MLR Met Site 31
Figure 3. Monthly Wind Rose, MLR Met Site 32
Figure 4. Monthly Wind Rose, MLR Met Site 33
Figure 5. Quarterly Wind Rose, MLR Met Site 34

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Reports

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) established ambient monitoring sites to measure wind speed, wind direction, standard deviation of wind direction, temperature at 19 meters and 2 meters, delta temperature, solar radiation, particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns (micrometers) or less (PM_{10}), in the Drummond area. The particulate monitoring system was installed in August 2013 and the meteorological monitoring system was installed in September 2013. The sites are operated by Bison Engineering, Inc., of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the fourth quarter (October through December) of 2013. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. MLR Monitoring Site Locations

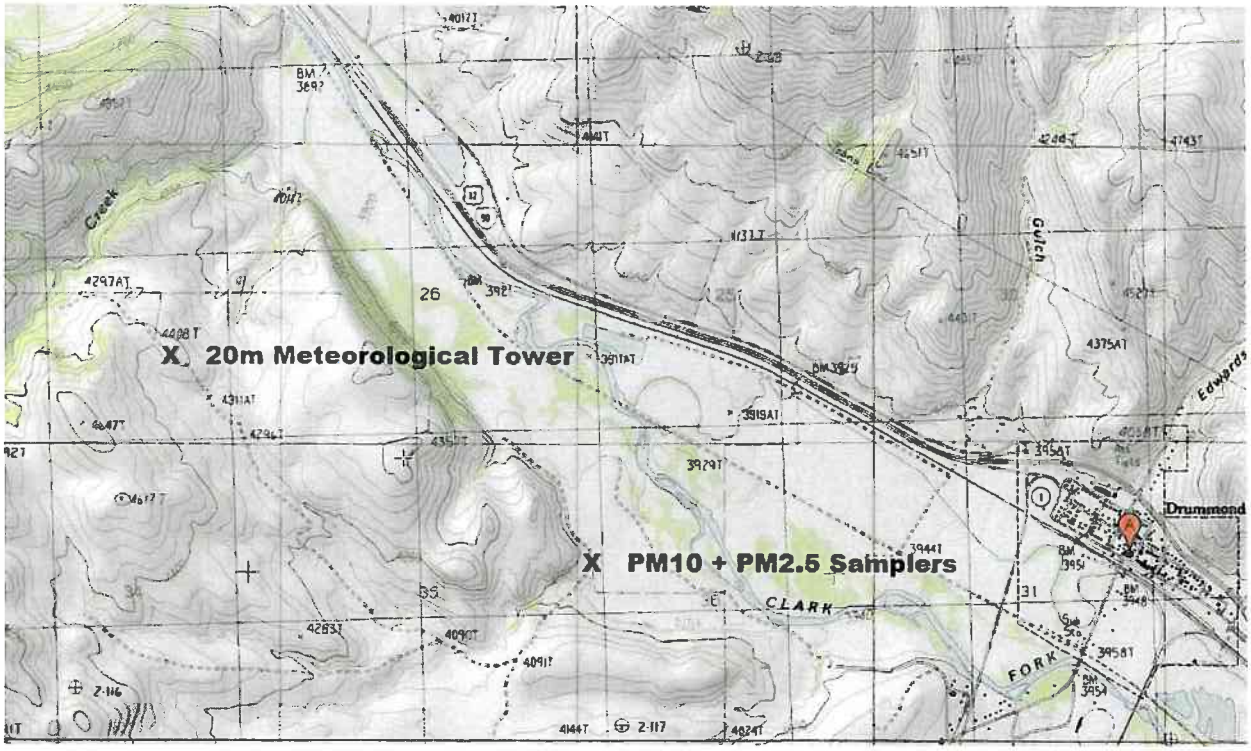


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. In total, the installation of the tower and calibration of the meteorological equipment required about three weeks to complete. All meteorological instruments were in full operation and producing valid data by September 23, 2013. The meteorological station is located on a ridge approximately 0.5 mile west of the proposed mine site.

The $PM_{2.5}$ and PM_{10} sampling is accomplished with BGI Model PQ200 battery-powered low volume samplers. The $PM_{2.5}$ samplers have Very Sharp Cut Cyclone (VSCC) separators. The sample filters were submitted to the Bison-Billings Office for gravimetric analysis. All $PM_{2.5}$ and PM_{10} samplers were in full operation and producing valid data by August 16, 2013. The monitoring procedure is similar to that employed at other State and Local Air Monitoring Stations (SLAMS). The particulate samplers are located approximately 0.5 mile east of the proposed mine site.

The particulate monitoring site includes:

- **Sampler MLR-1 ($PM_{2.5}$ Reporting)**, which operates on a one-day-in-three schedule;
- **Sampler MLR-2 (PM_{10} Reporting)**, which operates on a one-day-in-three schedule; and
- **Sampler MLR-3 ($PM_{2.5}$ Duplicate)**, which operates on a one-day-in-six schedule.

Collocated results from the two $PM_{2.5}$ samplers are used to determine sampling precision statistics.

All meteorological instruments operated with no problems during the quarter. However, several particulate sampler failures occurred, requiring repair and/or replacement of individual samplers. Details are provided in Section 6.0, "Data Completeness."

Jeff Bell of Bison Engineering, Inc. (Bison) conducted performance audits of the meteorological system and particulate samplers on November 7, 2013. The audits produced results within the recommended tolerance limits for all instrumentation. The Bison report of the audits is presented in Appendix B.

2.1 Summary of Method for $PM_{2.5}$ and PM_{10}

The "method" for $PM_{2.5}$ and PM_{10} consists of:

- A $PM_{2.5}$ and PM_{10} sampler or analyzer designed, built and sold by a particular manufacturer to meet the design specifications found at 40 CFR Part 50, Appendix L;
- An operation or instruction manual provided by the instrument manufacturer that describes the proper use and operation of the sampler or analyzer; and
- The other operational and quality assurance requirements necessary to obtain reliable $PM_{2.5}$ and PM_{10} concentration measurements. These performance specifications are found at 40 CFR Part 53, Appendix E. Bison also prepared a Quality Assurance Project Plan for the operation of the samplers.

Bison used three BGI Incorporated (BGI) PQ200 federal reference method (FRM) samplers. The two $PM_{2.5}$ samplers include the additional Very Sharp Cut Cyclone (VSCC) separators. The PM_{10} sampler uses the (BGI WE10) WINS Eliminator to convert the $PM_{2.5}$ sampler to a PM_{10} FRM. These samplers have been designated by the U.S. EPA as an equivalent method for the determination of $PM_{2.5}$ and PM_{10} in ambient air. Designation No. EQPM-0202-142 has been assigned to this sampling method in the Code of Federal Regulations. This sampler is specifically designed to comply with the requirements of the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (40 CFR 50) and to facilitate sampling as specified in that document.

The BGI PQ200-VSCC is specifically designed as an equivalent method for the measurement of $PM_{2.5}$. and PM_{10}. The design specifications include:

- Operation with firmware version 3.88, 3.91, 3.89R, or 3.91R, for 24-hour sample periods;
- Operation in accordance with the Model PQ200-VSCC Instruction Manual and VSCC supplemental manual;
- Operation with sample collection filters specified in 40 CFR Part 50, Appendix L.
- Operation with or without the optional solar power supply or the optional dual filter cassette and associated lower impactor housing, where the upper filter is used for $PM_{2.5}$.

2.2 Principle of Operation

The PM_{10} inlet, sample tube, VSCC, filter holder, and filter cassette are design-specified. Mechanical drawings have been made publicly available by EPA. The remainder of the reference method sampler is performance-specified and requires that:

- The sampler provides automatic control of the sample flow rate to ± 5% of 16.67 lpm.
- The sampler monitors the operational parameters and logs the ambient temperature, filter temperature, ambient barometric pressure, and system pressure every five minutes during the 24-hour sampling event.
- The logged information is available to the sampler operator during and at the end of each sample event in both visual and electronic data form.
- The microprocessor provides a digital display which updates continuously while an RS232 data output port provides the capability for logged data to be electronically output from the sampler.

In the Model PQ200-VSCC, the fixed flow rate of 16.67 lpm is maintained by a microprocessor. Temperature and pressure data are collected and corrections are made for the differences of temperature and pressure between the ambient and sampler conditions. The barometric pressure, meter pressure drop, ambient temperature, filter temperature, and meter temperature are measured and reported by the PQ200-VSCC control system. The vacuum pump and volumetric flow rate control system, flow rate measurement device, ambient and filter temperature monitoring system, timer, outdoor enclosure, and microprocessor monitoring control capability meet design and functional performance requirements as specified in Appendix L.

The air inlet which removes particulate matter larger than 10 microns, the downtube which carries the sample stream from the inlet to the secondary particle size separator (VSCC), the VSCC itself, the filter cassette, and the internal configuration of the filter holder assembly are specified explicitly by EPA in Appendix L of 40 CFR 50. The EPA specifications include design figures, and associated mechanical dimensions, tolerances, materials, surface finishes, assembly instructions and other necessary specifications.

The basic measurement approach for the EPA design is similar to that of the dichotomous sampler that has been used for over 20 years. Large particles are eliminated by gravity before reaching the inlet of this low-flow-volume sampler. The omni-directional inlet acts as an aerodynamic device that does not discriminate ambient PM_{10} under varying wind and climate conditions and provides a clean aerodynamic cut-point for particles of greater than 10 microns that enter the system.

The air sample flows through the PM_{10} inlet and then through a 12-inch length of tubing (the downtube). The downtube supports the PM_{10} inlet above the sampler shelter and transports the sample stream to the $PM_{2.5}$ particle size separator (the VSCC). This VSCC operates at a volumetric sample rate of 16.67 lpm and has a sharp aerodynamic cut-point at 2.5 micrometers. The particles greater than $PM_{2.5}$ are removed to the grit pot on the side of the VSCC. The $PM_{2.5}$ sample is ducted through the cyclone separator to the filter holder and collected on the 47 mm PTFE filter media.

Prior to transport to the field for sample collection, the filters are equilibrated to constant temperature and relative humidity conditions and are weighed in a laboratory setting. After sampling, the filters are again equilibrated to essentially the same constant temperature and humidity conditions and again weighed in the laboratory. The concentration is determined by dividing the weight difference of the filter before and after the sample is collected by the volume of air that passed through the sampler during the sample collection period.

3.0 PRECISION CHECK DATA

Precision of the $PM_{2.5}$ data is evaluated by operating collocated samplers at a monitoring site. The differences between the paired measurements represent the precision of the $PM_{2.5}$ data.

The precision data from the two collocated $PM_{2.5}$ samplers (MLR-1 and MLR-3) are given in Table 1. In accordance with EPA's policy for evaluating $PM_{2.5}$ precision data, only $PM_{2.5}$ concentrations of at least 3 $\mu g/m^3$ are included in the precision calculations. In addition, the quarterly summary statistics, as described in EPA's "Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A" are presented at the end of each table.

Table 1. $PM_{2.5}$ Precision Check Data

Fourth Quarter 2013			
Date	Reporting Concentration** µg/m³	Duplicate Concentration** µg/m³	Relative Percent Difference
10/1	2	2	0.000
10/7	4	5	-22.222
10/13	4	3	28.571
10/19	6	6	0.000
10/25	6	6	0.000
10/31	6	5	18.182
11/6	3	3	0.000
11/12	5	5	0.000
11/18	Pwr	Pwr	NA
11/24	Pwr	8	NA
11/30	3	3	0.000
12/6	6	7	-15.385
12/12	5	6	-18.182
12/18	3	2	40.000
12/24	1	1	0.000
12/30	2	2	0.000

Fourth Quarter Summary Statistics*	
n =	10
$\Sigma\|d\|$ =	102.542
Σd =	-9.035
Σd^2 =	2207.997
CV (%) =	16.24
25th Percentile =	-11.538
75th Percentile =	0.000

*Only sampling runs where both of the $PM_{2.5}$ concentrations were at least 3 µg/m³ were included in the calculation of the quarterly summary statistics.
**See Table 10 for an explanation of the missing data codes.

4.0 CALIBRATION DATA

4.1 Particulate Samplers

Calibration checks / adjustments to the particulate samplers are performed as follows:

- A multipoint flow calibration is performed at the time of installation, at least once per quarter, and upon failure of a single-point flow verification;
- A single-point flow verification is performed at least once per month;
- A multipoint temperature sensor verification/calibration is performed at least once per year, and upon failure of a single-point verification;
- A single-point verification of the temperature sensors is performed at least once per month;
- A single-point verification of the pressure sensor is performed at least once per month.
- Additional calibration checks/adjustments are also performed whenever there is any indication that the system is inaccurate or operating improperly, and whenever adjustments are made to the system that could affect its calibration.

Additionally, the integrity of the sampling train is verified prior to each sampling run by using the sampler internal leak test function. During this check, the pressure drop must be less than five centimeters of water over two minutes.

The results of the multipoint flow calibrations of the $PM_{2.5}$ and PM_{10} samplers conducted during the fourth quarter are presented in Tables 2 through 4. Results of single-point flow, temperature and pressure verifications are documented on the "MLR Particulate Monitoring Field Data Form" that is completed by the site operator prior to each sampling event. Because the BGI Model PQ200 samplers have a computer processing unit (cpu), the only requirement for calibration is to set the flow rate in the samplers at their design value of 16.67 LPM. All flow, temperature and pressure checks of the particulate samplers were performed using a certified BGI DeltaCal unit.

4.2 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter:

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motors;

- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;
- The solar radiation sensor is certified by the manufacturer, and is verified by taking collocated measurements with a certified sensor.

Results of the meteorological sensor calibrations performed during the fourth quarter are shown in Table 5.

Table 2. Reporting $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1622 (MLR-1) AT DRUMMOND
Performed 09-27-2013 by Chris Hiltunen of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW SAMPLER INSTALLATION

FLOW RATE SET POINT	As-Found	Adjusted To
18.1 LPM	17.35	18.10
16.7 LPM	15.30	16.67
15.3 LPM	11.12	15.31

FLOW VERIFY

Delta Cal = 16.62 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 10.3 deg C

Sampler = 9.9 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 10.9 deg C

Sampler = 11.5 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 656.5 mmHg

Sampler = 656 mmHg No adjustment

LEAK CHECK

Initial 99cm
Final 97 cm Pass

Signature of Calibrator_____

Table 2. Reporting $PM_{2.5}$ Sampler Calibration (Continued)

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-1) AT DRUMMOND
Performed 11-11-2013 by Steve Heck
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW INSTALLATION MULTIPOINT CALIBRATION

LEAK CHECK (cm H2O)	Start	End	Pass/Fail
	103	103	Pass

PRE-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Not Applicable, new installation

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.43	18.43
15.0 LPM	15.07	15.07
16.7 LPM	16.57	16.67

AMBIENT TEMPERATURE

Delta Cal =	10.8	deg C	
Sampler =	10.6	deg C	No adjustment

FILTER TEMPERATURE

Delta Cal =	11.6	deg C	
Sampler =	11.8	deg C	No adjustment

AMBIENT PRESSURE

Delta Cal =	665.5	mmHg	
Sampler =	665	mmHg	No adjustment

POST-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Flow indicated by sampler:	16.70 LPM
Measured flow:	16.57 LPM
Error (sampler - audit):	0.78 %
Error (audit - design flow of 16.67 LPM):	-0.60 %

Signature of Calibrator Steven R Heck

Table 3. PM_{10} Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1548 (MLR-2) AT DRUMMOND
Performed 12-17-2013 by Steve Heck
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

ROUTINE QUARTERLY MULTIPOINT CALIBRATION

LEAK CHECK (cm H2O)	Start	End	Pass/Fail
	97	97	Pass

PRE-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Flow indicated by sampler:	16.70 LPM
Measured flow:	16.73 LPM
Error (sampler - audit):	-0.18 %
Error (audit - design flow of 16.67 LPM):	0.36 %

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.90	18.41
15.0 LPM	15.40	14.95
16.7 LPM	16.60	16.71

AMBIENT TEMPERATURE

Delta Cal =	-1.2	deg C	
Sampler =	-1.5	deg C	No adjustment

FILTER TEMPERATURE

Delta Cal =	-0.5	deg C	
Sampler =	-0.5	deg C	No adjustment

AMBIENT PRESSURE

Delta Cal =	659.7	mmHg	
Sampler =	660	mmHg	No adjustment

POST-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Flow indicated by sampler:	16.70 LPM
Measured flow:	16.72 LPM
Error (sampler - audit):	-0.12 %
Error (audit - design flow of 16.67 LPM):	0.30 %

Signature of Calibrator Steven R Heck

Table 4. Duplicate $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-3) AT DRUMMOND
Performed 08-16-2013 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW SAMPLER INSTALLATION

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.90	18.40
16.7 LPM	17.77	16.70
15.3 LPM	15.75	15.30

FLOW VERIFY

Delta Cal = 16.69 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 22.8 deg C

Sampler = 22.2 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 24.0 deg C

Sampler = 23.5 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 657 mmHg

Sampler = 657 mmHg No adjustment

LEAK CHECK

Initial 99cm
Final 98 cm Pass

Signature of Calibrator Steven R Heck

Table 4. Duplicate $PM_{2.5}$ Sampler Calibration (Continued)

CALIBRATION OF BGI SAMPLER S/N 1549 (MLR-3) AT DRUMMOND
Performed 10-18-2013 by Steve Heck
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

NEW INSTALLATION MULTIPOINT CALIBRATION

LEAK CHECK (cm H2O)	Start	End	Pass/Fail
	100	99	Pass

PRE-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Not Applicable, new installation

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.80	18.42
15.0 LPM	15.22	15.00
16.7 LPM	17.02	16.71

AMBIENT TEMPERATURE

Delta Cal =	13.1	deg C	
Sampler =	13.1	deg C	No adjustment

FILTER TEMPERATURE

Delta Cal =	13.7	deg C	
Sampler =	14.0	deg C	No adjustment

AMBIENT PRESSURE

Delta Cal =	661.0	mmHg	
Sampler =	661	mmHg	No adjustment

POST-CALIBRATION FLOW CHECK IN OPERATING CONFIGURATION

Flow Indicated by sampler:	16.70 LPM
Measured flow:	16.61 LPM
Error (sampler - audit):	0.54 %
Error (audit - design flow of 16.67 LPM):	-0.36 %

Signature of Calibrator Steven R Heck

Table 5. Meteorological Station Calibration

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Calibration Results: Qtr 4, 2013

Client: Montana Limestone Resources
Site: Drummond
Date: December 12, 2013
Performed By: Steve Heck, Bison Engineering Inc.
Tower lowered at 1140 MST Tower back up at 1355 MST

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (20 meters), N1889C (2 meters)
Audit Device: Control Company - digital thermometer Model 4000
Serial Number : 130236679
Last certified: 4/24/2013

Temperature bath results

Audit Value °C	20m DAS Value °C	20m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	20m - 2m DAS Diff. °C
0.0	0.16	0.16	0.16	0.16	0.00
16.6	16.55	-0.05	16.55	-0.05	0.00
37.5	37.68	0.18	37.70	0.20	-0.02

Wind Direction Linearity Audit Device: Climatronics 101966, SN 70

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Crossarm orientation (from GPS sighting): 90 / 270
Geographic coordinates of sensor
N 46 deg 40.6105 min, W 113 deg 12.848 min
Geographic coordinates of sighting spot
N 46 deg 40.6105 min, W 113 deg 12.891 min
Sensor response aligned with crossarm (as found): 90.2
Sensor response aligned with crossarm (as left): 90.8

Threshold Torque: 0.05 oz.-in.
(Waters Model 366-1 torque watch)

Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.1	0.1	0.1	0.1
30	29.9	29.5	-0.1	-0.5
60	60.2	60.1	0.2	0.1
90	89.9	89.9	-0.1	-0.1
120	119.4	119.2	-0.6	-0.8
150	149.4	149.2	-0.6	-0.8
180	179.2	179.0	-0.8	-1.0
210	209.0	208.8	-1.0	-1.2
240	239.1	238.9	-0.9	-1.1
270	268.8	268.5	-1.2	-1.5
300	298.8	298.7	-1.2	-1.3
330	328.5	328.4	-1.5	-1.6
0	0.1	0.1	0.1	0.1
		Max Diff	**-1.5**	**-1.6**

Wind Speed

Sensor height:: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Synchronous motor checks

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.22	0.00
300	6.66	6.71	0.05
600	13.09	13.24	0.15

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16186F3 (certified by Eppley August 2013)

Audit Value: 286 watts/m^2
Station Value: 294 watts/m^2
Diff.: +2.80%
+0.67% FS

Audit Value: 152 watts/m^2
Station Value: 157 watts/m^2
Diff.: +3.29%
+0.42% FS

Signature of Calibrator: Steven R Heck

5.0 PERFORMANCE AUDIT DATA

Jeff Bell of Bison conducted performance audits of the particulate samplers and meteorological instruments on November 7, 2013. Each audit produced results within the recommended tolerance limits. The Bison report of the audits is presented in Appendix B.

Audit criteria are summarized below:

- The internal leak test must produce a result of < 5 cm H_2O over two minutes.
- The indicated particulate sampler flow rate must not differ from the audit flow rate by more than ±4%.
- The audit flow rate must not differ from the design flow rate (16.67 LPM) by more than ±5%.
- The particulate sampler temperature sensors must be in error by no more than ±2°C.
- The particulate sampler pressure sensors must be in error by no more than ±10 mmHg
- The total wind direction system error must be less than ±5 degrees at each point.
- The wind speed response error must be no more than ±0.2 m/s at each synchronous motor speed.
- The temperature response error must be no more than ±0.5°C at each point.
- The delta temperature error must not exceed ±0.1°C at each point.
- The solar radiation sensor error must not exceed ±5% (assuming a "reasonable" amount of incoming radiation).

6.0 DATA COMPLETENESS

The PM_{10} and $PM_{2.5}$ percentages of data recovery during the fourth quarter of 2013 are given in Tables 6 and 7. In these tables, the number of possible data values during each month of the fourth quarter is given, together with the number of valid readings. The percentage data recovery is computed by dividing the number of valid readings by the number of possible readings and multiplying the result by 100.

During the fourth quarter of 2013, the net percentage data recovery was 100.00 percent for the PM_{10} sampler, 83.87 percent for the $PM_{2.5}$ reporting sampler, and 94.44 percent for the $PM_{2.5}$ duplicate sampler at Drummond.

- The reporting $PM_{2.5}$ sampler failed and/or was inoperable on five occasions during the quarter, primarily due to power supply problems which were corrected in late November. On two of those occasions an extra duplicate $PM_{2.5}$ run was substituted in its place. On a third occasion the duplicate $PM_{2.5}$ sampler collected a routine scheduled sample. The net result is that the system failed to collect at least one valid third-day $PM_{2.5}$ sample on only two days during the quarter.

- On several occasions during the quarter samplers were exchanged for maintenance and/or repair purposes. The serial numbers of samplers used during the quarter are summarized below:

Sampler	Serial Number	Sampling Dates
MLR-1 ($PM_{2.5}$ Reporting)	1037	8/17/13 – 9/25/13
	1622	9/28/13 – 11/9/13
	1036	11/12/13 – end
MLR-2 (PM_{10} Reporting)	1548	All samples
MLR-3 ($PM_{2.5}$ Duplicate)	1036	8/20/13 – 10/13/13
	1549	10/19/13 - end

The meteorological percentages of data recovery achieved during the fourth quarter of 2013 are given in Tables 8 and 9. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as calibrations, performance audits, and maintenance on the sensors). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery.

During the fourth quarter, the net percentage data recovery was 100.00 percent for all meteorological parameters at Drummond.

Table 6. PM_{10} Data Completeness

Fourth Quarter 2013			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-2 PM_{10} Sampler			
October	11	11	100.00
November	10	10	100.00
December	10	10	100.00
Fourth Quarter	31	31	100.00

Table 7. $PM_{2.5}$ Data Completeness

Fourth Quarter 2013			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-1 Reporting $PM_{2.5}$ Sampler			
October	11	11	100.00
November	10	5	50.00
December	10	10	100.00
Fourth Quarter	31	26	83.87
MLR-3 Duplicate $PM_{2.5}$ Sampler			
October	6	6	100.00
November	7	6	85.71
December	5	5	100.00
Fourth Quarter	18	17	94.44

Table 8. Monthly Meteorological Data Completeness

October 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR- Met					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Total	5,208	5,208	100.0	0	100.0

Table 8. Monthly Meteorological Data Completeness (Continued)

November 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR-Met					
Wind Speed	720	717	99.6	3	100.0
Wind Direction	720	717	99.6	3	100.0
Standard Deviation	720	717	99.6	3	100.0
Temperature 19 Meters	720	717	99.6	3	100.0
Temperature 2 Meters	720	717	99.6	3	100.0
Temperature Delta T	720	717	99.6	3	100.0
Solar Radiation	720	717	99.6	3	100.0
Total	5,040	5,019	99.6	21	100.0

Table 8. Monthly Meteorological Data Completeness (Continued)

December 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR-Met					
Wind Speed	744	741	99.6	3	100.0
Wind Direction	744	741	99.6	3	100.0
Standard Deviation	744	741	99.6	3	100.0
Temperature 19 Meters	744	741	99.6	3	100.0
Temperature 2 Meters	744	741	99.6	3	100.0
Temperature Delta T	744	741	99.6	3	100.0
Solar Radiation	744	741	99.6	3	100.0
Total	5,208	5,187	99.6	21	100.0

Table 9. Quarterly Meteorological Data Completeness

Fourth Quarter 2013					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
MLR-Met					
Wind Speed	2,208	2,202	99.7	6	100.0
Wind Direction	2,208	2,202	99.7	6	100.0
Standard Deviation	2,208	2,202	99.7	6	100.0
Temperature 19 Meters	2,208	2,202	99.7	6	100.0
Temperature 2 Meters	2,208	2,202	99.7	6	100.0
Temperature Delta T	2,208	2,202	99.7	6	100.0
Solar Radiation	2,208	2,202	99.7	6	100.0
Total	15,456	15,414	99.7	42	100.0

7.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 10.

The $PM_{2.5}$ and PM_{10} data collected during fourth quarter at the site are given in Tables 11 through 13. These tables give the 24-hour $PM_{2.5}$ and PM_{10} concentrations measured (referenced to local temperature and pressure), together with the first- and second-highest 24-hour $PM_{2.5}$ and PM_{10} concentrations and average $PM_{2.5}$ and PM_{10} concentrations during each month, quarter, and the year to date.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 14 through 17. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 through 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 10. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 11. PM_{10} Sampling Data – $\mu g/m^3$

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									7	4			1
2													2
3											2	5	3
4									17	5			4
5													5
6											4	9	6
7									12	11			7
8													8
9											5	7	9
10									6	31			10
11													11
12											6	8	12
13									10	6			13
14													14
15											4	3	15
16									10	8			16
17								18					17
18											4	3	18
19									4	8			19
20								26					20
21											6	2	21
22									6	7			22
23								24					23
24											12	2	24
25									2	11			25
26								16					26
27											14	5	27
28									3	7			28
29								17					29
30											3	3	30
31										8			31
Monthly Summaries for Site													
Max								26	17	31	14	9	Max
2nd								24	12	11	12	8	2nd
Avg								20.2	7.7	9.6	6.0	4.7	Avg
Count								5	10	11	10	10	Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			26	31	31
2nd			24	14	26
Avg			11.9	6.9	9.4
Count			15	31	46

* See Table 10 for an explanation of the missing data codes.

Table 12. Reporting $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting)

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									13	2			1
2													2
3											1	4	3
4									13	3			4
5													5
6											3	6	6
7									7	4			7
8													8
9											Pwr	6	9
10									4	6			10
11													11
12											5	5	12
13									5	4			13
14													14
15											3	2	15
16									4	5			16
17								13					17
18											Pwr	3	18
19									2	6			19
20								20					20
21											Pwr	1	21
22									3	5			22
23								18					23
24											Pwr	1	24
25									1	6			25
26								11					26
27											Pwr	4	27
28									2	2			28
29								12					29
30											3	2	30
31										6			31
Monthly Summaries for Site													
Max								20	13	6	5	6	Max
2nd								18	13	6	3	6	2nd
Avg								14.8	5.4	4.5	3.0	3.4	Avg
Count								5	10	11	5	10	Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			20	6	20
2nd			18	6	18
Avg			8.5	3.8	6.2
Count			15	26	41

* See Table 10 for an explanation of the missing data codes.

Table 13. Duplicate $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate)

Year 2013													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									10	2			1
2													2
3													3
4													4
5													5
6											3	7	6
7									7	5			7
8													8
9													9
10													10
11													11
12											5	6	12
13									6	3			13
14													14
15													15
16													16
17													17
18											Pwr	2	18
19									3	6			19
20								20					20
21											5		21
22													22
23													23
24											8	1	24
25									1	6			25
26								12					26
27											10		27
28													28
29													29
30											3	2	30
31										5			31
Monthly Summaries for Site													
Max								20	10	6	10	7	Max
2nd								12	7	6	8	6	2nd
Avg								16.0	5.4	4.5	5.7	3.6	Avg
Count								2	5	6	6	5	Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max			20	10	20
2nd			12	8	12
Avg			8.4	4.6	6.5
Count			7	17	24

* See Table 10 for an explanation of the missing data codes.
Extra runs on Nov 21 and Nov 27 were conducted as substitutes for the inoperable Reporting $PM_{2.5}$ sampler MLR-1.

Table 14. Monthly Wind Rose Summary, MLR Met Site

October 2013																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	1.2	1.3	1.5	2.0	2.0	2.6	3.1	4.3	2.8	1.7	0.7	0.5	0.7	0.5	1.3	1.2	27.6
1.1 - 2.0	1.2	0.1	0.9	1.3	2.4	2.3	5.0	3.9	4.6	0.9	0.4	0.1	1.3	1.3	1.6	1.2	28.8
2.1 - 3.0	0.7	0.5	0.3	0.1	0.4	0.5	0.5	0.8	0.4	0.4	0.1	0.4	2.4	2.3	1.3	0.7	12.0
3.1 - 4.0	0.1	0.3	0.0	0.0	0.1	0.3	0.3	0.1	0.1	0.0	0.1	0.4	1.1	3.2	1.5	0.3	7.9
4.1 - 5.0	0.0	0.3	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.5	3.4	1.6	0.1	6.6
5.1 - 6.0	0.0	0.1	0.0	0.1	0.0	0.3	0.8	0.0	0.0	0.0	0.0	0.1	0.8	3.2	1.2	0.0	6.7
6.1 - 7.0	0.0	0.1	0.0	0.1	0.3	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.0	4.0
7.1 - 8.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.9	0.8	0.0	3.1
8.1 - 9.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0	1.6
9.1 - 10.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5
10.1 - 11.0	0.0	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7
11.1 - 12.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 14.0	0.0	0.0	0.1	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	0.1
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	3.2	3.0	3.4	4.2	6.0	7.0	10.2	9.1	7.9	3.1	1.3	1.7	7.0	18.3	11.0	3.5	100.0
Average Speed	1.5	2.6	3.2	2.1	2.6	2.2	1.8	1.2	1.2	1.2	1.4	2.5	2.9	4.6	4.0	1.8	2.7

Table 15. Monthly Wind Rose Summary, MLR Met Site

November 2013																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.0	1.4	1.7	0.4	2.1	2.2	4.0	3.5	4.6	1.7	0.7	0.8	0.6	0.0	0.8	0.7	26.2
	1.1 - 2.0	0.6	0.1	0.8	0.4	1.0	1.7	5.2	4.2	7.1	0.8	0.7	0.6	2.2	2.2	1.8	0.6	30.0
	2.1 - 3.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.3	1.4	3.6	5.0	2.4	0.6	14.2
	3.1 - 4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.0	3.3	3.2	1.5	0.1	9.6
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.6	3.5	4.6	2.2	0.0	11.6
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.8	2.1	0.4	0.0	3.8
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	1.8	0.3	0.0	2.4
	7.1 - 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	0.0	0.6	0.3	0.0	0.8
	8.1 - 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	0.0	0.6	0.1	0.0	0.7
	9.1 - 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	0.0	0.3	0.4	0.0	0.7
	10.1 - 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	0.0	0.0	0.0	0.0	0.0
	11.1 - 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	0.0	0.0	0.0	0.0	0.0
	12.1 - 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	0.0	0.0	0.0	0.0	0.0
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	1.5	1.8	2.5	0.8	3.1	3.9	9.3	8.1	12.0	3.3	2.2	4.6	14.1	20.4	10.3	2.0	100.0
	Average Speed	1.0	1.1	0.9	1.0	0.9	1.0	1.2	1.2	1.2	1.9	2.0	2.7	3.2	4.1	3.5	1.8	2.4

Table 16. Monthly Wind Rose Summary, MLR Met Site

December 2013																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.5	0.7	0.7	0.4	0.5	1.9	1.3	2.4	1.2	0.4	0.8	0.5	0.1	0.3	0.3	0.4	12.5
	1.1 - 2.0	0.8	0.7	0.7	0.5	0.9	0.7	3.0	3.4	3.2	0.8	0.9	0.7	1.5	2.2	1.9	1.5	23.3
	2.1 - 3.0	0.0	0.1	0.0	0.0	0.1	1.6	1.2	0.5	0.4	0.3	0.1	1.1	4.3	5.4	3.1	0.5	18.8
	3.1 - 4.0	0.0	0.0	0.3	0.1	0.1	0.8	0.7	0.1	0.3	0.0	0.0	0.4	7.3	6.3	1.9	0.5	18.8
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.1	1.1	0.8	0.0	0.0	0.0	0.0	0.5	1.7	6.0	0.8	0.0	11.2
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.9	3.8	0.8	0.1	6.6
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.4	3.0	1.5	0.0	5.5
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.1
	8.1 - 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	0.0	0.7	0.3	0.0	0.9
	9.1 - 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	0.0	0.9	0.0	0.0	0.9
	10.1 - 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	0.0	0.1	0.1	0.0	0.3
	11.1 - 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	0.0	0.0	0.0	0.0	0.0
	12.1 - 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	0.0	0.0	0.1	0.0	0.1
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	1.3	1.5	1.6	1.1	1.9	7.3	7.8	6.5	5.1	1.5	1.9	3.2	16.3	29.3	10.8	3.1	100.0
	Average Speed	1.1	1.1	1.5	1.3	1.6	3.0	2.5	1.4	1.5	1.4	1.2	2.5	3.3	4.4	3.7	2.2	3.1

Table 17. Quarterly Wind Rose Summary, MLR Met Site

Fourth Quarter 2013																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.9	1.1	1.3	1.0	1.5	2.2	2.8	3.4	2.9	1.3	0.7	0.6	0.5	0.3	0.8	0.8	22.0
1.1 - 2.0	0.9	0.3	0.8	0.8	1.5	1.5	4.4	3.8	4.9	0.9	0.7	0.5	1.7	1.9	1.8	1.1	27.3
2.1 - 3.0	0.2	0.3	0.1	0.0	0.2	0.7	0.6	0.6	0.3	0.3	0.2	1.0	3.4	4.2	2.3	0.6	15.0
3.1 - 4.0	0.0	0.1	0.1	0.0	0.1	0.4	0.3	0.1	0.2	0.0	0.1	0.6	3.9	4.3	1.6	0.3	12.2
4.1 - 5.0	0.0	0.1	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.2	0.0	0.4	1.9	4.7	1.5	0.0	9.8
5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.1	0.9	3.0	0.8	0.0	5.7
6.1 - 7.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	2.1	0.9	0.0	4.0
7.1 - 8.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.0	1.7
8.1 - 9.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	1.1
9.1 - 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	0.0	0.4	0.2	0.0	0.7
10.1 - 11.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3
11.1 - 12.0	0.0	0.0	0.1	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	0.1
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.0	2.1	2.5	2.0	3.7	6.1	9.1	7.9	8.3	2.6	1.8	3.2	12.4	22.7	10.7	2.9	100.0
Average Speed	1.3	1.8	2.1	1.8	2.0	2.3	1.8	1.2	1.3	1.5	1.6	2.6	3.2	4.4	3.8	1.9	2.7

Figure 2. Monthly Wind Rose, MLR Met Site

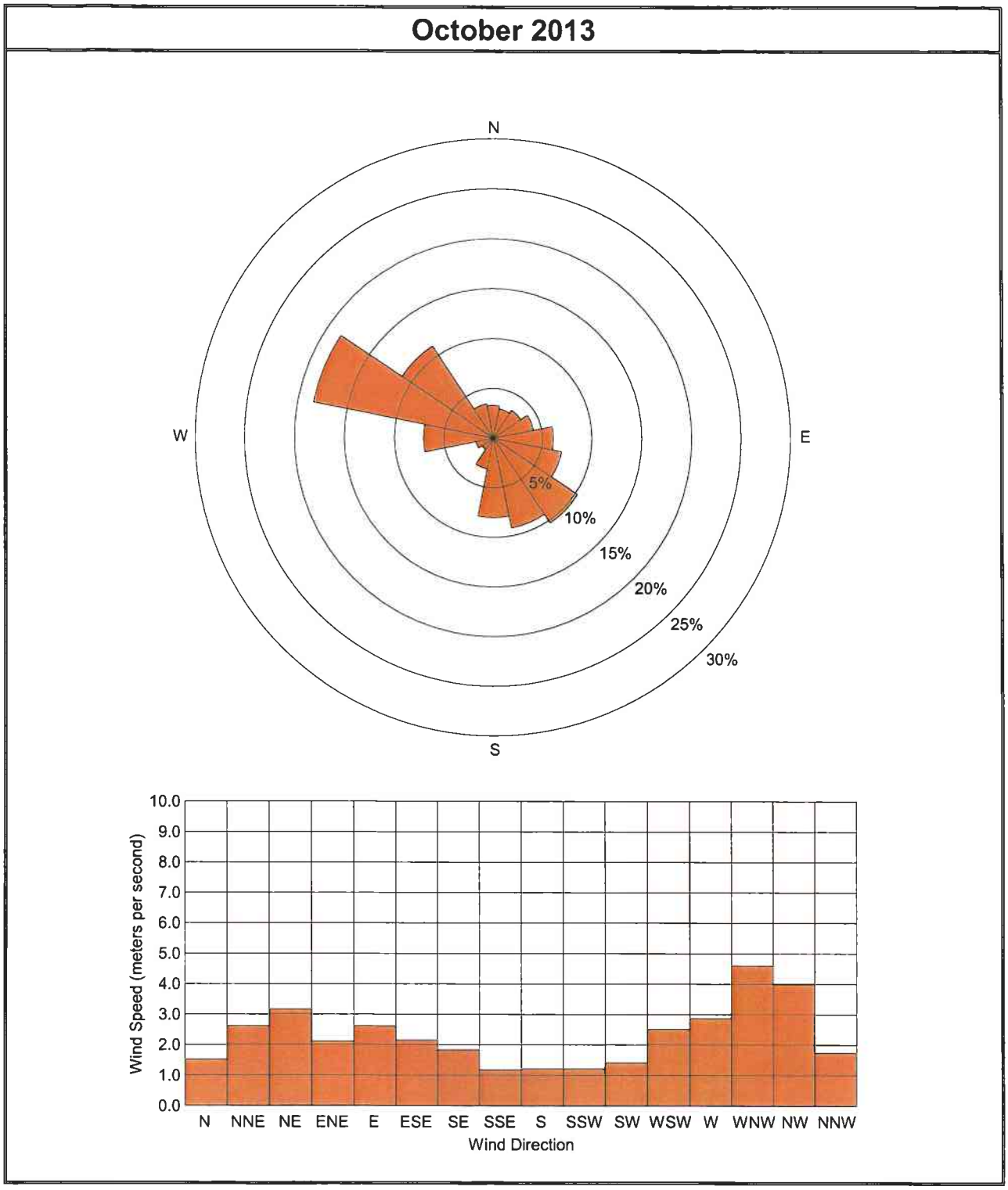


Figure 3. Monthly Wind Rose, MLR Met Site

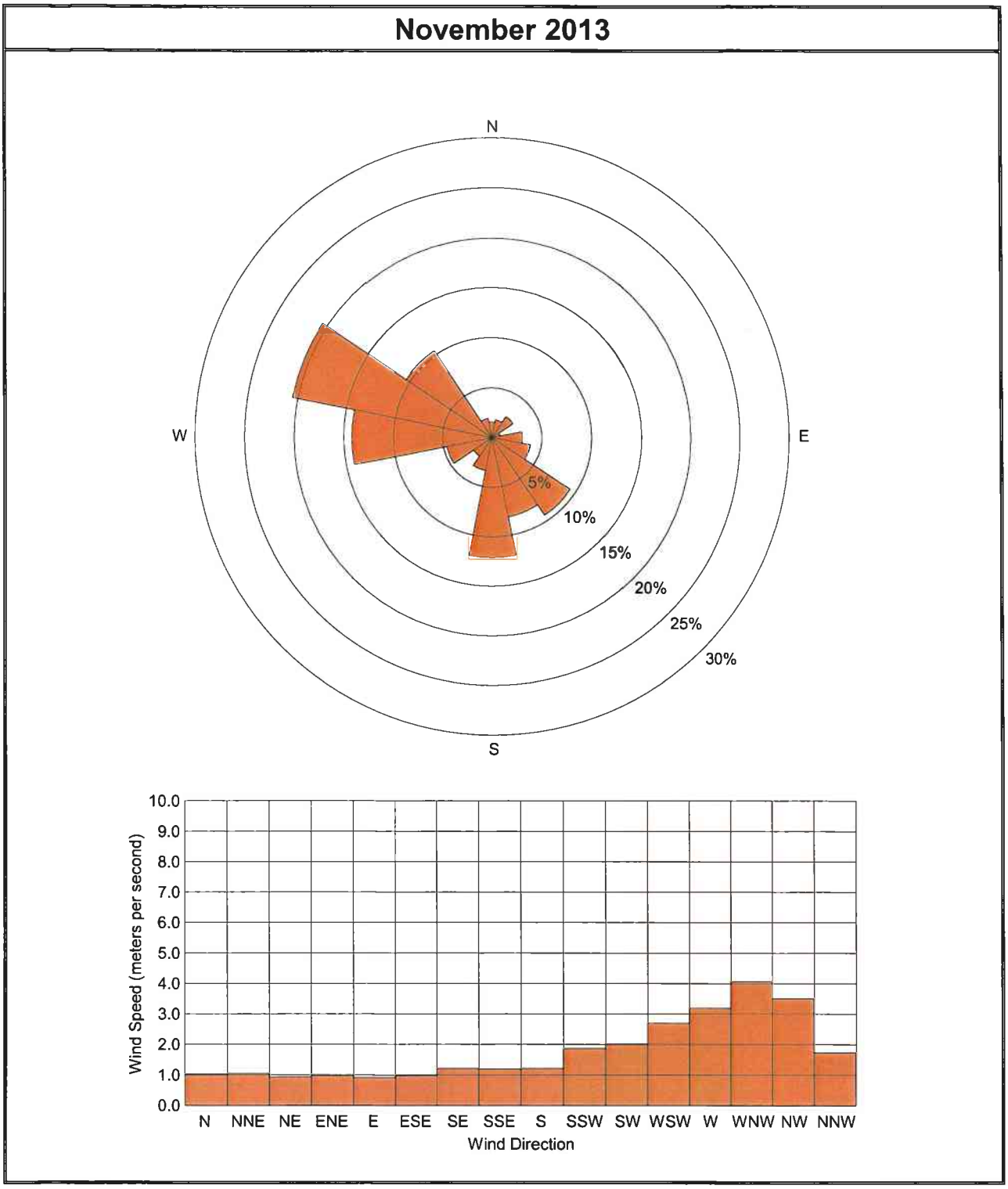


Figure 4. Monthly Wind Rose, MLR Met Site

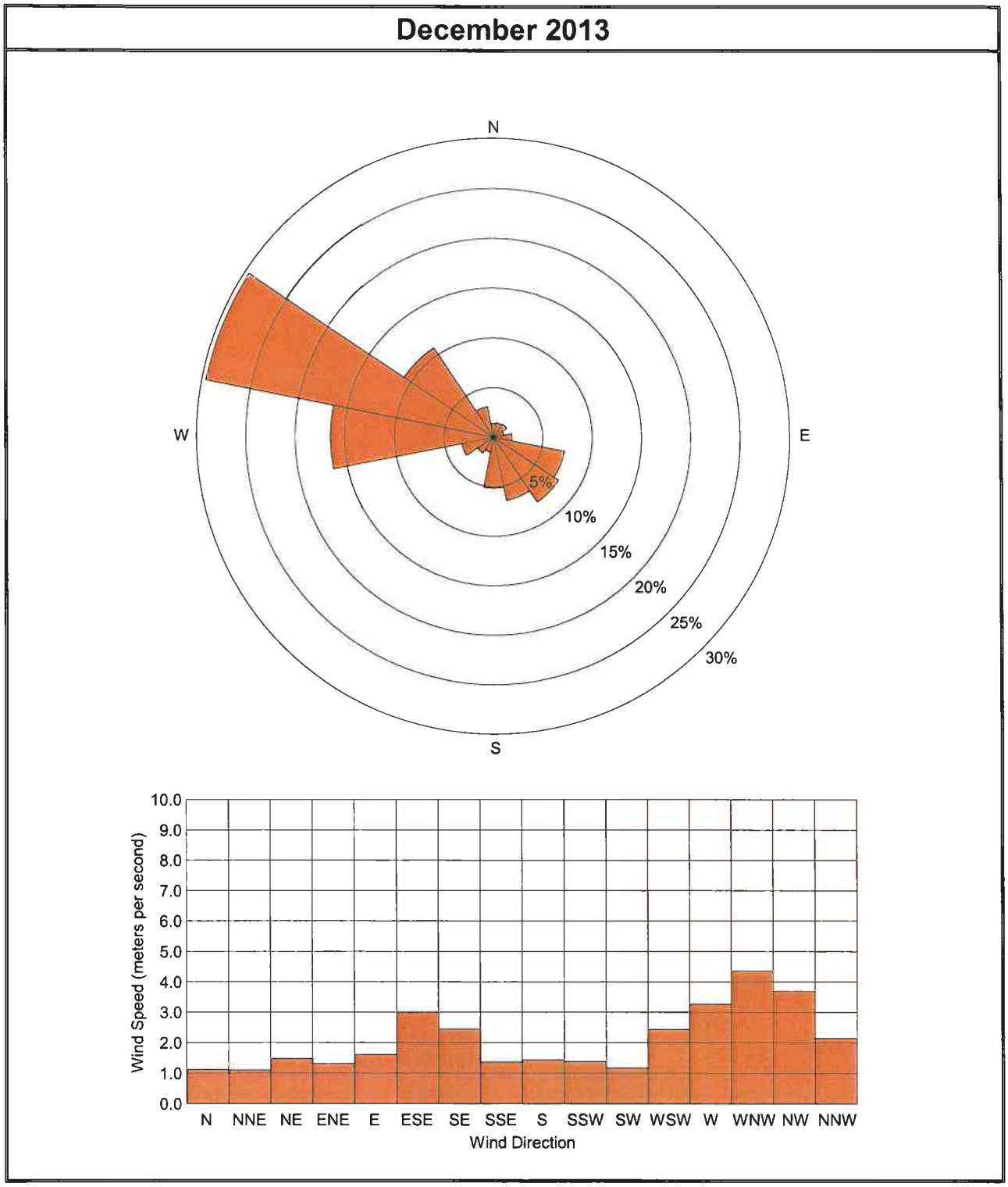
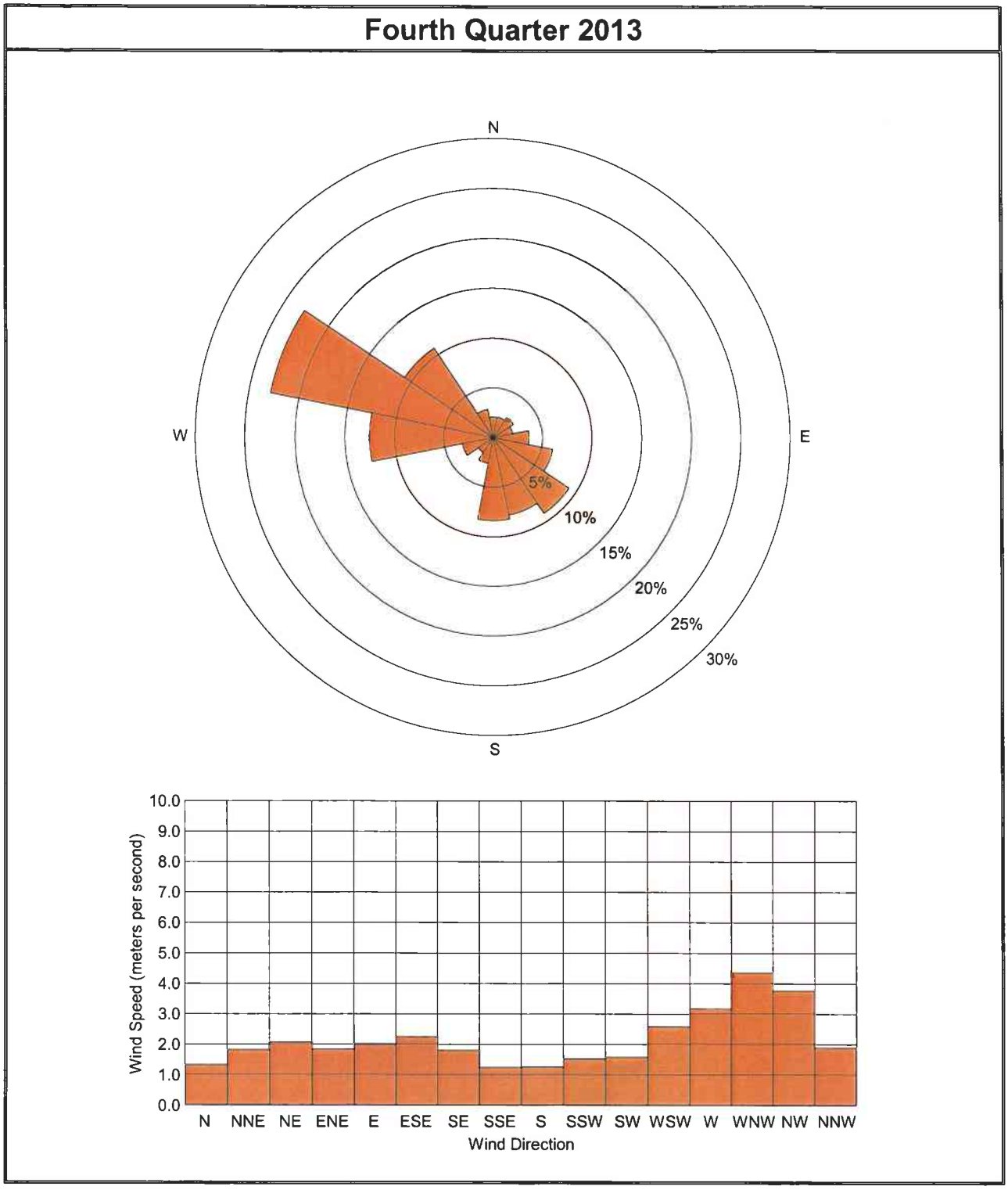


Figure 5. Quarterly Wind Rose, MLR Met Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, FOURTH QUARTER 2013

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	3.6	2.8	2.5	0.9	1.2	0.9	2.2	6.2	7.5	8.6	8.0	6.2	6.7	5.8	6.5	5.4	5.4	4.7	4.1	5.2	5.0	5.6	5.4	3.5	4.7	8.6	0.9
2	3.8	3.6	2.1	3.9	3.5	3.5	3.2	1.7	1.7	1.7	2.4	1.6	1.5	1.6	1.4	1.3	2.1	3.9	2.6	2.1	4.0	2.4	5.9	6.8	2.8	6.8	1.3
3	9.0	10.3	13.2	10.3	6.2	4.6	4.4	3.6	2.9	2.9	2.2	2.8	2.4	3.2	3.7	2.8	3.1	2.0	1.3	2.1	2.6	2.2	1.3	2.5	4.2	13.2	1.3
4	1.0	1.6	1.8	1.8	1.2	2.8	2.4	1.3	0.7	1.7	2.4	2.8	2.8	3.1	3.3	4.4	4.8	3.4	2.6	2.0	1.0	0.8	1.2	0.8	2.2	4.8	0.7
5	1.0	0.8	1.2	1.6	2.0	1.4	1.3	1.1	1.4	1.0	1.4	1.7	2.1	5.4	6.8	5.7	6.7	4.5	3.4	2.5	1.2	2.2	0.9	1.1	2.4	6.8	0.8
6	1.8	1.2	0.8	0.6	1.1	0.7	0.7	0.7	0.6	0.9	1.3	1.4	1.6	1.2	1.3	2.2	3.0	1.8	0.5	1.1	1.0	0.7	0.7	0.7	1.2	3.0	0.5
7	0.5	1.3	0.8	0.4	0.6	0.8	0.9	0.8	0.7	1.0	1.2	1.3	4.0	7.8	7.5	7.2	6.8	9.8	10.5	9.3	8.0	5.0	8.6	7.8	4.3	10.5	0.4
8	6.3	4.8	4.0	2.6	1.7	2.9	2.0	0.9	0.7	1.5	3.5	4.3	3.9	5.3	4.3	5.6	5.5	4.8	3.6	2.9	2.9	2.1	3.0	0.9	3.3	6.3	0.7
9	1.3	1.0	0.8	1.0	1.0	0.5	0.7	0.6	0.6	1.6	2.0	1.7	2.1	1.7	2.2	1.2	0.9	2.2	3.1	2.1	1.0	0.9	0.9	0.9	1.3	3.1	0.5
10	1.1	1.1	1.1	0.9	1.3	0.7	1.3	0.7	1.2	1.1	3.6	5.2	4.9	5.5	8.5	5.4	5.2	3.6	3.7	4.2	2.9	2.8	3.5	5.2	3.1	8.5	0.7
11	5.1	4.4	4.4	5.7	4.3	3.7	3.3	2.0	1.2	2.0	4.9	6.1	5.4	5.4	5.2	5.9	6.6	7.9	7.8	6.4	3.0	0.9	0.7	1.1	4.3	7.9	0.7
12	0.5	0.6	1.4	1.3	1.0	1.2	0.6	1.1	0.4	1.1	1.0	1.0	1.1	1.6	1.4	0.8	1.2	2.0	2.0	2.2	1.7	1.5	1.5	1.7	1.2	2.2	0.4
13	1.2	0.7	0.6	0.6	0.9	0.6	0.9	0.7	0.7	1.4	1.4	2.4	1.4	2.6	2.5	2.5	2.6	2.8	3.0	2.7	2.5	2.9	1.4	1.7	1.7	3.0	0.6
14	0.8	2.3	1.9	0.9	0.8	1.6	2.1	0.9	1.4	4.1	3.8	2.9	2.5	2.7	3.3	2.7	1.1	1.4	2.0	0.8	1.3	0.9	0.9	1.1	1.8	4.1	0.8
15	0.5	0.7	0.4	0.6	1.1	1.0	1.1	0.7	1.3	0.8	1.0	1.0	1.0	1.9	1.9	4.2	5.9	4.1	3.0	2.1	1.7	1.4	1.1	0.8	1.6	5.9	0.4
16	0.8	0.8	1.1	0.9	1.3	0.9	1.6	1.2	1.0	1.3	1.3	1.0	1.5	1.2	2.0	1.3	1.6	1.0	0.3	0.9	1.4	3.1	3.1	1.7	1.3	3.1	0.3
17	1.6	1.9	0.6	0.7	0.5	0.4	0.6	0.5	0.8	1.2	1.5	1.6	3.2	5.3	4.9	4.6	5.9	5.3	6.5	5.7	4.4	1.6	0.9	1.2	2.6	6.5	0.4
18	1.1	1.0	0.9	0.7	0.2	0.5	0.6	1.0	0.6	0.9	1.2	1.6	3.8	8.0	6.6	6.8	5.7	2.7	2.6	2.6	1.7	2.3	2.1	2.2	2.4	8.0	0.2
19	2.9	3.6	4.2	3.0	2.9	1.9	2.1	3.2	3.2	2.5	3.4	4.2	8.2	8.3	7.5	7.3	7.6	6.0	4.4	3.5	4.5	4.4	5.6	5.7	4.6	8.3	1.9
20	4.2	0.9	1.8	1.0	2.1	1.4	0.9	1.0	0.7	0.8	2.0	2.1	3.6	5.4	5.9	5.5	4.8	4.7	2.7	3.1	2.4	1.0	0.7	0.9	2.5	5.9	0.7
21	0.9	0.5	0.6	0.6	1.2	0.4	0.4	0.8	1.1	1.5	1.1	2.1	2.0	4.3	6.0	5.8	7.1	5.9	3.6	1.1	1.7	1.2	0.9	1.0	2.2	7.1	0.4
22	0.8	1.6	1.4	1.1	1.3	1.5	0.5	0.9	1.1	1.4	1.2	1.4	1.6	3.2	5.2	5.0	3.6	3.7	3.5	2.5	1.4	0.7	0.9	0.9	1.9	5.2	0.5
23	1.1	0.7	0.5	0.6	0.7	1.2	1.5	0.9	1.4	1.4	1.5	1.7	1.1	1.4	1.6	1.6	1.2	0.7	0.5	1.1	0.9	0.6	0.8	0.7	1.1	1.7	0.5
24	1.0	0.3	0.4	0.7	1.2	1.0	0.5	1.1	1.1	1.2	1.7	1.2	1.3	1.4	1.0	1.0	0.6	0.9	0.7	0.8	0.7	0.9	0.8	1.2	0.9	1.7	0.3
25	1.2	0.8	1.1	0.9	1.1	1.2	0.7	1.6	0.9	1.4	1.9	1.3	1.3	1.4	1.2	1.0	0.7	1.3	1.1	0.9	0.9	0.7	0.6	0.7	1.1	1.9	0.6
26	1.5	0.7	1.4	1.6	0.7	0.9	1.1	0.8	1.2	1.3	1.2	1.1	1.1	1.2	2.0	4.5	5.8	6.2	3.1	1.9	1.0	1.1	1.1	1.0	1.8	6.2	0.7
27	1.4	2.0	0.7	1.0	1.2	1.4	1.0	0.6	0.7	1.4	0.8	1.1	1.6	1.4	5.5	11.8	11.4	8.6	9.4	7.8	8.5	8.0	7.0	7.0	4.2	11.8	0.6
28	9.7	10.2	10.4	11.7	6.6	4.2	5.5	5.4	5.0	5.6	5.7	4.8	5.1	4.9	5.4	6.4	6.1	6.3	6.8	6.6	5.8	6.9	6.3	5.3	6.5	11.7	4.2
29	2.5	3.7	2.7	2.4	1.7	1.1	0.7	0.6	0.6	1.6	1.0	2.1	2.4	2.3	2.3	1.6	0.8	0.7	0.9	0.5	0.4	0.5	0.6	0.5	1.4	3.7	0.4
30	0.4	0.9	0.9	1.1	1.0	1.1	1.4	1.0	0.8	0.9	1.2	1.2	3.8	7.0	7.0	5.4	4.9	4.1	3.0	4.1	4.4	4.5	3.9	4.1	2.8	7.0	0.4
31	4.1	3.6	4.0	4.0	2.3	2.7	3.7	4.5	3.1	3.1	3.8	4.3	6.9	8.1	7.3	7.8	8.1	7.8	7.8	8.1	7.3	7.5	8.1	7.6	5.6	8.1	2.3
Avg	2.3	2.3	2.2	2.1	1.7	1.6	1.6	1.6	1.5	1.9	2.3	2.4	3.0	3.9	4.2	4.3	4.4	4.0	3.6	3.2	2.8	2.5	2.6	2.5	2.7	6.2	0.8
Max	9.7	10.3	13.2	11.7	6.6	4.6	5.5	6.2	7.5	8.6	8.0	6.2	8.2	8.3	8.5	11.8	11.4	9.8	10.5	9.3	8.5	8.0	8.6	7.8	6.5	13.2	4.2
Min	0.4	0.3	0.4	0.4	0.2	0.4	0.4	0.5	0.4	0.8	0.8	1.0	1.0	1.2	1.0	0.8	0.6	0.7	0.3	0.5	0.4	0.5	0.6	0.5	0.9	1.7	0.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.4	5.7	3.9	1.3	1.5	2.0	2.6	2.0	0.9	2.2	3.3	3.0	4.1	4.6	4.2	4.8	4.5	4.5	3.0	2.8	2.0	1.8	0.7	1.4	3.1	6.4	0.7
2	1.5	1.3	1.5	1.0	1.0	1.5	0.6	0.7	0.7	1.0	1.5	1.2	1.0	2.6	2.9	10.0	9.2	2.5	1.0	2.1	2.9	5.4	5.1	2.5	2.5	10.0	0.6
3	4.7	5.2	3.4	2.9	2.2	2.8	2.0	2.1	1.7	2.0	2.4	2.6	4.0	4.0	4.4	5.0	3.8	4.1	2.0	1.8	1.8	3.6	5.0	2.8	3.2	5.2	1.7
4	1.6	1.6	2.4	1.0	1.1	0.6	0.8	0.9	0.6	0.8	0.6	2.2	3.2	3.7	4.5	4.8	4.8	4.6	5.5	5.4	4.7	3.6	3.0	3.2	2.7	5.5	0.6
5	2.5	2.1	0.5	1.2	2.2	1.5	1.8	2.3	0.8	1.2	2.5	2.6	2.9	4.1	4.5	4.3	2.5	2.7	2.3	2.4	2.3	0.8	1.2	0.8	2.2	4.5	0.5
6	1.9	1.6	2.9	2.0	3.3	3.4	2.0	2.1	2.3	1.3	2.2	3.9	4.1	4.8	4.2	4.2	4.6	5.0	6.1	4.6	3.8	2.6	1.2	0.9	3.1	6.1	0.9
7	1.0	0.9	0.7	0.8	0.4	0.4	0.6	0.7	0.6	0.7	0.6	0.6	1.0	Au	Au	Au	1.4	2.3	3.4	1.0	8.9	4.7	4.7	3.0	1.8	8.9	0.4
8	2.7	2.4	4.4	3.6	3.2	2.1	2.5	2.3	2.4	2.6	2.9	3.3	4.0	5.2	7.2	6.0	4.2	4.4	4.4	3.5	3.6	3.3	2.9	2.7	3.6	7.2	2.1
9	3.4	1.6	1.6	2.2	2.5	1.6	0.8	0.8	1.4	1.3	1.5	1.7	1.1	0.9	0.7	1.6	1.4	1.2	0.6	0.7	0.8	0.7	0.8	1.0	1.3	3.4	0.6
10	0.8	0.9	1.1	1.0	1.1	1.5	0.9	0.9	0.7	0.9	1.1	1.5	1.4	1.7	1.7	2.4	2.4	4.6	5.9	6.1	6.2	5.2	5.5	4.9	2.5	6.2	0.7
11	6.5	8.5	6.2	5.7	4.0	1.3	1.2	1.7	0.7	1.1	0.9	1.2	1.5	1.1	0.8	0.8	1.5	1.4	1.3	1.0	0.9	1.2	0.6	0.6	2.2	8.5	0.6
12	1.2	1.3	0.9	0.5	0.6	0.8	0.5	0.7	0.9	0.7	1.1	0.7	0.9	0.9	0.8	1.1	1.8	2.0	1.3	1.5	1.9	1.4	3.9	6.6	1.4	6.6	0.5
13	4.2	3.6	3.6	4.3	3.6	4.5	4.6	3.4	4.2	5.2	6.4	6.0	6.4	7.5	9.4	8.8	8.9	7.3	5.3	3.1	2.4	3.0	4.1	3.0	5.1	9.4	2.4
14	4.0	2.6	2.9	2.9	2.3	1.3	1.1	1.0	1.7	1.1	1.1	1.6	2.0	1.9	3.2	4.4	4.9	3.7	3.6	3.1	4.3	4.8	2.7	1.7	2.7	4.9	1.0
15	2.6	3.8	4.7	4.9	5.1	5.7	5.4	3.3	3.4	1.9	2.9	3.7	4.4	4.1	4.9	4.7	3.6	2.6	2.9	2.5	1.7	2.7	5.0	3.1	3.7	5.7	1.7
16	2.5	1.8	1.4	1.5	0.9	1.0	2.0	4.8	4.2	4.6	3.8	2.7	2.4	5.0	6.7	5.0	3.5	2.9	5.0	4.9	1.8	2.8	1.8	3.7	3.2	6.7	0.9
17	2.1	1.6	2.1	1.8	2.0	4.3	4.6	2.2	1.5	3.4	5.4	4.5	4.0	3.2	5.7	4.2	2.5	2.5	2.4	2.1	2.3	3.6	2.6	1.5	3.0	5.7	1.5
18	3.1	3.1	3.7	3.6	4.4	4.1	4.8	4.8	3.8	2.1	3.3	2.1	2.5	3.6	4.8	5.1	4.6	2.8	2.6	2.6	3.4	1.8	1.9	1.4	3.3	5.1	1.4
19	1.0	0.9	1.1	1.3	0.9	2.0	1.5	1.5	1.4	1.3	2.1	3.5	4.3	6.6	5.4	4.1	3.5	2.2	2.9	2.7	1.7	3.4	6.4	5.1	2.8	6.6	0.9
20	4.7	3.0	2.3	5.2	5.0	4.9	7.5	9.3	7.8	6.5	7.0	6.4	8.1	9.2	7.3	6.5	4.1	2.7	3.6	5.7	2.8	2.1	1.4	0.9	5.2	9.3	0.9
21	0.9	0.5	1.1	1.5	1.5	1.6	1.7	1.8	1.5	2.3	1.8	1.8	1.5	1.0	1.4	1.8	1.4	2.0	0.9	0.9	1.1	1.0	1.6	1.6	1.4	2.3	0.5
22	1.2	1.7	1.2	1.0	1.5	1.0	0.5	1.1	1.2	1.4	1.7	1.2	1.3	1.5	1.4	1.0	1.5	0.7	0.8	0.8	0.8	0.9	1.2	1.8	1.2	1.8	0.5
23	1.0	1.3	1.1	1.3	1.1	1.0	1.0	1.2	0.9	1.6	1.4	1.7	1.7	1.1	1.2	1.2	1.2	0.9	0.6	0.4	0.7	0.7	0.8	1.3	1.1	1.7	0.4
24	0.9	0.7	1.1	1.0	1.6	0.7	0.8	1.5	0.8	1.4	1.5	1.0	1.1	0.7	1.4	1.1	0.7	0.8	1.0	1.0	0.9	1.0	0.8	0.6	1.0	1.6	0.6
25	0.4	0.7	1.4	0.7	1.4	1.7	0.7	0.9	1.0	1.5	1.6	1.6	0.8	1.1	1.7	1.2	1.2	1.1	1.2	0.7	0.8	1.2	0.6	1.3	1.1	1.7	0.4
26	0.8	0.7	0.9	1.3	1.2	0.6	0.9	1.2	1.3	1.4	1.5	1.2	1.4	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.8	0.6	0.6	0.8	1.0	1.5	0.6
27	0.7	0.6	0.5	0.9	0.5	0.9	0.8	1.4	1.6	1.1	1.7	1.6	1.0	1.7	2.0	1.4	0.4	0.8	0.7	0.6	0.6	0.7	1.0	0.6	1.0	2.0	0.4
28	0.7	0.5	0.8	0.5	1.0	1.1	0.8	0.6	0.8	0.9	0.9	1.2	1.5	1.0	1.0	1.4	0.7	0.6	0.8	0.7	1.2	0.7	1.0	0.7	0.9	1.5	0.5
29	1.0	1.2	0.7	0.8	0.9	1.0	0.6	0.7	1.2	0.6	1.0	1.5	1.2	1.3	1.0	1.9	1.7	1.0	1.4	1.5	4.2	4.1	3.3	3.3	1.5	4.2	0.6
30	2.7	3.3	3.4	4.8	4.8	5.6	3.9	3.3	2.6	2.2	1.6	1.4	1.6	4.1	3.7	4.0	4.8	4.5	4.9	6.2	4.5	5.1	2.3	2.0	3.6	6.2	1.4
Avg	2.3	2.2	2.1	2.1	2.1	2.1	2.0	2.0	1.8	1.9	2.2	2.3	2.5	3.1	3.4	3.6	3.1	2.6	2.6	2.4	2.5	2.5	2.5	2.2	2.4	5.2	0.9
Max	6.5	8.5	6.2	5.7	5.1	5.7	7.5	9.3	7.8	6.5	7.0	6.4	8.1	9.2	9.4	10.0	9.2	7.3	6.1	6.2	8.9	5.4	6.4	6.6	5.2	10.0	2.4
Min	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.8	0.7	0.7	0.8	0.4	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.9	1.5	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
December 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.3	1.5	1.7	1.3	2.1	3.2	1.2	1.1	1.0	1.2	1.8	3.2	1.1	1.5	1.4	1.4	1.8	1.8	2.7	2.9	1.9	1.0	0.7	0.8	1.7	3.2	0.7
2	1.2	2.0	1.4	2.2	4.8	3.3	5.8	6.5	6.5	4.8	3.9	4.7	12.5	8.2	6.3	5.0	4.2	3.9	4.1	3.1	4.0	7.8	7.7	6.4	5.0	12.5	1.2
3	6.1	5.2	4.9	4.2	4.2	4.6	4.8	3.1	1.6	4.2	5.3	3.6	2.6	3.6	3.2	3.1	3.3	3.1	3.4	2.5	4.6	2.7	2.2	2.8	3.7	6.1	1.6
4	3.0	2.3	1.6	1.4	1.3	1.4	0.8	1.0	1.1	1.5	2.4	2.4	2.1	2.3	2.0	2.3	3.6	3.1	2.0	2.2	0.7	0.9	2.0	1.9	1.9	3.6	0.7
5	0.9	1.1	1.1	0.5	1.3	1.8	1.1	1.1	1.1	1.5	1.6	1.4	1.6	1.5	1.6	1.6	1.3	1.2	0.8	1.4	3.3	4.0	4.2	4.6	1.7	4.6	0.5
6	5.8	6.5	7.5	6.4	5.2	4.5	4.7	2.4	2.5	3.9	3.0	2.8	4.8	5.0	4.6	4.9	3.8	2.5	3.0	2.5	2.9	3.6	2.2	2.2	4.0	7.5	2.2
7	2.1	1.6	0.6	0.6	0.7	0.6	0.5	1.0	0.8	0.7	1.1	1.4	1.8	1.5	1.1	0.8	2.0	1.4	0.8	0.5	1.0	1.1	1.6	1.9	1.1	2.1	0.5
8	0.6	1.0	1.5	0.9	1.1	1.1	1.0	0.7	1.2	0.7	1.2	1.0	1.3	1.3	4.2	3.8	4.5	3.6	1.9	2.2	1.1	0.9	1.4	0.8	1.6	4.5	0.6
9	1.1	1.0	1.3	1.3	2.7	3.1	3.1	1.9	2.2	2.0	3.6	1.5	2.8	1.2	0.7	1.1	1.1	2.5	1.5	4.2	1.8	2.9	4.4	3.5	2.2	4.4	0.7
10	4.5	4.4	5.4	5.6	4.9	4.2	3.5	2.7	2.1	1.3	4.4	3.0	2.3	4.6	4.9	5.0	4.5	3.9	2.9	3.4	3.2	2.1	2.5	3.3	3.7	5.6	1.3
11	3.0	3.2	2.9	3.7	5.0	4.5	5.0	4.9	4.9	1.0	1.7	1.3	2.7	5.9	6.4	8.3	6.4	3.7	2.4	1.4	1.4	1.6	1.3	1.1	3.5	8.3	1.0
12	0.9	0.7	1.0	0.7	0.7	0.6	0.5	0.8	0.6	0.6	0.5	Ca	Ca	Ca	0.9	1.4	1.0	1.7	1.4	1.3	1.3	3.4	1.7	1.5	1.1	3.4	0.5
13	1.6	3.2	4.8	5.7	4.7	4.4	4.0	2.0	2.2	2.4	2.8	3.1	3.6	4.6	6.8	6.7	6.1	3.8	2.3	1.9	3.9	4.4	3.2	1.8	3.8	6.8	1.6
14	3.9	4.4	3.3	3.2	3.4	3.3	3.1	2.4	2.5	3.6	3.9	3.0	2.4	2.3	1.9	2.3	2.5	2.4	4.4	5.6	3.8	3.5	2.5	5.3	3.3	5.6	1.9
15	5.4	5.0	4.8	6.6	6.6	6.9	5.7	3.7	3.8	4.1	3.7	3.5	3.8	3.3	3.6	6.1	6.2	7.0	4.8	3.9	3.6	3.7	4.2	2.7	4.7	7.0	2.7
16	3.2	3.6	3.7	4.6	5.4	7.8	8.8	9.2	9.3	9.4	9.7	9.2	9.1	8.7	6.4	5.6	5.8	6.3	4.8	2.9	2.8	2.6	4.9	3.2	6.1	9.7	2.6
17	3.6	2.5	1.5	0.9	1.2	1.8	1.3	1.2	1.0	1.1	0.9	1.2	1.3	1.1	2.1	2.3	1.5	1.5	1.5	1.1	1.9	2.1	2.1	1.7	1.6	3.6	0.9
18	3.3	4.7	3.1	2.4	3.2	2.6	2.9	2.8	5.0	5.9	6.1	6.4	6.6	5.1	6.1	5.8	6.1	5.4	6.3	5.6	4.6	3.0	4.4	5.5	4.7	6.6	2.4
19	5.6	5.9	6.4	5.7	5.1	5.7	3.8	3.8	2.3	1.7	1.6	2.0	2.7	1.3	2.0	2.2	2.1	0.6	0.6	0.8	0.6	1.4	1.3	1.6	2.8	6.4	0.6
20	2.1	2.5	1.6	1.2	0.7	0.8	0.8	0.7	0.8	1.0	1.0	1.9	0.9	1.2	0.9	0.8	1.4	1.3	0.8	1.4	0.7	1.4	1.4	1.5	1.2	2.5	0.7
21	1.0	1.2	2.5	2.2	3.5	3.8	3.8	3.7	4.0	3.8	3.4	1.9	3.0	4.7	5.0	5.5	4.4	3.4	4.5	5.1	3.0	4.0	2.6	3.0	3.5	5.5	1.0
22	2.4	1.6	2.4	2.6	1.8	2.8	4.2	1.3	0.8	2.2	4.0	3.1	3.0	2.9	4.1	3.5	2.1	2.4	3.2	1.8	2.2	2.3	2.5	2.7	2.6	4.2	0.8
23	2.8	2.7	2.3	2.6	2.4	2.5	3.1	3.1	2.6	2.3	2.3	3.4	3.0	2.3	1.7	1.3	1.6	1.9	1.8	5.3	6.8	10.6	10.5	8.5	3.6	10.6	1.3
24	4.7	2.9	5.8	7.6	5.9	6.8	5.4	6.4	6.1	6.1	5.5	7.9	8.3	6.7	6.4	6.8	5.2	3.2	3.0	3.0	2.8	4.1	4.1	3.4	5.3	8.3	2.8
25	2.7	2.0	1.2	1.0	1.5	1.7	2.2	1.6	1.8	1.4	0.8	1.3	1.3	0.9	1.0	1.8	1.1	0.7	1.5	2.0	1.9	2.5	3.5	2.6	1.7	3.5	0.7
26	3.0	2.8	2.7	3.0	2.7	2.4	3.5	1.6	1.4	1.8	1.5	1.2	2.0	3.3	3.5	4.9	4.2	3.2	3.2	2.9	3.6	1.4	1.0	0.9	2.6	4.9	0.9
27	0.7	1.7	1.1	1.1	1.5	0.8	1.0	0.7	0.5	0.5	0.8	0.8	1.2	0.8	0.8	1.1	0.8	0.7	0.9	1.2	0.9	3.4	3.5	2.4	1.2	3.5	0.5
28	5.7	6.8	5.1	4.3	5.8	6.3	4.5	5.4	4.8	3.8	5.6	6.1	5.7	4.9	5.4	4.8	5.2	5.1	3.3	3.2	3.3	4.1	3.1	3.2	4.8	6.8	3.1
29	2.5	3.4	3.4	3.2	2.2	2.1	1.5	1.1	2.4	3.2	3.4	4.5	3.4	4.0	3.3	4.4	4.3	3.9	4.1	3.8	5.7	4.0	3.1	2.8	3.3	5.7	1.1
30	2.0	3.3	4.3	3.2	2.7	2.5	3.4	2.1	2.7	3.2	3.2	3.3	3.5	2.9	2.5	2.0	3.5	3.1	3.1	3.3	3.0	2.5	3.8	3.7	3.0	4.3	2.0
31	3.3	3.7	5.1	4.2	5.9	4.9	4.4	3.6	3.4	3.9	3.5	2.6	3.5	7.9	9.1	8.7	6.9	6.4	5.5	2.7	5.1	3.8	6.6	7.3	5.1	9.1	2.6
Avg	2.9	3.0	3.1	3.0	3.2	3.3	3.2	2.7	2.7	2.7	3.0	3.1	3.5	3.5	3.5	3.7	3.5	3.1	2.8	2.7	2.8	3.1	3.2	3.1	3.1	5.8	1.3
Max	6.1	6.8	7.5	7.6	6.6	7.8	8.8	9.2	9.3	9.4	9.7	9.2	12.5	8.7	9.1	8.7	6.9	7.0	6.3	5.6	6.8	10.6	10.5	8.5	6.1	12.5	3.1
Min	0.6	0.7	0.6	0.5	0.7	0.6	0.5	0.7	0.5	0.5	0.5	0.8	0.9	0.8	0.7	0.8	0.8	0.6	0.6	0.5	0.6	0.9	0.7	0.8	1.1	2.1	0.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
October 2013

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	285	279	270	339	188	324	295	303	305	308	305	304	294	295	308	312	299	299	305	308	293	298	297	272	297
2	258	247	285	296	300	315	290	311	114	79	79	62	68	169	1	232	76	19	312	312	32	201	58	64	349
3	50	47	38	26	32	17	18	352	8	12	32	54	88	119	94	152	181	228	293	123	305	309	354	333	29
4	29	358	328	342	308	291	279	301	59	46	247	208	172	140	285	260	258	265	265	285	36	10	175	3	303
5	292	123	316	318	327	316	330	159	161	57	96	56	345	312	313	306	299	285	259	291	49	316	136	259	318
6	322	172	189	330	179	240	140	166	111	73	125	71	108	83	107	152	181	201	287	133	115	179	147	152	146
7	128	175	116	158	140	149	168	157	53	74	83	116	326	287	273	295	301	311	309	306	300	291	303	308	271
8	293	273	255	277	264	265	314	172	181	348	288	275	286	287	304	293	293	300	314	298	286	266	260	11	285
9	130	265	137	111	88	169	157	14	96	135	142	171	116	85	149	327	321	271	290	272	319	36	137	163	133
10	105	252	165	312	160	272	173	121	142	78	312	292	294	294	312	300	316	309	292	288	280	290	289	296	283
11	292	289	286	295	294	311	310	300	5	328	282	289	303	265	272	283	310	315	316	304	335	17	91	148	305
12	315	31	162	190	217	172	241	174	96	129	97	95	117	128	166	155	180	205	54	121	126	272	320	294	154
13	194	157	66	53	63	66	79	133	108	108	124	137	125	7	2	29	359	6	346	269	297	335	280	155	64
14	24	267	270	257	227	269	258	245	286	313	296	285	295	232	228	202	125	324	296	310	176	267	280	145	265
15	16	165	148	170	169	170	158	128	148	142	55	291	35	212	18	294	291	288	267	279	284	290	100	132	191
16	293	148	199	136	185	190	186	215	195	161	149	73	96	87	143	151	167	186	339	309	200	156	120	126	162
17	89	111	121	344	328	132	349	335	119	269	1	334	283	277	293	289	284	287	292	295	304	358	184	111	316
18	43	20	84	194	120	216	359	151	18	82	71	63	334	292	296	295	298	274	254	269	270	308	313	319	323
19	283	296	288	293	287	305	308	289	288	309	346	340	287	284	282	290	292	297	314	315	314	307	302	310	301
20	326	271	274	83	108	82	61	189	40	54	124	139	288	276	259	258	295	290	259	275	17	71	332	148	315
21	170	325	148	208	183	151	193	152	139	140	74	51	168	309	310	304	292	293	291	107	301	317	158	343	212
22	130	165	188	176	170	167	191	195	139	142	76	51	80	325	306	286	280	286	276	283	136	145	155	142	174
23	162	103	46	143	141	181	162	154	142	143	120	127	113	116	132	133	175	153	331	59	149	21	123	194	133
24	115	90	67	190	192	200	174	178	160	131	131	132	117	120	52	88	197	182	73	5	133	151	151	167	138
25	175	158	169	200	187	180	127	183	35	149	145	99	98	99	102	113	208	320	39	102	135	169	60	136	136
26	182	182	168	171	214	157	185	197	167	136	88	95	109	71	352	307	296	289	280	328	11	349	149	185	173
27	167	185	197	184	168	181	164	325	66	139	92	125	139	144	25	35	51	69	64	85	72	85	80	96	111
28	95	93	96	97	115	122	122	124	126	126	127	127	125	135	132	116	121	124	116	113	119	114	122	131	118
29	146	146	126	84	100	99	18	96	108	154	133	153	160	163	172	184	195	216	160	161	121	10	105	142	136
30	79	60	356	357	304	266	156	165	123	175	141	135	312	287	292	267	273	300	289	297	294	292	294	287	286
31	290	284	286	292	299	288	299	310	274	303	307	314	318	317	306	289	288	294	293	292	288	285	293	301	296
Prev	112	186	176	231	189	208	202	186	111	104	93	88	76	250	308	273	270	282	302	301	320	316	146	164	241

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
November 2013

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	294	305	340	89	350	326	254	270	358	268	283	283	277	278	286	297	313	316	287	288	290	308	192	150	294
2	167	200	216	27	317	183	173	204	193	324	137	105	359	309	320	299	307	257	37	309	299	299	299	283	278
3	299	301	287	273	259	251	258	254	276	304	306	286	273	271	303	293	317	305	267	284	303	289	305	298	286
4	295	297	264	255	278	90	199	151	176	99	40	15	310	259	259	273	281	275	283	288	285	283	290	281	277
5	281	270	24	258	274	252	273	295	188	46	23	340	346	304	294	291	291	296	298	288	288	21	180	253	295
6	314	262	229	195	292	285	301	321	183	194	267	270	267	272	268	304	316	300	296	292	302	308	168	174	272
7	187	220	306	157	254	126	175	170	121	136	119	133	21	Au	Au	Au	120	239	283	337	286	284	307	275	208
8	278	317	273	270	261	245	271	305	270	295	302	280	284	289	294	269	273	281	262	275	261	256	267	257	276
9	266	297	333	332	285	286	154	278	117	140	127	139	64	134	281	150	227	270	32	83	104	174	114	200	176
10	175	162	177	146	185	173	234	183	255	69	139	156	179	308	279	307	307	287	300	302	298	289	307	303	241
11	304	310	299	297	304	122	2	290	124	134	115	61	50	36	26	20	241	306	271	17	56	133	326	101	6
12	171	149	358	9	213	150	224	254	158	133	137	31	110	117	20	181	171	144	112	313	140	259	306	294	159
13	283	270	258	263	264	293	277	260	274	280	284	285	290	283	287	287	288	290	287	302	263	265	285	276	279
14	252	262	264	278	272	233	183	184	330	33	87	127	136	291	303	306	313	288	289	278	290	278	298	302	278
15	290	274	273	284	280	279	275	265	266	276	304	289	290	260	282	265	257	289	308	320	322	291	321	286	285
16	286	293	316	189	352	92	134	193	197	198	283	296	319	312	294	280	269	253	251	286	324	275	320	284	278
17	295	334	299	303	271	221	211	263	297	259	298	304	304	280	272	286	284	288	288	319	298	253	242	271	282
18	246	230	234	244	256	266	261	261	267	292	282	310	333	320	298	307	319	277	280	286	290	181	312	196	275
19	164	263	114	296	44	314	353	295	39	53	299	260	262	247	248	256	268	260	197	231	272	180	207	219	259
20	240	284	275	284	300	293	302	311	311	301	287	282	299	314	309	310	320	286	323	140	153	156	176	109	287
21	104	135	143	169	171	180	190	184	184	156	154	154	161	63	100	172	178	190	33	312	195	128	188	178	159
22	184	186	176	188	173	205	177	176	171	143	138	115	87	140	127	186	175	215	136	339	99	169	175	175	163
23	176	170	171	177	174	140	186	177	166	147	121	138	138	101	133	162	164	183	56	360	254	152	124	177	155
24	179	51	153	153	178	208	177	168	141	147	141	37	75	49	145	178	127	117	179	190	144	260	111	51	143
25	158	136	156	337	342	144	146	79	357	132	138	138	94	83	127	145	136	147	217	195	186	160	130	188	140
26	178	146	188	174	151	145	187	180	194	173	149	120	110	112	131	159	178	339	110	141	49	163	195	110	151
27	147	147	80	153	131	155	202	167	169	168	154	157	132	157	169	170	116	175	132	42	65	86	166	154	145
28	157	169	165	156	179	188	173	112	160	172	141	124	137	124	88	164	231	345	128	48	181	150	151	109	149
29	194	159	320	172	147	174	97	89	139	124	101	141	83	110	101	153	151	146	135	262	290	315	295	313	142
30	305	312	305	291	298	295	306	300	298	237	217	39	1	293	300	297	301	291	297	288	288	298	296	281	297
Prev	232	244	257	236	257	211	218	229	203	169	162	130	5	295	285	253	257	268	279	301	280	244	246	236	247

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
December 2013

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	316	270	298	276	260	274	285	360	33	46	35	169	32	333	347	301	291	307	308	272	348	332	316	122	318
2	352	349	337	304	324	318	302	300	290	295	308	295	311	310	298	278	294	309	312	340	337	119	116	114	315
3	118	119	120	125	134	107	109	103	133	118	131	126	130	153	72	37	44	93	113	146	108	124	102	111	113
4	102	100	98	92	78	136	285	9	50	81	104	120	147	121	138	116	131	124	157	170	109	120	148	144	116
5	112	174	182	63	164	189	187	171	156	159	139	133	164	176	160	174	173	145	136	152	109	104	98	103	148
6	105	109	126	125	118	120	123	137	123	116	119	127	136	136	134	133	114	114	116	133	139	131	149	141	126
7	111	176	98	156	171	41	117	162	141	165	117	122	165	127	30	124	212	318	44	163	144	136	176	184	139
8	194	118	185	172	194	118	230	98	168	119	133	109	88	73	291	297	294	285	289	291	236	233	24	147	180
9	2	355	303	328	327	332	347	38	29	90	263	137	156	151	169	8	26	325	86	310	341	344	283	283	348
10	285	280	296	308	291	289	291	293	267	67	290	294	324	299	301	295	287	287	282	258	269	302	298	296	292
11	295	300	297	299	296	292	291	285	305	62	138	138	306	298	311	310	315	287	216	164	231	175	203	169	274
12	242	342	159	232	144	201	92	178	167	146	105	Ca	Ca	Ca	111	216	114	6	101	106	125	308	312	324	148
13	262	289	291	293	285	285	281	276	311	295	266	281	299	282	282	286	294	303	306	328	290	289	283	305	290
14	259	254	261	278	263	258	266	300	267	284	288	298	330	272	327	307	304	281	284	279	262	272	313	283	283
15	271	279	277	296	289	286	280	271	262	271	293	306	308	292	272	309	305	304	291	282	272	267	280	269	285
16	274	278	268	260	286	296	289	296	292	287	289	291	289	293	284	280	295	300	281	293	289	305	288	262	286
17	279	294	188	197	143	152	136	145	134	261	330	290	298	64	287	320	274	281	178	261	301	279	247	288	255
18	281	303	282	298	307	295	303	287	300	301	316	315	322	339	320	316	315	316	312	303	302	314	316	303	307
19	320	320	117	136	141	138	173	141	161	165	155	154	138	126	166	180	203	4	151	26	2	135	184	187	150
20	189	197	182	192	177	25	142	169	216	241	55	163	308	124	111	245	247	161	168	170	239	289	317	326	196
21	152	326	316	293	260	278	280	287	289	281	283	325	328	285	287	287	283	280	290	271	282	285	267	252	285
22	265	313	297	293	338	279	295	48	145	266	295	283	281	276	279	289	263	284	305	280	293	287	283	284	288
23	280	271	277	280	285	282	284	292	258	276	292	278	294	270	323	322	187	309	321	305	302	299	308	297	289
24	245	285	285	286	288	296	295	283	269	277	277	287	289	285	280	286	284	272	254	254	265	258	269	282	277
25	308	300	29	47	196	255	315	187	225	204	149	130	146	57	148	183	229	215	343	164	109	300	288	305	218
26	290	304	277	290	325	324	262	227	241	243	333	222	302	287	297	291	289	276	266	282	267	258	149	105	277
27	217	301	165	148	164	191	158	135	173	299	159	153	151	152	170	168	280	12	151	177	31	284	277	273	184
28	303	293	289	324	293	291	302	289	303	291	296	296	287	292	297	292	288	297	284	283	269	255	258	272	289
29	274	281	280	270	252	262	265	291	255	265	271	262	289	295	270	288	301	306	283	286	290	288	268	274	278
30	276	284	288	277	284	269	261	285	309	312	306	313	306	303	311	288	293	273	287	265	265	258	286	280	287
31	269	279	295	279	280	279	291	301	305	303	275	273	281	301	300	296	297	286	286	267	287	275	289	291	287
Prev	269	290	267	272	256	273	270	265	246	262	278	239	290	284	287	284	279	298	274	258	282	273	273	263	274

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	12	14	37	68	84	66	25	10	8	9	8	11	9	10	12	14	9	10	15	10	10	7	8	20	20	84	7
2	17	13	23	10	7	12	12	36	74	38	44	89	89	44	71	63	69	13	32	50	37	88	20	15	40	89	7
3	12	14	11	19	31	31	28	27	38	24	45	33	46	23	27	23	18	16	41	58	23	11	49	16	28	58	11
4	48	21	13	15	35	10	30	69	51	60	28	35	42	48	67	22	16	21	19	20	52	75	70	74	39	75	10
5	36	96	62	24	17	36	71	55	30	62	29	39	77	20	14	14	10	15	21	32	71	39	86	76	43	96	10
6	32	62	42	77	45	38	70	70	76	58	36	36	32	38	47	16	16	18	68	53	74	70	51	81	50	81	16
7	67	54	46	50	39	27	35	28	46	50	37	39	55	16	23	11	11	7	7	8	7	9	8	9	29	67	7
8	10	22	16	30	29	21	32	65	54	84	19	24	32	13	31	19	11	8	15	19	16	61	50	76	32	84	8
9	94	62	61	99	68	77	40	64	71	20	27	50	44	66	38	95	78	20	15	52	59	58	33	88	57	99	15
10	71	89	82	64	29	81	29	67	47	76	71	14	19	13	11	14	7	8	7	10	19	12	12	9	36	89	7
11	14	9	17	13	9	10	10	18	52	71	21	22	20	27	22	21	12	6	5	10	60	49	54	24	24	71	5
12	82	92	10	43	64	22	86	14	81	48	50	50	55	32	38	48	45	69	82	44	36	22	25	16	48	92	10
13	51	98	59	61	102	73	45	36	55	40	32	27	78	23	35	49	15	21	36	30	29	15	86	37	47	102	15
14	71	12	15	23	57	31	19	75	28	7	14	15	26	39	29	88	69	11	15	43	72	44	77	30	38	88	7
15	73	84	23	51	17	10	16	37	12	42	50	88	60	89	85	23	10	12	19	26	23	21	56	37	40	89	10
16	75	57	39	74	25	33	19	32	32	27	21	83	89	36	14	33	42	39	67	62	36	40	10	16	42	89	10
17	14	21	45	24	45	72	53	81	71	35	66	85	25	19	16	14	14	11	6	6	9	47	39	51	36	85	6
18	32	22	44	48	75	94	85	20	61	46	53	39	90	11	13	13	11	21	9	18	26	22	64	34	40	94	9
19	21	27	17	19	26	28	44	12	11	28	19	46	15	17	19	16	9	8	12	8	11	11	8	8	18	46	8
20	18	91	40	76	23	12	56	67	49	37	15	31	57	22	22	19	17	10	29	16	91	64	53	77	41	91	10
21	42	65	74	76	38	77	79	80	49	28	61	37	86	27	16	16	11	8	17	78	28	48	47	69	48	86	8
22	83	23	13	35	25	11	51	25	48	34	34	47	32	70	17	18	19	8	11	52	90	43	30	74	37	90	8
23	24	82	92	44	39	29	18	22	17	24	20	32	54	45	30	42	11	69	53	55	56	60	50	45	42	92	11
24	44	66	51	79	32	24	24	14	15	21	22	49	42	49	39	57	55	11	68	62	54	23	38	23	40	79	11
25	29	36	19	27	59	44	72	29	63	22	23	28	35	22	28	53	97	46	35	66	56	47	74	52	44	97	19
26	16	36	18	13	25	22	13	35	36	20	41	37	56	51	51	9	7	6	24	70	46	54	65	46	33	70	6
27	19	15	74	25	18	47	48	67	94	25	55	51	34	41	54	10	22	16	16	18	16	14	16	16	34	94	10
28	8	7	7	11	17	14	9	8	8	6	6	8	7	8	8	7	7	7	8	7	8	6	8	8	8	17	6
29	32	17	15	13	30	63	57	47	77	16	25	13	15	11	12	15	21	59	14	33	62	84	80	32	35	84	11
30	94	47	66	43	87	73	35	37	82	65	27	49	67	16	15	22	22	12	16	10	11	16	13	17	39	94	10
31	11	19	14	8	20	18	16	8	26	20	15	12	9	7	11	7	8	7	7	9	12	15	7	6	12	26	6
Avg	40	44	37	41	39	39	40	40	47	37	33	39	45	31	30	28	25	19	25	33	39	38	42	38	36	81	9
Max	94	98	92	99	102	94	86	81	94	84	71	89	90	89	85	95	97	69	82	78	91	88	86	88	57	102	19
Min	8	7	7	8	7	10	9	8	8	6	6	8	7	7	8	7	7	6	5	6	7	6	7	6	8	17	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10	15	49	76	45	57	31	42	92	34	16	15	23	19	16	15	9	6	18	12	12	92	101	37	35	101	6
2	23	37	40	98	80	32	85	64	70	48	60	58	66	26	36	12	9	30	97	25	23	12	16	23	45	98	9
3	15	8	19	18	28	7	18	18	29	17	32	25	27	22	14	15	9	9	35	20	16	21	8	23	19	35	7
4	29	37	16	94	94	75	39	22	47	54	49	64	26	19	17	21	17	20	15	7	13	23	22	20	35	94	7
5	19	26	86	32	29	14	15	17	71	15	22	26	22	18	10	12	8	13	16	13	59	92	41	60	31	92	8
6	54	64	49	88	30	21	60	92	89	33	32	24	26	24	25	23	8	7	5	6	10	80	44	40	39	92	5
7	27	25	69	33	81	58	35	32	81	65	50	61	50	Au	Au	Au	69	53	28	42	19	19	14	24	45	81	14
8	20	38	28	25	29	23	21	40	34	23	17	23	19	8	8	20	23	20	20	22	21	17	23	23	23	40	8
9	23	35	24	16	24	78	98	73	39	21	23	41	68	55	62	41	28	27	57	85	61	15	41	42	45	98	15
10	60	37	34	57	61	22	66	69	79	81	30	57	61	85	70	37	49	15	9	6	4	9	5	6	42	85	4
11	6	6	7	8	19	64	76	36	81	45	57	63	31	41	33	33	49	23	59	73	29	37	77	40	41	81	6
12	36	46	25	97	76	80	72	95	63	68	32	43	65	59	81	87	35	21	71	88	26	98	32	10	59	98	10
13	23	26	19	17	20	13	20	22	23	17	13	20	22	20	15	15	14	11	17	24	28	24	17	27	19	28	11
14	15	19	16	25	29	66	70	36	62	81	82	50	29	99	27	11	8	11	12	18	10	20	24	53	36	99	8
15	25	22	24	18	21	22	23	26	22	26	14	15	15	25	22	27	30	33	18	21	22	21	10	26	22	33	10
16	14	16	23	71	32	57	63	10	9	13	76	21	35	13	15	18	27	18	17	15	53	18	21	17	28	76	9
17	29	46	18	18	30	17	10	16	39	21	14	11	14	28	25	23	19	18	18	14	22	26	19	28	22	46	10
18	18	21	15	12	9	8	6	8	9	17	9	32	17	9	8	14	6	26	14	16	11	74	44	79	20	79	6
19	85	71	88	83	97	34	56	64	38	66	27	27	26	19	20	23	26	26	27	16	89	35	10	10	44	97	10
20	20	14	25	15	11	10	11	9	9	10	13	20	16	10	13	11	51	65	58	18	13	16	21	57	22	65	9
21	69	56	23	24	18	12	22	12	43	15	20	26	45	63	60	11	24	9	36	45	68	49	43	14	34	69	9
22	28	48	26	32	20	56	78	32	15	39	27	42	30	36	37	63	40	60	46	50	64	31	19	16	39	78	15
23	13	28	19	17	32	39	16	12	30	20	22	17	22	44	45	16	11	36	65	81	102	60	94	52	37	102	11
24	52	70	23	63	13	30	51	23	77	16	37	65	31	50	45	61	65	45	33	40	63	51	76	63	48	77	13
25	59	88	23	69	39	37	57	76	98	33	34	31	65	53	39	22	20	30	72	88	90	16	58	14	50	98	14
26	49	31	46	12	20	45	24	14	21	20	17	37	46	49	48	17	24	36	51	50	69	51	100	84	40	100	12
27	85	50	76	28	30	14	50	19	11	17	13	17	47	18	10	18	93	69	53	33	55	63	19	20	38	93	10
28	21	65	71	60	36	14	22	62	14	24	21	30	24	56	38	35	87	67	60	77	37	61	62	93	47	93	14
29	89	58	91	50	60	30	72	68	59	81	52	25	60	50	53	21	19	81	88	71	17	16	28	15	52	91	15
30	15	9	12	10	10	12	13	16	11	73	51	83	41	24	26	18	11	7	10	7	13	11	27	23	22	83	7
Avg	34	37	36	42	37	35	43	38	46	36	32	36	36	36	32	26	30	30	38	36	37	39	37	35	36	80	10
Max	89	88	91	98	97	80	98	95	98	81	82	83	68	99	81	87	93	81	97	88	102	98	101	93	59	102	15
Min	6	6	7	8	9	7	6	8	9	10	9	11	14	8	8	11	6	6	5	6	4	9	5	6	19	28	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
December 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	23	59	34	58	47	12	80	48	49	32	76	44	36	21	33	31	12	16	21	20	53	32	83	58	41	83	12
2	28	15	39	20	14	13	18	13	9	12	18	31	8	11	11	21	19	12	12	50	87	11	8	10	20	87	8
3	8	7	9	15	9	8	7	12	32	12	10	26	23	28	62	15	10	37	11	17	10	24	15	12	17	62	7
4	9	10	22	21	21	29	60	29	23	32	19	29	38	19	25	20	10	8	21	25	70	48	12	15	26	70	8
5	52	22	25	76	32	13	24	34	26	16	21	37	28	33	25	12	11	13	72	23	10	8	7	9	26	76	7
6	7	10	6	7	6	7	9	19	13	9	18	26	17	14	11	10	13	12	8	16	17	12	16	17	13	26	6
7	57	23	48	73	67	53	78	16	31	39	27	32	35	42	76	94	14	48	26	55	63	54	14	13	45	94	13
8	76	81	14	85	40	82	55	71	26	58	26	51	49	56	10	14	5	10	26	14	94	100	90	69	50	100	5
9	76	71	30	33	21	15	15	18	60	79	67	61	8	35	55	35	33	32	70	12	46	64	11	18	40	79	8
10	15	16	9	7	9	9	21	23	37	96	12	26	33	11	9	9	13	13	14	16	25	30	28	14	21	96	7
11	19	28	28	14	10	12	7	16	25	47	43	42	30	8	8	6	6	19	83	35	30	37	23	41	26	83	6
12	92	77	32	81	45	41	60	36	75	57	49	Ca	Ca	Ca	54	62	68	77	72	81	73	61	60	75	63	92	32
13	32	14	11	6	7	14	21	35	56	42	23	25	13	18	18	14	10	20	31	43	11	10	22	44	23	56	6
14	20	10	17	24	16	13	15	10	19	16	12	19	17	35	30	27	25	26	21	19	24	18	70	23	22	70	10
15	25	21	23	7	7	9	20	25	16	17	17	11	12	18	20	11	10	9	10	17	13	12	13	17	15	25	7
16	13	21	25	20	19	11	9	8	11	10	8	8	10	9	16	20	9	7	24	26	20	14	11	26	15	26	7
17	17	26	66	89	68	22	72	45	92	64	67	62	57	95	73	82	60	49	44	87	30	74	70	43	61	95	17
18	16	11	16	15	11	17	15	23	13	12	5	5	9	15	6	7	6	5	6	9	9	14	11	7	11	23	5
19	9	9	63	21	19	13	28	17	14	15	43	27	23	37	23	10	19	74	33	52	73	65	41	22	31	74	9
20	15	20	10	26	77	75	67	81	63	61	59	35	71	49	73	94	88	15	20	15	32	19	23	45	47	94	10
21	39	24	14	22	15	22	17	13	10	16	17	52	57	15	15	15	18	22	13	20	21	13	24	12	21	57	10
22	15	22	28	27	36	45	16	69	81	36	12	20	20	22	20	16	23	18	8	22	14	21	15	19	26	81	8
23	25	24	22	21	15	17	19	26	29	38	30	32	29	35	37	64	89	36	26	9	12	13	12	16	28	89	9
24	23	66	18	15	41	21	12	17	23	22	20	16	11	16	19	16	19	21	11	12	12	7	17	23	20	66	7
25	30	62	51	68	33	62	52	42	68	38	38	33	28	35	55	18	83	101	69	77	71	73	29	64	53	101	18
26	18	50	32	35	50	29	19	34	90	70	43	92	43	16	8	13	22	29	26	18	9	89	98	89	43	98	8
27	83	24	72	46	15	70	28	30	51	53	30	47	27	39	31	22	94	39	47	76	87	18	15	25	45	94	15
28	11	13	52	29	15	18	21	15	13	16	9	15	12	15	11	9	9	10	22	20	24	16	21	21	17	52	9
29	23	18	23	25	16	18	43	65	16	19	24	22	15	11	22	16	14	13	20	19	10	21	33	33	22	65	10
30	28	20	15	23	19	21	11	13	12	13	18	25	13	16	43	34	19	27	27	32	22	36	28	22	22	43	11
31	26	26	8	21	19	20	9	10	7	9	20	31	22	9	10	9	10	13	17	36	24	35	11	9	17	36	7
Avg	30	29	28	33	26	26	30	29	35	34	28	33	26	26	29	27	27	27	29	31	35	34	30	29	30	71	10
Max	92	81	72	89	77	82	80	81	92	96	76	92	71	95	76	94	94	101	83	87	94	100	98	89	63	101	32
Min	7	7	6	6	6	7	7	8	7	9	5	5	8	8	6	6	5	5	6	9	9	7	7	7	11	23	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.5	6.0	5.8	4.4	3.2	3.0	2.8	4.2	4.5	4.6	5.0	6.2	6.9	7.2	8.3	8.8	9.1	8.9	7.9	6.9	6.0	5.7	5.5	4.8	5.9	9.1	2.8
2	4.3	4.2	3.8	3.5	3.4	3.0	2.7	2.5	2.8	4.0	5.3	5.9	7.0	7.9	8.8	9.3	9.5	9.0	8.5	8.2	7.9	7.3	7.4	6.9	6.0	9.5	2.5
3	5.3	3.4	3.6	3.9	3.9	3.8	3.5	3.2	3.3	3.4	3.4	3.4	3.3	3.3	3.5	3.3	3.0	2.7	3.2	2.7	2.8	2.9	2.8	2.7	3.3	5.3	2.7
4	2.6	2.7	2.7	2.4	1.8	0.9	0.4	-0.2	0.7	2.7	4.0	5.0	5.8	6.7	8.0	8.7	8.5	8.2	7.3	6.2	4.0	3.4	2.8	2.1	4.1	8.7	-0.2
5	2.9	2.0	1.5	1.5	0.2	0.3	0.0	-2.4	-2.6	0.0	3.2	5.8	9.3	12.6	13.5	13.9	14.2	13.8	12.3	11.6	10.2	10.1	8.1	7.4	6.2	14.2	-2.6
6	7.1	4.7	3.7	3.8	2.4	3.7	2.6	0.2	2.2	4.2	6.9	9.3	11.8	14.5	16.4	17.3	17.2	17.1	16.8	13.0	10.5	10.2	8.7	7.0	8.8	17.3	0.2
7	6.7	4.6	4.8	3.9	3.0	1.9	1.7	1.6	2.5	4.9	7.9	11.1	15.0	17.3	17.2	17.2	16.0	13.6	12.1	11.3	10.6	9.7	8.2	7.1	8.7	17.3	1.6
8	6.6	6.1	5.9	5.9	5.4	5.5	5.0	4.8	4.8	5.8	6.3	7.3	7.5	7.6	7.9	8.2	8.2	7.6	6.8	5.9	4.8	3.9	2.9	2.1	6.0	8.2	2.1
9	1.6	1.1	0.8	1.2	0.3	0.9	0.6	0.7	1.7	3.8	5.7	7.6	9.3	10.5	11.3	12.1	12.4	11.9	10.2	8.8	8.0	5.9	4.5	3.1	5.6	12.4	0.3
10	3.0	2.0	1.4	0.7	-0.2	-0.2	-1.5	-1.3	-1.0	1.1	4.1	6.3	7.9	8.1	7.6	7.6	7.5	7.2	6.9	6.4	6.1	6.0	5.9	5.8	4.1	8.1	-1.5
11	5.6	5.4	5.2	4.6	4.2	3.8	3.2	3.3	3.7	4.6	6.0	6.8	7.5	8.3	8.8	9.0	8.4	7.6	6.7	6.0	4.9	3.7	1.6	0.8	5.4	9.0	0.8
12	0.5	0.5	-1.3	-1.4	-1.5	-1.9	-1.3	-1.9	-1.8	-0.1	1.5	3.3	4.9	6.5	7.5	8.0	8.6	8.3	7.5	7.1	6.0	5.7	5.5	5.5	3.2	8.6	-1.9
13	4.8	4.3	2.9	2.2	0.9	-0.2	-1.2	-1.4	-0.5	0.8	3.1	5.7	7.0	8.0	8.7	9.1	9.0	8.9	7.8	7.1	6.4	5.3	5.0	4.7	4.5	9.1	-1.4
14	4.1	3.0	3.1	3.3	3.2	2.6	2.6	2.4	2.5	3.0	3.8	4.4	5.3	5.5	4.6	4.3	4.2	4.3	4.4	4.0	2.8	3.2	2.8	1.0	3.5	5.5	1.0
15	0.4	0.1	-1.2	-1.7	-2.2	-2.1	-2.8	-2.9	-2.9	-2.3	-1.0	0.4	2.9	5.8	7.8	9.5	9.9	9.0	7.6	6.8	5.7	4.6	3.3	1.6	2.3	9.9	-2.9
16	1.4	-0.2	-0.6	-1.5	-2.3	-1.8	-3.1	-1.8	-1.3	-1.1	-0.1	1.0	2.9	3.9	4.8	5.5	5.7	5.8	6.0	5.6	4.9	4.4	3.7	3.2	1.9	6.0	-3.1
17	3.1	3.0	2.7	2.6	2.4	1.7	1.0	1.2	1.0	1.7	2.0	3.7	6.2	6.7	6.7	7.1	7.4	7.1	6.4	5.7	5.5	4.9	4.3	2.7	4.0	7.4	1.0
18	2.0	1.6	-0.3	-0.6	-0.5	-0.8	-1.4	-3.1	-1.9	0.2	2.7	5.2	8.0	9.9	10.6	11.0	10.9	9.8	8.9	8.1	7.7	7.2	6.7	6.3	4.5	11.0	-3.1
19	6.4	5.9	6.0	4.9	5.1	3.9	3.8	4.5	5.2	6.2	7.6	10.0	12.9	13.6	14.2	14.3	13.9	13.1	12.0	11.1	10.7	10.3	9.9	9.7	9.0	14.3	3.8
20	9.3	8.5	8.4	7.3	6.8	6.5	6.5	5.9	5.2	6.4	7.0	9.0	11.1	12.0	12.2	12.2	12.1	11.3	10.2	9.4	8.6	7.6	7.6	6.3	8.6	12.2	5.2
21	5.5	5.8	4.9	3.0	1.2	1.5	0.9	0.0	0.6	1.6	4.8	8.2	11.3	13.1	14.2	14.5	14.2	13.3	12.1	11.3	10.6	9.6	8.3	7.9	7.4	14.5	0.0
22	5.1	3.4	3.4	2.9	1.2	0.8	0.8	0.7	0.0	1.2	4.6	7.8	10.5	14.0	16.2	16.7	16.3	14.9	13.3	12.0	9.4	8.4	6.8	5.8	7.3	16.7	0.0
23	4.6	3.6	3.0	2.3	1.6	0.8	-0.3	-0.5	-0.2	0.9	4.1	7.0	9.5	11.9	13.5	14.4	14.2	13.9	13.4	9.0	8.1	7.8	5.4	5.3	6.4	14.4	-0.5
24	4.0	3.7	2.6	1.7	1.5	1.4	0.7	-0.2	-0.1	1.3	4.0	6.9	8.9	11.3	13.0	14.2	14.3	14.0	12.6	10.6	8.0	6.3	5.8	4.7	6.3	14.3	-0.2
25	4.6	3.2	2.2	2.1	0.8	0.4	0.0	-1.3	0.5	1.6	4.1	6.8	9.6	11.9	13.8	15.2	15.6	14.5	13.6	9.9	8.0	7.8	5.9	5.3	6.5	15.6	-1.3
26	3.3	3.3	2.0	0.5	0.7	0.2	-0.8	-1.1	-1.9	-0.1	2.8	5.4	8.3	10.9	13.8	15.6	15.2	14.0	12.4	10.4	8.6	7.8	5.7	4.3	5.9	15.6	-1.9
27	3.2	1.2	1.9	0.8	0.1	-2.0	-2.0	-2.3	-1.8	-0.5	2.6	5.2	7.9	10.4	12.0	9.5	6.3	4.6	3.4	2.2	1.3	0.5	0.0	-0.8	2.7	12.0	-2.3
28	-1.6	-2.9	-3.1	-3.9	-5.1	-5.8	-6.4	-6.6	-6.7	-6.8	-6.9	-6.9	-6.3	-5.5	-5.0	-5.1	-5.5	-5.9	-6.1	-6.3	-6.5	-6.5	-6.6	-6.9	-5.6	-1.6	-6.9
29	-7.2	-6.9	-7.4	-7.4	-7.6	-8.2	-9.5	-10.5	-10.0	-9.9	-8.1	-6.7	-5.7	-4.6	-3.7	-2.6	-1.8	-1.8	-2.6	-2.9	-3.7	-3.7	-4.6	-5.0	-5.9	-1.8	-10.5
30	-5.7	-5.5	-4.9	-4.9	-5.4	-5.3	-7.4	-7.4	-7.1	-6.8	-4.8	-1.5	4.1	6.1	6.6	6.7	6.2	5.5	5.1	5.1	5.0	4.7	4.4	4.3	-0.1	6.7	-7.4
31	4.2	3.7	3.8	3.9	3.8	3.8	3.5	3.1	3.4	3.0	1.8	2.3	3.9	4.2	4.0	4.2	4.4	4.5	4.4	4.3	4.4	4.5	4.3	4.1	3.8	4.5	1.8
Avg	3.3	2.6	2.2	1.7	1.0	0.7	0.1	-0.2	0.2	1.3	3.0	4.9	6.9	8.4	9.3	9.7	9.5	8.9	8.1	7.0	6.0	5.5	4.6	3.9	4.5	10.1	-0.7
Max	9.3	8.5	8.4	7.3	6.8	6.5	6.5	5.9	5.2	6.4	7.9	11.1	15.0	17.3	17.2	17.3	17.2	17.1	16.8	13.0	10.7	10.3	9.9	9.7	9.0	17.3	5.2
Min	-7.2	-6.9	-7.4	-7.4	-7.6	-8.2	-9.5	-10.5	-10.0	-9.9	-8.1	-6.9	-6.3	-5.5	-5.0	-5.1	-5.5	-5.9	-6.1	-6.3	-6.5	-6.5	-6.6	-6.9	-5.9	-1.8	-10.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.2	4.3	3.7	3.2	2.9	3.6	3.4	4.1	3.6	4.6	5.6	6.3	7.4	7.5	7.3	7.3	6.9	6.4	5.5	5.5	4.5	2.9	2.4	0.5	4.7	7.5	0.5
2	0.0	-0.2	0.1	-0.5	-0.1	-1.2	-0.7	-0.7	-0.5	-0.1	0.7	3.2	6.5	9.0	9.9	7.7	3.0	3.3	2.7	3.4	2.8	1.6	1.6	0.9	2.2	9.9	-1.2
3	1.0	0.7	0.2	-0.2	-0.5	-0.4	-0.5	-0.9	-1.1	-0.8	0.1	0.8	1.4	1.6	1.3	0.9	0.1	-0.4	-0.9	-0.6	-0.4	-0.8	-1.8	-2.5	-0.2	1.6	-2.5
4	-2.8	-2.5	-3.1	-3.3	-3.5	-3.9	-3.8	-4.1	-4.1	-3.5	-2.5	-1.0	-0.2	-0.3	-0.6	-0.2	-1.2	-1.9	-2.3	-2.7	-2.9	-3.1	-3.5	-3.4	-2.5	-0.2	-4.1
5	-3.8	-4.2	-4.9	-4.5	-3.9	-3.7	-3.8	-4.3	-4.7	-4.2	-2.9	-1.4	-0.9	0.4	0.7	0.1	-0.6	-0.7	-1.1	-0.9	-1.0	-1.8	-1.7	-1.9	-2.3	0.7	-4.9
6	-1.6	-0.9	-0.5	-1.8	-0.1	0.5	-0.4	-0.6	-0.5	-0.4	1.6	2.6	3.4	3.7	4.1	3.9	3.2	2.5	2.2	1.9	1.6	1.2	0.2	0.0	1.1	4.1	-1.8
7	-0.3	0.2	0.0	-0.3	0.2	0.0	-0.2	-0.6	-0.6	-0.4	0.3	1.3	2.8	Au	Au	Au	6.6	7.6	5.8	5.9	4.2	3.5	3.1	2.7	2.0	7.6	-0.6
8	2.6	2.5	2.7	2.8	2.6	2.4	2.3	2.5	2.4	3.0	3.5	3.9	4.1	3.1	2.5	2.5	3.1	3.0	2.4	2.4	2.5	2.2	2.1	2.0	2.7	4.1	2.0
9	2.0	1.6	1.3	1.3	1.0	0.7	-0.1	-0.1	-2.0	-1.1	0.0	1.0	2.1	3.0	3.5	3.7	3.6	3.5	2.6	1.4	0.9	0.6	0.7	0.5	1.3	3.7	-2.0
10	0.4	0.2	0.3	-0.5	-0.7	-1.4	-0.7	-0.5	-0.3	-0.1	0.9	2.4	3.4	5.5	7.0	8.3	8.5	8.7	9.0	9.1	9.0	8.5	8.5	8.4	3.9	9.1	-1.4
11	8.2	7.4	6.8	6.7	6.2	5.5	5.3	5.2	3.2	3.4	4.8	6.2	7.4	8.4	9.1	9.3	9.5	8.9	7.8	5.9	4.5	3.5	3.5	2.8	6.2	9.5	2.8
12	1.9	0.8	0.5	0.1	-0.7	-1.8	-2.4	-2.6	-2.9	-2.5	-2.0	-0.8	-0.1	0.5	2.1	4.5	4.1	4.4	4.5	5.9	4.1	4.9	8.2	8.7	1.6	8.7	-2.9
13	8.0	8.1	7.5	7.1	6.6	6.6	6.7	6.4	7.2	7.5	7.5	8.1	8.1	7.7	7.0	6.6	6.3	5.7	5.5	5.0	4.8	4.6	4.5	4.4	6.6	8.1	4.4
14	4.3	4.0	3.7	3.2	3.0	2.4	1.2	0.4	0.5	0.7	1.2	2.3	3.3	4.5	5.5	5.7	5.2	4.1	3.5	2.9	2.6	2.4	2.4	2.3	3.0	5.7	0.4
15	2.4	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.9	1.9	2.2	2.4	2.6	2.8	2.9	2.9	2.0	1.7	1.5	1.4	1.2	1.4	0.3	-0.7	1.9	2.9	-0.7
16	-0.4	-0.1	0.0	-0.5	-0.8	-0.4	-0.2	0.3	0.9	1.1	0.3	-0.5	0.4	0.9	1.5	1.3	0.8	0.4	0.2	-1.4	-2.3	-1.7	-1.6	-1.5	-0.1	1.5	-2.3
17	-2.1	-1.7	-1.4	-1.1	-0.8	-0.8	-1.5	-1.8	-2.3	-1.6	-1.2	-0.9	0.2	1.6	2.3	2.1	1.9	1.5	1.4	1.2	1.5	1.9	2.6	2.5	0.1	2.6	-2.3
18	2.3	2.2	2.2	2.2	2.1	2.6	3.0	3.0	3.4	3.5	4.2	4.8	6.0	6.9	6.9	7.1	7.5	6.8	6.8	5.9	5.3	3.5	3.7	2.5	4.4	7.5	2.1
19	1.3	3.9	4.4	2.4	4.6	6.1	6.0	6.2	5.8	6.6	7.8	9.1	9.4	9.5	9.5	9.5	8.7	6.8	6.4	6.2	6.1	6.1	5.6	5.6	6.4	9.5	1.3
20	5.6	4.8	4.3	3.8	3.6	3.2	2.8	2.3	1.6	0.9	0.7	0.6	0.6	0.3	0.1	-0.2	-1.2	-2.7	-3.8	-7.9	-8.4	-8.7	-8.7	-8.7	-0.6	5.6	-8.7
21	-9.3	-9.6	-10.4	-11.2	-11.8	-12.1	-12.6	-13.4	-13.1	-12.9	-11.1	-9.1	-7.4	-6.0	-4.6	-4.3	-4.5	-4.7	-5.3	-5.4	-7.9	-8.9	-9.6	-10.1	-9.0	-4.3	-13.4
22	-10.2	-11.0	-11.1	-11.7	-12.5	-12.2	-12.2	-13.6	-13.0	-11.9	-10.8	-8.6	-6.7	-4.7	-3.5	-2.9	-2.8	-2.8	-3.4	-3.6	-5.2	-6.6	-7.1	-7.6	-8.2	-2.8	-13.6
23	-7.7	-8.6	-9.6	-9.7	-11.3	-11.4	-11.1	-11.5	-11.8	-10.9	-9.5	-7.3	-5.3	-3.6	-2.0	-1.5	-1.6	-1.9	-2.3	-3.7	-4.2	-6.4	-6.5	-7.1	-6.9	-1.5	-11.8
24	-7.1	-8.5	-9.3	-9.8	-10.2	-9.0	-9.5	-10.9	-10.9	-10.2	-8.2	-5.5	-3.5	-2.8	-1.3	-0.1	0.1	-0.5	-0.6	-0.6	-0.3	0.0	-0.4	-0.6	-5.0	0.1	-10.9
25	-0.5	-1.2	-2.4	-2.0	-2.3	-4.2	-4.0	-5.2	-5.7	-5.7	-3.9	-1.6	0.0	1.1	3.0	4.1	3.9	3.7	3.2	2.8	1.5	0.0	0.3	-0.5	-0.6	4.1	-5.7
26	-0.9	-2.3	-2.8	-3.5	-4.3	-4.3	-4.9	-5.7	-5.6	-4.9	-4.0	-1.5	0.7	2.3	2.9	3.1	2.9	3.1	2.5	1.1	-0.1	-0.4	-1.3	-1.7	-1.2	3.1	-5.7
27	-2.7	-2.8	-3.2	-4.5	-4.5	-4.6	-5.0	-5.4	-5.9	-5.8	-5.5	-3.3	-1.1	0.3	1.3	1.8	2.1	1.8	1.5	0.8	-0.6	-0.8	-1.5	-1.9	-2.1	2.1	-5.9
28	-2.8	-3.6	-5.0	-4.8	-5.4	-5.7	-6.0	-6.8	-7.5	-7.1	-6.4	-4.2	-1.6	0.3	1.7	2.1	2.1	1.9	0.9	-0.4	-1.7	-1.6	-3.1	-3.2	-2.8	2.1	-7.5
29	-3.7	-5.2	-4.9	-5.8	-5.9	-6.6	-6.5	-6.9	-7.9	-7.1	-5.4	-4.1	-1.8	0.1	2.1	2.8	2.6	3.0	3.2	3.1	5.2	4.5	4.3	4.3	-1.5	5.2	-7.9
30	3.9	4.0	3.6	3.6	3.0	2.9	2.5	2.6	3.1	3.1	2.3	2.9	3.4	4.5	4.9	5.1	4.8	4.7	4.6	4.1	3.7	3.8	3.7	3.8	3.7	5.1	2.3
Avg	-0.3	-0.5	-0.8	-1.2	-1.4	-1.5	-1.7	-2.0	-2.2	-1.8	-1.0	0.3	1.5	2.3	3.0	3.2	2.9	2.6	2.1	1.6	1.0	0.5	0.4	0.0	0.3	4.1	-3.4
Max	8.2	8.1	7.5	7.1	6.6	6.6	6.7	6.4	7.2	7.5	7.8	9.1	9.4	9.5	9.9	9.5	9.5	8.9	9.0	9.1	9.0	8.5	8.5	8.7	6.6	9.9	4.4
Min	-10.2	-11.0	-11.1	-11.7	-12.5	-12.2	-12.6	-13.6	-13.1	-12.9	-11.1	-9.1	-7.4	-6.0	-4.6	-4.3	-4.5	-4.7	-5.3	-7.9	-8.4	-8.9	-9.6	-10.1	-9.0	-4.3	-13.6

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
December 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.1	3.6	3.4	3.2	2.6	3.1	3.3	2.7	3.0	3.0	4.1	4.3	3.6	4.5	4.4	4.1	4.1	3.9	3.7	3.7	3.2	3.0	2.8	2.9	3.5	4.5	2.6
2	3.2	4.3	4.5	4.2	3.4	2.2	1.3	2.0	2.3	1.6	1.8	1.9	-0.3	-0.7	-1.2	-1.6	-2.1	-2.7	-3.3	-4.0	-5.9	-8.7	-9.7	-10.6	-0.8	4.5	-10.6
3	-11.1	-11.6	-11.9	-12.3	-13.1	-13.7	-14.5	-14.9	-15.1	-14.6	-14.3	-14.2	-14.2	-13.7	-13.4	-13.6	-14.0	-14.4	-15.2	-15.8	-16.5	-17.0	-17.2	-17.3	-14.3	-11.1	-17.3
4	-17.4	-17.4	-17.4	-17.3	-17.3	-18.0	-18.3	-17.9	-17.9	-17.6	-17.0	-16.3	-15.9	-15.7	-15.6	-15.5	-15.8	-16.6	-17.6	-18.0	-18.8	-19.0	-20.3	-21.0	-17.5	-15.5	-21.0
5	-21.6	-22.0	-22.4	-22.6	-23.1	-23.8	-24.1	-24.4	-24.9	-23.8	-22.5	-21.1	-19.6	-18.5	-17.6	-17.2	-17.1	-17.3	-17.6	-18.7	-18.2	-18.5	-18.9	-19.2	-20.6	-17.1	-24.9
6	-19.7	-20.3	-21.2	-22.1	-22.7	-23.1	-23.7	-24.2	-24.4	-23.9	-23.2	-22.3	-21.3	-20.8	-20.7	-20.8	-21.6	-22.4	-23.1	-23.8	-24.2	-24.4	-24.9	-25.3	-22.7	-19.7	-25.3
7	-25.4	-25.6	-25.7	-25.7	-25.8	-25.8	-25.9	-26.2	-26.6	-26.3	-25.3	-24.3	-23.1	-22.3	-21.4	-20.9	-20.8	-20.9	-21.5	-22.1	-22.7	-24.0	-24.9	-24.6	-24.1	-20.8	-26.6
8	-24.7	-25.4	-26.3	-25.7	-26.8	-26.1	-25.9	-25.3	-25.2	-24.3	-23.4	-22.0	-20.3	-19.0	-17.1	-16.8	-17.0	-17.6	-18.1	-18.3	-19.6	-20.3	-20.5	-21.7	-22.0	-16.8	-26.8
9	-22.0	-22.3	-20.9	-20.8	-19.2	-18.4	-18.4	-18.3	-17.6	-17.3	-14.4	-14.8	-15.2	-15.5	-14.7	-13.3	-12.8	-10.9	-11.9	-9.0	-9.4	-8.9	-8.3	-8.2	-15.1	-8.2	-22.3
10	-7.9	-7.8	-7.3	-7.0	-7.1	-7.1	-7.0	-7.1	-7.1	-7.1	-6.5	-6.1	-5.8	-5.3	-5.2	-5.4	-5.4	-5.5	-5.7	-5.7	-5.5	-5.6	-5.6	-5.8	-6.3	-5.2	-7.9
11	-5.7	-5.9	-6.1	-5.9	-5.6	-5.5	-5.6	-5.9	-5.8	-8.0	-8.1	-7.5	-4.3	-2.9	-2.7	-2.3	-2.5	-3.0	-4.2	-6.6	-5.9	-7.5	-8.0	-8.5	-5.6	-2.3	-8.5
12	-8.3	-8.1	-8.5	-8.3	-8.2	-7.7	-8.0	-8.6	-8.4	-8.5	-7.4	Ca	Ca	Ca	-3.2	-2.5	-2.6	-1.8	-2.4	-3.0	-2.6	-1.1	-1.1	-1.7	-5.3	-1.1	-8.6
13	-0.6	-0.3	-0.1	-0.4	-1.2	-1.3	-1.4	-1.4	-1.2	-0.5	-0.1	0.5	1.0	1.2	1.6	1.2	0.8	0.5	0.5	0.5	1.2	1.3	1.4	1.2	0.2	1.6	-1.4
14	1.7	1.8	1.6	1.5	1.7	1.5	1.6	1.7	1.2	1.2	2.0	2.2	2.1	2.1	2.3	2.8	2.9	2.9	3.4	4.2	3.5	3.2	2.6	3.7	2.3	4.2	1.2
15	4.2	3.4	3.0	3.6	3.4	3.2	3.1	3.2	3.6	4.3	5.4	6.0	5.6	5.9	6.1	6.5	6.4	6.2	5.0	4.4	4.7	4.8	5.9	5.4	4.7	6.5	3.0
16	4.0	3.7	4.2	4.0	4.3	4.5	4.3	3.9	3.6	4.1	4.9	5.5	6.1	6.2	6.3	6.2	5.6	5.2	4.4	3.7	3.6	2.9	3.1	2.0	4.4	6.3	2.0
17	2.3	2.0	-1.3	-0.9	-2.3	-3.5	-4.1	-4.0	-3.1	0.0	1.8	3.5	4.5	5.5	8.6	9.3	8.2	7.7	4.8	4.8	6.6	5.7	6.4	6.5	2.9	9.3	-4.1
18	8.2	7.7	7.3	6.4	5.5	5.0	4.7	4.3	4.6	4.4	4.7	4.7	4.9	4.9	5.0	4.6	3.9	3.5	2.8	2.2	2.1	1.7	1.1	0.0	4.3	8.2	0.0
19	-1.7	-3.7	-6.4	-9.7	-11.0	-12.0	-12.5	-12.7	-12.8	-12.6	-12.0	-11.6	-11.0	-10.6	-9.9	-9.9	-9.9	-9.9	-10.5	-11.1	-11.6	-13.0	-12.9	-13.2	-10.5	-1.7	-13.2
20	-13.0	-13.1	-13.2	-13.1	-13.5	-13.8	-14.5	-14.4	-13.7	-12.0	-11.8	-9.8	-7.9	-7.0	-6.5	-6.0	-6.1	-7.4	-7.4	-7.4	-7.1	-6.5	-6.2	-6.3	-9.9	-6.0	-14.5
21	-6.7	-5.9	-5.6	-5.1	-4.6	-4.0	-3.9	-3.7	-3.7	-3.7	-3.4	-3.3	-2.7	-2.1	-1.8	-1.5	-1.4	-1.2	-1.2	-1.8	-1.9	-2.1	-2.3	-2.2	-3.2	-1.2	-6.7
22	-2.2	-2.5	-2.3	-1.7	-1.9	-0.8	-0.4	-1.1	-0.7	-0.3	0.1	0.4	0.6	0.6	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.5	-0.3	0.6	-2.5
23	0.4	0.3	0.5	0.7	0.6	1.2	1.7	1.3	1.4	1.1	1.7	3.3	4.1	4.4	5.2	5.7	5.7	5.4	5.0	3.1	2.5	1.2	1.3	1.2	2.5	5.7	0.3
24	0.9	0.5	-0.5	-0.1	-0.2	-0.2	0.0	0.0	-0.2	-0.2	-0.1	0.3	0.6	0.7	1.1	0.9	0.3	-0.3	-0.8	-1.2	-1.3	-1.7	-2.2	-2.9	-0.3	1.1	-2.9
25	-3.6	-3.8	-4.5	-5.1	-4.9	-5.0	-5.7	-8.7	-7.7	-9.4	-7.8	-7.0	-5.8	-5.0	-4.4	-4.1	-3.9	-4.2	-4.1	-3.4	-4.1	-2.6	0.3	-0.5	-4.8	0.3	-9.4
26	1.2	1.4	1.6	2.0	1.6	2.0	1.7	1.9	1.6	1.5	0.4	0.4	4.2	4.9	5.7	5.8	6.2	5.8	6.1	6.2	6.5	5.3	4.3	3.2	3.4	6.5	0.4
27	2.9	4.1	1.7	-0.5	-1.8	-0.7	-2.7	-2.8	-3.1	-2.9	-3.4	-2.1	-1.0	0.6	1.7	1.4	2.0	1.0	1.0	0.4	0.3	5.9	6.7	6.3	0.6	6.7	-3.4
28	5.0	3.1	2.6	2.5	2.3	2.1	1.9	1.6	1.3	1.0	1.1	1.8	1.5	1.5	1.7	1.4	1.0	0.8	0.3	0.0	0.0	-0.2	-0.4	-0.6	1.4	5.0	-0.6
29	-0.9	-1.1	-1.4	-1.9	-2.3	-2.5	-2.3	-2.7	-2.4	-2.7	-2.3	-2.6	-2.6	-1.9	-1.2	-0.6	-0.4	0.0	-0.3	-0.6	-0.1	0.2	0.5	0.6	-1.3	0.6	-2.7
30	0.6	1.0	1.0	1.0	1.0	0.8	0.6	0.2	-0.1	-0.3	0.3	1.9	3.3	3.6	3.1	4.1	3.8	3.6	3.5	2.8	2.4	2.3	2.7	2.7	1.9	4.1	-0.3
31	3.1	3.7	4.0	4.1	4.5	4.5	3.9	3.5	3.1	2.6	2.5	2.8	3.5	4.1	4.0	3.7	3.1	2.4	1.9	1.3	1.6	1.8	2.2	2.1	3.1	4.5	1.3
Avg	-4.9	-5.0	-5.4	-5.6	-5.9	-5.9	-6.2	-6.4	-6.3	-6.2	-5.6	-4.8	-4.2	-3.7	-3.2	-3.0	-3.2	-3.4	-3.9	-4.3	-4.4	-4.6	-4.6	-4.9	-4.8	-1.5	-8.1
Max	8.2	7.7	7.3	6.4	5.5	5.0	4.7	4.3	4.6	4.4	5.4	6.0	6.1	6.2	8.6	9.3	8.2	7.7	6.1	6.2	6.6	5.9	6.7	6.5	4.7	9.3	3.0
Min	-25.4	-25.6	-26.3	-25.7	-26.8	-26.1	-25.9	-26.2	-26.6	-26.3	-25.3	-24.3	-23.1	-22.3	-21.4	-20.9	-21.6	-22.4	-23.1	-23.8	-24.2	-24.4	-24.9	-25.3	-24.1	-20.8	-26.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.1	5.4	4.7	3.7	2.2	2.4	2.4	4.2	4.6	4.9	5.7	7.1	7.4	8.0	9.3	9.7	9.6	8.9	7.5	6.5	5.8	5.5	5.3	4.6	5.9	9.7	2.2
2	3.8	3.6	3.3	3.0	2.6	2.0	1.9	2.6	3.3	4.7	6.4	6.7	7.8	8.7	9.5	9.9	9.9	8.9	8.2	7.6	7.8	7.2	7.3	6.9	6.0	9.9	1.9
3	5.4	3.5	3.7	3.9	3.9	3.8	3.5	3.3	3.5	3.7	3.8	3.9	3.8	4.1	4.3	3.9	3.5	3.0	3.1	2.5	2.7	2.7	2.5	2.5	3.5	5.4	2.5
4	2.4	2.6	2.4	1.9	1.3	0.5	-0.1	-0.4	1.1	3.4	4.7	5.8	6.9	7.9	8.9	9.5	9.1	8.3	6.6	5.7	3.4	3.0	2.0	1.6	4.1	9.5	-0.4
5	1.8	1.3	0.2	0.5	-0.6	-0.6	-1.7	-3.3	-2.5	0.5	3.9	6.7	10.2	13.7	14.6	14.7	14.6	13.8	11.9	11.1	9.2	9.0	7.0	6.4	5.9	14.7	-3.3
6	6.0	3.6	3.2	2.8	1.5	2.9	0.8	-0.3	2.5	4.8	7.6	10.2	12.7	15.1	17.1	18.1	17.7	15.6	15.8	12.1	9.9	9.2	7.9	6.0	8.5	18.1	-0.3
7	5.8	3.8	3.8	3.4	2.4	1.5	1.2	1.2	2.9	5.6	8.7	11.8	15.9	18.2	17.7	18.1	16.4	13.5	12.0	11.2	10.5	9.6	8.2	7.2	8.8	18.2	1.2
8	6.7	6.1	5.7	5.9	5.1	5.5	4.8	4.6	5.1	6.2	6.8	8.1	8.1	8.2	8.5	8.8	8.9	7.5	6.5	5.3	4.2	3.2	2.6	1.7	6.0	8.9	1.7
9	0.9	0.6	0.6	0.8	0.1	0.4	0.1	0.2	2.1	4.5	6.6	8.4	10.2	11.4	12.2	12.7	12.6	11.6	9.0	8.3	7.3	5.2	3.8	2.8	5.5	12.7	0.1
10	2.5	1.4	0.7	0.1	-0.8	-1.1	-2.1	-1.1	-0.6	1.7	4.7	7.3	9.1	8.9	8.1	8.1	7.8	7.3	7.0	6.5	6.2	6.0	5.9	5.9	4.1	9.1	-2.1
11	5.7	5.5	5.2	4.4	4.0	3.0	2.4	3.1	4.0	4.9	6.7	7.8	8.7	9.4	9.6	9.8	8.8	7.4	6.4	5.5	4.4	3.2	1.1	0.3	5.5	9.8	0.3
12	0.1	0.0	-2.0	-2.0	-2.1	-2.2	-1.8	-2.5	-1.6	0.4	2.0	3.9	5.5	7.3	8.1	8.4	9.0	7.7	7.4	6.5	5.2	4.9	5.0	5.0	3.0	9.0	-2.5
13	4.1	3.8	2.5	1.6	0.0	-0.8	-1.6	-1.5	-0.1	1.5	3.8	6.7	7.8	8.9	9.5	9.6	9.1	8.7	7.4	7.0	6.4	5.3	5.0	4.6	4.6	9.6	-1.6
14	4.1	3.0	3.0	3.4	3.3	2.7	2.5	2.3	2.7	3.6	4.3	5.0	5.9	6.0	4.4	4.6	4.4	3.9	3.8	3.5	2.3	2.6	2.3	0.5	3.5	6.0	0.5
15	0.3	-0.1	-1.4	-2.0	-2.1	-2.1	-2.7	-2.7	-2.6	-2.0	-0.5	1.1	3.5	6.7	8.5	10.2	10.2	8.9	7.3	6.4	4.9	3.9	2.4	0.6	2.4	10.2	-2.7
16	0.1	-1.1	-1.5	-2.2	-2.7	-2.2	-3.3	-2.1	-1.8	-0.9	0.3	1.5	3.3	4.3	5.4	5.8	6.0	5.6	5.8	5.3	4.5	4.1	3.7	3.2	1.7	6.0	-3.3
17	3.0	2.6	2.3	2.5	2.2	1.1	0.5	0.7	0.5	1.8	2.4	4.1	6.6	7.0	7.1	7.4	7.6	7.2	6.2	5.5	5.1	4.5	3.4	2.4	3.9	7.6	0.5
18	1.7	1.3	-0.8	-1.1	-0.9	-1.5	-2.7	-3.8	-1.8	0.6	3.3	6.0	8.9	10.8	11.5	11.7	11.2	9.7	6.9	7.1	6.8	6.5	6.2	5.8	4.3	11.7	-3.8
19	6.2	5.4	5.6	4.4	4.7	3.4	3.3	4.0	5.1	6.6	8.4	10.9	13.6	14.1	14.7	14.8	14.2	12.9	11.2	9.9	9.7	9.7	9.5	9.4	8.8	14.8	3.3
20	9.0	7.9	7.3	6.8	6.5	6.2	6.4	5.3	5.4	6.8	7.7	9.9	12.0	12.9	12.9	12.8	12.4	11.1	9.5	8.6	7.5	6.7	6.8	5.5	8.5	12.9	5.3
21	4.8	4.9	3.3	2.0	0.3	0.7	-0.1	-0.6	0.6	2.2	5.4	9.2	12.0	14.1	15.1	15.2	14.5	13.1	11.6	10.8	9.8	8.9	7.0	6.7	7.1	15.2	-0.6
22	4.1	2.7	2.5	2.2	0.8	0.2	0.3	-0.3	0.4	1.7	5.4	8.4	11.3	14.8	17.1	17.3	16.5	14.3	12.0	10.7	8.1	7.1	5.9	5.0	7.0	17.3	-0.3
23	3.7	3.0	1.8	2.0	1.0	-0.3	-1.2	-0.7	0.2	1.6	4.8	7.8	10.2	12.6	14.2	14.9	14.0	13.3	12.3	8.3	7.6	7.5	4.7	4.6	6.2	14.9	-1.2
24	3.5	3.2	2.2	0.7	0.6	0.2	-0.2	-1.1	0.0	1.9	4.7	7.5	9.7	12.1	13.6	14.6	14.1	13.1	12.1	9.3	7.4	5.7	5.0	3.7	6.0	14.6	-1.1
25	3.6	2.1	1.5	1.4	-0.5	-0.3	-0.9	-1.7	0.1	2.2	4.9	7.5	10.3	12.6	14.4	15.7	15.4	14.1	13.1	8.7	7.4	7.0	5.3	4.6	6.2	15.7	-1.7
26	2.5	2.6	1.3	-0.3	-0.1	-0.6	-1.4	-2.7	-1.7	0.4	3.5	6.1	9.0	11.6	14.3	16.1	15.2	13.4	12.0	9.7	7.9	6.6	4.7	3.2	5.6	16.1	-2.7
27	2.1	0.5	0.4	-0.1	-0.9	-2.4	-2.6	-3.4	-2.1	0.1	3.1	5.8	8.7	11.0	12.4	9.7	6.4	4.7	3.5	2.4	1.5	0.6	0.1	-0.6	2.5	12.4	-3.4
28	-1.4	-2.7	-3.0	-3.7	-4.9	-5.6	-6.2	-6.5	-6.5	-6.6	-6.6	-6.5	-6.0	-5.1	-4.8	-4.9	-5.4	-5.7	-6.0	-6.2	-6.3	-6.4	-6.5	-6.8	-5.4	-1.4	-6.8
29	-7.0	-6.9	-7.9	-8.2	-8.0	-8.6	-10.0	-10.8	-10.0	-9.5	-7.7	-6.1	-5.0	-3.8	-2.9	-1.9	-1.7	-2.4	-2.9	-3.1	-4.0	-4.1	-5.5	-5.7	-6.0	-1.7	-10.8
30	-6.3	-7.1	-7.4	-6.9	-8.1	-9.1	-9.5	-9.0	-8.0	-6.8	-4.2	-1.2	4.1	6.8	7.2	7.0	6.3	5.3	5.0	5.0	5.0	4.7	4.3	4.3	-0.8	7.2	-9.5
31	4.1	3.7	3.8	3.8	3.4	3.6	3.5	3.1	3.5	3.2	2.1	2.9	4.8	4.8	4.5	4.4	4.5	4.5	4.4	4.3	4.3	4.6	4.1	3.8	3.9	4.8	2.1
Avg	2.9	2.1	1.5	1.1	0.5	0.1	-0.5	-0.6	0.3	1.7	3.6	5.6	7.6	9.1	9.9	10.2	9.8	8.7	7.6	6.5	5.6	5.0	4.1	3.4	4.4	10.6	-1.2
Max	9.0	7.9	7.3	6.8	6.5	6.2	6.4	5.3	5.4	6.8	8.7	11.8	15.9	18.2	17.7	18.1	17.7	15.6	15.8	12.1	10.5	9.7	9.5	9.4	8.8	18.2	5.3
Min	-7.0	-7.1	-7.9	-8.2	-8.1	-9.1	-10.0	-10.8	-10.0	-9.5	-7.7	-6.5	-6.0	-5.1	-4.8	-4.9	-5.4	-5.7	-6.0	-6.2	-6.3	-6.4	-6.5	-6.8	-6.0	-1.7	-10.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.1	3.9	3.1	2.5	2.3	3.1	2.6	3.2	3.1	4.5	5.9	6.9	8.1	8.0	7.7	7.5	7.0	5.9	4.6	5.0	3.9	2.3	1.5	-0.3	4.4	8.1	-0.3
2	-0.3	-0.6	-0.1	-0.8	-0.7	-1.2	-1.0	-1.2	-0.7	-0.1	1.1	3.9	7.0	9.4	10.1	7.7	3.0	3.2	2.5	2.7	2.5	1.6	1.3	0.8	2.1	10.1	-1.2
3	0.5	0.3	0.0	-0.4	-0.9	-1.3	-0.9	-1.4	-1.4	-0.4	0.6	1.2	1.8	1.9	1.7	1.3	0.2	-0.3	-0.8	-0.6	-0.6	-0.9	-1.8	-2.6	-0.2	1.9	-2.6
4	-3.2	-3.0	-3.5	-3.5	-4.0	-4.3	-4.3	-4.3	-4.1	-3.2	-2.2	-0.3	0.5	0.0	-0.3	0.2	-1.1	-1.8	-2.2	-2.7	-2.9	-3.1	-3.7	-3.8	-2.5	0.5	-4.3
5	-4.1	-5.0	-5.0	-4.7	-3.7	-3.8	-4.0	-4.7	-4.7	-3.7	-2.1	-0.7	-0.3	1.0	1.1	0.3	-0.4	-0.6	-1.0	-0.8	-0.9	-1.8	-1.8	-2.0	-2.2	1.1	-5.0
6	-1.7	-1.1	-0.8	-1.9	-0.1	0.3	-0.8	-0.9	-1.1	-1.5	1.3	2.6	3.5	3.9	4.5	4.0	2.9	2.1	1.9	1.3	1.3	0.9	0.0	-0.4	0.8	4.5	-1.9
7	-0.4	-0.1	-0.3	-0.4	0.0	-0.1	-0.4	-0.7	-0.7	-0.2	0.5	1.6	3.0	Au	Au	Au	6.2	7.2	5.4	5.3	4.1	3.4	2.7	2.2	1.8	7.2	-0.7
8	2.4	2.3	2.8	2.8	2.7	2.4	2.3	2.4	2.5	3.2	3.9	4.2	4.4	3.5	2.9	2.6	3.2	3.1	2.3	2.4	2.5	2.3	2.2	2.1	2.8	4.4	2.1
9	2.1	1.5	1.1	0.9	0.1	0.0	-0.5	-0.9	-2.2	-0.7	0.4	1.5	2.6	3.4	3.8	4.0	3.2	2.7	2.4	1.2	0.8	0.4	0.5	0.1	1.2	4.0	-2.2
10	0.1	-0.2	0.0	-0.8	-0.9	-1.3	-0.8	-1.0	-0.5	-0.1	1.2	2.2	2.7	4.6	5.7	7.7	7.8	8.4	8.5	8.6	8.5	8.2	8.2	8.1	3.5	8.6	-1.3
11	8.0	7.3	6.6	6.6	6.0	5.2	4.9	4.1	3.0	3.8	5.2	6.6	8.1	8.9	9.4	9.6	8.7	8.2	6.8	5.1	4.2	3.1	3.3	2.3	6.0	9.6	2.3
12	1.4	0.3	0.0	-0.4	-1.6	-2.3	-2.3	-2.6	-2.7	-2.2	-1.5	-0.5	0.1	0.7	2.2	4.2	3.7	3.6	3.6	4.8	3.0	3.3	7.0	8.4	1.3	8.4	-2.7
13	7.9	7.9	6.9	6.5	5.4	6.2	6.5	6.0	7.1	7.8	7.8	8.5	8.7	8.2	7.4	6.8	6.4	5.6	5.5	4.8	4.9	4.6	4.5	4.5	6.5	8.7	4.5
14	4.4	3.7	3.2	2.5	2.7	1.8	0.5	0.0	-0.1	0.7	1.3	2.9	3.9	4.9	5.9	5.7	4.8	3.6	2.7	1.9	1.8	2.3	2.3	2.1	2.7	5.9	-0.1
15	2.4	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.0	2.1	2.5	2.8	2.9	3.0	3.1	3.1	2.1	1.8	1.5	1.3	1.0	1.4	0.3	-0.6	2.0	3.1	-0.6
16	-0.5	-0.2	-0.2	-1.0	-1.1	-0.7	-0.5	0.3	0.9	1.3	0.6	-0.4	0.5	1.1	1.7	1.5	0.9	0.5	0.2	-1.2	-2.2	-1.9	-1.8	-1.7	-0.2	1.7	-2.2
17	-2.4	-2.2	-2.0	-1.7	-1.5	-1.3	-1.5	-2.0	-2.4	-1.5	-1.0	-0.6	0.7	2.1	2.8	2.3	2.0	1.5	1.2	0.9	0.8	1.2	1.7	2.0	-0.0	2.8	-2.4
18	1.7	2.2	2.0	1.4	1.7	2.3	2.5	2.5	3.2	3.3	4.4	4.9	6.0	7.0	7.3	6.9	6.9	6.0	5.8	5.2	4.8	2.8	2.9	1.7	4.0	7.3	1.4
19	0.8	3.1	2.8	1.0	3.2	5.2	5.4	5.8	5.5	6.4	8.2	9.7	9.8	9.9	9.8	9.5	8.8	6.8	6.1	6.2	5.9	5.7	5.6	5.6	6.1	9.9	0.8
20	5.5	4.1	4.1	3.6	3.5	3.2	2.7	2.2	1.5	1.0	1.0	0.9	1.3	1.0	0.7	0.1	-1.1	-2.8	-4.0	-7.9	-8.7	-9.2	-9.4	-9.1	-0.7	5.5	-9.4
21	-9.6	-9.8	-10.8	-11.8	-12.4	-12.8	-13.4	-13.8	-13.1	-12.2	-10.5	-8.3	-6.7	-5.4	-4.1	-3.9	-5.2	-6.1	-5.6	-6.0	-8.7	-9.5	-10.3	-10.6	-9.2	-3.9	-13.8
22	-11.0	-11.7	-11.8	-12.4	-13.1	-12.7	-13.1	-14.1	-13.1	-11.3	-10.1	-8.0	-6.0	-3.9	-2.9	-2.5	-3.5	-3.3	-3.7	-4.1	-5.8	-7.2	-7.8	-8.5	-8.4	-2.5	-14.1
23	-8.5	-9.3	-10.1	-10.7	-11.7	-11.8	-11.8	-12.5	-12.2	-10.3	-8.9	-6.6	-4.6	-3.0	-1.4	-1.1	-2.1	-2.4	-2.7	-4.6	-5.1	-7.0	-7.1	-8.1	-7.2	-1.1	-12.5
24	-8.0	-9.0	-10.0	-10.4	-10.8	-9.5	-10.3	-11.5	-11.1	-9.7	-7.6	-5.0	-2.9	-2.4	-0.8	0.1	-0.3	-0.7	-0.7	-1.0	-0.7	-0.6	-1.0	-0.9	-5.2	0.1	-11.5
25	-1.1	-1.9	-3.1	-2.5	-3.2	-5.3	-4.7	-6.0	-6.1	-5.2	-3.3	-1.1	0.3	1.4	3.6	4.4	3.4	3.1	2.4	2.3	1.0	-0.7	-0.2	-1.6	-1.0	4.4	-6.1
26	-1.5	-2.9	-3.7	-4.5	-4.9	-4.7	-5.7	-6.7	-6.2	-4.9	-3.4	-0.9	1.4	2.8	3.3	3.3	2.7	2.8	2.0	0.3	-0.6	-0.9	-2.1	-2.9	-1.6	3.3	-6.7
27	-3.2	-3.4	-4.3	-5.2	-4.9	-5.3	-6.0	-6.6	-6.4	-6.0	-5.0	-2.8	-0.6	1.0	1.8	2.0	1.8	1.3	1.1	0.1	-1.2	-1.4	-2.4	-2.7	-2.4	2.0	-6.6
28	-3.3	-4.6	-5.8	-5.5	-6.7	-6.4	-6.9	-7.5	-7.8	-7.4	-6.2	-3.7	-0.9	0.9	2.2	2.2	1.8	1.5	0.2	-1.2	-2.5	-2.3	-4.0	-3.7	-3.2	2.2	-7.8
29	-4.7	-5.9	-6.0	-6.6	-6.8	-7.1	-7.3	-7.6	-8.3	-7.0	-4.9	-3.4	-1.2	0.7	2.5	2.7	1.9	2.3	1.7	1.7	4.9	4.0	4.1	3.9	-1.9	4.9	-8.3
30	3.8	3.7	3.5	3.5	3.0	2.7	2.2	2.5	2.9	3.2	2.6	3.2	3.6	4.8	5.1	5.2	4.8	4.7	4.5	4.1	3.7	3.6	3.5	3.3	3.7	5.2	2.2
Avg	-0.6	-0.9	-1.3	-1.7	-1.9	-1.9	-2.1	-2.5	-2.4	-1.7	-0.6	0.7	1.9	2.7	3.3	3.4	2.7	2.3	1.7	1.2	0.7	0.2	-0.1	-0.4	0.1	4.3	-3.7
Max	8.0	7.9	6.9	6.6	6.0	6.2	6.5	6.0	7.1	7.8	8.2	9.7	9.8	9.9	10.1	9.6	8.8	8.4	8.5	8.6	8.5	8.2	8.2	8.4	6.5	10.1	4.5
Min	-11.0	-11.7	-11.8	-12.4	-13.1	-12.8	-13.4	-14.1	-13.1	-12.2	-10.5	-8.3	-6.7	-5.4	-4.1	-3.9	-5.2	-6.1	-5.6	-7.9	-8.7	-9.5	-10.3	-10.6	-9.2	-3.9	-14.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
December 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	3.3	2.7	2.4	2.6	2.1	2.9	2.4	1.7	2.4	2.5	3.6	4.2	3.6	4.5	4.4	4.1	4.0	3.7	3.6	3.4	3.0	2.9	2.5	2.7	3.1	4.5	1.7
2	2.8	3.7	4.2	4.0	3.2	2.1	1.3	1.9	2.2	1.6	2.0	2.2	-0.1	-0.5	-1.0	-1.5	-2.0	-2.8	-3.6	-4.2	-5.8	-8.2	-9.2	-10.2	-0.7	4.2	-10.2
3	-10.7	-11.2	-11.5	-12.0	-12.8	-13.5	-14.2	-14.7	-14.8	-13.8	-13.1	-13.1	-13.4	-12.9	-12.8	-13.1	-13.6	-14.2	-14.9	-15.8	-16.3	-16.9	-16.9	-17.0	-13.9	-10.7	-17.0
4	-17.2	-17.3	-17.2	-17.2	-17.4	-18.0	-18.3	-17.9	-17.8	-17.2	-16.3	-15.6	-15.2	-15.0	-14.9	-15.0	-15.6	-16.7	-18.1	-18.9	-18.9	-19.3	-20.7	-21.4	-17.4	-14.9	-21.4
5	-21.6	-22.3	-22.8	-22.7	-23.5	-24.2	-24.5	-24.8	-24.8	-23.4	-21.9	-20.6	-18.9	-17.9	-17.0	-16.8	-17.7	-17.7	-18.0	-18.8	-18.4	-18.7	-19.1	-19.3	-20.6	-16.8	-24.8
6	-19.7	-20.3	-21.1	-22.0	-22.6	-23.1	-23.7	-24.4	-24.2	-23.2	-22.4	-21.4	-20.1	-19.6	-19.8	-20.2	-21.3	-22.2	-22.9	-23.8	-24.0	-24.2	-25.2	-25.5	-22.4	-19.6	-25.5
7	-25.6	-26.0	-25.7	-25.8	-25.9	-25.8	-25.9	-26.6	-26.7	-26.0	-24.8	-23.7	-22.4	-21.6	-21.0	-20.7	-21.7	-21.4	-21.6	-22.4	-23.1	-24.3	-25.3	-25.2	-24.1	-20.7	-26.7
8	-25.2	-25.9	-26.7	-25.9	-26.6	-26.1	-25.6	-25.1	-24.8	-24.0	-23.0	-21.5	-19.8	-18.7	-16.8	-16.7	-17.3	-18.0	-18.7	-19.0	-20.2	-21.1	-21.1	-22.6	-22.1	-16.7	-26.7
9	-22.6	-23.1	-21.0	-21.6	-20.3	-18.5	-18.5	-18.5	-18.0	-17.9	-14.2	-14.7	-14.8	-15.2	-14.5	-13.6	-12.9	-12.0	-12.4	-9.3	-9.8	-9.2	-8.3	-8.1	-15.4	-8.1	-23.1
10	-7.8	-7.7	-7.4	-6.9	-7.1	-7.0	-7.0	-7.1	-7.1	-7.1	-6.4	-5.9	-5.7	-5.2	-5.1	-5.2	-5.3	-5.4	-5.6	-5.6	-5.4	-5.6	-5.6	-5.8	-6.3	-5.1	-7.8
11	-5.7	-5.9	-6.1	-5.9	-5.6	-5.5	-5.9	-6.2	-6.2	-8.6	-8.2	-7.4	-4.9	-2.8	-2.8	-2.5	-3.0	-3.4	-5.0	-7.1	-7.3	-8.1	-8.8	-8.7	-5.9	-2.5	-8.8
12	-8.9	-8.7	-8.8	-8.8	-8.5	-7.9	-8.4	-9.0	-9.0	-8.5	-7.3	Ca	Ca	Ca	-3.0	-2.5	-3.0	-2.6	-3.2	-4.0	-4.8	-2.4	-2.3	-4.0	-6.0	-2.3	-9.0
13	-1.6	-0.6	-0.2	-0.5	-1.2	-1.3	-1.4	-1.5	-1.4	-0.5	0.0	0.6	1.1	1.3	1.7	1.3	0.8	0.4	0.4	0.4	1.1	1.3	1.4	1.1	0.1	1.7	-1.6
14	1.7	1.7	1.5	1.5	1.4	1.4	1.5	1.4	0.9	1.0	2.0	2.2	2.0	2.2	2.2	2.7	2.8	2.8	3.4	4.2	3.4	2.9	1.7	3.5	2.2	4.2	0.9
15	4.1	3.2	2.6	2.9	2.7	2.5	2.6	3.0	3.1	4.0	5.1	5.6	5.1	5.7	6.0	6.0	5.8	5.7	4.4	3.6	3.6	3.6	4.8	3.5	4.1	6.0	2.5
16	3.2	3.0	3.9	3.9	3.8	4.1	4.0	3.5	3.3	4.0	4.8	5.4	6.0	6.0	6.3	6.1	5.3	4.6	4.0	3.2	2.8	2.0	2.3	1.3	4.0	6.3	1.3
17	1.7	1.0	-2.4	-2.1	-3.7	-5.1	-5.0	-5.2	-4.9	-3.4	-1.2	1.3	2.5	4.8	7.3	7.5	5.8	5.1	2.7	3.1	4.9	2.6	4.2	3.3	1.0	7.5	-5.2
18	6.4	6.7	4.4	5.7	4.6	4.4	4.1	3.7	3.8	3.9	4.3	4.4	4.7	4.8	4.8	4.4	3.6	3.1	2.5	1.9	1.8	1.4	0.9	0.0	3.8	6.7	0.0
19	-1.8	-3.9	-6.2	-9.6	-10.8	-11.8	-12.3	-12.4	-12.5	-12.3	-11.6	-11.1	-10.4	-10.2	-9.4	-10.0	-11.1	-10.2	-10.8	-11.4	-12.2	-13.6	-13.2	-13.2	-10.5	-1.8	-13.6
20	-12.9	-13.3	-13.7	-13.5	-13.8	-14.2	-14.7	-14.4	-13.7	-12.8	-11.7	-10.2	-8.3	-6.9	-6.6	-6.3	-6.4	-7.3	-7.4	-7.3	-7.1	-6.6	-6.2	-6.3	-10.1	-6.2	-14.7
21	-6.8	-6.0	-5.6	-5.2	-4.5	-4.0	-3.9	-3.6	-3.7	-3.6	-3.3	-3.2	-2.6	-2.0	-1.7	-1.5	-1.3	-1.1	-1.2	-1.7	-1.8	-2.0	-2.2	-2.4	-3.1	-1.1	-6.8
22	-2.4	-2.6	-2.4	-1.9	-2.3	-1.2	-0.6	-1.7	-0.9	-0.4	0.2	0.5	0.7	0.7	0.5	0.4	0.4	0.2	0.1	0.3	0.0	0.2	0.4	0.4	-0.5	0.7	-2.6
23	0.4	0.3	0.4	0.7	0.6	1.2	1.5	1.3	1.4	1.2	1.7	3.3	4.1	4.5	4.9	5.4	5.0	4.8	4.5	2.9	2.3	1.2	1.2	0.9	2.3	5.4	0.3
24	0.6	0.3	-0.4	0.0	-0.3	-0.3	-0.1	0.0	-0.1	-0.1	0.0	0.4	0.6	0.8	1.2	1.0	0.3	-0.4	-1.2	-1.9	-2.1	-3.1	-2.8	-3.1	-0.4	1.2	-3.1
25	-4.0	-4.3	-4.8	-5.7	-6.6	-6.0	-6.6	-9.5	-8.8	-9.4	-7.8	-6.8	-5.5	-4.7	-4.2	-4.3	-4.5	-4.5	-4.5	-4.1	-4.6	-3.6	0.1	-1.8	-5.3	0.1	-9.5
26	0.6	0.4	1.1	1.7	1.2	1.6	1.1	1.1	-1.1	0.4	-1.2	-0.1	3.0	4.8	5.4	5.6	5.9	5.7	5.8	5.8	5.4	4.3	2.8	2.2	2.6	5.9	-1.2
27	1.4	3.0	-0.7	-2.0	-3.0	-1.6	-3.5	-3.3	-3.9	-3.9	-3.4	-2.0	-0.8	0.6	1.7	1.2	1.3	0.7	0.4	-0.5	-0.9	4.0	5.4	5.6	-0.2	5.6	-3.9
28	4.6	3.0	2.5	2.0	2.1	1.9	1.8	1.6	1.1	1.0	1.0	1.8	1.6	1.6	1.8	1.3	0.9	0.7	0.3	0.0	0.0	-0.1	-0.4	-0.6	1.3	4.6	-0.6
29	-0.8	-1.0	-1.4	-2.1	-2.8	-2.9	-2.9	-3.5	-3.9	-2.7	-2.2	-2.4	-2.4	-1.7	-1.0	-0.5	-0.5	-0.1	-0.3	-0.6	-0.1	0.3	0.5	0.6	-1.4	0.6	-3.9
30	0.7	1.0	1.0	1.0	1.0	0.7	0.0	-0.7	-0.9	-0.7	0.2	1.9	3.3	3.6	3.0	3.9	3.6	3.2	3.4	2.7	2.3	2.3	2.6	2.7	1.7	3.9	-0.9
31	3.1	3.7	3.7	4.0	4.4	4.4	3.7	3.1	2.7	2.4	2.5	2.8	3.4	3.8	3.7	3.5	3.0	2.4	1.9	1.4	1.6	1.7	2.1	2.0	3.0	4.4	1.4
Avg	-5.2	-5.4	-5.8	-5.9	-6.2	-6.2	-6.4	-6.7	-6.7	-6.4	-5.6	-4.8	-4.1	-3.5	-3.1	-3.1	-3.5	-3.8	-4.3	-4.6	-4.9	-5.0	-5.0	-5.3	-5.1	-1.7	-8.4
Max	6.4	6.7	4.4	5.7	4.6	4.4	4.1	3.7	3.8	4.0	5.1	5.6	6.0	6.0	7.3	7.5	5.9	5.7	5.8	5.8	5.4	4.3	5.4	5.6	4.1	7.5	2.5
Min	-25.6	-26.0	-26.7	-25.9	-26.6	-26.1	-25.9	-26.6	-26.7	-26.0	-24.8	-23.7	-22.4	-21.6	-21.0	-20.7	-21.7	-22.2	-22.9	-23.8	-24.0	-24.3	-25.3	-25.5	-24.1	-20.7	-26.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.32	0.62	1.10	0.67	0.98	0.60	0.42	0.04	-0.10	-0.27	-0.76	-0.92	-0.49	-0.76	-1.08	-0.88	-0.49	0.02	0.43	0.38	0.25	0.11	0.17	0.24	0.03	1.10	-1.08
2	0.48	0.65	0.51	0.46	0.71	1.00	0.84	-0.06	-0.51	-0.64	-1.04	-0.77	-0.81	-0.77	-0.71	-0.52	-0.44	0.04	0.28	0.59	0.16	0.19	0.06	0.00	-0.01	1.00	-1.04
3	-0.07	-0.12	-0.12	-0.01	-0.03	-0.05	-0.05	-0.10	-0.23	-0.31	-0.38	-0.49	-0.52	-0.82	-0.82	-0.60	-0.42	-0.26	0.12	0.20	0.10	0.22	0.27	0.22	-0.18	0.27	-0.82
4	0.20	0.18	0.30	0.48	0.48	0.46	0.54	0.27	-0.32	-0.68	-0.73	-0.87	-1.11	-1.16	-0.91	-0.84	-0.50	-0.11	0.69	0.49	0.50	0.32	0.78	0.47	-0.04	0.78	-1.16
5	1.01	0.67	1.28	0.98	0.82	0.90	1.63	0.88	-0.14	-0.55	-0.69	-0.93	-0.84	-1.09	-1.11	-0.86	-0.43	-0.05	0.36	0.53	0.93	1.13	1.12	0.96	0.27	1.63	-1.11
6	1.13	1.17	0.43	0.96	0.98	0.81	1.74	0.54	-0.32	-0.57	-0.66	-0.89	-0.87	-0.68	-0.70	-0.82	-0.53	1.51	0.95	0.93	0.57	1.05	0.86	0.98	0.36	1.74	-0.89
7	0.81	0.84	0.96	0.54	0.55	0.42	0.51	0.45	-0.39	-0.71	-0.73	-0.68	-0.88	-0.94	-0.44	-0.90	-0.35	0.11	0.08	0.04	0.07	0.05	0.02	-0.08	-0.03	0.96	-0.94
8	-0.07	-0.02	0.18	-0.01	0.34	-0.01	0.22	0.13	-0.28	-0.40	-0.58	-0.71	-0.60	-0.61	-0.58	-0.59	-0.69	0.08	0.36	0.60	0.64	0.75	0.31	0.41	-0.05	0.75	-0.71
9	0.76	0.44	0.24	0.44	0.17	0.51	0.49	0.56	-0.42	-0.69	-0.90	-0.75	-0.87	-0.83	-0.92	-0.52	-0.28	0.25	1.17	0.54	0.67	0.68	0.70	0.35	0.07	1.17	-0.92
10	0.46	0.57	0.76	0.60	0.58	0.85	0.63	-0.16	-0.38	-0.53	-0.62	-1.05	-1.22	-0.73	-0.51	-0.48	-0.31	-0.07	-0.06	-0.06	-0.11	-0.04	-0.05	-0.05	-0.08	0.85	-1.22
11	-0.04	-0.05	-0.02	0.22	0.25	0.74	0.79	0.15	-0.25	-0.34	-0.68	-1.01	-1.24	-1.03	-0.87	-0.83	-0.38	0.19	0.34	0.51	0.55	0.51	0.59	0.48	-0.06	0.79	-1.24
12	0.44	0.55	0.71	0.60	0.60	0.26	0.52	0.56	-0.24	-0.55	-0.47	-0.56	-0.62	-0.76	-0.56	-0.37	-0.39	0.56	0.09	0.59	0.79	0.76	0.48	0.47	0.14	0.79	-0.76
13	0.67	0.51	0.35	0.54	0.89	0.66	0.38	0.09	-0.40	-0.67	-0.70	-0.98	-0.74	-0.86	-0.78	-0.52	-0.17	0.15	0.40	0.06	0.01	-0.02	0.02	0.13	-0.04	0.89	-0.98
14	0.00	-0.08	0.06	-0.08	-0.08	-0.12	0.09	0.03	-0.17	-0.57	-0.56	-0.63	-0.63	-0.50	0.22	-0.28	-0.23	0.39	0.62	0.54	0.55	0.55	0.55	0.49	0.01	0.62	-0.63
15	0.11	0.26	0.23	0.29	-0.04	0.01	-0.12	-0.20	-0.32	-0.29	-0.54	-0.74	-0.61	-0.84	-0.68	-0.68	-0.32	0.13	0.31	0.38	0.77	0.64	0.90	1.03	-0.01	1.03	-0.84
16	1.30	0.88	0.89	0.65	0.38	0.36	0.23	0.31	0.52	-0.23	-0.46	-0.43	-0.43	-0.46	-0.58	-0.36	-0.25	0.13	0.15	0.22	0.38	0.30	-0.03	0.00	0.14	1.30	-0.58
17	0.10	0.42	0.47	0.12	0.23	0.55	0.51	0.50	0.49	-0.14	-0.32	-0.46	-0.42	-0.30	-0.36	-0.31	-0.24	-0.06	0.23	0.21	0.34	0.38	0.91	0.28	0.13	0.91	-0.46
18	0.28	0.28	0.42	0.48	0.37	0.68	1.28	0.75	-0.18	-0.40	-0.62	-0.80	-0.89	-0.97	-0.89	-0.64	-0.29	0.07	2.05	1.02	0.88	0.70	0.54	0.47	0.19	2.05	-0.97
19	0.17	0.48	0.43	0.57	0.49	0.55	0.52	0.48	0.04	-0.39	-0.82	-0.85	-0.68	-0.52	-0.53	-0.52	-0.28	0.23	0.81	1.19	1.06	0.63	0.37	0.27	0.15	1.19	-0.85
20	0.32	0.55	1.05	0.50	0.33	0.24	0.07	0.55	-0.17	-0.45	-0.68	-0.90	-0.83	-0.95	-0.68	-0.53	-0.30	0.20	0.75	0.77	1.09	0.86	0.87	0.77	0.14	1.09	-0.95
21	0.76	0.86	1.58	1.07	0.87	0.82	1.13	0.72	-0.05	-0.63	-0.60	-0.98	-0.73	-0.99	-0.90	-0.68	-0.27	0.20	0.48	0.49	0.72	0.76	1.24	1.24	0.30	1.58	-0.99
22	0.99	0.69	0.86	0.68	0.47	0.60	0.42	1.03	-0.33	-0.50	-0.74	-0.64	-0.80	-0.85	-0.84	-0.60	-0.16	0.59	1.31	1.28	1.30	1.36	0.89	0.81	0.33	1.36	-0.85
23	0.96	0.52	1.18	0.37	0.51	1.20	0.85	0.30	-0.49	-0.63	-0.67	-0.76	-0.67	-0.79	-0.71	-0.55	0.25	0.56	1.13	0.67	0.46	0.31	0.71	0.63	0.22	1.20	-0.79
24	0.49	0.47	0.39	1.00	0.91	1.21	0.93	0.93	-0.10	-0.60	-0.72	-0.66	-0.74	-0.77	-0.60	-0.34	0.19	0.85	0.52	1.30	0.68	0.58	0.84	0.98	0.32	1.30	-0.77
25	0.98	1.15	0.71	0.67	1.26	0.77	0.85	0.41	0.46	-0.62	-0.81	-0.70	-0.72	-0.68	-0.65	-0.45	0.20	0.46	0.54	1.18	0.66	0.78	0.65	0.71	0.33	1.26	-0.81
26	0.75	0.69	0.72	0.77	0.85	0.88	0.64	1.63	-0.15	-0.56	-0.66	-0.72	-0.73	-0.72	-0.57	-0.49	0.00	0.60	0.35	0.72	0.73	1.14	1.01	1.08	0.33	1.63	-0.73
27	1.09	0.75	1.50	0.97	1.03	0.46	0.65	1.12	0.27	-0.61	-0.52	-0.60	-0.71	-0.51	-0.36	-0.18	-0.12	-0.10	-0.08	-0.13	-0.14	-0.14	-0.14	-0.17	0.14	1.50	-0.71
28	-0.16	-0.15	-0.16	-0.16	-0.18	-0.18	-0.15	-0.16	-0.21	-0.26	-0.31	-0.37	-0.35	-0.40	-0.27	-0.17	-0.14	-0.12	-0.11	-0.11	-0.14	-0.14	-0.13	-0.09	-0.19	-0.09	-0.40
29	-0.11	-0.03	0.54	0.81	0.46	0.47	0.43	0.33	-0.03	-0.42	-0.41	-0.63	-0.76	-0.81	-0.76	-0.55	-0.11	0.60	0.38	0.22	0.33	0.37	0.92	0.67	0.08	0.92	-0.81
30	0.66	1.60	2.50	2.03	2.67	3.79	2.06	1.59	0.88	0.03	-0.54	-0.27	0.03	-0.70	-0.66	-0.38	-0.15	0.23	0.10	0.09	0.03	0.00	0.05	-0.02	0.65	3.79	-0.70
31	0.08	0.00	-0.05	0.09	0.39	0.18	0.07	0.02	-0.13	-0.12	-0.30	-0.59	-0.94	-0.64	-0.46	-0.24	-0.07	0.00	0.00	0.00	0.02	-0.02	0.15	0.27	-0.10	0.39	-0.94
Avg	0.48	0.50	0.65	0.56	0.59	0.63	0.62	0.44	-0.12	-0.46	-0.62	-0.72	-0.72	-0.76	-0.65	-0.54	-0.25	0.24	0.48	0.50	0.48	0.48	0.50	0.45	0.11	1.15	-0.86
Max	1.30	1.60	2.50	2.03	2.67	3.79	2.06	1.63	0.88	0.03	-0.30	-0.27	0.03	-0.30	0.22	-0.17	0.25	1.51	2.05	1.30	1.30	1.36	1.24	1.24	0.65	3.79	-0.40
Min	-0.16	-0.15	-0.16	-0.16	-0.18	-0.18	-0.15	-0.20	-0.51	-0.71	-1.04	-1.05	-1.24	-1.16	-1.11	-0.90	-0.69	-0.26	-0.11	-0.13	-0.14	-0.14	-0.14	-0.17	-0.19	-0.09	-1.24

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.15	0.41	0.60	0.69	0.58	0.57	0.84	0.89	0.49	0.10	-0.28	-0.55	-0.68	-0.53	-0.36	-0.24	0.00	0.48	0.86	0.53	0.60	0.62	0.96	0.87	0.32	0.96	-0.68
2	0.33	0.35	0.26	0.36	0.62	0.01	0.25	0.50	0.18	-0.01	-0.38	-0.72	-0.51	-0.43	-0.20	0.00	-0.04	0.15	0.19	0.64	0.23	0.08	0.25	0.13	0.09	0.64	-0.72
3	0.46	0.36	0.15	0.16	0.34	0.90	0.42	0.48	0.32	-0.32	-0.51	-0.39	-0.31	-0.30	-0.34	-0.34	-0.09	-0.05	-0.04	0.09	0.26	0.08	-0.01	0.19	0.06	0.90	-0.51
4	0.38	0.41	0.43	0.17	0.43	0.35	0.59	0.15	0.03	-0.28	-0.27	-0.69	-0.74	-0.34	-0.22	-0.38	-0.14	-0.11	-0.11	0.03	-0.04	0.04	0.17	0.34	0.01	0.59	-0.74
5	0.33	0.80	0.09	0.20	-0.11	0.09	0.18	0.44	0.00	-0.47	-0.83	-0.70	-0.60	-0.66	-0.42	-0.28	-0.15	-0.11	-0.11	-0.09	-0.03	0.00	0.11	0.06	-0.09	0.80	-0.83
6	0.13	0.23	0.23	0.15	0.04	0.13	0.35	0.31	0.63	1.12	0.26	0.01	-0.12	-0.21	-0.34	-0.09	0.33	0.41	0.37	0.59	0.34	0.26	0.19	0.41	0.24	1.12	-0.34
7	0.07	0.29	0.41	0.14	0.26	0.13	0.19	0.16	0.12	-0.14	-0.23	-0.23	-0.26	Au	Au	Au	0.42	0.42	0.48	0.59	0.17	0.11	0.41	0.43	0.19	0.59	-0.26
8	0.18	0.14	-0.04	-0.07	-0.08	0.03	0.03	0.08	-0.07	-0.17	-0.33	-0.31	-0.32	-0.34	-0.35	-0.11	-0.06	-0.04	0.03	-0.03	-0.02	-0.01	-0.07	-0.04	-0.08	0.18	-0.35
9	-0.05	0.13	0.16	0.35	0.87	0.78	0.33	0.76	0.29	-0.37	-0.44	-0.54	-0.41	-0.38	-0.28	-0.33	0.35	0.73	0.19	0.23	0.12	0.18	0.22	0.35	0.14	0.87	-0.54
10	0.35	0.46	0.26	0.35	0.19	-0.09	0.12	0.47	0.20	0.09	-0.30	0.16	0.77	0.87	1.27	0.57	0.65	0.36	0.44	0.44	0.50	0.31	0.31	0.27	0.38	1.27	-0.30
11	0.20	0.17	0.18	0.12	0.26	0.31	0.43	1.09	0.22	-0.32	-0.38	-0.46	-0.61	-0.41	-0.30	-0.25	0.74	0.66	0.99	0.85	0.39	0.41	0.18	0.44	0.20	1.09	-0.61
12	0.56	0.44	0.46	0.50	0.88	0.47	-0.07	0.00	-0.27	-0.33	-0.45	-0.29	-0.20	-0.26	-0.06	0.24	0.34	0.84	0.90	1.20	1.07	1.60	1.19	0.31	0.38	1.60	-0.45
13	0.05	0.16	0.62	0.58	1.27	0.43	0.19	0.39	0.02	-0.33	-0.29	-0.41	-0.58	-0.43	-0.39	-0.20	-0.07	0.08	0.00	0.19	-0.09	-0.03	0.01	-0.02	0.05	1.27	-0.58
14	-0.06	0.23	0.43	0.69	0.26	0.56	0.64	0.42	0.60	0.03	-0.10	-0.52	-0.59	-0.43	-0.42	-0.08	0.35	0.55	0.71	0.99	0.80	0.11	0.12	0.20	0.23	0.99	-0.59
15	0.03	-0.08	-0.09	-0.08	-0.08	-0.08	-0.08	-0.07	-0.11	-0.18	-0.28	-0.31	-0.28	-0.21	-0.21	-0.20	-0.15	-0.05	0.05	0.12	0.19	0.00	-0.05	-0.08	-0.10	0.19	-0.31
16	0.13	0.10	0.18	0.44	0.22	0.25	0.26	0.00	-0.07	-0.21	-0.27	-0.14	-0.15	-0.22	-0.19	-0.17	-0.07	-0.05	-0.07	-0.14	-0.01	0.24	0.24	0.21	0.02	0.44	-0.27
17	0.27	0.51	0.54	0.62	0.72	0.53	0.10	0.18	0.08	-0.15	-0.21	-0.31	-0.55	-0.49	-0.48	-0.27	-0.07	0.04	0.13	0.31	0.75	0.65	0.91	0.50	0.18	0.91	-0.55
18	0.57	0.09	0.19	0.87	0.43	0.36	0.47	0.47	0.19	0.15	-0.18	-0.05	-0.03	-0.11	-0.33	0.14	0.62	0.76	0.95	0.70	0.51	0.69	0.73	0.89	0.38	0.95	-0.33
19	0.50	0.80	1.55	1.49	1.41	0.94	0.60	0.43	0.33	0.19	-0.32	-0.61	-0.37	-0.37	-0.24	-0.06	-0.05	0.00	0.27	0.04	0.16	0.37	0.00	0.08	0.30	1.55	-0.61
20	0.15	0.69	0.26	0.16	0.13	0.00	0.08	0.10	0.04	-0.10	-0.24	-0.36	-0.65	-0.63	-0.55	-0.34	-0.06	0.02	0.21	0.00	0.18	0.42	0.71	0.45	0.03	0.71	-0.65
21	0.39	0.20	0.41	0.67	0.52	0.74	0.80	0.48	0.01	-0.71	-0.66	-0.78	-0.64	-0.58	-0.59	-0.43	0.77	1.35	0.31	0.54	0.84	0.60	0.77	0.59	0.23	1.35	-0.78
22	0.81	0.76	0.66	0.78	0.52	0.58	0.94	0.47	0.17	-0.53	-0.66	-0.54	-0.70	-0.72	-0.59	-0.34	0.68	0.50	0.35	0.52	0.65	0.66	0.74	0.83	0.27	0.94	-0.72
23	0.79	0.64	0.53	1.02	0.44	0.39	0.76	0.93	0.41	-0.54	-0.55	-0.78	-0.69	-0.63	-0.52	-0.35	0.47	0.57	0.34	0.91	0.92	0.56	0.55	0.93	0.30	1.02	-0.78
24	0.93	0.55	0.68	0.53	0.60	0.50	0.83	0.60	0.19	-0.50	-0.58	-0.56	-0.55	-0.40	-0.56	-0.21	0.44	0.26	0.17	0.41	0.44	0.55	0.61	0.27	0.22	0.93	-0.58
25	0.57	0.72	0.72	0.51	0.94	1.07	0.72	0.81	0.46	-0.49	-0.60	-0.56	-0.34	-0.28	-0.58	-0.24	0.52	0.61	0.82	0.59	0.49	0.75	0.54	1.13	0.37	1.13	-0.60
26	0.54	0.48	0.94	1.02	0.55	0.32	0.77	0.99	0.59	0.01	-0.57	-0.58	-0.68	-0.49	-0.44	-0.21	0.24	0.37	0.44	0.76	0.51	0.53	0.75	1.12	0.33	1.12	-0.68
27	0.47	0.66	1.06	0.71	0.41	0.64	1.04	1.12	0.44	0.16	-0.48	-0.52	-0.48	-0.65	-0.58	-0.18	0.35	0.51	0.46	0.74	0.58	0.62	0.89	0.81	0.37	1.12	-0.65
28	0.49	0.96	0.86	0.72	1.32	0.71	0.90	0.70	0.39	0.36	-0.22	-0.44	-0.66	-0.53	-0.49	-0.11	0.34	0.39	0.65	0.85	0.71	0.70	0.99	0.53	0.42	1.32	-0.66
29	0.99	0.69	1.02	0.76	0.95	0.54	0.84	0.71	0.38	-0.14	-0.44	-0.64	-0.63	-0.57	-0.37	0.07	0.63	0.78	1.47	1.43	0.32	0.48	0.18	0.35	0.41	1.47	-0.64
30	0.13	0.29	0.12	0.01	0.04	0.13	0.27	0.11	0.18	-0.04	-0.30	-0.31	-0.18	-0.26	-0.19	-0.07	0.09	0.06	0.07	-0.02	-0.04	0.13	0.14	0.57	0.04	0.57	-0.31
Avg	0.36	0.42	0.46	0.49	0.50	0.41	0.46	0.47	0.21	-0.14	-0.37	-0.44	-0.42	-0.38	-0.32	-0.15	0.25	0.35	0.38	0.47	0.38	0.39	0.42	0.44	0.20	0.95	-0.55
Max	0.99	0.96	1.55	1.49	1.41	1.07	1.04	1.12	0.63	1.12	0.26	0.16	0.77	0.87	1.27	0.57	0.77	1.35	1.47	1.43	1.07	1.60	1.19	1.13	0.42	1.60	-0.26
Min	-0.06	-0.08	-0.09	-0.08	-0.11	-0.09	-0.08	-0.07	-0.27	-0.71	-0.83	-0.78	-0.74	-0.72	-0.59	-0.43	-0.15	-0.11	-0.11	-0.14	-0.09	-0.03	-0.07	-0.08	-0.10	0.18	-0.83

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
December 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.79	0.86	0.91	0.52	0.55	0.28	0.88	0.98	0.62	0.47	0.50	0.05	0.09	0.08	-0.07	0.00	0.04	0.15	0.17	0.29	0.24	0.14	0.32	0.24	0.38	0.98	-0.07
2	0.39	0.62	0.29	0.23	0.20	0.10	0.06	0.08	0.10	-0.02	-0.20	-0.30	-0.14	-0.14	-0.17	-0.18	-0.10	0.09	0.23	0.25	-0.12	-0.47	-0.47	-0.47	-0.01	0.62	-0.47
3	-0.48	-0.43	-0.40	-0.31	-0.21	-0.25	-0.30	-0.21	-0.24	-0.81	-1.20	-0.95	-0.73	-0.74	-0.66	-0.56	-0.33	-0.20	-0.26	-0.10	-0.17	-0.10	-0.16	-0.34	-0.42	-0.10	-1.20
4	-0.25	-0.12	-0.16	-0.15	0.02	0.08	-0.02	0.00	-0.05	-0.42	-0.68	-0.65	-0.69	-0.69	-0.69	-0.48	-0.15	0.05	0.43	0.85	0.07	0.23	0.46	0.43	-0.11	0.85	-0.69
5	0.01	0.37	0.34	0.20	0.45	0.39	0.39	0.40	-0.09	-0.43	-0.57	-0.55	-0.67	-0.62	-0.62	-0.33	0.57	0.40	0.41	0.01	0.22	0.20	0.18	0.12	0.03	0.57	-0.67
6	0.06	0.00	-0.12	-0.10	-0.12	-0.11	-0.06	0.15	-0.14	-0.74	-0.82	-0.86	-1.18	-1.21	-0.83	-0.62	-0.24	-0.17	-0.20	0.06	-0.07	-0.12	0.20	0.26	-0.29	0.26	-1.21
7	0.14	0.33	-0.02	0.03	0.12	0.00	0.03	0.36	0.18	-0.23	-0.46	-0.61	-0.72	-0.69	-0.47	-0.27	0.87	0.45	0.10	0.29	0.41	0.28	0.44	0.54	0.05	0.87	-0.72
8	0.48	0.50	0.40	0.18	-0.16	-0.09	-0.25	-0.19	-0.30	-0.29	-0.37	-0.43	-0.45	-0.26	-0.26	-0.07	0.31	0.37	0.54	0.66	0.66	0.77	0.58	0.84	0.13	0.84	-0.45
9	0.60	0.77	0.14	0.67	1.12	0.09	0.06	0.19	0.34	0.62	-0.14	-0.07	-0.37	-0.28	-0.14	0.31	0.10	0.99	0.47	0.35	0.44	0.33	0.00	-0.07	0.27	1.12	-0.37
10	-0.05	-0.10	-0.02	-0.03	-0.04	-0.06	-0.07	0.01	0.04	0.02	-0.11	-0.14	-0.14	-0.11	-0.10	-0.06	-0.06	-0.05	-0.03	-0.06	-0.06	0.03	0.00	0.00	-0.05	0.04	-0.14
11	-0.03	0.01	-0.02	0.00	0.03	0.03	0.24	0.23	0.40	0.52	0.04	-0.13	0.63	-0.05	0.12	0.25	0.51	0.38	0.83	0.55	1.44	0.58	0.75	0.23	0.31	1.44	-0.13
12	0.56	0.53	0.24	0.43	0.24	0.12	0.33	0.40	0.52	0.09	-0.14	Ca	Ca	Ca	-0.18	0.03	0.44	0.80	0.79	1.05	2.14	1.28	1.31	2.31	0.63	2.31	-0.18
13	0.94	0.25	0.12	0.14	0.00	-0.01	-0.04	0.08	0.14	0.02	-0.11	-0.08	-0.06	-0.10	-0.07	-0.08	-0.03	0.08	0.06	0.10	0.09	0.00	-0.03	0.10	0.06	0.94	-0.11
14	0.05	0.10	0.07	0.01	0.35	0.07	0.18	0.34	0.35	0.17	0.01	-0.02	0.02	-0.06	0.10	0.10	0.09	0.07	0.00	0.03	0.08	0.30	0.87	0.25	0.15	0.87	-0.06
15	0.07	0.16	0.37	0.70	0.75	0.67	0.43	0.19	0.50	0.26	0.29	0.41	0.46	0.26	0.09	0.49	0.63	0.49	0.58	0.86	1.11	1.24	1.12	1.84	0.58	1.84	0.07
16	0.83	0.71	0.30	0.14	0.55	0.49	0.31	0.36	0.29	0.15	0.10	0.11	0.08	0.12	0.02	0.05	0.37	0.55	0.37	0.55	0.82	0.95	0.75	0.64	0.40	0.95	0.02
17	0.56	0.99	1.11	1.21	1.36	1.53	0.94	1.20	1.88	3.44	3.04	2.24	1.95	0.71	1.33	1.75	2.48	2.68	2.06	1.70	1.69	3.11	2.21	3.12	1.85	3.44	0.56
18	1.81	1.05	2.92	0.62	0.99	0.65	0.64	0.63	0.84	0.53	0.42	0.22	0.13	0.10	0.20	0.23	0.36	0.48	0.29	0.26	0.27	0.33	0.20	0.02	0.59	2.92	0.02
19	0.05	0.15	-0.13	-0.17	-0.20	-0.23	-0.22	-0.25	-0.30	-0.32	-0.37	-0.43	-0.50	-0.35	-0.45	0.13	1.25	0.27	0.26	0.36	0.45	0.59	0.29	0.03	-0.00	1.25	-0.50
20	-0.12	0.21	0.54	0.33	0.36	0.34	0.21	0.07	0.03	0.80	-0.10	0.37	0.36	-0.12	0.18	0.27	0.24	-0.05	-0.06	-0.17	-0.06	0.10	-0.02	0.02	0.16	0.80	-0.17
21	0.09	0.11	0.08	0.09	-0.07	-0.05	-0.07	-0.05	-0.06	-0.11	-0.11	-0.10	-0.12	-0.09	-0.09	-0.07	-0.06	-0.05	0.01	-0.12	-0.08	-0.08	-0.10	0.20	-0.04	0.20	-0.12
22	0.19	0.11	0.04	0.19	0.47	0.44	0.22	0.55	0.22	0.06	-0.04	-0.11	-0.11	-0.12	-0.12	-0.08	-0.01	0.06	0.23	0.08	0.34	0.15	0.04	0.04	0.12	0.55	-0.12
23	0.01	-0.02	0.07	0.00	-0.04	0.00	0.14	0.00	0.07	-0.12	0.00	0.01	0.01	-0.03	0.29	0.30	0.68	0.54	0.51	0.29	0.15	0.03	0.14	0.32	0.14	0.68	-0.12
24	0.33	0.25	-0.03	-0.03	0.11	0.14	0.19	0.00	-0.06	-0.07	-0.07	-0.07	-0.05	-0.04	-0.10	-0.08	0.03	0.07	0.45	0.73	0.77	1.44	0.61	0.16	0.19	1.44	-0.10
25	0.34	0.44	0.35	0.62	1.75	0.96	0.91	0.85	1.11	-0.03	-0.03	-0.23	-0.31	-0.35	-0.21	0.23	0.61	0.31	0.47	0.71	0.52	0.94	0.20	1.33	0.48	1.75	-0.35
26	0.66	1.01	0.59	0.28	0.36	0.42	0.64	0.82	2.71	1.14	1.66	0.49	1.23	0.13	0.31	0.16	0.32	0.11	0.31	0.40	1.11	1.03	1.49	1.05	0.77	2.71	0.11
27	1.55	1.14	2.37	1.54	1.25	0.87	0.81	0.54	0.82	1.06	0.01	-0.05	-0.12	-0.03	0.00	0.20	0.77	0.31	0.52	0.96	1.27	1.88	1.32	0.69	0.82	2.37	-0.12
28	0.38	0.09	0.16	0.52	0.23	0.19	0.12	0.05	0.18	0.08	0.10	-0.01	-0.11	-0.05	-0.08	0.11	0.09	0.12	0.02	-0.02	-0.06	-0.06	-0.06	-0.01	0.08	0.52	-0.11
29	-0.04	-0.04	-0.01	0.20	0.47	0.37	0.65	0.84	1.47	0.04	-0.11	-0.18	-0.20	-0.23	-0.18	-0.07	0.06	0.12	-0.04	-0.05	-0.02	-0.05	-0.04	0.06	0.13	1.47	-0.23
30	0.00	0.01	0.02	-0.02	-0.01	0.09	0.58	0.93	0.81	0.37	0.08	-0.01	-0.01	0.03	0.07	0.21	0.27	0.45	0.09	0.07	0.16	-0.03	0.04	-0.04	0.17	0.93	-0.04
31	0.00	0.01	0.31	0.10	0.10	0.08	0.19	0.39	0.40	0.25	0.02	0.02	0.09	0.24	0.22	0.16	0.12	-0.01	-0.05	-0.08	-0.02	0.13	0.05	0.07	0.12	0.40	-0.08
Avg	0.32	0.32	0.35	0.26	0.35	0.25	0.26	0.32	0.41	0.21	0.02	-0.07	-0.05	-0.16	-0.08	0.07	0.33	0.32	0.31	0.35	0.44	0.49	0.41	0.45	0.25	1.16	-0.25
Max	1.81	1.14	2.92	1.54	1.75	1.53	0.94	1.20	2.71	3.44	3.04	2.24	1.95	0.71	1.33	1.75	2.48	2.68	2.06	1.70	2.14	3.11	2.21	3.12	1.85	3.44	0.56
Min	-0.48	-0.43	-0.40	-0.31	-0.21	-0.25	-0.30	-0.25	-0.30	-0.81	-1.20	-0.95	-1.18	-1.21	-0.83	-0.62	-0.33	-0.20	-0.26	-0.17	-0.17	-0.47	-0.47	-0.47	-0.42	-0.10	-1.21

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
October 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	16.8	87.0	80.0	156.8	385.8	433.0	222.0	426.3	530.6	371.8	209.7	53.5	2.0	0.0	0.0	0.0	0.0	0.0	124.0	530.6	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	7.8	132.9	321.7	484.9	639.4	615.5	663.0	579.3	500.1	306.0	183.7	75.2	1.3	0.0	0.0	0.0	0.0	0.0	188.0	663.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	29.7	82.6	109.3	125.0	156.1	177.0	292.5	228.3	147.2	63.0	20.0	1.1	0.0	0.0	0.0	0.0	0.0	59.7	292.5	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	4.1	40.1	297.1	457.0	572.7	637.0	643.7	585.3	500.0	363.3	205.7	46.6	1.2	0.0	0.0	0.0	0.0	0.0	181.4	643.7	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	9.6	46.9	126.1	435.3	532.6	552.6	604.3	581.6	498.0	344.3	188.2	47.8	1.8	0.0	0.0	0.0	0.0	0.0	165.4	604.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	8.3	94.7	269.1	375.1	493.9	638.6	646.3	574.8	455.0	350.5	196.2	36.8	2.5	0.0	0.0	0.0	0.0	0.0	172.6	646.3	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	2.6	85.5	285.6	432.0	542.5	539.6	582.3	527.4	294.8	418.3	164.4	29.5	1.1	0.0	0.0	0.0	0.0	0.0	162.7	582.3	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	2.6	33.7	105.2	166.7	300.3	332.9	220.6	244.9	233.6	241.6	218.1	25.5	0.5	0.0	0.0	0.0	0.0	0.0	88.6	332.9	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	5.2	103.7	270.3	414.5	524.9	569.2	555.5	535.8	439.8	304.9	169.2	28.4	0.5	0.0	0.0	0.0	0.0	0.0	163.4	569.2	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	5.6	111.6	176.4	288.2	371.3	499.5	624.9	260.0	142.2	141.4	86.6	29.6	0.4	0.0	0.0	0.0	0.0	0.0	114.1	624.9	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	2.4	123.7	80.8	150.3	433.8	577.4	568.4	576.8	464.6	341.7	165.6	20.0	0.2	0.0	0.0	0.0	0.0	0.0	146.1	577.4	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.5	41.0	126.4	285.7	296.9	377.0	350.0	405.6	202.0	139.1	153.9	19.7	0.2	0.0	0.0	0.0	0.0	0.0	100.0	405.6	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.4	84.6	224.9	382.8	491.7	547.7	419.0	344.4	358.5	190.3	42.9	10.3	0.1	0.0	0.0	0.0	0.0	0.0	129.1	547.7	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.3	87.0	159.5	170.0	306.5	204.7	298.0	78.2	78.1	36.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0	59.8	306.5	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.6	15.8	51.9	139.5	245.5	385.5	475.5	466.9	408.8	290.5	145.6	13.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	475.5	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.8	24.8	79.6	109.9	189.6	163.4	176.5	212.2	170.6	109.4	51.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1	212.2	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.9	23.1	48.3	69.0	157.5	349.0	255.2	173.0	142.1	139.3	99.2	13.5	0.0	0.0	0.0	0.0	0.0	0.0	61.3	349.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	1.1	74.6	218.7	370.6	477.5	537.2	504.6	481.2	335.4	256.1	122.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0	141.3	537.2	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	1.0	38.7	132.1	264.8	420.1	451.0	351.5	263.0	254.7	245.1	134.6	19.1	0.0	0.0	0.0	0.0	0.0	0.0	107.3	451.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.7	20.9	106.0	237.6	335.9	488.5	607.1	536.7	398.0	261.1	110.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	129.6	607.1	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.7	68.0	211.1	349.0	454.8	513.0	520.6	474.2	384.9	263.9	105.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	139.7	520.6	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.7	76.8	227.8	356.4	462.6	521.0	527.2	483.1	390.8	258.5	104.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	142.3	527.2	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.6	62.0	213.4	351.1	455.7	513.9	519.8	475.1	379.8	250.0	97.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	138.5	519.8	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.6	57.1	205.3	342.2	445.4	504.4	502.8	465.6	372.9	242.4	90.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	134.8	504.4	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.5	53.7	202.9	340.2	442.4	500.9	509.6	466.1	371.8	243.0	88.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	134.4	509.6	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.4	52.0	202.0	341.1	446.7	504.7	510.6	463.6	370.1	239.2	83.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	134.1	510.6	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.4	24.5	175.3	291.1	347.0	376.6	344.7	264.7	196.9	90.5	35.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	89.6	376.6	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	36.3	98.2	154.6	226.8	247.8	271.0	166.8	85.9	36.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	55.5	271.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2	187.6	318.6	422.3	477.1	480.9	434.4	341.1	216.0	68.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	124.8	480.9	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	177.8	301.2	414.8	472.6	478.7	433.4	338.4	210.7	60.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	121.9	478.7	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	30.3	35.3	121.5	290.8	457.9	248.7	136.7	56.9	21.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	58.9	457.9	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	2.5	55.2	162.6	277.9	383.1	453.5	450.1	414.4	325.3	232.2	114.2	18.6	0.4	0.0	0.0	0.0	0.0	0.0	120.4	487.6	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	16.8	132.9	321.7	484.9	639.4	638.6	663.0	585.3	530.6	418.3	218.1	75.2	2.5	0.0	0.0	0.0	0.0	0.0	188.0	663.0	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	30.3	35.3	121.5	156.1	176.5	173.0	78.2	56.9	21.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	54.1	212.2	0.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
November 2013

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	44.5	102.3	173.3	316.3	387.7	267.9	125.4	71.3	39.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	64.5	387.7	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	57.6	93.7	320.6	457.5	344.9	148.8	95.0	29.6	8.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	65.3	457.5	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	34.3	284.8	360.7	187.0	179.6	157.8	119.8	116.9	28.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	62.0	360.7	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	83.0	205.4	295.7	507.6	371.0	177.7	101.9	149.9	19.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	80.3	507.6	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	88.0	256.1	393.9	373.2	283.9	257.2	147.2	57.9	7.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	78.5	393.9	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	23.1	57.0	137.8	234.2	427.9	347.5	312.3	155.9	48.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	72.9	427.9	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	60.5	83.7	170.7	204.5	197.2	Au	Au	Au	15.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	35.2	204.5	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	41.6	80.0	146.5	174.6	152.5	142.8	136.9	50.2	27.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	39.9	174.6	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	91.1	220.6	257.9	362.1	341.8	223.3	187.9	125.7	36.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	77.4	362.1	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	40.2	82.9	166.4	76.6	55.6	73.6	78.5	96.8	40.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	29.9	166.4	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	84.7	179.0	245.5	358.9	360.8	250.2	176.0	161.0	36.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	77.5	360.8	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	64.1	145.0	208.6	190.6	166.6	195.9	259.0	144.1	39.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	59.2	259.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	95.5	268.1	195.7	336.9	383.8	263.4	259.6	101.5	21.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	383.8	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	67.7	134.0	150.5	226.8	250.8	221.6	234.4	92.1	27.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	58.8	250.8	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	26.2	67.0	98.3	113.9	90.1	71.4	70.8	83.0	13.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	26.5	113.9	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	37.1	63.8	67.3	161.4	328.1	328.8	171.8	105.1	33.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	54.1	328.8	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	40.6	125.8	158.0	257.0	398.4	328.5	312.3	100.3	17.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	72.6	398.4	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	75.6	156.5	203.3	211.3	207.8	205.3	193.8	76.1	17.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	56.5	211.3	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	51.8	123.2	221.6	421.5	193.8	201.5	106.1	32.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.8	421.5	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	18.9	83.5	145.6	239.3	297.7	318.1	264.4	163.4	19.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	64.7	318.1	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	75.3	203.9	306.0	371.9	389.0	355.1	272.3	159.5	16.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	89.7	389.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	77.3	194.6	296.1	361.4	377.9	345.8	267.2	156.1	14.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	87.3	377.9	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	81.3	195.9	294.8	355.8	374.6	345.8	267.9	156.7	14.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	87.1	374.6	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	60.7	188.7	304.5	331.2	298.0	186.5	237.8	150.1	13.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	73.9	331.2	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	58.0	179.6	285.5	331.3	177.0	223.3	282.4	140.8	18.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	70.8	331.3	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	62.6	180.2	287.8	338.0	365.5	254.3	193.4	107.0	21.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	75.5	365.5	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	42.9	98.8	209.9	296.3	298.6	266.6	198.2	105.4	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.1	298.6	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	36.0	118.7	154.7	368.0	363.3	318.1	277.2	143.4	9.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	74.6	368.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	46.0	185.6	285.2	297.9	317.4	311.7	254.8	94.5	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.4	317.4	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.5	40.5	102.6	110.5	101.2	108.9	84.2	39.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	110.5	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	55.9	146.6	221.5	285.8	282.8	237.8	196.2	109.2	22.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	64.7	325.1	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	95.5	284.8	393.9	507.6	427.9	355.1	312.3	163.4	48.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	89.7	507.6	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.5	40.5	67.3	76.6	55.6	71.4	70.8	29.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	110.5	0.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
December 2013

Day	<< Hour >> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	10.1	33.1	38.3	40.5	52.3	73.1	51.0	19.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	73.1	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	10.6	68.0	149.2	162.3	99.6	104.4	97.1	57.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8	162.3	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	36.1	175.2	276.7	299.0	197.8	166.3	101.3	72.5	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.9	299.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	21.4	107.6	245.2	196.6	196.4	159.4	245.8	103.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.7	245.8	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	43.4	165.3	260.2	325.1	346.3	316.3	242.6	131.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7	346.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	31.6	150.9	251.8	316.3	343.3	303.1	149.2	85.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.6	343.3	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	17.0	102.4	226.9	304.6	335.6	309.7	237.8	127.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.7	335.6	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	53.7	135.0	241.9	171.8	116.6	96.7	69.5	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	241.9	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.8	65.0	83.2	126.0	79.9	86.2	64.8	29.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	126.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	14.4	56.5	127.3	154.4	127.5	174.3	114.4	52.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	174.3	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	18.7	92.7	233.9	298.7	317.1	281.9	187.0	124.4	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.5	317.1	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	102.9	277.8	Ca	Ca	Ca	131.5	95.4	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	277.8	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	46.9	94.4	114.7	117.5	135.0	171.5	76.5	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	171.5	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.3	48.1	140.1	92.9	69.6	48.5	52.1	42.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	140.1	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	79.4	169.0	137.5	124.5	130.3	95.2	67.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	169.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	17.3	127.3	234.3	288.9	316.0	272.7	202.0	127.3	18.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	66.9	316.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	30.5	128.4	222.0	257.0	299.9	317.8	233.2	127.7	17.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	68.1	317.8	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	48.4	94.8	150.0	205.7	176.2	114.1	72.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9	205.7	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	84.5	244.3	306.1	301.6	237.3	238.9	134.7	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.7	306.1	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	49.7	124.2	204.0	197.2	236.9	94.8	50.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6	236.9	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	22.3	39.5	58.8	70.4	66.1	83.4	66.7	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	83.4	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	29.7	75.6	100.5	122.1	130.1	95.5	57.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	130.1	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	61.8	114.3	148.9	172.6	132.5	140.0	72.5	17.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	36.3	172.6	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	46.4	104.6	306.4	282.6	210.0	265.1	174.6	24.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	59.4	306.4	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3	121.9	223.6	302.0	317.0	296.9	252.6	147.4	12.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	70.6	317.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	36.0	90.7	199.3	181.3	99.7	57.9	49.5	11.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	30.6	199.3	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	135.2	235.2	309.3	321.4	270.0	201.9	104.0	19.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	67.2	321.4	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	42.1	132.2	220.5	197.8	157.7	262.8	58.3	12.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	45.5	262.8	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	127.2	139.7	109.9	126.9	202.1	105.1	52.5	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	202.1	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	99.8	172.1	250.7	284.7	202.6	93.7	65.7	14.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	49.9	284.7	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	30.4	58.2	91.9	76.8	58.6	43.2	35.9	14.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	17.4	91.9	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	15.9	81.9	161.8	203.8	201.8	182.4	145.9	82.3	13.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	44.8	231.5	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	43.4	175.2	277.8	325.1	346.3	317.8	265.1	174.6	24.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	76.7	346.3	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	22.3	38.3	40.5	52.3	48.5	43.2	19.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	73.1	0.0

APPENDIX B: PERFORMANCE AUDIT REPORTS FOURTH QUARTER 2013

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): ($PM_{2.5}$) PM_{10}		Sampler Serial Number: 1622	
Sampler Site Designation: MLR 1 PM 2.5 Reporting			
Auditor: Jeff Bell		Site Operator: Steve Heck	
Barometric Pressure Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	657	657.0	0
Thermocouple Temperature Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	4.6 °C	6.5 °C	-1.9
Filter thermocouple	4.9 °C	6.0 °C	-1.1
Flow Rate Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.71	16.53	1.09
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.53	16.67	-0.84
Leak Check			
Vacuum Readings (in. H_2O)	Start 96 cm	End 93 cm	(Pass) / Fail?
Signature			
Auditor: Jeff S Bell		Site Operator: Steven R Heck	

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): $PM_{2.5}$ PM_{10}		Sampler Serial Number: 1548	
Sampler Site Designation: MLR 2		PM 10	
Auditor: Jeff Bell		Site Operator: Steve Heck	
Barometric Pressure Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	657	657.0	0
Thermocouple Temperature Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	4.7	6.5	-1.8
Filter thermocouple	6.6	6.5	0.1
Flow Rate Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.72	16.90	-1.07
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.90	16.67	1.38
Leak Check			
Vacuum Readings (in. H_2O)	Start 100 cm	End 99 cm	(Pass) / Fail?
Signature			
Auditor: [signature]		Site Operator: [signature]	

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): (PM2.5) PM10		Sampler Serial Number: 1549	
Sampler Site Designation: MLR 3		Pm 2.5 Duplicate	
Auditor: Jeff Bell		Site Operator: Steve Heck	
Barometric Pressure Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	657	657.0	0
Thermocouple Temperature Sensor Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	5.0	5.4	-0.4
Filter thermocouple	6.0	6.5	-0.5
Flow Rate Audit			
Date: 11-7-13		Date standard last verified: 3-6-13	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.63	0.42
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.63	16.67	-0.24
Leak Check			
Vacuum Readings (in. H_2O)	Start 99 cm	End 98 cm	(Pass)/ Fail?
Signature			
Auditor: Jeff S Bell		Site Operator: Steven R Heck	

BISON
ENGINEERING, INC.

Bison Engineering

Preliminary Meteorological Parameters Audit Form

Audit Dates: 11/7/2013 Audit Start Time : 13:00 MST Audit End Time : 15:30 MST

Client: Montana Limestone Resources MLR
Site: Drummond Met station
AUDITOR: Jeff Bell STATION OPERATOR: Steve Heck

Temperature

Audit Device: VWR Scientific Digital Thermometer
Model Number: 61220-601 Serial Number: 9935525
Last certified: 2/28/2013
Sensor Make: Climatronics
Model Number: 100093 Serial Number Upper: N1893C Serial Number Lower: N1889C

Temperature bath results

Audit Value oC	19m DAS Value oC	19m DAS Diff. oC	2m DAS Value oC	2m DAS Diff. oC	19m - 2m DAS Diff. oC
0.26	0.26	0.00	0.27	0.01	-0.01
17.70	17.61	-0.09	17.62	-0.08	-0.01
37.70	37.77	0.07	37.76	0.06	0.01

Wind Direction

Alignment Audit Device: Sokkia Transit-Magnetic
Model Number: 116
Linearity Audit Device: Climatronics
Model Number: 101966 Serial Number: 72
Sensor height: 20 Meter
Sensor Make: Climatronics/ WMIII
Model Number: 102083 Serial Number: P1336C

Crossarm Orientation: E-W
Magnetic Declination: 13
Measured Degrees: 13
Sensor response aligned with crossarm (as found): 91.3
Sensor response aligned with crossarm (as left): 91.2

Linearity Check from DAS (as found)

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.3	0.3	0.3	0.3
30	30.8	31.1	0.8	1.1
60	60.2	61.6	0.2	1.6
90	91.0	91.4	1.0	1.3
120	121.0	120.9	1.0	0.9
150	151.3	150.6	1.3	0.6
180	181.6	180.6	1.6	0.6
210	210.9	210.3	0.9	0.3
240	241.2	241.2	1.2	1.2
270	271.0	270.6	1.0	0.6
300	300.9	301.2	0.9	1.2
330	330.8	331.0	0.8	1.0
		Max Diff	**1.6**	**1.6**

Torque Audit Device: Watters torque watch
Model Number: 366-1 Serial Number: 4495
Threshold Torque: 0.04

Linearity Check from DAS (as left)

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.3	0.9	0.3	0.9
90	91.0	91.4	1.0	1.4
180	181.0	180.6	1.0	0.6
270	270.6	270.6	0.6	0.6
		Max Diff	**1.0**	**1.4**

Wind Speed

Audit Device: 300 rpm motor 600 rpm motor
Model Number: NA Serial Number: NA
Last certified: NA
Sensor height: 20 Meter
Sensor Make: Climatronics/ WMIII
Model Number: 102083 Serial Number: P1336C

Synchronous motor checks

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.13	-0.09
300	6.65	6.60	-0.05
600	13.08	12.96	-0.12

Torque Audit Device: Watters torque watch
Model Number: 366-1 Serial Number: 4495
Threshold Torque: <0.003

Solar Radiation

Audit Device: Eppley
Model Number: PSP Serial Number: 16166F3
Last certified: NA
Sensor Make: LI Cor Pyranometer
Model Number: 096-1 Serial Number: PY82228

Audit Value: 212.0 w/m2
Station Value: 210.0 w/m2
Diff.: -0.9 %

Signature Site Operator :

Signature Auditor :

MONTANA LIMESTONE RESOURCES, LLP DRUMMOND, MONTANA AMBIENT AIR MONITORING PROGRAM

Quarterly Data Report

First Quarter 2014

Prepared for:

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May 15, 2014

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume I, A Field Guide to Environmental Quality Assurance (April 1994), Volume II, Ambient Air Quality Program (May 2013), and Volume IV, Meteorological Measurements (March 2008).*

Preparer: Jeffrey S. Bell

Signature: Jeffrey S Bell

Title: Senior Field Technician

Date: 4/29/14

Reviewer: Rebecca L. Picchioni, P.E.

Signature: Rebecca R

Title: Project Engineer

Date: 5/9/14

TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 $PM_{2.5}$ PRECISION CHECK DATA 7

4.0 SULFUR DIOXIDE PRECISION CHECK DATA 9

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA 10

6.0 CALIBRATION DATA 11

7.0 PERFORMANCE AUDIT DATA 17

8.0 DATA COMPLETENESS 18

9.0 MONITORING DATA 24

LIST OF TABLES

Table 1. $PM_{2.5}$ Precision Check Data 8
Table 2. SO_2 Precision Check Data 9
Table 3. SO_2 Zero/Span Check Data 10
Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration 13
Table 5. MLR-2 PM_{10} Sampler Calibration 14
Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration 15
Table 7. SO_2 Calibration 16
Table 8. PM_{10} Data Completeness 19
Table 9. $PM_{2.5}$ Data Completeness 19
Table 10. Monthly Data Completeness 20
Table 11. Quarterly Data Completeness 23
Table 12. Missing Data Codes 25
Table 13. MLR-2 PM_{10} Sampling Data – $\mu g/m^3$ (LTP) 26
Table 14. MLR-1 Reporting $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting) (LTP) 27
Table 15. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate) (LTP) 28
Table 16. SO_2 Data Summary for MLR Drummond Site 29
Table 17. Monthly Wind Rose Summary, Drummond 30
Table 18. Monthly Wind Rose Summary, Drummond 31
Table 19. Monthly Wind Rose Summary, Drummond 32
Table 20. Quarterly Wind Rose Summary, Drummond 33

LIST OF FIGURES

Figure 1. Monitoring Site Location 2
Figure 2. Monthly Wind Rose, Drummond Site 34
Figure 3. Monthly Wind Rose, Drummond Site 35
Figure 4. Monthly Wind Rose, Drummond Site 36
Figure 5. Quarterly Wind Rose, Drummond Site 37

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Report

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) has established three ambient monitoring sites near Drummond, Montana, to measure baseline air quality and meteorology near a proposed mine.

- In August 2013 a particulate monitoring system was installed to measure particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns (micrometers) or less (PM_{10}).

- In September 2013 a 20-meter meteorological tower was installed to monitor wind speed, wind direction, standard deviation of wind direction, temperature at 20 meters and 2 meters, delta temperature, and solar radiation. A relative humidity sensor was added to that system in April 2014.

- In January 2014 a sulfur dioxide (SO_2) monitoring station was installed. A barometric pressure sensor was added to that site in February 2014.

The sites are operated by Bison Engineering, Inc. (Bison), of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the first quarter (January through March) of 2014. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations, and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. Monitoring Site Locations

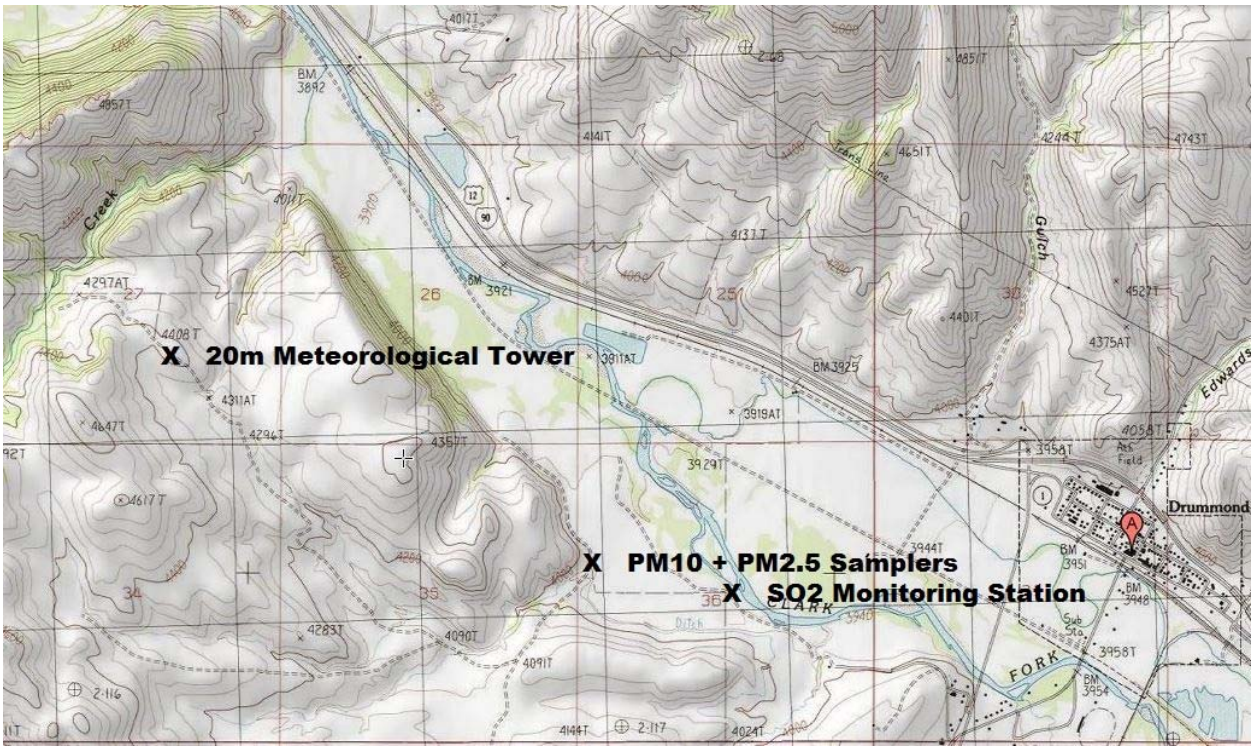


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about three weeks to complete. The meteorological instruments on the tower were in full operation and producing valid data by September 23, 2013.

The installation of the SO_2 monitor took place on January 9, 2014, and the barometric pressure sensor was added on February 3, 2014. The SO_2 monitor is a Thermo Scientific Model 43i-TL and was designated as an equivalent automated method (#EQSA-0486-060) by EPA in September 2005. The range of this instrument is set to 0 – 500 ppb. The system automatically performs a zero-span check every 23 hours.

The first particulate samples were collected on August 17, 2013. The $PM_{2.5}$ and PM_{10} sampling is accomplished with three BGI Model PQ200 battery-powered low volume samplers. The $PM_{2.5}$ samplers have Very Sharp Cut Cyclone (VSCC) separators. The sample filters were submitted to the Bison-Billings Office for gravimetric analysis. All $PM_{2.5}$ and PM_{10} samplers were in full operation and producing valid data by August 16, 2013. This monitoring procedure is similar to that employed at other State and Local Air Monitoring Stations (SLAMS).

The particulate monitoring site includes:

- **Sampler MLR-1 ($PM_{2.5}$ Reporting)**, which operates on a one-day-in-three schedule;
- **Sampler MLR-2 (PM_{10} Reporting)**, which operates on a one-day-in-three schedule; and
- **Sampler MLR-3 ($PM_{2.5}$ Duplicate)**, which operates on a one-day-in-six schedule.

Collocated results from the two $PM_{2.5}$ samplers are used to determine sampling precision statistics.

All meteorological instruments operated with no problems during the quarter. However, the scheduled quarterly calibration could not be performed due to extreme winter weather that prevented vehicle access to the meteorological site until early April. A full calibration was performed on the meteorological instruments on April 8.

Two particulate samples from sampler MLR-3 (duplicate $PM_{2.5}$) were missed because of problems caused by extreme cold. However, all scheduled samples from the reporting $PM_{2.5}$ and PM_{10} samplers were collected successfully. Details are provided in Section 6.0, “Data Completeness.”

The SO_2 monitor operated with no problems during the quarter.

Don Milmine of Bison conducted performance audits of the particulate samplers and SO_2 monitor on February 11, 2014. The audits produced satisfactory to excellent results for all instrumentation. The Bison report of the audits is presented in Appendix B.

2.1 Summary of Method for $PM_{2.5}$ and PM_{10}

The "method" for $PM_{2.5}$ and PM_{10} consists of:

- A $PM_{2.5}$ and PM_{10} sampler or analyzer designed, built and sold by a particular manufacturer to meet the design specifications found at 40 CFR Part 50, Appendix L;
- An operation or instruction manual provided by the instrument manufacturer that describes the proper use and operation of the sampler or analyzer; and
- The other operational and quality assurance requirements necessary to obtain reliable $PM_{2.5}$ and PM_{10} concentration measurements. These performance specifications are found at 40 CFR Part 53, Appendix E. Bison also prepared a Quality Assurance Project Plan for the operation of the samplers.

Bison used three BGI Incorporated (BGI) PQ200 federal reference method (FRM) samplers. The $PM_{2.5}$ samplers use the additional Very Sharp Cut Cyclone (VSCC). The PM_{10} samplers use the (BGI WE10) WINS Eliminator to convert $PM_{2.5}$ Sampler to PM_{10} FRM. These samplers have been designated by the U.S. EPA as an equivalent method for the determination of $PM_{2.5}$ and PM_{10} in ambient air. Designation No. EQPM-0202-142 has been assigned to this sampling method in the Code of Federal Regulations. This sampler is specifically designed to comply with the requirements of the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (40 CFR 50) and to facilitate sampling as specified in that document.

The BGI PQ200-VSCC is specifically designed as an equivalent method for the measurement of $PM_{2.5}$ and PM_{10}. The design specifications include:

- Operation with firmware version 3.88, 3.91, 3.89R, or 3.91R, for 24-hour sample periods;
- Operation in accordance with the Model PQ200-VSCC Instruction Manual and VSCC supplemental manual;
- Operation with sample collection filters specified in 40 CFR Part 50, Appendix L.
- Operation with or without the optional solar power supply or the optional dual filter cassette and associated lower impactor housing, where the upper filter is used for $PM_{2.5}$.

2.2 Principle of Operation of $PM_{2.5}$ and PM_{10} Samplers

The PM_{10} inlet, sample tube, VSCC, filter holder, and filter cassette are design-specified. Mechanical drawings have been made publicly available by EPA. The remainder of the reference method sampler is performance-specified and requires that:

- The sampler provides automatic control of the sample flow rate to ± 5% of 16.67 lpm.
- The sampler monitors the operational parameters and logs the ambient temperature, filter temperature, ambient barometric pressure, and system pressure every five minutes during the 24-hour sampling event.
- The logged information is available to the sampler operator during and at the end of each sample event in both visual and electronic data form.
- The microprocessor provides a digital display which updates continuously while an RS232 data output port provides the capability for logged data to be electronically output from the sampler.

In the Model PQ200-VSCC, the fixed flow rate of 16.67 lpm is maintained by a microprocessor. Temperature and pressure data are collected and corrections are made for the differences of temperature and pressure between the ambient and sampler conditions. The barometric pressure, meter pressure drop, ambient temperature, filter temperature, and meter temperature are measured and reported by the PQ200-VSCC control system. The vacuum pump and volumetric flow rate control system, flow rate measurement device, ambient and filter temperature monitoring system, timer, outdoor enclosure, and microprocessor monitoring control capability meet design and functional performance requirements as specified in Appendix L.

The air inlet which removes particulate matter larger than 10 microns, the downtube which carries the sample stream from the inlet to the secondary particle size separator (VSCC), the VSCC itself, the filter cassette, and the internal configuration of the filter holder assembly are specified explicitly by EPA in Appendix L of 40 CFR 50. The EPA specifications include design figures, and associated mechanical dimensions, tolerances, materials, surface finishes, assembly instructions and other necessary specifications.

The basic measurement approach for the EPA design is similar to that of the dichotomous sampler that has been used for over 20 years. Large particles are eliminated by gravity before reaching the inlet of this low-flow-volume sampler. The omni-directional inlet acts as an aerodynamic device that does not discriminate ambient PM_{10} under varying wind and climate conditions and provides a clean aerodynamic cut-point for particles of greater than 10 microns that enter the system.

The air sample flows through the PM_{10} inlet and then through a 12-inch length of tubing (the downtube). The downtube supports the PM_{10} inlet above the sampler shelter and transports the sample stream to the $PM_{2.5}$ particle size separator (the VSCC). This VSCC operates at a volumetric sample rate of 16.67 lpm and has a sharp aerodynamic cut-point at 2.5 micrometers. The particles greater than $PM_{2.5}$ are removed to the grit pot on the side of the VSCC. The $PM_{2.5}$ sample is ducted through the cyclone separator to the filter holder and collected on the 47 mm PTFE filter media.

Prior to transport to the field for sample collection, the filters are equilibrated to constant temperature and relative humidity conditions and are weighed in a laboratory setting. After sampling, the filters are again equilibrated to essentially the same constant temperature and humidity conditions and again weighed in the laboratory. The concentration is determined by dividing the weight difference of the filter before and after the sample is collected by the volume of air that passed through the sampler during the sample collection period.

3.0 $PM_{2.5}$ PRECISION CHECK DATA

Precision of the $PM_{2.5}$ data is evaluated by operating collocated samplers at a monitoring site. The differences between the paired measurements represent the precision of the $PM_{2.5}$ data.

The precision data from the two $PM_{2.5}$ samplers collocated at the monitoring station are given in Table 1. In accordance with EPA's policy for evaluating $PM_{2.5}$ precision data, only $PM_{2.5}$ concentrations of at least 3 $\mu g/m^3$ are included in the precision calculations. In addition, the quarterly summary statistics, as described in EPA's "Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A" are presented at the end of each table.

Table 1. $PM_{2.5}$ Precision Check Data

First Quarter 2014			
Date	Reporting Concentration** $\mu g/m^3$	Duplicate Concentration** $\mu g/m^3$	Relative Percent Difference
1/05	2	2	0.000
1/11	1	2	-66.667
1/17	3	2	40.000
1/23	3	3	0.000
1/29	2	2	0.000
2/04	4	ND	NA
2/10	11	ND	NA
2/16	1	2	-66.667
2/22	2	2	0.000
2/28	3	3	0.000
3/06	1	1	0.000
3/12	2	2	0.000
3/18	2	1	66.667
3/24	3	3	0.000
3/30	1	1	0.000

First Quarter Summary Statistics*	
n =	3
$\Sigma\|d\|$ =	0.000
Σd =	0.000
Σd^2 =	0.000
CV (%) =	0.000
25th Percentile =	0.000
75th Percentile =	0.000

*Only sampling runs where both of the $PM_{2.5}$ concentrations were at least 3 $\mu g/m^3$ were included in the calculation of the quarterly summary statistics.
**See Table 12 for an explanation of the missing data codes.

4.0 SULFUR DIOXIDE PRECISION CHECK DATA

Precision checks of the sulfur dioxide analyzers are manually performed every two weeks. Results for the first quarter are presented in Table 2. In addition, the quarterly summary statistics, as described in EPA's *Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A,* are presented.

The precision checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration (between 0.08 and 0.10 parts per million) of sulfur dioxide. The differences between the analyzer responses and the known concentrations of the test gas represent the precision of the monitoring data.

Table 2. SO_2 Precision Check Data

Drummond SO_2 Site - First Quarter 2014			
Date	Reference Concentration (ppm)	Analyzer Response (ppm)	Percentage Difference
Jan 9	0.090	0.089	-1.111
21	0.090	0.089	-1.111
Feb 3	0.090	0.088	-2.222
18	0.090	0.090	0.000
Mar 4	0.090	0.091	1.111
18	0.090	0.091	1.111
Quarterly Summary Statistics			
		n =	6
		S_d =	1.346
		S_{d2} =	1.687
		$\Sigma\|d\|$ =	6.667
		Σd =	-2.222
		Σd^2 =	9.877
		AB =	1.111
		AS =	0.703
		CV (%) =	2.37
		Signed Bias =	+/-1.69
		25th Percentile =	-1.111
		75th Percentile =	0.833
		Upper 95 Percent Probability Limit =	2.27
		Lower 95 Percent Probability Limit =	-3.01

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA

Level 1 zero/span checks are manually conducted every two weeks and results for the first quarter of 2014 are given in Table 3. The zero/span checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration of sulfur dioxide between 70 and 90 percent of the full scale of the analyzer. The analyzer response is noted and the percentage difference between the analyzer response and the concentration of the test gas is calculated. Test gas containing no sulfur dioxide also is presented to the analyzer and the analyzer's response to this "zero air" is noted.

Additionally, an automatically triggered zero/span check occurs every 23 hours.

Table 3. SO_2 Zero/Span Check Data

First Quarter 2014					
Drummond SO_2 Site					
Date	Reference Concentration (ppm)	Zero Response (ppm)	Span Response (ppm)	Zero Drift (percent of full scale)	Span Drift (percent)
Jan 9	0.400	0.0000	0.398	0.00	-0.50
21	0.400	0.0001	0.391	0.02	-2.25
Feb 3	0.400	0.0002	0.390	0.04	-2.50
18	0.400	0.0000	0.395	0.00	-1.25
Mar 4	0.400	0.0000	0.402	0.00	0.50
18	0.400	0.0000	0.406	0.00	1.50

6.0 CALIBRATION DATA

6.1 Particulate Samplers

Calibration checks / adjustments to the particulate samplers are performed as follows:

- A multipoint flow calibration is performed at the time of installation, at least once per quarter, and upon failure of a single-point flow verification;
- A single-point flow verification is performed at least once per month;
- A multipoint temperature sensor verification/calibration is performed at least once per year, and upon failure of a single-point verification;
- A single-point verification of the temperature sensors is performed at least once per month;
- A single-point verification of the pressure sensor is performed at least once per month.
- Additional calibration checks/adjustments are also performed whenever there is any indication that the system is inaccurate or operating improperly, and whenever adjustments are made to the system that could affect its calibration.

Additionally, the integrity of the sampling train is verified prior to each sampling run by using the sampler internal leak test function. During this check, the pressure drop must be less than five centimeters of water over two minutes.

The results of the multipoint flow calibrations of the $PM_{2.5}$ and PM_{10} samplers conducted during the first quarter are presented in Tables 4 through 6. Results of single-point flow, temperature and pressure verifications are documented on the “MLR Particulate Monitoring Field Data Form” that is completed by the site operator prior to each sampling event. All flow, temperature and pressure checks of the particulate samplers were performed using a certified BGI DeltaCal unit.

6.2 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter:

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motors;
- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;

- The solar radiation sensor is certified by the manufacturer, and is verified by taking collocated measurements with a certified sensor.

The scheduled quarterly calibration could not be performed due to extreme winter weather that prevented vehicle access to the meteorological tower until early April. A full calibration was performed on the meteorological instruments on April 8.

The calibration of the barometric pressure sensor (at the sulfur dioxide monitoring site) was checked against a certified standard at the time of installation. The site sensor produced a reading of 25.95 inches, while the certified standard read 25.93 inches.

6.3 Sulfur Dioxide Monitor

Results of the sulfur dioxide calibrations performed during the first quarter of 2014 are given in Table 7. Analyzer calibrations are carried out at the field monitoring sites by allowing the analyzer to sample an artificial test atmosphere of known concentration. During calibration, the analyzer is operated in its normal sampling mode, and the test atmosphere is passed through all filters, scrubbers, and conditioners used during normal ambient sampling. All operational adjustments to the analyzer are completed prior to calibration. All calibrations include a zero concentration and at least four upscale points spaced approximately equally over the range of the analyzer.

Calibrations are performed:

- Once per quarter;
- After an interruption of more than a few days in analyzer operation;
- Following any repairs which might affect analyzer calibration;
- Following a physical relocation of the analyzer; or
- After any other indication of significant inaccuracy of the analyzer, such as excessive zero drift or seven points in an upward or downward trend.

Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-1) AT DRUMMOND
Performed 03-20-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

FLOW VERIFY (as found)

Delta Cal = 16.75 LPM

Sampler Reading = 16.70 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	19.73	18.37
16.7 LPM	18.39	16.70
15.0 LPM	15.93	15.03

FLOW VERIFY (as left)

Delta Cal = 16.67 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 1.7 deg C

Sampler = 1.7 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 2.0 deg C

Sampler = 2.0 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 657.5 mmHg

Sampler = 657 mmHg No adjustment

LEAK CHECK

Initial 98 cm
Final 95 cm Pass

Signature of Calibrator Steven R Heck

Table 5. MLR-2 PM_{10} Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1548 (MLR-2) AT DRUMMOND
Performed 03-20-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

FLOW VERIFY (as found)

Delta Cal = 16.85 LPM

Sampler Reading = 16.72 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	19.94	18.36
16.7 LPM	17.87	16.65
15.0 LPM	16.60	14.96

FLOW VERIFY (as left)

Delta Cal = 16.75 LPM

Sampler Reading = 16.72 LPM

AMBIENT TEMPERATURE

Delta Cal = 1.3 deg C

Sampler = 1.3 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 2.9 deg C

Sampler = 2.8 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 657.5 mmHg

Sampler = 657 mmHg No adjustment

LEAK CHECK

Initial 99 cm
Final 96 cm Pass

Signature of Calibrator Steven R. Heck

Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1549 (MLR-3) AT DRUMMOND
Performed 03-20-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 4-25-2013

FLOW VERIFY (as found)

Delta Cal = 16.65 LPM

Sampler Reading = 16.70 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	19.79	18.42
16.7 LPM	17.76	16.65
15.0 LPM	16.22	15.04

FLOW VERIFY (as left)

Delta Cal = 16.69 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE

Delta Cal = 2.0 deg C

Sampler = 1.9 deg C No adjustment

FILTER TEMPERATURE

Delta Cal = 3.5 deg C

Sampler = 2.8 deg C No adjustment

AMBIENT PRESSURE

Delta Cal = 657.5 mmHg

Sampler = 657 mmHg No adjustment

LEAK CHECK

Initial 98 cm
Final 94 cm Pass

Signature of Calibrator Steven R Heck

Table 7. SO_2 Calibration

January 9, 2014			
Analyzer: Thermo Environmental Inc.43i-TL, S/N 904834740			
Background Setting Unadjusted: 2.6800 Adjusted: 3.3300		Span Coefficient Setting Unadjusted: 1.0000 Adjusted: 1.0080	
Calibration Flow Standard flow kit model : Gillibrator Flow Cell : all		Calibrator: Thermo Electron Inc. 146i S/N 904834743	
Reference Concentration (ppm)	Analyzer Response (ppm)	Chart Response (ppm)	Percentage Difference
0.000	0.0000	NA	0.0
0.400	0.398	NA	-0.5
0.300	0.299	NA	-0.3
0.200	0.196	NA	-2.0
0.080	0.080	NA	0.0
Linear Regression Analysis*			
Slope =	0.99494		
Intercept =	-0.00041		
Correlation Coefficient =	0.99996		

* Least squares linear regression, given by y = ax + b, where y is the analyzer response, x is the reference concentration, a is the slope, and b is the intercept.

7.0 PERFORMANCE AUDIT DATA

Don Milmine of Bison conducted performance audits of the particulate samplers and sulfur dioxide analyzer on February 11. Each audit produced results within the recommended tolerance limits. The Bison report of the audits is presented in Appendix B.

Audit criteria for the particulate samplers include:

- The internal leak test must produce a result of < 5 cm H_2O over two minutes.
- The indicated particulate sampler flow rate must not differ from the audit flow rate by more than ±4%.
- The audit flow rate must not differ from the design flow rate (16.67 LPM) by more than ±5%.
- The particulate sampler temperature sensors must be in error by no more than ±2°C.
- The particulate sampler pressure sensors must be in error by no more than ±10 mmHg

Audit criteria for the sulfur dioxide analyzer are detailed in a separate table in Appendix B. In general, the most significant are:

- The allowable error for audit concentrations ≥ 0.010 ppm is ≤ ±15% at each point.
- The allowable error for audit concentrations < 0.010 ppm, and at the zero point, is ≤ ±1.5 ppb.

No meteorological audit was performed during the first quarter of 2014.

8.0 DATA COMPLETENESS

The $PM_{2.5}$ and PM_{10} percentages of data recovery during the first quarter of 2014 are given in Table 8 and 9. In these tables, the number of possible data values during each month of the first quarter is given, together with the number of valid readings. The percentage data recovery is computed by dividing the number of valid readings by the number of possible readings and multiplying the result by 100.

During the first quarter of 2014, the net percentage data recovery was 100.00 percent for the PM_{10} sampler, 100.00 percent for the $PM_{2.5}$ reporting sampler, and 86.67 percent for the $PM_{2.5}$ duplicate sampler at Drummond. The loss of data was due to extreme cold which affected a pressure sensor in the sampler.

The percentages of data recovery for meteorological parameters and the SO_2 monitor are given in Tables 10 and 11. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as precision checks, zero/span checks, calibrations, performance audits, and maintenance on the analyzers). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery.

During first quarter, the net percentage data recovery was 100.0 percent for SO_2 and for all parameters at the Drummond site.

Table 8. PM_{10} Data Completeness

First Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-2 PM_{10} Sampler			
January	10	10	100.00
February	10	10	100.00
March	10	10	100.00
First Quarter	30	30	100.00

Table 9. $PM_{2.5}$ Data Completeness

First Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-1 Reporting $PM_{2.5}$ Sampler			
January	10	10	100.00
February	10	10	100.00
March	10	10	100.00
First Quarter	30	30	100.00
MLR-3 Duplicate $PM_{2.5}$ Sampler			
January	5	5	100.00
February	5	3	60.00
March	5	5	100.00
First Quarter	15	13	86.67

Table 10. Monthly Data Completeness

January 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Sulfur Dioxide	540	508	94.1	32	100.0
Barometric Pressure	0	0	N/A	N/A	N/A
Total	5,748	5,716	99.4	32	100.0

Table 10. Monthly Data Completeness (Continued)

February 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	672	672	100.0	0	100.0
Wind Direction	672	672	100.0	0	100.0
Standard Deviation	672	672	100.0	0	100.0
Temperature 19 Meters	672	672	100.0	0	100.0
Temperature 2 Meters	672	672	100.0	0	100.0
Temperature Delta T	672	672	100.0	0	100.0
Solar Radiation	672	672	100.0	0	100.0
Sulfur Dioxide	672	631	93.9	41	100.0
Barometric Pressure	611	611	100.0	0	100.0
Total	5,987	5,946	99.3	41	100.0

Table 10. Monthly Data Completeness (Continued)

March 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Sulfur Dioxide	744	707	95.0	37	100.0
Barometric Pressure	744	744	100.0	0	100.0
Total	6,696	6,659	99.4	37	100.0

Table 11. Quarterly Data Completeness

First Quarter 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	2,160	2,160	100.0	0	100.0
Wind Direction	2,160	2,160	100.0	0	100.0
Standard Deviation	2,160	2,160	100.0	0	100.0
Temperature 19 Meters	2,160	2,160	100.0	0	100.0
Temperature 2 Meters	2,160	2,160	100.0	0	100.0
Temperature Delta T	2,160	2,160	100.0	0	100.0
Solar Radiation	2,160	2,160	100.0	0	100.0
Sulfur Dioxide	1,956	1,846	94.4	110	100.0
Barometric Pressure	1,355	1,355	100.0	0	100.0
Total	18,431	18,321	99.4	110	100.0

9.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 12.

The $PM_{2.5}$ and PM_{10} data collected during first quarter at the site are given in Tables 13 through 15. These tables give the 24-hour $PM_{2.5}$ and PM_{10} concentrations measured (referenced to local temperature and pressure), together with the first- and second-highest 24-hour $PM_{2.5}$ and PM_{10} concentrations and average $PM_{2.5}$ and PM_{10} concentrations during each month, quarter, and the year to date. All concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

The SO_2 data collected during the first quarter are summarized in Table 16, with hourly values shown in Appendix A. All SO_2 concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

There is one hourly value of SO_2 concentration, 28 ppb or 0.028 ppm, which occurred on February 12, 2014, on the hour ending at 1200 MST, which we consider suspect. Every other hourly SO_2 concentration during the quarter was either 0 or 1 ppb. The one hour of 28 ppb seems out of place. We have investigated the circumstances of this abnormal value and can find no explanation. We found no indications of abnormal operations or malfunction of the equipment, and are also unaware of any actual circumstance which could cause the ambient SO_2 value to be elevated for that one hour.

We have no concrete reason to invalidate that hour of data, and have left it in the record for transparency. We do regard that value with suspicion, however.

Monthly and quarterly wind rose distributions from the meteorological tower are presented in Tables 17 through 20. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 through 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 12. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 13. MLR-2 PM_{10} Sampling Data – µg/m^3 (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		5											1
2	5												2
3			12										3
4		5											4
5	11												5
6			2										6
7		10											7
8	10												8
9			2										9
10		13											10
11	3												11
12			4										12
13		4											13
14	2												14
15			4										15
16		2											16
17	4												17
18			3										18
19		3											19
20	4												20
21			4										21
22		3											22
23	4												23
24			5										24
25		5											25
26	3												26
27			3										27
28		17											28
29	3												29
30			2										30
31													31
Monthly Summaries for Site													
Max	11	17	12										Max
2nd	10	13	5										2nd
Avg	4.9	6.7	4.1										Avg
Count	10	10	10										Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	17				17
2nd	13				13
Avg	5.2				5.2
Count	30				30

* See Table 10 for an explanation of the missing data codes.

Table 14. MLR-1 Reporting $PM_{2.5}$ Sampling Data – µg/m^3 (Reporting) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		4											1
2	3												2
3			4										3
4		4											4
5	2												5
6			1										6
7		7											7
8	7												8
9			1										9
10		11											10
11	1												11
12			2										12
13		2											13
14	1												14
15			2										15
16		1											16
17	3												17
18			2										18
19		1											19
20	3												20
21			3										21
22		2											22
23	3												23
24			3										24
25		3											25
26	3												26
27			2										27
28		3											28
29	2												29
30			1										30
31													31
Monthly Summaries for Site													
Max	7	11	4										Max
2nd	3	7	3										2nd
Avg	2.8	3.8	2.1										Avg
Count	10	10	10										Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	11				11
2nd	7				7
Avg	2.9				2.9
Count	30				30

* See Table 10 for an explanation of the missing data codes.

Table 15. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – µg/m^3 (Duplicate) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4		ND											4
5	2												5
6			1										6
7													7
8													8
9													9
10		ND											10
11	2												11
12			2										12
13													13
14													14
15													15
16		2											16
17	2												17
18			1										18
19													19
20													20
21													21
22		2											22
23	3												23
24			3										24
25													25
26													26
27													27
28		3											28
29	2												29
30			1										30
31													31
Monthly Summaries for Site													
Max	3	3	3										Max
2nd	2	2	2										2nd
Avg	2.2	2.3	1.6										Avg
Count	5	3	5										Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	3				3
2nd	3				3
Avg	2.0				2.0
Count	13				13

* See Table 10 for an explanation of the missing data codes.

Table 16. SO_2 Data Summary for MLR Drummond Site

Day	January 2014		February 2014		March 2014	
	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)
1			0.000	0.000	0.000	0.001
2			0.000	0.000	0.000	0.000
3			0.000	0.000	0.000	0.001
4			0.000	0.001	0.000	0.000
5			0.000	0.001	0.000	0.000
6			0.000	0.000	0.000	0.000
7			0.000	0.000	0.000	0.000
8			0.000	0.001	0.000	0.000
9	*0.000	*0.000	0.000	0.001	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	*0.000	*0.000	0.000	0.000
12	0.000	0.000	0.001	0.028	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.001	0.000	0.000
29	0.000	0.000	-----	-----	0.000	0.000
30	0.000	0.001	-----	-----	0.000	0.000
31	0.000	0.000	-----	-----	0.000	0.000
MONTH	0.000	0.001	0.000	0.028	0.000	0.001

*Indicates that average is based on less than 80% of possible data.

	Current Quarter	Year-to-Date
Average SO_2 Conc. (ppm)	0.000	0.000
Maximum 24-Hour SO_2 Conc. (ppm)	0.001	0.001
Maximum 1-Hour SO_2 Conc. (ppm)	0.028	0.028

Table 17. Monthly Wind Rose Summary, Drummond

January 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.0	0.7	0.8	1.3	1.6	2.0	4.4	3.4	2.4	2.6	0.9	0.8	1.1	0.4	0.4	0.3	23.1
	1.1 - 2.0	1.7	0.7	0.4	0.4	0.4	2.2	4.0	5.8	4.6	1.1	1.2	1.2	1.2	2.4	1.7	1.9	30.9
	2.1 - 3.0	0.4	0.3	0.1	0.0	0.1	0.0	0.7	0.1	0.4	0.3	0.3	0.5	2.8	3.4	1.1	0.8	11.3
	3.1 - 4.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.5	0.0	0.4	0.1	2.8	3.9	1.3	0.1	9.9
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.1	0.0	0.0	0.4	1.7	3.9	0.5	0.1	7.7
	5.1 - 6.0	0.0	0.0	0.0	0.1	0.5	1.1	0.0	0.0	0.0	0.3	0.0	0.0	0.7	3.0	0.1	0.1	5.9
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.3	0.1	0.0	3.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	2.6	0.3	0.0	3.4
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	0.0	0.0	1.9
	9.1 - 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	0.0	0.8	0.1	0.0	0.9
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.2
	11.1 - 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	0.1	0.4	0.0	0.0	0.5
	12.1 - 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	0.0	0.1	0.0	0.0	0.1
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	2.2	1.6	1.3	1.9	3.2	6.9	9.3	9.3	8.1	4.4	2.8	3.1	11.0	25.8	5.8	3.4	100.0
	Average Speed	1.5	1.4	1.1	1.2	2.3	2.9	1.2	1.2	1.4	1.7	1.7	1.9	3.3	5.2	3.2	2.0	2.8

Table 18. Monthly Wind Rose Summary, Drummond

February 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.7	0.9	0.7	1.0	1.0	1.3	4.0	4.6	7.7	3.6	1.3	0.6	0.9	0.1	0.3	0.3	29.3
1.1 - 2.0	0.7	1.0	0.9	1.0	0.4	1.5	2.2	4.2	6.7	2.7	0.6	0.3	0.7	1.3	0.9	0.7	26.0
2.1 - 3.0	0.1	0.1	0.0	0.0	0.9	1.5	1.8	1.8	0.4	0.4	0.6	0.3	0.9	1.0	0.0	0.6	10.6
3.1 - 4.0	0.0	0.0	0.3	0.1	0.4	1.5	1.3	0.0	0.1	0.1	0.3	0.6	1.5	1.3	0.3	0.0	8.0
4.1 - 5.0	0.0	0.0	0.3	0.0	0.0	1.6	0.6	0.0	0.3	0.0	0.0	0.6	1.9	1.5	0.6	0.0	7.4
5.1 - 6.0	0.0	0.0	0.0	0.0	0.1	2.5	0.3	0.0	0.3	0.0	0.0	0.6	0.7	2.5	0.4	0.0	7.6
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.4	0.0	0.0	0.6	2.1	0.0	0.0	4.9
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.3	0.3	1.2	0.1	0.0	2.7
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	1.3	0.4	0.0	2.2
9.1 - 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	0.0	0.4	0.1	0.0	0.6
10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12.1 - 13.0	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	0.3
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	1.6	2.1	2.2	2.2	3.0	12.4	10.4	10.6	15.6	7.7	3.3	3.4	7.6	12.9	3.3	1.6	100.0
Average Speed	1.2	1.3	1.9	1.1	2.0	4.0	2.0	1.3	1.3	1.9	2.9	4.0	3.7	5.3	4.3	1.6	2.7

Table 19. Monthly Wind Rose Summary, Drummond

March 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	1.1	0.4	1.1	0.3	0.8	1.3	1.5	1.2	2.2	0.8	0.4	0.3	0.8	0.3	0.7	0.9	14.0
1.1 - 2.0	0.9	0.7	0.4	0.5	1.9	1.3	2.4	3.9	3.4	1.1	1.3	1.2	2.2	2.0	2.0	1.3	26.6
2.1 - 3.0	0.3	0.0	0.0	0.1	0.3	0.8	0.3	0.9	0.9	0.4	0.9	1.9	3.8	4.3	1.9	0.8	17.6
3.1 - 4.0	0.0	0.0	0.0	0.0	0.1	0.9	0.5	0.1	0.8	0.1	0.3	1.6	1.9	4.7	1.6	0.1	12.9
4.1 - 5.0	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.3	0.1	0.3	1.6	2.8	1.5	0.0	7.1
5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.7	0.1	0.1	1.1	4.7	1.5	0.0	8.6
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.4	0.0	0.7	2.6	0.4	0.0	4.7
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.3	0.1	0.0	0.0	2.3	0.7	0.0	3.8
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.1	0.0	0.0	0.3	2.0	0.1	0.0	3.0
9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	0.3	0.0	1.3
10.1 - 11.0	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	0.3
11.1 - 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	0.0	0.1	0.0	0.0	0.1
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.3	1.2	1.5	1.1	3.4	4.8	5.9	6.2	7.4	4.3	3.8	5.4	12.2	26.7	10.6	3.2	100.0
Average Speed	1.3	1.6	1.0	1.7	1.7	2.4	2.7	1.5	1.7	4.0	2.9	2.7	3.3	4.9	3.9	1.6	3.2

Table 20. Quarterly Wind Rose Summary, Drummond

First Quarter 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.6	0.6	0.9	0.9	1.2	1.6	3.3	3.0	4.0	2.3	0.9	0.6	0.9	0.3	0.5	0.5	21.9
	1.1 - 2.0	1.2	0.8	0.6	0.6	0.9	1.7	2.9	4.6	4.8	1.6	1.1	0.9	1.4	1.9	1.6	1.3	27.9
	2.1 - 3.0	0.3	0.1	0.0	0.0	0.4	0.7	0.9	0.9	0.6	0.4	0.6	0.9	2.5	3.0	1.0	0.7	13.2
	3.1 - 4.0	0.0	0.0	0.1	0.0	0.2	0.9	0.6	0.0	0.5	0.1	0.3	0.8	2.1	3.4	1.1	0.1	10.4
	4.1 - 5.0	0.0	0.0	0.1	0.0	0.2	0.6	0.2	0.0	0.1	0.1	0.0	0.4	1.8	2.8	0.9	0.0	7.4
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.2	1.2	0.1	0.0	0.1	0.3	0.0	0.2	0.8	3.4	0.7	0.0	7.4
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.2	0.1	0.0	0.6	2.3	0.2	0.0	4.2
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.2	0.0	0.1	0.1	2.0	0.4	0.0	3.3
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.1	1.7	0.2	0.0	2.4
	9.1 - 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	0.0	0.7	0.2	0.0	1.0
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.6
	11.1 - 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	0.0	0.2	0.0	0.0	0.3
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	2.0	1.6	1.7	1.7	3.2	7.9	8.5	8.6	10.2	5.4	3.3	4.0	10.4	22.1	6.7	2.8	100.0
	Average Speed	1.3	1.4	1.4	1.3	2.0	3.3	1.9	1.3	1.4	2.4	2.5	2.8	3.4	5.1	3.7	1.8	2.9

Figure 2. Monthly Wind Rose, Drummond Site

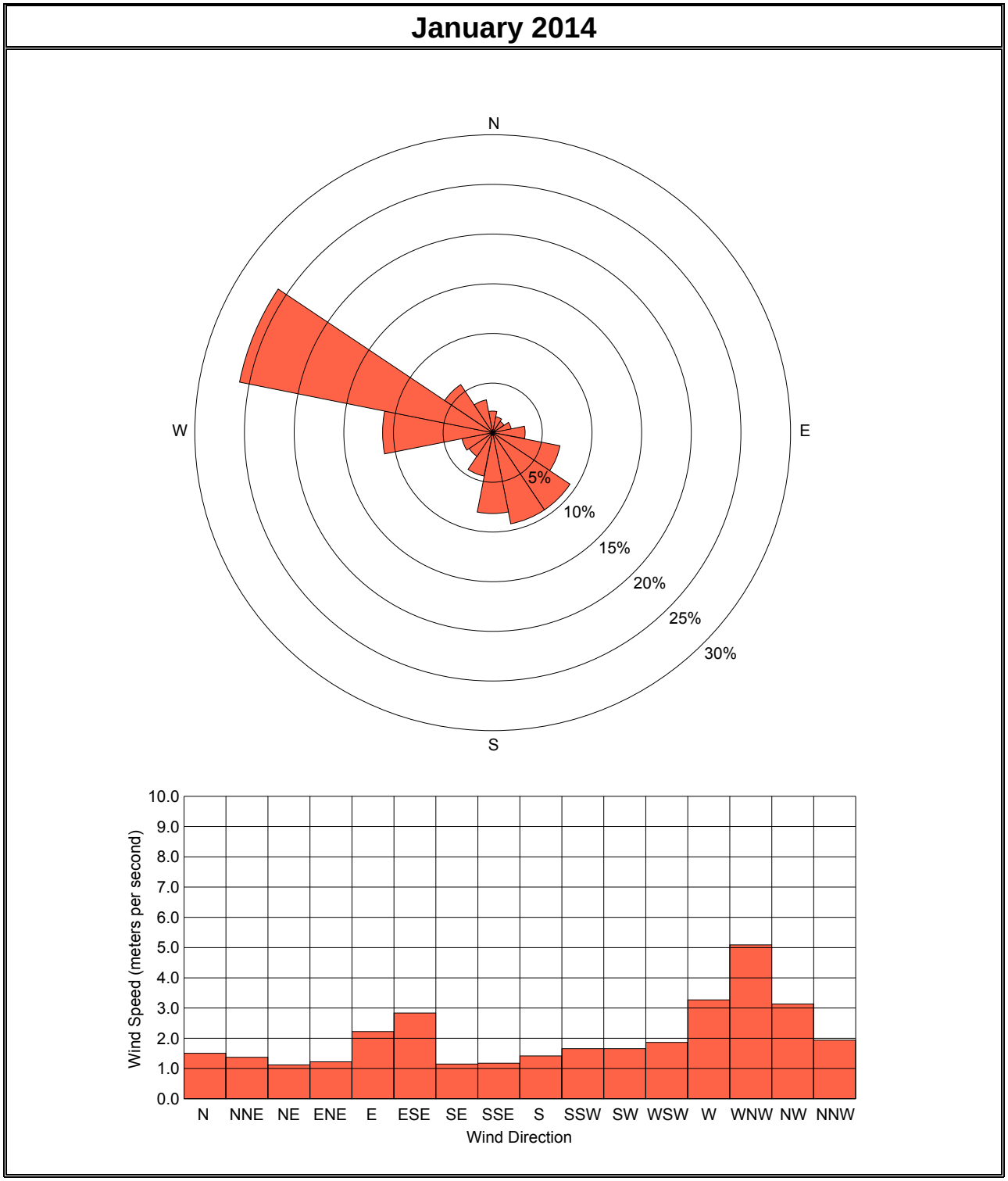


Figure 3. Monthly Wind Rose, Drummond Site

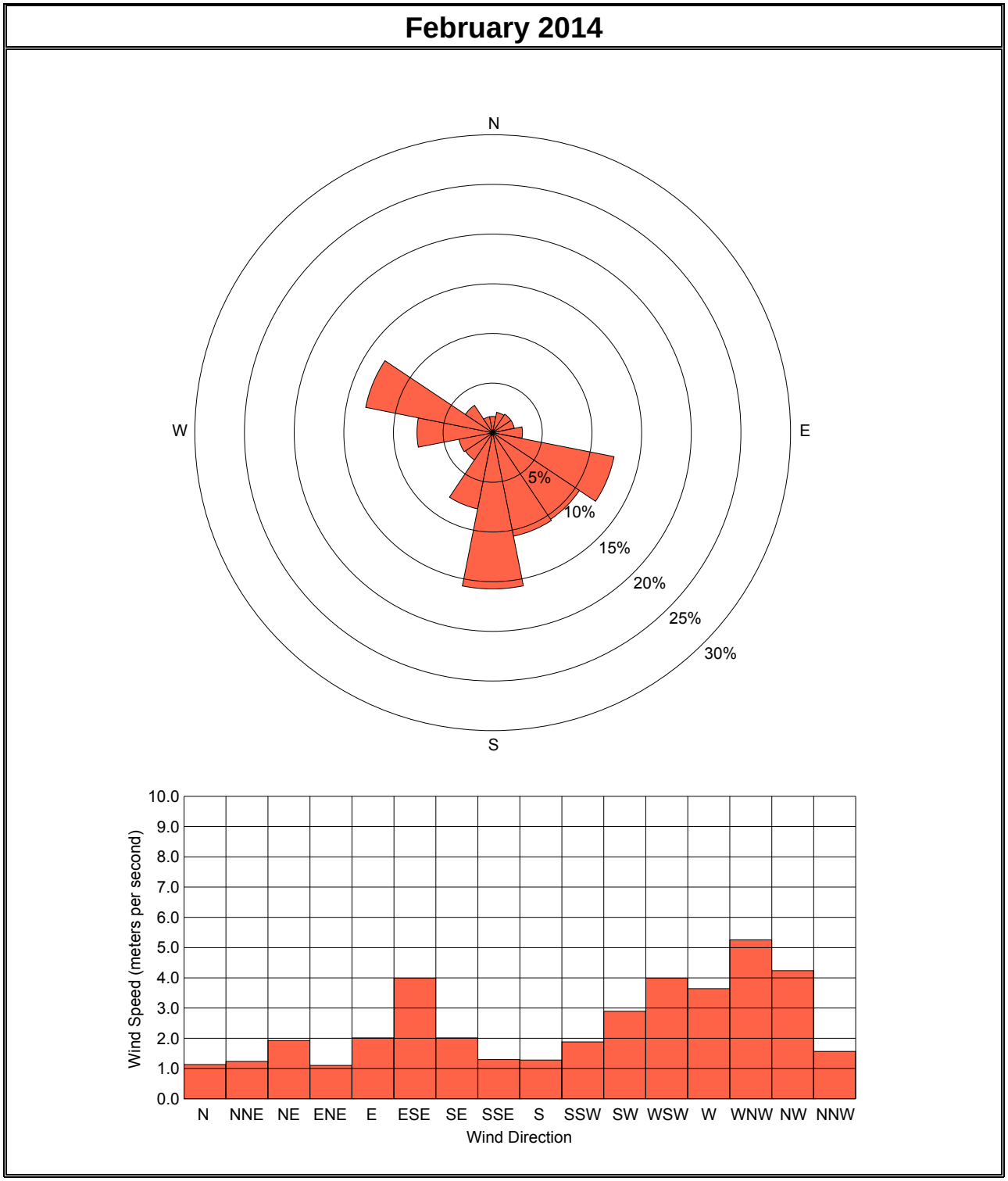


Figure 4. Monthly Wind Rose, Drummond Site

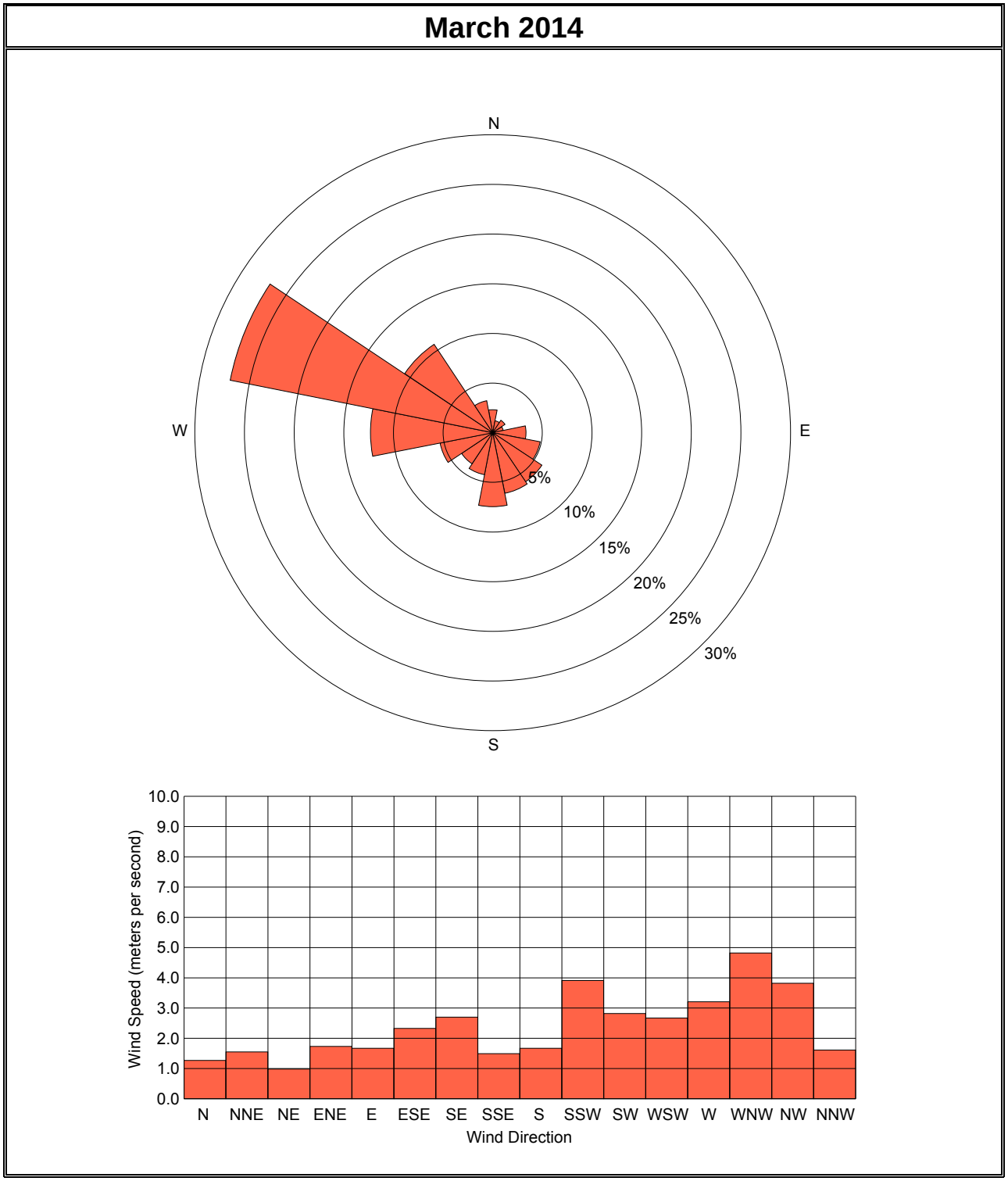
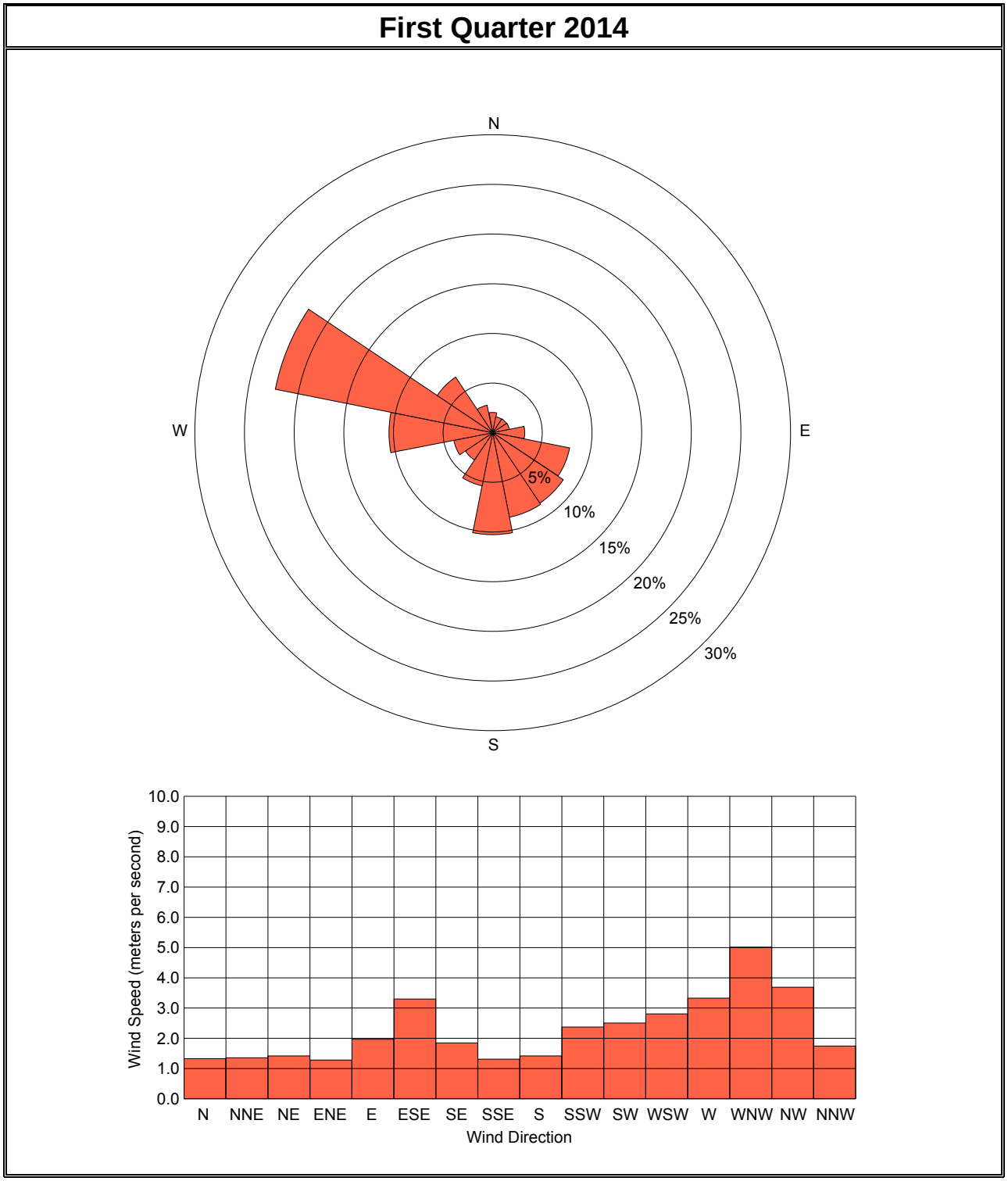


Figure 5. Quarterly Wind Rose, Drummond Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, FIRST QUARTER 2014

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	7.6	7.4	7.3	3.5	2.7	1.9	3.5	3.9	3.4	4.4	4.0	4.0	3.7	3.9	5.3	4.7	4.5	4.9	4.3	1.8	1.3	1.4	2.9	1.6	3.9	7.6	1.3
2	1.5	1.2	1.1	0.8	0.8	1.0	1.1	1.0	1.2	0.9	0.8	0.9	1.0	0.9	1.2	1.3	2.2	3.9	3.1	2.7	3.4	2.8	5.1	1.3	1.7	5.1	0.8
3	1.1	1.5	2.3	4.0	7.1	4.7	5.0	9.2	8.6	6.4	7.1	7.1	8.8	10.6	9.3	7.8	4.8	2.2	3.3	4.2	3.8	4.7	6.3	4.6	5.6	10.6	1.1
4	1.8	2.1	3.7	3.2	3.3	3.2	2.6	3.8	4.0	4.4	6.6	7.3	7.9	6.8	7.1	5.4	4.7	6.4	6.2	4.8	1.5	3.0	2.5	2.6	4.4	7.9	1.5
5	3.0	6.0	10.8	8.1	5.7	5.6	5.4	7.1	5.8	3.8	3.8	2.4	1.7	1.2	1.5	1.7	1.4	0.5	0.5	0.5	0.8	0.7	0.8	1.0	3.3	10.8	0.5
6	1.1	0.6	0.9	1.0	0.6	1.0	0.6	0.5	0.4	0.6	0.9	1.1	1.2	1.4	1.6	1.8	0.9	1.3	1.1	0.5	0.5	0.4	0.7	0.5	0.9	1.8	0.4
7	1.4	1.0	0.7	0.9	0.4	0.9	0.8	1.0	1.1	0.6	0.8	0.8	1.4	0.9	1.2	0.9	1.1	0.9	1.3	1.2	1.4	1.2	0.9	0.5	1.0	1.4	0.4
8	0.7	0.7	1.0	0.6	0.6	0.6	0.9	0.6	0.7	0.7	1.5	1.7	1.0	1.1	0.9	1.2	1.1	2.1	1.1	0.9	1.3	0.9	1.4	0.9	1.0	2.1	0.6
9	1.3	3.0	3.7	0.9	1.5	1.4	1.1	1.5	2.7	5.3	4.4	5.1	4.6	5.6	6.6	5.5	3.3	3.1	2.1	4.1	3.0	2.0	1.8	2.0	3.2	6.6	0.9
10	3.2	1.5	1.5	1.1	1.2	1.7	1.9	3.6	3.6	3.5	3.8	4.1	4.4	5.4	6.6	7.5	7.2	4.5	4.7	5.2	5.2	3.0	3.2	3.0	3.8	7.5	1.1
11	2.6	1.4	1.0	1.4	2.1	2.6	2.3	3.9	8.9	7.3	5.7	4.4	3.2	3.1	11.5	11.8	3.9	2.1	2.6	4.1	2.3	2.1	3.1	1.4	3.9	11.8	1.0
12	3.5	3.1	1.9	3.4	3.0	1.7	2.7	3.6	4.3	3.9	6.2	8.0	6.8	4.8	5.1	7.1	5.9	3.9	1.5	1.8	2.2	2.1	1.3	1.8	3.7	8.0	1.3
13	2.2	4.4	9.1	10.4	12.3	11.5	9.5	7.4	5.1	4.4	6.4	5.6	4.6	8.2	10.4	10.6	9.2	9.0	8.4	9.2	8.9	10.6	10.7	11.5	8.3	12.3	2.2
14	9.3	9.0	6.7	4.2	4.3	4.8	5.5	5.9	5.7	5.4	4.6	5.1	6.2	6.4	5.3	4.6	3.7	2.4	2.6	3.5	3.6	3.6	2.4	3.3	4.9	9.3	2.4
15	3.7	3.0	4.1	2.4	1.7	1.5	2.0	3.1	1.5	3.0	1.6	2.2	6.5	8.7	7.1	6.7	7.5	6.2	5.5	2.8	4.5	2.5	2.3	3.9	3.9	8.7	1.5
16	4.1	3.3	3.0	2.2	2.7	2.2	1.5	1.4	1.4	1.5	2.9	2.9	5.4	8.6	8.7	7.7	7.6	5.1	3.4	1.8	1.1	1.8	2.1	1.8	3.5	8.7	1.1
17	2.0	1.8	0.9	1.2	1.1	1.5	2.4	3.4	2.7	2.6	2.2	4.4	6.2	8.6	10.2	10.1	9.0	7.5	4.7	3.9	4.5	4.4	4.3	2.3	4.2	10.2	0.9
18	1.6	0.9	0.9	1.4	1.1	0.7	1.0	0.8	0.6	0.8	1.1	0.9	1.2	1.3	1.1	1.2	1.1	0.7	0.5	0.6	0.6	1.0	1.3	0.8	1.0	1.6	0.5
19	0.9	1.5	1.0	1.3	1.4	1.8	1.4	0.7	0.7	1.0	0.8	1.0	0.7	2.7	3.1	2.7	5.9	6.4	5.9	7.1	7.5	5.4	4.7	4.5	2.9	7.5	0.7
20	3.7	3.9	2.6	1.3	1.2	0.9	0.6	1.2	0.8	1.2	1.6	1.6	1.3	1.6	1.5	1.5	1.3	0.7	1.2	1.3	0.7	1.1	0.7	1.3	1.5	3.9	0.6
21	1.1	1.2	1.2	0.7	1.0	1.6	1.3	1.3	0.8	1.2	1.1	1.6	1.3	1.1	1.0	1.2	1.3	1.8	1.2	1.2	1.4	0.9	0.8	1.1	1.2	1.8	0.7
22	0.6	0.6	0.6	1.1	1.4	1.2	1.9	1.2	0.8	0.8	0.9	0.8	1.1	0.9	1.0	0.7	1.2	1.2	2.2	1.5	2.3	1.6	0.8	0.4	1.1	2.3	0.4
23	1.0	0.6	0.8	0.9	0.8	1.0	1.1	1.7	2.1	2.1	2.2	1.8	1.8	1.3	1.1	1.9	1.6	2.0	0.9	1.1	0.9	1.2	0.9	1.8	1.4	2.2	0.6
24	1.5	0.9	1.5	2.1	0.7	1.7	0.9	1.0	1.1	1.3	1.1	1.9	1.7	1.2	0.9	1.1	1.9	2.4	2.5	2.8	4.0	4.7	5.3	3.3	2.0	5.3	0.7
25	1.5	1.2	1.3	0.9	1.1	1.2	0.6	0.7	1.0	1.1	1.2	1.3	1.2	1.2	4.0	4.3	3.3	3.3	1.7	1.5	1.4	2.2	2.1	1.1	1.7	4.3	0.6
26	1.0	2.5	3.3	2.2	2.8	2.9	2.1	5.4	6.4	4.1	4.6	1.1	1.1	6.4	5.6	7.9	5.6	6.0	5.2	4.2	4.3	3.2	1.5	1.4	3.8	7.9	1.0
27	1.4	1.2	1.2	0.5	0.4	0.5	0.8	0.9	0.7	1.3	1.4	0.9	1.3	2.0	1.2	1.4	1.0	3.1	2.7	2.6	1.6	1.1	0.7	0.7	1.3	3.1	0.4
28	2.1	1.5	1.1	0.8	0.7	0.8	1.2	1.1	1.2	1.9	1.9	1.6	1.3	1.6	1.2	1.1	2.6	4.9	6.1	4.8	4.7	4.9	3.2	3.3	2.3	6.1	0.7
29	3.6	5.1	4.0	3.9	3.6	2.0	1.5	0.9	0.8	0.5	0.5	1.0	1.7	2.5	4.7	1.4	1.1	1.9	2.6	2.4	1.8	2.0	4.0	0.6	2.3	5.1	0.5
30	0.7	1.4	5.8	6.0	5.4	4.8	5.2	5.2	4.9	4.7	3.8	3.5	2.6	2.1	1.5	1.2	0.7	0.8	0.8	0.7	1.1	1.1	0.7	1.5	2.8	6.0	0.7
31	0.9	0.5	0.4	0.6	1.0	0.7	0.7	0.5	0.6	0.6	0.5	0.6	1.1	1.3	0.9	1.0	0.7	1.2	0.6	0.7	1.8	2.0	1.9	6.2	1.1	6.2	0.4
Avg	2.3	2.4	2.8	2.4	2.4	2.2	2.2	2.7	2.7	2.6	2.8	2.8	3.0	3.7	4.1	4.0	3.5	3.3	2.9	2.8	2.7	2.6	2.6	2.3	2.8	6.2	0.9
Max	9.3	9.0	10.8	10.4	12.3	11.5	9.5	9.2	8.9	7.3	7.1	8.0	8.8	10.6	11.5	11.8	9.2	9.0	8.4	9.2	8.9	10.6	10.7	11.5	8.3	12.3	2.4
Min	0.6	0.5	0.4	0.5	0.4	0.5	0.6	0.5	0.4	0.5	0.5	0.6	0.7	0.9	0.9	0.7	0.7	0.5	0.5	0.5	0.5	0.4	0.7	0.4	0.9	1.4	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.8	4.1	3.2	2.9	2.7	2.8	0.9	0.7	0.6	1.0	1.4	1.1	1.2	1.2	1.3	0.7	1.0	0.7	0.5	0.6	0.9	1.1	1.2	1.5	1.6	5.8	0.5
2	0.9	0.8	1.5	0.7	1.0	0.7	0.7	0.8	1.0	0.7	0.7	0.8	0.7	0.9	0.5	0.6	1.3	0.7	0.8	0.9	0.7	1.3	0.7	0.7	0.8	1.5	0.5
3	1.3	0.8	0.6	1.3	1.4	3.9	5.0	5.2	2.9	4.2	3.3	3.0	2.7	2.9	3.7	5.0	4.5	3.0	3.6	3.9	4.4	4.4	3.4	1.6	3.2	5.2	0.6
4	1.3	1.1	1.4	2.4	1.7	2.1	4.7	6.1	6.7	6.3	4.7	4.2	5.8	3.4	3.7	3.7	3.3	2.0	5.1	2.6	2.4	2.5	2.5	3.0	3.4	6.7	1.1
5	1.9	1.8	2.2	1.2	1.6	2.1	2.3	3.2	3.7	2.9	2.8	6.0	5.9	5.2	4.9	4.9	3.9	3.2	1.8	2.4	1.4	1.6	1.1	1.4	2.9	6.0	1.1
6	1.0	1.0	0.6	0.6	0.5	0.7	0.5	0.6	0.4	0.9	1.2	1.2	1.2	1.3	1.0	1.2	1.2	0.8	1.3	0.6	1.0	0.7	0.5	0.5	0.9	1.3	0.4
7	0.6	0.7	0.6	0.5	0.8	1.0	1.1	1.0	0.7	0.6	0.9	0.8	1.9	1.2	1.3	1.5	1.5	0.9	1.7	1.0	0.6	0.8	1.2	0.9	1.0	1.9	0.5
8	1.5	0.9	0.8	0.4	0.8	1.1	0.7	1.5	3.3	5.2	4.5	3.6	3.9	3.2	2.2	2.2	2.6	1.4	0.8	1.8	1.2	2.2	2.4	1.8	2.1	5.2	0.4
9	2.4	1.4	1.0	1.7	1.7	0.6	1.7	1.7	0.8	1.0	1.3	1.2	1.2	1.0	1.6	1.4	1.2	1.3	0.6	0.7	0.6	0.5	0.4	0.6	1.2	2.4	0.4
10	0.9	0.8	0.7	0.5	0.5	0.6	0.5	0.5	0.7	1.1	1.1	1.2	1.7	1.2	0.9	1.0	1.1	0.8	1.2	1.0	1.3	1.1	1.4	2.0	1.0	2.0	0.5
11	2.8	3.1	1.6	2.0	2.5	2.0	2.1	1.2	1.5	3.7	9.2	8.3	7.0	8.0	8.1	8.5	8.5	8.6	3.8	3.7	4.5	1.4	1.0	0.9	4.3	9.2	0.9
12	1.0	1.0	1.1	1.0	1.2	2.2	1.3	1.9	2.1	1.7	1.4	1.0	2.4	4.2	6.1	6.9	5.9	4.3	4.7	2.9	1.6	1.7	1.7	1.3	2.5	6.9	1.0
13	1.3	1.1	1.4	1.0	1.4	2.1	1.4	1.7	4.4	5.1	7.4	7.6	8.7	7.6	7.0	6.1	6.9	8.2	5.4	3.4	4.2	7.2	4.4	3.2	4.5	8.7	1.0
14	2.9	0.7	1.8	1.2	1.0	1.1	1.0	0.7	0.9	1.1	1.2	1.0	1.0	1.2	1.8	3.0	2.5	4.4	5.5	3.5	4.1	3.4	5.7	3.8	2.3	5.7	0.7
15	3.5	3.4	3.2	3.1	2.1	2.4	1.0	1.9	1.2	1.7	2.1	1.8	1.4	1.0	0.9	1.1	0.8	1.3	1.1	1.1	0.8	1.4	1.2	2.0	1.7	3.5	0.8
16	1.6	1.1	2.5	7.9	9.8	9.3	9.8	4.6	4.4	3.9	2.7	5.1	5.0	7.7	5.8	5.9	5.3	5.6	6.5	3.3	2.6	2.0	3.8	6.7	5.1	9.8	1.1
17	6.9	5.3	2.7	2.5	2.2	5.8	3.0	6.6	7.5	9.0	12.8	12.2	11.4	10.9	7.6	5.8	4.5	4.3	4.0	1.7	4.0	4.6	5.8	4.8	6.1	12.8	1.7
18	4.1	4.8	2.0	6.3	8.1	5.0	3.4	2.2	1.6	1.3	2.2	1.3	1.8	1.8	1.4	1.2	1.9	2.2	4.9	8.9	4.2	3.3	3.8	5.2	3.5	8.9	1.2
19	7.1	5.4	5.5	6.7	6.0	4.1	4.1	2.6	2.0	4.0	5.4	4.9	6.0	7.4	5.9	8.3	7.9	7.0	7.7	6.6	5.2	4.3	4.5	6.1	5.6	8.3	2.0
20	6.5	4.1	4.9	3.6	2.0	3.6	2.3	1.2	1.0	3.7	2.9	1.4	2.0	2.0	2.1	2.2	2.6	3.5	6.7	7.0	6.5	4.7	5.2	5.4	3.6	7.0	1.0
21	5.2	4.2	2.8	1.1	1.1	1.1	5.4	7.4	5.5	4.2	4.7	5.7	3.4	5.4	8.1	6.8	5.4	6.3	5.8	8.5	8.2	4.4	3.4	1.2	4.8	8.5	1.1
22	1.6	2.3	2.2	0.9	1.0	0.7	0.7	0.7	0.6	1.0	0.8	0.8	1.0	1.1	1.1	1.0	0.8	1.3	0.5	0.4	1.6	0.7	0.5	0.7	1.0	2.3	0.4
23	1.0	1.0	0.8	1.4	0.8	1.3	1.8	1.9	2.9	3.3	3.4	3.1	2.7	2.0	2.2	1.7	0.6	0.6	0.9	1.1	1.6	2.4	2.0	2.7	1.8	3.4	0.6
24	2.4	2.6	2.6	0.8	1.0	1.2	2.9	3.3	3.1	2.6	2.9	1.9	1.8	1.6	1.3	1.1	1.5	0.6	0.5	0.6	0.4	0.7	0.7	0.4	1.6	3.3	0.4
25	0.5	0.7	0.8	0.9	1.1	3.1	5.3	5.4	4.7	4.8	5.4	3.6	1.8	1.3	0.8	1.0	0.8	0.8	0.7	0.6	1.2	1.0	0.5	0.7	2.0	5.4	0.5
26	0.9	1.6	1.4	0.8	0.9	1.3	0.5	0.8	0.6	1.0	1.3	0.6	1.4	1.9	1.6	1.6	0.8	1.1	0.9	0.5	0.6	0.6	0.6	0.9	1.0	1.9	0.5
27	0.7	0.9	0.7	0.5	0.6	0.7	1.0	0.7	1.2	0.9	1.6	1.0	0.9	0.7	0.7	1.1	0.5	0.5	0.8	0.6	0.4	0.4	1.0	4.4	0.9	4.4	0.4
28	7.8	6.5	5.7	5.8	5.6	7.0	7.2	7.6	6.8	6.4	6.7	6.6	6.1	5.2	5.3	5.8	5.2	5.2	4.5	5.3	6.8	6.7	7.6	8.5	6.3	8.5	4.5
Avg	2.7	2.3	2.0	2.1	2.2	2.5	2.6	2.6	2.6	3.0	3.4	3.3	3.3	3.3	3.2	3.3	3.0	2.9	2.9	2.7	2.6	2.4	2.4	2.6	2.7	5.6	0.9
Max	7.8	6.5	5.7	7.9	9.8	9.3	9.8	7.6	7.5	9.0	12.8	12.2	11.4	10.9	8.1	8.5	8.5	8.6	7.7	8.9	8.2	7.2	7.6	8.5	6.3	12.8	4.5
Min	0.5	0.7	0.6	0.4	0.5	0.6	0.5	0.5	0.4	0.6	0.7	0.6	0.7	0.7	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.8	1.3	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	7.9	8.3	8.7	8.8	6.4	6.5	8.0	6.4	7.2	6.9	5.1	1.7	2.8	3.8	5.4	4.1	3.6	1.9	2.9	3.7	3.0	1.7	2.1	1.2	4.9	8.8	1.2
2	1.5	1.8	1.2	1.1	0.8	1.2	0.5	1.1	1.4	1.0	1.3	1.3	1.4	1.7	1.8	1.9	1.8	1.1	0.6	0.8	0.8	0.8	0.9	1.0	1.2	1.9	0.5
3	1.0	1.4	1.1	1.5	1.3	1.1	0.8	1.4	1.3	1.0	0.8	1.3	1.2	1.8	6.0	1.3	1.0	1.1	3.1	3.0	1.0	1.1	1.3	1.0	1.5	6.0	0.8
4	1.0	2.3	2.9	2.5	2.7	3.0	2.9	2.2	1.9	1.5	0.9	0.8	0.9	3.6	4.9	4.4	4.5	2.0	2.7	6.3	2.7	1.2	1.5	1.1	2.5	6.3	0.8
5	1.8	1.9	0.8	2.4	1.4	2.1	2.3	1.5	1.4	1.5	1.6	1.0	4.7	1.9	1.9	2.0	4.7	5.8	8.8	10.1	6.7	2.7	2.2	0.9	3.0	10.1	0.8
6	1.6	2.8	3.5	1.4	2.9	9.1	6.3	3.0	1.9	2.0	2.7	3.6	4.9	5.8	4.6	2.5	3.9	2.4	2.6	1.6	1.8	3.0	2.8	3.7	3.3	9.1	1.4
7	4.5	2.3	2.2	2.2	2.2	1.8	3.0	2.2	1.7	2.0	3.2	5.5	7.1	7.4	8.9	8.8	6.4	4.6	2.7	3.2	4.3	4.5	3.4	2.4	4.0	8.9	1.7
8	2.9	2.2	1.6	1.0	1.1	1.0	1.5	1.0	1.0	2.1	1.8	1.8	1.7	0.8	2.1	0.9	0.9	0.9	1.0	1.1	0.9	1.5	0.9	1.8	1.4	2.9	0.8
9	2.6	2.7	3.3	1.1	1.2	6.0	7.6	4.4	4.9	6.4	10.4	6.7	7.8	9.9	7.8	5.8	1.7	1.8	2.3	7.5	3.5	1.6	0.9	1.5	4.6	10.4	0.9
10	0.8	2.4	4.2	3.5	1.3	0.8	0.6	0.3	0.5	0.8	0.8	0.8	2.2	5.7	6.2	5.6	6.1	3.4	3.3	6.0	8.5	8.0	9.7	8.7	3.8	9.7	0.3
11	8.2	8.4	7.0	7.1	6.4	4.2	1.3	2.4	1.5	1.1	1.6	3.7	5.4	5.1	5.4	5.8	5.9	3.3	4.0	3.2	4.0	3.9	2.6	2.0	4.3	8.4	1.1
12	3.7	3.3	3.8	1.4	1.1	0.7	1.4	2.1	2.0	1.1	1.4	1.8	3.2	3.3	2.7	2.5	2.1	2.2	3.2	1.5	0.9	0.9	1.1	0.7	2.0	3.8	0.7
13	0.9	0.6	0.8	1.4	0.8	0.7	0.7	1.7	1.2	1.0	2.0	3.4	10.0	8.0	7.0	6.4	5.2	3.9	3.7	4.8	2.8	2.2	1.2	1.2	3.0	10.0	0.6
14	1.9	1.2	1.0	1.4	1.0	1.0	2.1	1.4	1.0	0.9	1.4	2.2	1.0	3.2	3.0	5.3	2.2	2.2	7.0	7.8	7.1	5.9	5.7	5.9	3.0	7.8	0.9
15	6.7	9.3	8.6	5.1	3.7	4.3	3.4	2.7	2.9	3.3	4.0	5.5	5.8	7.3	5.7	8.0	7.1	2.4	1.9	1.8	1.0	1.9	2.6	1.4	4.4	9.3	1.0
16	1.6	1.4	1.6	3.3	1.8	1.2	3.6	3.2	2.1	1.7	3.9	3.1	4.8	4.2	6.6	5.6	5.1	2.2	2.9	2.1	2.1	1.0	0.6	1.2	2.8	6.6	0.6
17	1.1	1.6	0.7	4.0	2.9	1.4	2.7	3.5	9.1	9.8	11.9	7.6	8.4	8.9	7.3	9.6	8.5	6.6	5.8	5.6	6.2	5.8	5.2	5.4	5.8	11.9	0.7
18	2.4	3.2	6.3	7.2	6.3	2.9	2.4	3.1	3.7	4.2	5.7	5.5	6.8	6.7	7.4	7.5	7.0	5.2	4.2	3.9	3.1	2.8	3.4	2.6	4.7	7.5	2.4
19	3.7	2.1	1.0	1.2	2.2	1.9	1.9	1.4	1.4	1.1	1.1	1.0	2.0	5.9	5.5	5.3	5.4	5.5	2.0	3.5	5.6	7.4	7.9	5.7	3.4	7.9	1.0
20	3.5	1.1	1.4	3.7	8.1	9.6	6.1	4.9	4.0	5.2	7.0	9.8	8.1	8.3	8.3	7.3	6.4	3.1	5.3	2.8	2.3	1.6	1.7	1.5	5.0	9.8	1.1
21	0.8	0.8	0.8	0.8	0.9	0.9	0.7	1.9	2.9	3.5	2.8	1.8	2.1	2.8	2.5	2.9	2.8	2.2	3.3	2.5	3.3	3.2	2.0	1.6	2.1	3.5	0.7
22	2.6	3.6	3.3	3.5	3.4	3.5	1.9	2.1	2.1	1.5	1.6	1.1	1.3	1.4	1.3	1.6	1.4	2.0	2.4	1.4	0.7	0.4	1.1	0.9	1.9	3.6	0.4
23	0.8	1.2	2.3	0.9	5.6	5.2	3.8	3.9	3.6	4.8	6.4	8.2	8.6	6.5	6.2	5.8	6.3	5.9	4.1	2.9	4.9	3.6	3.7	1.5	4.4	8.6	0.8
24	0.8	1.2	1.4	0.7	0.7	0.9	0.9	1.0	1.6	1.5	1.1	1.6	2.4	2.6	3.1	5.1	4.2	2.0	2.0	1.9	1.4	3.3	3.7	2.4	2.0	5.1	0.7
25	1.1	1.4	1.2	1.1	1.3	0.7	0.9	1.0	1.2	0.8	1.2	1.4	1.2	1.1	1.2	1.2	1.1	5.0	8.3	4.8	3.2	5.5	5.6	6.4	2.4	8.3	0.7
26	5.6	4.8	7.9	7.6	4.2	0.8	0.8	0.9	1.9	4.1	5.0	4.4	4.5	4.7	4.8	5.4	5.9	5.2	4.2	2.5	2.2	2.2	1.3	1.0	3.8	7.9	0.8
27	0.9	1.8	2.1	0.9	0.8	1.3	2.0	0.9	0.6	1.5	3.6	5.9	5.4	5.2	5.4	5.9	3.1	5.8	4.6	2.4	4.2	2.7	2.6	2.6	3.0	5.9	0.6
28	2.3	2.9	3.5	1.0	2.4	2.7	2.8	1.8	1.4	1.2	1.4	2.9	2.6	3.2	3.4	1.7	2.4	2.3	2.2	2.8	6.0	5.3	5.2	3.6	2.8	6.0	1.0
29	2.8	3.3	4.6	3.3	4.6	4.9	4.5	1.9	1.3	1.4	2.5	6.4	3.6	3.2	4.4	3.4	3.6	1.7	2.7	3.0	2.2	2.4	1.3	1.2	3.1	6.4	1.2
30	1.8	1.4	2.8	3.1	3.4	3.6	3.3	2.1	2.3	4.3	4.7	4.8	4.0	4.7	3.6	3.1	3.5	8.5	7.2	4.7	4.2	4.5	4.3	3.8	3.9	8.5	1.4
31	1.6	1.5	1.5	0.7	0.8	1.0	0.8	0.8	1.7	1.9	2.1	2.0	2.3	2.6	1.9	2.4	1.2	1.6	3.7	2.9	2.2	0.7	1.3	1.1	1.7	3.7	0.7
Avg	2.6	2.7	3.0	2.7	2.7	2.8	2.6	2.2	2.3	2.6	3.3	3.5	4.1	4.6	4.7	4.5	4.0	3.3	3.7	3.6	3.3	3.0	2.9	2.5	3.2	7.2	0.9
Max	8.2	9.3	8.7	8.8	8.1	9.6	8.0	6.4	9.1	9.8	11.9	9.8	10.0	9.9	8.9	9.6	8.5	8.5	8.8	10.1	8.5	8.0	9.7	8.7	5.8	11.9	2.4
Min	0.8	0.6	0.7	0.7	0.7	0.7	0.5	0.3	0.5	0.8	0.8	0.8	0.9	0.8	1.2	0.9	0.9	0.9	0.6	0.8	0.7	0.4	0.6	0.7	1.2	1.9	0.3

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
January 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	288	291	296	286	280	285	293	289	281	286	280	281	271	276	287	293	293	299	292	269	274	298	276	326	287
2	303	292	110	162	139	160	169	210	226	260	88	89	69	136	107	4	274	272	277	255	275	232	201	329	215
3	37	251	276	282	286	285	287	286	300	294	274	283	287	294	310	308	287	287	300	291	304	299	293	315	293
4	234	317	285	280	274	261	295	317	305	299	291	293	291	292	292	271	271	274	286	297	327	264	285	292	287
5	295	340	116	116	116	113	110	119	114	110	106	97	160	105	134	188	184	147	91	53	92	232	181	159	125
6	187	260	265	181	225	173	198	122	73	146	136	130	129	141	150	168	204	190	194	118	197	206	219	192	175
7	167	209	156	184	149	168	195	210	195	268	143	120	157	71	138	149	187	273	171	164	191	202	192	181	176
8	150	136	144	185	171	237	173	163	158	93	157	138	143	106	59	118	248	237	354	46	149	153	111	63	142
9	15	52	188	276	19	249	343	293	315	282	263	282	271	270	268	263	261	258	273	289	280	282	277	225	281
10	219	162	1	340	300	287	278	301	300	312	318	311	288	286	287	288	284	269	268	281	285	267	281	286	289
11	288	308	325	323	295	298	12	174	199	198	203	188	185	188	264	292	218	178	220	249	285	198	283	259	247
12	290	264	305	330	16	342	290	302	284	273	290	292	284	288	285	291	290	306	257	293	11	358	6	249	301
13	241	277	291	300	293	290	295	289	287	266	288	294	296	291	290	294	293	288	297	298	293	289	292	297	289
14	296	300	292	281	257	269	283	288	286	284	276	276	288	297	294	292	288	298	271	301	301	304	282	262	286
15	275	269	255	303	327	311	301	291	351	274	23	203	292	286	284	279	292	292	301	279	289	313	310	308	294
16	300	291	293	286	260	270	287	286	296	332	306	323	286	291	288	290	290	292	299	232	3	333	3	349	300
17	1	331	37	329	136	299	297	292	295	273	289	290	284	291	295	295	294	291	284	286	272	280	280	268	295
18	150	117	307	184	135	105	168	133	132	122	130	85	115	123	150	190	200	171	263	141	188	153	187	272	154
19	192	187	137	151	255	178	294	117	123	155	120	118	27	256	278	262	294	309	294	298	304	286	325	311	249
20	323	305	278	310	93	130	339	151	159	166	143	137	128	76	105	168	163	233	305	293	93	336	127	143	145
21	215	174	170	299	175	167	174	205	332	140	121	144	119	93	99	145	224	299	280	157	147	165	190	189	171
22	17	126	208	115	178	267	165	248	145	142	195	27	141	121	131	126	217	337	341	356	177	231	284	142	166
23	115	116	194	241	321	24	161	149	162	146	138	163	146	133	107	179	158	181	128	71	39	359	219	320	143
24	341	63	148	183	196	172	144	159	162	166	164	139	181	107	97	181	330	286	282	282	273	289	289	295	195
25	269	57	152	167	188	169	65	96	170	175	127	97	108	164	295	284	288	301	319	297	3	335	338	4	198
26	68	278	275	298	283	273	341	309	301	334	81	171	51	106	93	109	102	99	97	96	91	82	54	166	64
27	171	155	154	166	195	184	139	193	160	147	143	117	140	146	145	161	159	280	330	308	222	177	183	133	166
28	141	200	189	124	152	144	156	192	200	181	156	160	120	128	135	166	334	294	297	295	288	300	284	285	190
29	295	291	288	288	282	238	158	196	225	120	197	300	311	289	292	32	262	304	316	276	318	257	221	131	270
30	37	24	78	95	107	116	117	120	115	117	124	117	135	144	167	173	218	253	249	128	124	140	171	161	131
31	164	257	61	140	191	125	179	100	94	244	149	146	139	158	128	23	42	10	72	142	313	172	191	118	135
Prev	266	268	236	246	222	224	229	215	219	212	168	160	175	173	211	235	256	275	287	282	285	263	256	258	245

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
February 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	116	107	92	88	95	109	145	254	269	53	106	128	169	179	184	162	178	133	213	154	169	195	172	182	150
2	201	181	187	220	172	186	173	178	174	190	160	155	137	141	154	281	177	242	180	200	154	148	309	19	180
3	178	150	192	170	96	120	119	117	119	124	121	123	96	96	54	49	52	104	131	126	118	123	132	114	118
4	114	105	47	30	40	131	119	120	122	114	112	113	111	97	105	48	76	120	129	97	117	132	148	144	106
5	171	145	168	118	139	118	127	121	134	127	100	109	113	100	110	127	115	110	118	131	144	140	32	38	121
6	62	110	87	36	214	157	61	74	58	181	161	152	152	167	142	160	196	169	178	166	166	157	151	266	146
7	178	180	171	337	190	169	194	167	228	153	151	125	147	126	138	164	172	199	172	174	125	169	135	175	166
8	174	178	175	213	170	179	186	196	169	124	129	127	117	122	104	104	107	132	120	143	150	156	153	108	147
9	134	152	122	210	171	9	284	348	128	168	188	185	193	135	161	171	175	203	219	192	189	183	199	68	174
10	101	200	193	182	143	241	83	90	27	145	231	148	173	182	46	211	213	240	155	211	41	193	209	173	172
11	253	259	212	311	277	277	241	12	320	303	286	290	285	288	283	288	296	289	254	258	254	328	342	31	288
12	184	209	230	166	179	159	130	125	136	77	90	7	343	294	272	302	300	276	258	284	3	23	294	152	236
13	158	169	150	166	164	164	354	300	287	266	279	279	291	295	286	283	269	302	301	318	281	286	280	265	270
14	268	168	319	2	143	241	165	232	169	75	78	137	148	350	296	293	273	272	284	289	279	288	298	276	265
15	296	266	270	269	229	286	21	220	194	169	162	142	184	201	82	359	222	278	298	315	36	13	63	264	257
16	70	152	208	240	300	303	304	277	259	242	229	271	269	285	289	277	251	264	260	275	269	245	268	212	262
17	195	190	142	113	156	177	161	201	204	210	222	222	231	242	246	250	263	298	307	292	287	271	296	283	230
18	252	253	302	303	290	278	275	336	346	267	358	20	22	314	108	41	79	145	174	201	180	120	137	256	291
19	297	287	281	275	256	271	287	285	286	283	298	292	290	291	306	296	310	300	294	300	299	299	301	294	291
20	298	308	310	291	279	245	268	328	4	198	138	150	186	26	338	341	272	275	285	296	295	293	307	296	292
21	294	315	288	212	190	319	287	293	288	304	277	290	301	310	310	293	284	285	301	307	308	290	300	346	294
22	283	297	289	180	182	177	146	106	95	186	166	142	143	172	118	134	172	177	20	3	177	170	268	269	172
23	180	207	212	179	216	214	169	148	125	125	129	143	150	172	169	205	171	294	181	205	203	179	166	164	177
24	187	228	232	34	3	57	199	221	218	194	159	131	158	184	183	194	175	208	276	206	227	305	137	210	197
25	101	135	197	231	65	98	111	109	108	112	111	102	162	192	191	156	33	124	74	130	37	135	115	116	121
26	186	163	190	206	184	175	126	179	187	171	167	159	171	161	171	171	181	170	167	198	65	113	158	175	169
27	174	156	154	141	156	182	170	176	174	190	159	142	152	132	111	153	139	178	163	194	113	143	209	139	158
28	121	120	114	109	105	109	109	116	120	113	118	116	116	122	120	123	123	122	119	118	117	117	121	124	117
Prev	182	183	198	199	176	185	162	174	168	166	154	144	163	174	151	205	196	215	209	214	175	179	201	196	181

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
March 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	123	121	124	125	128	131	129	131	138	136	128	306	158	110	115	96	87	96	148	116	123	104	111	209	124
2	224	226	187	218	181	151	169	152	154	192	172	156	164	165	162	156	164	163	173	179	166	172	216	10	175
3	146	155	156	170	5	5	273	331	332	320	49	64	94	144	198	83	56	272	287	287	98	219	251	355	14
4	336	320	285	273	302	280	276	288	250	165	233	181	114	310	297	281	285	279	213	220	243	347	227	158	265
5	258	320	250	244	12	279	295	295	1	127	175	279	249	17	69	139	210	211	198	197	194	170	166	111	227
6	118	130	107	62	4	292	295	268	347	302	332	296	319	300	324	292	315	304	182	80	317	288	289	277	312
7	287	310	294	276	284	293	283	298	349	313	271	284	288	288	290	294	298	296	289	289	291	292	294	271	292
8	256	265	311	349	338	319	186	92	156	162	189	172	202	107	172	266	41	190	121	265	84	16	343	283	220
9	247	222	254	99	202	206	204	240	229	216	201	223	214	204	201	231	250	93	297	313	300	278	188	95	224
10	353	324	322	307	348	50	51	80	244	340	8	57	316	299	293	292	302	292	285	299	297	299	292	297	321
11	294	292	292	290	291	301	324	198	95	131	139	289	285	280	296	290	291	279	293	270	254	255	258	268	278
12	284	285	263	303	268	343	276	328	352	207	86	131	202	223	224	226	238	285	278	246	15	326	151	280	269
13	166	268	308	183	139	200	137	177	158	157	149	173	298	298	305	299	295	292	306	293	262	283	105	257	238
14	222	159	179	187	189	188	237	176	301	136	161	186	93	313	308	306	305	288	276	304	288	271	283	285	243
15	286	288	291	293	282	270	288	285	261	247	289	292	294	299	313	296	297	275	251	292	338	311	290	323	290
16	310	313	302	287	318	16	269	264	269	273	297	303	289	292	262	276	293	274	269	276	296	50	6	71	297
17	10	141	152	321	278	6	285	288	289	290	288	286	280	294	286	309	311	309	288	286	289	301	297	290	296
18	334	322	302	305	295	278	262	274	258	276	276	276	287	283	297	295	307	276	277	285	268	252	249	253	283
19	244	311	1	342	318	306	289	306	91	130	118	117	150	295	301	293	278	315	293	288	311	314	310	316	306
20	318	267	226	301	298	305	283	308	321	287	261	292	277	285	297	299	270	291	254	311	290	274	284	187	285
21	224	57	327	176	104	161	193	150	118	113	111	136	154	223	213	228	334	346	115	225	162	175	212	189	168
22	150	134	130	124	130	123	137	149	120	134	169	215	160	176	94	339	260	185	137	144	137	302	143	156	148
23	42	219	175	198	311	300	294	295	291	292	287	288	291	278	287	286	288	274	274	263	305	312	327	288	286
24	265	246	184	108	138	109	131	166	181	158	195	144	248	227	256	314	312	296	268	265	128	169	173	87	194
25	112	164	165	170	169	83	173	165	154	106	132	169	107	96	200	176	284	291	293	292	297	300	308	295	180
26	290	283	302	303	294	28	130	323	320	299	281	268	292	306	279	289	304	296	299	268	301	295	163	20	298
27	129	192	191	197	46	152	132	123	201	228	305	292	291	288	294	317	269	308	292	309	300	283	274	271	263
28	271	253	236	333	288	292	268	270	187	21	36	314	244	268	295	272	281	272	295	240	205	191	194	191	264
29	183	178	204	252	306	304	303	333	117	89	326	294	257	237	264	261	256	49	332	273	295	291	328	296	281
30	295	251	286	299	298	290	289	3	315	281	266	260	290	305	310	297	296	291	295	311	27	69	93	116	301
31	154	181	172	175	184	176	139	136	136	120	77	91	107	85	105	303	317	268	263	254	264	355	118	51	147
Prev	257	247	242	256	293	292	245	256	233	198	216	247	248	274	273	283	291	283	268	271	282	287	250	277	267

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	15	13	8	20	20	21	13	12	19	13	18	20	26	22	14	9	7	6	12	32	36	72	42	81	23	81	6
2	34	80	78	48	46	75	42	46	52	67	57	47	62	71	61	94	85	30	34	31	17	30	8	62	52	94	8
3	68	75	33	25	18	24	19	15	10	19	24	22	16	14	10	13	14	20	41	13	9	9	7	23	23	75	7
4	101	30	16	19	30	29	21	8	16	14	10	12	14	12	13	25	24	23	15	13	37	21	20	11	22	101	8
5	24	35	6	7	7	10	11	7	11	9	10	36	25	20	31	10	11	40	65	67	45	70	58	33	27	70	6
6	40	34	102	32	36	21	38	54	73	27	33	22	17	19	18	10	81	16	36	81	53	76	75	87	45	102	10
7	12	55	59	19	53	24	58	88	54	77	56	66	29	27	47	23	45	35	58	40	23	24	76	90	47	90	12
8	40	92	50	65	43	61	73	64	67	68	14	16	32	46	68	72	85	67	48	66	38	52	46	57	55	92	14
9	19	99	23	72	22	84	26	45	31	17	26	20	27	23	22	25	32	20	43	15	17	27	28	49	34	99	15
10	18	59	62	38	22	21	18	13	10	13	16	13	19	14	13	13	16	25	20	17	13	25	12	13	21	62	10
11	13	52	40	29	24	25	72	46	6	6	7	8	10	36	37	17	70	45	24	31	28	76	38	68	34	76	6
12	30	29	38	41	22	65	28	32	20	33	17	16	19	18	17	10	10	16	17	19	15	15	45	37	25	65	10
13	24	46	11	9	9	10	10	8	15	19	18	11	17	11	10	10	12	17	16	12	10	10	10	10	14	46	8
14	9	10	17	24	23	24	18	12	16	17	22	22	13	9	12	11	12	18	16	13	9	26	26	17	17	26	9
15	15	24	16	20	29	29	20	18	65	65	52	87	20	14	19	21	11	15	12	47	15	51	49	16	30	87	11
16	11	14	11	18	14	14	22	29	24	53	37	54	19	7	6	6	6	9	25	99	32	26	15	34	24	99	6
17	16	37	79	46	90	86	27	27	25	30	68	15	10	7	6	7	6	7	15	11	13	9	10	38	29	90	6
18	51	69	77	33	42	76	56	64	69	30	23	33	28	33	41	21	29	85	91	91	87	53	49	87	55	91	21
19	84	26	76	71	49	33	90	75	70	23	40	50	90	37	20	28	8	8	10	14	10	19	24	17	41	90	8
20	24	22	50	61	53	95	50	27	44	32	56	36	56	33	22	22	10	74	27	73	54	70	54	58	46	95	10
21	30	51	30	55	71	18	18	45	59	42	24	24	24	70	45	28	68	68	60	70	14	20	19	38	41	71	14
22	19	75	93	89	83	73	50	43	63	49	85	57	27	57	44	57	48	45	30	86	18	32	70	83	57	93	18
23	32	73	31	73	67	99	56	25	17	15	18	14	24	52	40	11	14	43	70	83	82	75	86	31	47	99	11
24	48	86	26	17	54	15	65	42	27	50	62	23	21	73	68	85	87	31	33	20	18	13	9	33	42	87	9
25	87	94	46	56	69	64	92	71	42	24	33	31	51	64	19	17	20	16	19	43	25	12	73	98	49	98	12
26	48	41	23	11	18	17	34	14	10	41	31	41	47	37	13	10	11	9	10	8	8	15	46	50	25	50	8
27	8	19	17	24	95	55	35	48	85	24	17	22	29	17	32	16	62	12	36	85	51	61	94	64	42	95	8
28	28	20	54	57	63	85	53	21	20	12	13	19	25	22	33	45	71	10	7	9	11	14	40	34	32	85	7
29	15	17	22	17	19	78	22	35	17	86	81	30	54	47	14	49	56	65	44	31	19	40	14	83	40	86	14
30	17	14	64	35	10	10	7	6	7	7	8	6	12	22	13	24	81	32	41	87	33	24	55	10	26	87	6
31	26	61	74	41	55	76	23	26	16	90	54	43	25	15	83	88	49	42	73	88	61	20	45	16	50	90	15
Avg	32	47	43	38	41	46	38	34	34	35	33	30	29	31	29	28	37	31	34	45	29	35	40	46	36	83	10
Max	101	99	102	89	95	99	92	88	85	90	85	87	90	73	83	94	87	85	91	99	87	76	94	98	57	102	21
Min	8	10	6	7	7	10	7	6	6	6	7	6	10	7	6	6	6	6	7	8	8	9	7	10	14	26	6

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	7	10	9	10	10	8	48	57	66	20	15	26	19	27	15	46	25	50	71	50	26	13	36	13	28	71	7
2	33	53	15	68	37	72	43	25	21	72	49	51	65	39	62	86	56	83	60	69	66	75	91	72	57	91	15
3	46	49	49	23	48	25	13	9	21	7	8	9	16	16	17	13	20	32	8	7	7	8	9	15	20	49	7
4	21	20	51	16	43	28	9	6	4	6	7	10	8	25	30	42	36	43	8	24	19	21	32	15	22	51	4
5	26	23	23	28	25	17	18	10	10	10	10	10	6	12	11	5	14	14	19	16	29	23	23	17	17	29	5
6	38	28	92	37	68	31	99	80	63	35	21	24	18	22	47	18	14	57	9	49	17	24	35	91	42	99	9
7	48	42	94	68	54	32	84	44	87	35	28	34	55	81	47	19	23	60	18	60	84	92	85	49	55	94	18
8	13	48	87	53	37	36	73	21	17	13	9	8	6	8	13	14	17	33	50	34	40	20	17	20	29	87	6
9	15	17	42	41	39	97	23	55	23	9	19	15	24	21	12	19	17	26	41	18	50	50	55	79	34	97	9
10	81	32	21	50	49	81	94	90	68	40	63	62	9	22	76	68	37	40	62	95	103	86	86	92	63	103	9
11	24	12	88	48	10	67	81	13	29	30	17	11	17	16	17	13	8	12	37	14	38	44	50	60	32	88	8
12	74	38	45	55	41	21	45	31	17	34	74	58	44	41	26	14	10	23	22	23	101	56	59	90	43	101	10
13	35	48	88	60	92	32	76	38	23	27	20	22	13	10	22	24	24	22	16	19	15	9	19	16	32	92	9
14	14	60	92	42	57	54	55	54	38	74	91	82	83	32	19	35	30	27	17	20	24	26	9	23	44	92	9
15	31	23	20	21	89	49	95	82	43	17	22	20	38	45	81	81	61	88	84	44	65	41	76	69	54	95	17
16	92	97	63	58	7	10	9	26	23	12	44	23	32	27	27	25	19	24	18	23	27	48	28	7	32	97	7
17	7	10	35	50	42	12	49	11	6	5	9	7	9	13	12	17	26	24	18	37	24	27	23	20	21	50	5
18	12	16	18	13	10	21	23	24	20	77	11	48	37	46	59	53	29	25	27	9	26	23	52	35	30	77	9
19	12	16	21	21	18	25	21	36	43	25	19	15	15	16	23	14	16	12	17	15	13	10	10	9	18	43	9
20	9	13	8	20	37	7	12	53	31	18	27	52	55	38	20	34	29	23	18	10	11	14	13	10	23	55	7
21	11	22	37	37	83	44	22	12	17	11	19	10	30	20	12	13	12	11	11	9	8	14	13	33	21	83	8
22	29	9	18	55	47	42	76	58	47	24	47	54	27	24	54	22	20	15	88	51	22	26	55	32	39	88	9
23	58	41	49	20	36	37	17	20	12	6	7	12	9	13	22	8	59	92	14	27	15	17	10	13	26	92	6
24	11	14	8	62	55	55	19	6	6	17	25	11	13	14	16	18	15	32	48	44	50	52	40	13	27	62	6
25	84	62	22	55	50	16	7	8	8	9	7	8	45	15	24	31	84	84	45	40	36	100	91	77	42	100	7
26	38	15	40	32	36	12	63	44	43	16	15	22	12	9	6	8	47	77	19	62	75	67	59	24	35	77	6
27	14	73	33	35	73	38	26	15	14	47	13	30	21	35	60	23	40	35	15	67	59	66	26	23	37	73	13
28	6	7	7	8	9	8	8	6	7	10	7	7	6	6	5	5	6	8	8	7	7	8	7	6	7	10	5
Avg	32	32	42	39	43	35	43	33	29	25	25	26	26	25	30	27	28	38	31	34	38	38	40	37	33	77	9
Max	92	97	94	68	92	97	99	90	87	77	91	82	83	81	81	86	84	92	88	95	103	100	91	92	63	103	18
Min	6	7	7	8	7	7	7	6	4	5	7	7	6	6	5	5	6	8	8	7	7	8	7	6	7	10	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6	6	5	5	7	7	6	9	6	7	12	77	40	28	14	13	13	27	18	8	11	31	14	66	18	77	5
2	28	27	20	37	89	22	70	17	15	28	34	20	13	13	12	13	8	36	64	33	28	59	83	59	35	89	8
3	58	48	66	67	55	81	84	90	41	33	32	21	31	33	6	54	62	61	27	28	77	35	59	45	50	90	6
4	38	33	19	23	17	15	11	12	76	61	61	54	44	52	9	17	15	29	47	7	32	69	86	73	38	86	7
5	88	87	45	61	37	73	46	92	94	40	40	93	28	50	52	36	15	14	4	5	4	31	21	88	48	94	4
6	53	23	20	38	77	8	7	35	59	32	26	25	10	14	12	38	49	74	25	97	33	11	17	26	34	97	7
7	24	33	26	22	28	28	11	17	38	23	25	18	13	12	10	7	8	7	25	21	11	9	13	22	19	38	7
8	19	23	76	68	38	58	51	84	62	15	17	17	39	36	29	63	80	58	74	49	82	21	94	34	49	94	15
9	28	30	40	87	100	11	5	41	23	13	5	16	16	4	6	13	87	48	83	6	24	64	91	88	39	100	4
10	65	37	18	20	85	62	74	80	32	18	38	86	44	9	7	7	7	16	18	9	9	10	7	7	32	86	7
11	7	6	6	6	5	15	70	29	93	46	68	30	17	22	11	10	9	19	10	22	5	10	16	39	24	93	5
12	18	15	16	35	62	41	45	26	42	60	66	74	26	10	17	14	27	15	14	96	61	53	27	68	39	96	10
13	61	91	73	44	91	96	72	69	62	45	36	70	9	10	13	11	10	8	7	6	16	15	88	73	45	96	6
14	64	41	42	25	57	47	33	41	83	61	27	25	75	77	24	13	28	19	24	12	15	24	22	22	38	83	12
15	20	12	11	13	22	20	16	17	31	29	19	9	13	11	12	10	10	37	24	80	39	36	12	36	22	80	9
16	27	30	32	23	38	33	52	29	18	35	12	26	17	24	24	22	8	24	36	21	44	57	85	68	33	85	8
17	37	86	70	67	32	42	41	22	11	10	10	16	16	14	14	11	8	12	27	12	12	8	7	8	25	86	7
18	42	28	8	9	10	22	28	25	20	24	23	22	17	18	16	11	14	21	23	18	19	10	6	6	18	42	6
19	5	70	21	43	12	17	16	69	36	25	40	71	102	11	15	12	23	17	37	16	11	18	8	6	29	102	5
20	7	35	16	25	14	9	22	32	16	28	23	11	23	19	13	14	22	28	15	28	30	15	16	80	23	80	7
21	54	75	95	41	62	48	51	26	11	13	16	57	65	18	24	30	49	36	23	82	54	23	41	40	43	95	11
22	22	11	9	13	10	9	17	15	15	39	43	61	48	33	87	31	68	21	10	12	32	33	48	19	29	87	9
23	72	41	11	43	20	11	7	10	16	11	13	11	11	19	16	19	12	21	22	20	15	14	23	23	20	72	7
24	46	23	53	57	36	37	64	51	18	30	39	40	55	20	49	13	9	21	35	38	68	15	9	49	36	68	9
25	44	15	9	23	15	90	51	48	26	43	44	34	78	56	99	85	47	22	4	11	15	8	7	6	37	99	4
26	7	18	11	7	27	63	87	68	76	14	19	22	30	24	21	14	12	10	9	14	31	18	84	71	32	87	7
27	53	18	22	21	39	28	69	55	70	67	32	11	10	14	10	17	29	8	25	13	14	23	19	10	28	70	8
28	28	22	11	68	28	13	39	19	65	21	56	26	52	35	24	50	32	23	34	35	9	7	7	28	31	68	7
29	16	29	9	37	10	9	18	79	18	77	36	9	27	16	24	28	31	91	12	18	19	72	44	23	31	91	9
30	17	72	16	23	20	11	21	81	90	22	21	20	29	17	21	43	26	10	10	10	83	34	15	14	30	90	10
31	24	14	21	39	23	24	40	38	16	27	28	37	33	26	71	24	84	36	6	43	53	65	68	52	37	84	6
Avg	35	35	29	35	38	34	39	43	41	32	31	36	33	24	25	24	29	28	26	28	31	29	37	40	33	84	7
Max	88	91	95	87	100	96	87	92	94	77	68	93	102	77	99	85	87	91	83	97	83	72	94	88	50	102	15
Min	5	6	5	5	5	7	5	9	6	7	5	9	9	4	6	7	7	7	4	5	4	7	6	6	18	38	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.1	1.7	1.5	1.2	0.8	0.7	0.7	0.5	0.4	0.6	0.8	1.1	1.5	2.2	2.4	2.2	2.1	1.8	1.3	0.2	0.2	-0.3	0.1	-0.8	1.0	2.4	-0.8
2	-0.9	-1.9	-3.0	-3.9	-3.6	-3.7	-3.9	-3.5	-3.0	-2.7	-3.1	-2.4	-1.8	-1.0	0.0	0.9	2.2	4.0	5.0	5.3	5.5	6.5	6.7	6.4	0.2	6.7	-3.9
3	6.7	7.6	8.3	7.5	5.3	3.0	2.6	1.7	1.2	0.8	0.2	0.4	1.4	0.7	-1.3	-1.7	-2.1	-2.0	-2.4	-2.8	-2.7	-3.2	-3.5	-3.7	0.9	8.3	-3.7
4	-4.2	-3.6	-3.4	-3.6	-4.0	-3.9	-3.6	-3.9	-4.3	-4.1	-3.7	-4.0	-4.1	-3.8	-4.0	-4.6	-5.0	-5.0	-5.2	-5.5	-5.8	-5.9	-6.0	-6.1	-4.5	-3.4	-6.1
5	-6.2	-9.4	-14.7	-15.7	-15.9	-16.2	-16.7	-17.6	-19.1	-19.5	-18.9	-18.0	-16.9	-16.3	-15.6	-15.3	-15.2	-15.3	-15.7	-16.7	-17.7	-18.5	-18.4	-18.2	-16.2	-6.2	-19.5
6	-18.3	-17.6	-17.4	-18.1	-17.6	-18.0	-18.1	-18.5	-18.8	-18.8	-17.9	-16.8	-15.5	-14.5	-13.5	-13.0	-12.7	-12.6	-12.2	-12.5	-12.6	-12.5	-12.3	-12.1	-15.5	-12.1	-18.8
7	-13.0	-12.8	-12.3	-12.1	-11.7	-11.8	-11.8	-11.2	-11.1	-10.1	-10.3	-9.6	-9.3	-8.5	-8.0	-7.6	-6.6	-4.4	-5.4	-5.9	-5.6	-4.6	-4.1	-5.1	-8.9	-4.1	-13.0
8	-5.8	-6.2	-6.1	-6.3	-6.0	-6.1	-6.3	-6.0	-5.9	-5.8	-5.8	-4.8	-3.6	-2.1	-1.5	-1.0	0.4	1.6	1.6	2.1	0.8	0.5	1.7	1.5	-2.9	2.1	-6.3
9	1.0	1.6	1.8	1.6	1.2	1.2	1.2	0.7	0.0	0.2	0.7	0.3	0.6	0.5	0.1	-0.1	-0.8	-1.1	-1.4	-1.8	-2.2	-1.6	-1.9	-1.9	-0.0	1.8	-2.2
10	-2.0	-2.5	-3.5	-3.3	-3.1	-2.6	-2.1	-1.5	-1.2	-0.3	0.2	0.9	1.5	2.1	2.8	3.0	2.6	2.4	2.2	1.6	1.3	0.7	0.6	1.1	0.0	3.0	-3.5
11	1.2	1.6	1.8	2.3	2.4	3.1	3.5	4.3	4.8	5.6	6.2	5.9	6.0	5.6	3.7	0.3	0.6	0.6	1.5	1.3	0.6	0.2	-0.6	-0.5	2.6	6.2	-0.6
12	-0.1	-0.8	-0.9	-0.9	-0.9	-0.3	0.1	-0.2	-0.3	-0.2	0.2	0.1	0.2	0.0	0.0	0.0	-0.9	-1.8	-1.2	-0.2	-0.4	0.0	0.4	1.5	-0.3	1.5	-1.8
13	2.3	3.6	4.5	5.0	5.2	4.8	4.6	4.9	4.8	4.8	4.8	4.9	4.8	4.9	5.2	5.0	4.4	3.8	3.7	3.6	3.7	3.5	2.5	2.3	4.2	5.2	2.3
14	2.3	3.1	3.4	3.3	3.2	3.2	3.3	3.2	3.2	3.4	4.0	4.3	4.5	4.8	5.0	4.9	4.9	4.6	4.1	3.8	3.2	2.5	1.9	2.1	3.6	5.0	1.9
15	2.6	1.8	0.8	2.6	3.4	2.4	2.3	2.5	2.0	3.0	1.6	3.8	6.2	7.0	6.9	6.9	6.2	5.8	5.5	5.1	5.2	5.0	4.8	4.8	4.1	7.0	0.8
16	4.4	3.8	3.8	3.3	3.2	2.2	1.9	1.5	1.4	1.5	2.8	3.1	5.3	6.1	6.4	6.6	6.6	5.9	4.8	3.9	2.8	3.1	2.1	1.7	3.7	6.6	1.4
17	0.4	0.8	-0.5	-1.4	-2.7	-2.6	-1.3	-1.4	-0.7	1.4	2.0	4.7	5.3	6.7	8.0	8.3	7.8	7.2	6.7	6.1	5.5	5.1	4.1	3.1	3.0	8.3	-2.7
18	0.3	0.0	-0.3	-1.5	-2.3	-2.9	-3.2	-3.8	-4.2	-4.6	-4.1	-2.5	-0.6	0.8	1.9	2.6	2.6	2.8	2.4	1.4	-0.2	-1.4	-2.5	-1.0	-0.8	2.8	-4.6
19	-1.7	-3.9	-3.3	-4.3	-3.3	-4.0	-4.2	-5.4	-5.5	-6.1	-4.3	-2.6	0.1	6.3	8.9	8.7	8.4	7.8	7.1	6.9	6.7	5.9	5.4	4.8	1.2	8.9	-6.1
20	3.9	3.2	2.1	1.1	-0.7	-1.9	-1.4	-2.9	-3.9	-3.6	-2.7	-1.1	0.2	1.4	2.2	2.8	2.7	2.8	2.6	0.9	-0.8	-0.5	-2.5	-4.5	-0.0	3.9	-4.5
21	-3.9	-4.2	-5.1	-4.6	-5.7	-6.7	-7.3	-6.0	-7.2	-7.5	-6.5	-4.8	-2.8	-0.8	0.6	2.0	2.9	4.0	3.9	1.6	0.1	-0.5	-0.3	-0.8	-2.5	4.0	-7.5
22	-1.3	-2.3	-2.5	-2.4	-2.7	-2.1	-2.9	-2.7	-2.1	-2.8	-2.4	-2.3	-2.2	-1.9	-1.1	-0.6	-0.3	0.4	0.9	0.0	-1.0	-1.0	-0.1	0.1	-1.5	0.9	-2.9
23	0.0	0.0	-0.1	-0.4	-0.7	-1.3	-2.2	-3.1	-3.5	-3.7	-3.1	-1.9	-1.0	0.2	1.3	2.1	2.0	1.6	1.2	0.6	-0.3	-0.5	-2.0	-1.1	-0.7	2.1	-3.7
24	-2.0	-3.4	-5.1	-4.7	-4.1	-5.9	-5.6	-6.8	-7.2	-6.0	-5.2	-3.9	-2.5	0.2	1.7	4.3	4.8	5.1	4.4	4.3	3.9	4.2	3.8	2.9	-1.0	5.1	-7.2
25	1.9	0.3	-1.6	-2.8	-3.8	-4.0	-4.7	-5.4	-6.3	-5.6	-4.7	-2.9	-1.0	2.8	6.6	7.5	7.7	7.0	5.9	5.0	4.1	3.2	2.5	1.5	0.5	7.7	-6.3
26	0.3	1.5	1.4	0.1	0.3	1.0	0.6	2.0	2.6	1.7	0.0	-1.1	-0.7	-1.5	-3.0	-4.0	-5.2	-6.1	-6.9	-6.9	-6.3	-5.8	-5.7	-5.9	-2.0	2.6	-6.9
27	-6.1	-6.3	-6.4	-6.3	-6.4	-6.6	-7.3	-8.0	-9.1	-10.7	-9.6	-8.7	-6.8	-5.6	-4.9	-4.0	-4.0	-2.6	-3.3	-4.1	-5.2	-6.2	-7.6	-8.4	-6.4	-2.6	-10.7
28	-10.9	-11.1	-10.8	-12.0	-12.0	-12.8	-14.6	-14.6	-13.8	-14.2	-12.6	-11.1	-9.6	-7.8	-6.2	-5.2	-2.9	0.3	1.1	0.6	0.4	-0.1	-0.3	-0.6	-7.5	1.1	-14.6
29	-0.7	-0.4	-0.4	-0.3	0.0	-0.9	-2.9	-2.6	-2.0	-2.3	-2.1	-1.2	-0.6	0.0	1.0	0.7	1.6	1.6	1.9	2.1	2.2	2.2	0.7	-0.3	-0.1	2.2	-2.9
30	-0.4	-0.6	-4.0	-6.5	-7.7	-9.0	-10.0	-10.8	-11.5	-11.8	-12.0	-11.7	-11.5	-11.2	-10.9	-10.6	-10.6	-10.6	-10.6	-10.7	-11.1	-11.5	-11.6	-11.6	-9.5	-0.4	-12.0
31	-11.9	-12.0	-12.1	-12.5	-13.3	-13.5	-13.8	-13.2	-13.2	-12.7	-12.5	-11.7	-11.1	-10.3	-9.6	-8.9	-8.7	-7.4	-7.3	-7.1	-6.5	-7.2	-7.6	-9.2	-10.6	-6.5	-13.8
Avg	-1.9	-2.2	-2.7	-3.1	-3.3	-3.7	-4.0	-4.1	-4.3	-4.2	-3.8	-3.0	-2.1	-1.1	-0.5	-0.3	-0.1	0.1	-0.1	-0.6	-1.0	-1.2	-1.6	-1.9	-2.1	2.3	-5.8
Max	6.7	7.6	8.3	7.5	5.3	4.8	4.6	4.9	4.8	5.6	6.2	5.9	6.2	7.0	8.9	8.7	8.4	7.8	7.1	6.9	6.7	6.5	6.7	6.4	4.2	8.9	2.3
Min	-18.3	-17.6	-17.4	-18.1	-17.6	-18.0	-18.1	-18.5	-19.1	-19.5	-18.9	-18.0	-16.9	-16.3	-15.6	-15.3	-15.2	-15.3	-15.7	-16.7	-17.7	-18.5	-18.4	-18.2	-16.2	-12.1	-19.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-10.4	-11.0	-11.2	-11.2	-11.3	-11.3	-11.5	-11.5	-11.4	-11.7	-11.7	-11.5	-11.3	-11.0	-11.0	-10.7	-10.9	-11.3	-12.0	-12.9	-15.1	-14.9	-16.4	-17.3	-12.1	-10.4	-17.3
2	-16.2	-15.9	-16.2	-15.5	-15.5	-15.3	-15.1	-15.6	-15.5	-14.7	-14.3	-13.9	-13.1	-12.5	-11.5	-10.6	-11.0	-10.7	-10.4	-10.0	-9.9	-10.6	-9.4	-9.7	-13.0	-9.4	-16.2
3	-10.4	-9.8	-9.6	-9.2	-9.6	-10.1	-10.9	-11.8	-12.4	-12.9	-13.1	-13.2	-13.2	-13.3	-13.1	-13.1	-13.5	-14.3	-15.6	-16.3	-16.8	-17.0	-17.7	-18.3	-13.1	-9.2	-18.3
4	-18.6	-18.7	-18.8	-19.6	-19.8	-20.5	-20.8	-21.4	-21.8	-22.1	-21.6	-20.7	-20.0	-19.2	-19.0	-19.0	-19.5	-20.4	-21.3	-22.1	-22.6	-23.2	-23.5	-24.1	-20.8	-18.6	-24.1
5	-24.6	-24.7	-24.9	-25.0	-25.2	-25.6	-25.9	-26.1	-26.4	-26.2	-25.3	-24.0	-23.2	-22.3	-21.8	-21.7	-21.7	-22.3	-23.4	-24.3	-25.1	-25.4	-25.7	-26.1	-24.5	-21.7	-26.4
6	-26.6	-27.9	-28.7	-29.5	-30.7	-31.0	-31.4	-32.2	-32.2	-32.4	-31.5	-31.1	-30.0	-28.9	-27.8	-27.6	-26.7	-26.8	-27.5	-27.2	-27.6	-27.9	-28.4	-28.9	-29.2	-26.6	-32.4
7	-28.8	-28.5	-28.2	-27.3	-26.7	-26.4	-25.7	-25.7	-25.2	-24.6	-23.7	-22.6	-21.5	-19.8	-18.9	-18.5	-18.6	-17.8	-17.8	-17.1	-18.4	-18.8	-18.7	-18.7	-22.4	-17.1	-28.8
8	-18.5	-18.2	-18.1	-17.4	-16.7	-16.7	-15.6	-14.3	-14.5	-14.3	-14.7	-14.4	-14.3	-13.9	-13.3	-12.9	-12.8	-13.5	-14.0	-14.7	-15.1	-15.2	-15.3	-15.2	-15.2	-12.8	-18.5
9	-15.5	-15.8	-15.9	-15.7	-15.7	-15.8	-15.4	-15.1	-15.4	-15.5	-15.2	-14.7	-14.1	-13.5	-13.3	-13.2	-13.1	-13.2	-13.1	-13.2	-13.1	-13.2	-13.1	-13.1	-14.4	-13.1	-15.9
10	-13.4	-13.7	-13.4	-13.2	-13.2	-13.1	-12.7	-12.6	-12.3	-12.3	-11.8	-11.2	-10.8	-9.8	-8.8	-8.2	-6.8	-5.5	-7.0	-7.2	-7.3	-5.9	-5.0	-6.5	-10.1	-5.0	-13.7
11	1.0	1.9	2.1	1.6	1.7	1.5	0.5	0.3	1.4	0.5	0.2	1.0	1.5	1.5	2.0	2.0	1.5	0.7	0.0	0.2	-0.4	-0.6	-0.8	-2.0	0.8	2.1	-2.0
12	-4.4	-3.5	-3.4	-3.4	-3.1	-3.1	-1.5	0.0	1.1	1.8	3.0	4.3	5.6	6.6	6.4	5.3	5.4	5.2	4.8	4.2	3.6	3.7	3.4	1.7	1.8	6.6	-4.4
13	1.2	1.9	0.9	2.2	1.5	0.6	1.8	1.3	2.2	3.0	3.4	3.6	3.6	2.8	3.4	3.2	2.4	1.3	-0.7	0.0	0.4	0.7	0.2	-0.3	1.7	3.6	-0.7
14	0.1	-1.4	-1.5	-0.9	-2.9	-2.1	-2.2	-2.3	-2.6	-3.2	-3.1	-1.4	-1.1	0.1	1.1	0.3	1.3	2.7	3.2	2.9	1.9	1.1	1.7	1.7	-0.3	3.2	-3.2
15	1.7	1.6	1.4	1.2	-0.5	0.4	-1.2	-2.5	-3.5	-3.2	-3.0	-2.1	-0.9	-0.2	0.0	0.6	0.7	0.8	0.5	1.3	2.0	3.0	3.8	4.7	0.3	4.7	-3.5
16	5.4	5.7	6.6	4.0	1.6	1.9	1.2	0.8	0.6	0.3	0.6	0.4	0.7	-0.6	0.3	0.3	-0.4	-0.1	-0.3	-0.5	-0.7	-0.6	-0.8	-1.4	1.0	6.6	-1.4
17	-0.8	-0.7	-0.8	-0.4	-0.6	0.6	0.5	1.8	2.0	3.4	4.8	4.8	5.3	5.8	5.8	5.3	4.3	3.0	0.8	0.5	1.3	1.3	0.7	-0.8	2.0	5.8	-0.8
18	-0.6	-0.2	-0.4	-0.5	-0.8	-1.2	-1.7	-2.0	-2.0	-1.8	-0.7	0.3	0.9	1.8	1.8	2.5	3.0	3.0	3.6	3.9	3.2	2.7	3.0	3.3	0.9	3.9	-2.0
19	0.6	1.1	0.6	-0.3	-1.2	-1.8	-2.2	-2.8	-3.0	-2.6	-2.1	-2.1	-2.1	-2.3	-1.7	-1.1	-2.8	-3.7	-4.1	-4.4	-4.4	-4.1	-3.8	-3.8	-2.3	1.1	-4.4
20	-4.3	-4.3	-4.3	-4.5	-4.8	-4.3	-4.7	-5.2	-4.8	-3.3	-3.8	-3.6	-1.6	-1.2	-1.3	-2.0	-1.9	-1.4	-1.2	-1.1	-1.6	-1.5	-2.6	-2.9	-3.0	-1.1	-5.2
21	-2.4	-2.7	-3.2	-4.0	-4.2	-4.0	-3.2	-3.5	-3.7	-3.4	-3.2	-3.5	-3.4	-3.2	-3.8	-4.1	-4.2	-4.3	-4.4	-5.0	-5.8	-6.0	-6.1	-6.6	-4.1	-2.4	-6.6
22	-6.7	-7.1	-9.0	-9.5	-10.7	-11.3	-11.6	-12.3	-12.3	-12.3	-12.0	-11.3	-10.7	-10.0	-9.5	-9.4	-9.1	-8.4	-8.4	-8.2	-8.9	-8.8	-8.8	-8.9	-9.8	-6.7	-12.3
23	-9.2	-9.4	-9.4	-9.9	-10.1	-10.6	-11.2	-11.7	-11.6	-11.8	-11.9	-11.8	-11.5	-11.4	-11.1	-10.9	-10.7	-10.4	-10.5	-10.7	-10.8	-11.7	-11.8	-12.4	-10.9	-9.2	-12.4
24	-12.6	-12.4	-12.2	-12.3	-12.8	-13.2	-13.7	-14.2	-14.4	-14.1	-13.7	-13.4	-12.8	-12.5	-12.1	-11.5	-11.5	-11.5	-11.2	-11.1	-11.1	-11.0	-11.2	-11.1	-12.4	-11.0	-14.4
25	-10.9	-11.1	-11.0	-10.7	-9.7	-9.4	-9.8	-10.4	-10.9	-11.0	-11.0	-10.7	-10.4	-10.2	-9.7	-9.0	-8.8	-9.7	-10.4	-11.7	-13.3	-15.0	-15.6	-16.4	-11.1	-8.8	-16.4
26	-16.6	-18.7	-19.2	-18.5	-19.5	-21.2	-21.7	-21.8	-22.0	-22.2	-22.2	-21.1	-19.4	-18.8	-16.7	-16.0	-14.4	-15.3	-14.4	-14.3	-14.2	-14.1	-15.1	-15.3	-18.0	-14.1	-22.2
27	-15.5	-15.4	-15.2	-15.8	-16.2	-16.2	-16.2	-16.1	-16.1	-14.8	-14.6	-13.5	-12.5	-11.5	-10.6	-10.1	-9.3	-8.7	-8.2	-7.7	-7.2	-7.1	-6.6	-5.4	-12.1	-5.4	-16.2
28	-5.7	-7.0	-8.1	-9.2	-10.0	-10.8	-11.7	-12.5	-12.9	-13.3	-13.5	-13.7	-14.0	-14.1	-14.1	-14.1	-14.7	-15.7	-16.7	-17.7	-18.7	-19.2	-19.6	-20.4	-13.6	-5.7	-20.4
Avg	-9.4	-9.5	-9.7	-9.8	-10.2	-10.4	-10.5	-10.7	-10.7	-10.5	-10.2	-9.7	-9.1	-8.6	-8.2	-8.0	-8.0	-8.2	-8.6	-8.7	-9.1	-9.3	-9.4	-9.8	-9.4	-6.1	-12.9
Max	5.4	5.7	6.6	4.0	1.7	1.9	1.8	1.8	2.2	3.4	4.8	4.8	5.6	6.6	6.4	5.3	5.4	5.2	4.8	4.2	3.6	3.7	3.8	4.7	2.0	6.6	-0.7
Min	-28.8	-28.5	-28.7	-29.5	-30.7	-31.0	-31.4	-32.2	-32.2	-32.4	-31.5	-31.1	-30.0	-28.9	-27.8	-27.6	-26.7	-26.8	-27.5	-27.2	-27.6	-27.9	-28.4	-28.9	-29.2	-26.6	-32.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-21.0	-21.3	-21.5	-21.7	-21.7	-21.9	-22.4	-22.6	-22.9	-22.9	-22.3	-21.8	-21.3	-20.9	-20.6	-20.3	-20.2	-19.9	-20.0	-20.3	-20.4	-20.3	-20.4	-20.4	-21.2	-19.9	-22.9
2	-20.2	-20.3	-20.4	-20.3	-20.2	-20.4	-20.2	-20.0	-19.8	-19.3	-18.5	-17.7	-16.6	-15.8	-14.8	-13.8	-13.1	-12.5	-12.0	-11.7	-11.3	-10.9	-10.5	-10.2	-16.3	-10.2	-20.4
3	-10.1	-10.2	-7.1	-8.6	-4.8	0.1	0.4	1.9	3.2	4.3	4.8	4.8	5.1	5.0	4.2	3.6	4.5	4.3	4.2	2.8	2.8	3.4	3.7	3.3	1.1	5.1	-10.2
4	3.2	2.8	2.1	2.7	3.1	2.6	2.5	2.1	1.4	0.8	2.3	3.3	3.4	5.1	5.5	5.7	5.9	5.2	4.7	4.6	4.3	3.8	3.3	2.5	3.5	5.9	0.8
5	2.4	2.0	2.4	3.1	2.8	3.4	3.3	3.5	4.1	3.6	2.2	4.6	6.9	5.9	6.0	6.4	7.6	7.1	5.9	5.7	6.4	5.5	4.4	4.5	4.6	7.6	2.0
6	4.7	5.7	5.9	5.6	6.5	4.0	3.2	2.9	2.9	3.8	3.5	4.2	4.3	5.0	5.6	6.1	5.7	3.6	3.8	3.1	2.9	2.5	2.4	2.4	4.2	6.5	2.4
7	1.7	1.4	1.7	2.0	2.3	2.0	1.9	1.7	2.0	3.1	3.7	4.4	4.8	5.0	5.0	4.8	4.6	4.8	4.5	4.3	4.3	4.1	3.6	2.9	3.4	5.0	1.4
8	3.0	2.7	1.9	1.2	0.5	0.1	-1.5	-1.6	-1.7	-1.9	-0.3	0.8	2.4	3.1	3.4	4.7	5.1	4.7	6.0	7.6	6.1	7.1	7.6	8.0	2.9	8.0	-1.9
9	9.8	10.0	9.1	8.2	8.5	8.6	7.5	7.0	7.2	7.8	7.7	8.4	8.5	8.7	9.2	9.8	9.7	9.3	9.6	7.6	6.6	6.6	5.4	4.0	8.1	10.0	4.0
10	4.1	4.3	4.1	3.1	2.1	1.6	0.9	0.4	0.5	1.0	1.6	2.1	2.8	3.3	3.3	3.4	3.8	3.7	3.6	3.5	1.9	1.5	1.2	0.6	2.4	4.3	0.4
11	0.2	0.1	0.2	0.1	0.2	0.2	-0.1	-0.8	-0.6	-0.2	0.5	2.4	3.4	3.7	4.0	4.6	4.8	4.4	3.9	3.1	2.3	1.6	1.3	0.7	1.7	4.8	-0.8
12	0.5	-0.4	-0.4	-1.3	-1.4	-1.7	-1.8	-2.1	-2.3	-1.2	0.4	1.9	3.0	4.5	5.6	6.4	7.0	7.7	7.0	5.3	2.7	2.3	1.5	1.0	1.8	7.7	-2.3
13	0.0	-0.5	-0.9	-2.8	-2.9	-3.4	-4.0	-4.4	-3.6	-2.4	-0.6	2.3	6.5	6.9	7.4	8.0	8.3	8.2	7.6	6.6	5.9	5.2	3.5	3.0	2.2	8.3	-4.4
14	2.7	1.7	0.1	-1.3	-0.9	-1.1	-0.8	-1.9	-2.6	-1.8	-0.8	0.2	1.5	4.9	5.8	5.1	4.8	5.0	3.5	3.0	2.7	1.7	2.2	2.5	1.5	5.8	-2.6
15	2.7	2.6	2.5	2.2	2.0	1.8	1.7	1.4	1.7	2.2	3.1	4.1	5.1	5.8	6.1	6.5	5.5	4.5	4.1	3.8	3.7	4.0	3.4	3.1	3.5	6.5	1.4
16	3.2	3.4	3.2	3.3	3.1	4.4	5.2	6.2	7.8	9.2	10.3	11.0	11.8	12.7	13.0	12.6	12.4	11.9	11.6	10.7	9.6	7.8	7.2	4.4	8.2	13.0	3.1
17	4.7	3.4	2.3	3.6	3.4	3.2	2.0	2.2	2.2	1.0	0.4	0.9	1.6	1.9	0.7	0.5	0.3	1.8	0.7	-0.7	-0.2	-0.1	-0.2	-0.5	1.5	4.7	-0.7
18	-1.0	-1.0	-0.6	-0.8	-1.1	-0.9	-1.3	-1.2	-1.3	-1.1	-0.9	-0.4	0.5	0.8	1.2	1.1	0.9	0.7	0.0	-0.4	-0.9	-1.4	-1.9	-2.0	-0.5	1.2	-2.0
19	-2.2	-2.7	-3.1	-3.6	-3.5	-3.5	-3.4	-3.7	-4.5	-2.9	-1.3	0.3	2.3	4.0	4.8	5.5	5.7	4.3	4.2	4.6	4.0	1.6	0.8	0.7	0.3	5.7	-4.5
20	0.4	0.3	0.2	-0.2	-0.3	-1.2	-1.6	-2.2	-2.4	-2.1	-1.3	-1.0	-0.3	-0.1	-0.1	-0.3	-0.8	-0.7	-1.9	-3.0	-3.2	-3.4	-3.7	-4.4	-1.4	0.4	-4.4
21	-4.7	-4.9	-5.2	-5.2	-6.4	-6.6	-6.5	-6.3	-5.9	-4.9	-3.7	-2.3	-1.2	-0.7	-0.3	0.1	0.1	0.0	-1.1	-3.0	-4.9	-6.2	-6.4	-7.1	-3.9	0.1	-7.1
22	-7.9	-8.3	-8.7	-9.3	-9.6	-9.8	-10.3	-10.2	-9.6	-8.5	-7.4	-6.0	-4.3	-2.4	-0.9	0.1	0.7	0.6	0.2	-0.3	-0.4	-0.5	-2.0	-2.7	-4.9	0.7	-10.3
23	-3.0	-2.6	-3.2	-3.4	-1.5	-2.3	-2.5	-2.1	-1.7	-0.8	0.4	1.0	1.9	2.4	3.1	3.9	4.2	4.2	3.3	2.7	2.5	2.1	1.3	0.5	0.4	4.2	-3.4
24	0.2	0.3	-1.1	-1.5	-2.8	-3.3	-4.1	-4.2	-3.5	-2.1	-0.3	1.8	3.6	4.4	5.6	6.4	6.5	6.5	6.3	6.1	4.8	2.9	1.8	1.7	1.5	6.5	-4.2
25	0.9	0.0	-1.0	-1.5	-2.3	-2.6	-3.1	-2.9	-2.4	-1.0	0.9	2.6	4.4	6.7	9.1	10.4	10.7	10.9	11.0	9.9	8.8	8.9	8.1	7.4	3.9	11.0	-3.1
26	6.8	6.2	4.6	2.7	2.5	2.1	2.0	2.0	2.7	4.0	5.0	5.3	5.8	5.8	6.2	6.4	6.2	5.9	5.6	4.9	3.9	3.6	2.4	1.1	4.3	6.8	1.1
27	0.0	-0.5	-0.5	-0.6	-0.3	-0.5	-0.8	-0.7	-1.2	-0.9	0.0	1.3	2.3	3.5	4.0	3.7	4.1	3.4	1.6	0.6	1.3	1.3	1.4	1.6	1.0	4.1	-1.2
28	1.4	1.3	0.7	0.4	0.5	0.2	0.4	1.0	1.0	2.0	3.7	5.0	6.2	7.1	7.4	7.8	8.1	7.9	7.2	7.1	6.9	6.2	6.1	6.0	4.2	8.1	0.2
29	5.8	5.9	6.6	6.8	4.8	3.5	1.8	1.9	1.5	1.1	1.6	2.2	2.4	3.9	4.7	4.9	5.0	5.1	4.8	4.6	3.7	3.0	2.3	2.5	3.8	6.8	1.1
30	2.0	1.8	1.5	0.7	0.8	0.6	0.8	0.1	1.4	2.4	3.0	3.6	4.2	4.6	5.1	5.6	5.8	4.1	2.5	2.1	0.3	-1.1	-1.5	-1.7	2.0	5.8	-1.7
31	-1.8	-1.8	-2.0	-2.1	-2.0	-1.9	-2.1	-2.0	-1.8	-1.1	0.0	1.5	2.8	3.5	4.3	4.5	5.0	5.0	3.9	3.4	2.0	1.8	0.8	0.0	0.8	5.0	-2.1
Avg	-0.4	-0.6	-0.9	-1.2	-1.2	-1.4	-1.7	-1.8	-1.6	-0.9	-0.1	1.0	2.1	2.8	3.3	3.7	3.8	3.6	3.1	2.5	1.9	1.4	0.9	0.5	0.8	4.5	-3.0
Max	9.8	10.0	9.1	8.2	8.5	8.6	7.5	7.0	7.8	9.2	10.3	11.0	11.8	12.7	13.0	12.6	12.4	11.9	11.6	10.7	9.6	8.9	8.1	8.0	8.2	13.0	4.0
Min	-21.0	-21.3	-21.5	-21.7	-21.7	-21.9	-22.4	-22.6	-22.9	-22.9	-22.3	-21.8	-21.3	-20.9	-20.6	-20.3	-20.2	-19.9	-20.0	-20.3	-20.4	-20.3	-20.4	-20.4	-21.2	-19.9	-22.9

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.1	1.7	1.4	1.2	0.9	0.7	0.6	0.6	0.5	0.7	1.0	1.2	1.7	2.4	2.6	2.2	1.9	1.3	1.0	-0.1	-0.5	-1.1	-0.5	-1.5	0.9	2.6	-1.5
2	-1.3	-3.2	-3.6	-4.1	-3.9	-3.7	-4.2	-4.0	-3.3	-2.9	-3.0	-2.1	-1.5	-0.7	0.3	0.7	1.3	3.9	5.0	4.9	4.8	5.8	6.4	5.7	-0.1	6.4	-4.2
3	6.2	6.7	7.6	7.3	5.2	3.0	2.6	1.7	1.1	0.8	0.3	0.6	1.6	0.9	-1.1	-1.6	-2.0	-2.0	-2.4	-2.8	-2.8	-3.1	-3.5	-3.9	0.9	7.6	-3.9
4	-4.6	-3.8	-3.4	-3.7	-3.9	-3.8	-3.6	-3.9	-4.3	-4.1	-3.6	-3.8	-3.9	-3.6	-3.9	-4.5	-4.9	-4.9	-5.1	-5.4	-5.7	-5.7	-5.8	-5.9	-4.4	-3.4	-5.9
5	-6.0	-9.2	-14.5	-15.4	-15.7	-16.0	-16.5	-17.4	-18.9	-19.3	-18.6	-17.6	-16.5	-15.9	-15.2	-15.3	-16.1	-15.8	-15.8	-17.1	-17.9	-18.8	-18.3	-18.0	-16.1	-6.0	-19.3
6	-18.2	-17.9	-17.9	-18.4	-18.1	-18.3	-18.4	-18.8	-18.8	-18.6	-17.6	-16.5	-15.1	-14.1	-13.1	-12.7	-13.2	-13.2	-12.6	-12.6	-12.7	-12.7	-12.5	-12.6	-15.6	-12.5	-18.8
7	-13.4	-12.8	-12.3	-12.3	-11.7	-11.8	-11.8	-11.6	-11.3	-10.6	-10.2	-9.4	-9.0	-8.2	-7.7	-7.4	-6.7	-5.0	-5.8	-6.4	-5.9	-5.1	-5.1	-5.9	-9.1	-5.0	-13.4
8	-6.7	-6.6	-6.6	-6.5	-6.2	-6.3	-6.7	-6.3	-6.2	-5.8	-5.5	-4.4	-3.4	-1.8	-1.3	-1.1	-0.9	0.4	0.6	1.4	0.3	0.3	1.2	1.0	-3.2	1.4	-6.7
9	0.8	1.4	1.7	1.2	0.9	0.6	0.7	0.4	-0.1	0.2	0.8	0.4	0.6	0.5	0.1	0.0	-0.8	-1.1	-1.5	-1.9	-2.3	-2.2	-2.4	-2.6	-0.2	1.7	-2.6
10	-2.3	-2.8	-3.7	-3.4	-3.4	-3.1	-2.4	-1.6	-1.1	-0.3	0.2	0.9	1.6	2.2	2.8	3.0	2.6	2.5	2.2	1.7	1.3	0.8	0.4	0.9	-0.0	3.0	-3.7
11	0.7	1.1	1.4	1.3	1.2	1.8	2.7	3.9	4.6	5.3	5.8	5.5	5.5	5.1	3.7	0.9	0.7	0.2	0.4	1.0	0.2	-0.7	-0.6	-1.1	2.1	5.8	-1.1
12	-0.3	-0.7	-0.9	-1.0	-1.2	-0.5	0.0	-0.2	-0.3	-0.1	0.2	0.1	0.3	0.0	0.1	0.0	-0.8	-1.8	-1.6	-0.9	-0.7	-0.2	0.0	1.1	-0.4	1.1	-1.8
13	2.0	3.5	4.4	4.7	5.0	4.6	4.4	4.8	4.6	4.8	4.7	4.7	4.6	4.8	5.1	4.8	4.3	3.7	3.6	3.5	3.6	3.4	2.4	2.2	4.1	5.1	2.0
14	2.3	2.9	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.5	4.1	4.4	4.5	4.8	5.0	4.8	4.8	4.3	3.7	3.0	2.4	1.8	1.5	1.7	3.4	5.0	1.5
15	2.2	1.4	0.0	1.6	2.3	1.6	1.7	1.9	1.3	2.3	1.3	4.0	6.1	7.0	6.9	6.9	5.9	5.5	5.1	4.7	5.0	4.6	4.4	4.2	3.7	7.0	0.0
16	3.9	3.4	3.0	2.6	1.5	1.1	1.1	0.9	1.0	1.2	2.5	2.8	5.4	6.2	6.5	6.5	6.2	5.2	3.9	3.2	2.5	2.4	1.3	1.1	3.1	6.5	0.9
17	-0.3	0.0	-1.5	-2.5	-3.8	-3.6	-2.2	-2.2	-1.4	1.1	1.5	4.9	5.4	6.8	8.0	8.2	7.5	6.7	6.3	5.4	5.2	4.2	3.5	2.5	2.5	8.2	-3.8
18	-0.7	-0.7	-1.3	-2.2	-2.7	-3.1	-3.9	-4.3	-4.5	-4.3	-3.7	-2.0	-0.2	1.2	2.3	2.9	2.1	2.1	1.8	0.6	-1.2	-2.1	-3.0	-1.8	-1.2	2.9	-4.5
19	-3.0	-4.6	-4.2	-5.1	-4.5	-5.4	-5.3	-6.7	-6.3	-6.0	-3.9	-2.2	0.3	5.1	9.0	8.3	8.0	7.1	6.6	6.5	6.3	5.8	4.9	4.1	0.6	9.0	-6.7
20	3.2	2.6	1.0	0.5	-1.4	-2.3	-1.7	-3.6	-4.2	-3.4	-2.3	-0.6	0.8	2.0	2.6	3.2	2.2	2.0	1.6	0.0	-1.4	-1.0	-4.1	-4.9	-0.4	3.2	-4.9
21	-4.4	-5.0	-5.5	-5.3	-6.5	-7.3	-7.7	-7.0	-8.3	-7.3	-6.1	-4.3	-2.3	-0.3	1.1	2.4	2.4	2.6	2.9	0.2	-0.3	-0.9	-0.9	-1.7	-2.9	2.9	-8.3
22	-2.3	-2.9	-3.1	-3.1	-3.4	-2.7	-3.1	-3.0	-2.8	-3.0	-2.5	-2.2	-1.9	-1.6	-0.8	-0.4	-0.3	0.0	0.4	-0.6	-1.4	-1.3	-0.4	-0.1	-1.8	0.4	-3.4
23	-0.1	0.0	-0.4	-0.6	-1.2	-1.6	-2.2	-3.0	-3.9	-3.3	-2.5	-1.4	-0.5	0.6	1.7	2.6	1.9	0.4	0.8	0.1	-0.8	-1.4	-2.6	-2.4	-0.8	2.6	-3.9
24	-2.9	-4.4	-5.3	-5.1	-4.8	-6.3	-6.1	-7.2	-7.4	-5.9	-4.8	-3.3	-2.0	0.7	2.2	4.1	4.3	4.5	3.6	3.4	3.2	3.8	3.4	2.4	-1.2	4.5	-7.4
25	1.1	-0.9	-2.5	-3.3	-4.6	-4.6	-5.5	-6.2	-7.0	-5.5	-4.3	-2.4	-0.6	3.1	6.9	7.7	7.7	6.3	5.2	4.1	3.8	2.7	1.5	0.2	0.1	7.7	-7.0
26	-1.4	1.0	1.2	-0.3	-0.2	0.6	0.0	1.3	2.3	1.1	0.0	-0.9	-0.6	-1.6	-2.9	-4.0	-5.1	-6.1	-6.8	-6.8	-6.3	-5.9	-5.8	-6.1	-2.2	2.3	-6.8
27	-6.4	-6.6	-6.6	-6.5	-6.5	-6.8	-7.8	-8.8	-9.5	-10.4	-9.3	-8.1	-6.4	-5.1	-4.7	-3.8	-4.4	-3.2	-4.3	-5.1	-6.3	-7.3	-8.0	-9.6	-6.7	-3.2	-10.4
28	-11.7	-11.9	-11.8	-12.6	-12.6	-13.8	-15.1	-15.3	-14.6	-14.2	-12.2	-10.7	-9.3	-7.4	-5.9	-5.2	-3.5	0.0	0.7	0.5	0.3	-0.2	-0.2	-0.5	-7.8	0.7	-15.3
29	-0.7	-0.4	-0.3	-0.3	0.0	-0.9	-2.7	-2.5	-2.0	-2.3	-2.0	-1.5	-0.5	-0.1	1.1	0.7	1.4	1.2	1.5	1.9	1.9	1.4	0.5	-0.3	-0.2	1.9	-2.7
30	-0.4	-0.6	-3.9	-6.3	-7.5	-8.7	-9.9	-10.6	-11.3	-11.6	-11.7	-11.5	-11.2	-10.9	-10.6	-10.5	-10.4	-10.5	-10.6	-10.8	-11.2	-11.6	-11.8	-11.7	-9.4	-0.4	-11.8
31	-11.8	-12.1	-12.1	-12.8	-13.5	-13.5	-13.7	-13.3	-13.1	-12.7	-12.3	-11.4	-10.8	-9.9	-9.4	-9.0	-8.9	-8.1	-8.5	-8.1	-7.5	-7.4	-7.7	-9.1	-10.7	-7.4	-13.7
Avg	-2.4	-2.6	-3.1	-3.5	-3.8	-4.1	-4.3	-4.5	-4.6	-4.2	-3.7	-2.8	-1.8	-0.9	-0.3	-0.2	-0.4	-0.4	-0.6	-1.0	-1.4	-1.7	-2.0	-2.3	-2.4	2.0	-6.1
Max	6.2	6.7	7.6	7.3	5.2	4.6	4.4	4.8	4.6	5.3	5.8	5.5	6.1	7.0	9.0	8.3	8.0	7.1	6.6	6.5	6.3	5.8	6.4	5.7	4.1	9.0	2.0
Min	-18.2	-17.9	-17.9	-18.4	-18.1	-18.3	-18.4	-18.8	-18.9	-19.3	-18.6	-17.6	-16.5	-15.9	-15.2	-15.3	-16.1	-15.8	-15.8	-17.1	-17.9	-18.8	-18.3	-18.0	-16.1	-12.5	-19.3

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-10.2	-10.9	-11.1	-11.2	-11.2	-11.3	-11.5	-11.6	-11.7	-11.8	-11.6	-11.2	-11.0	-10.8	-10.8	-10.9	-11.5	-11.6	-12.9	-13.8	-15.6	-15.8	-17.2	-17.3	-12.3	-10.2	-17.3
2	-16.2	-16.4	-16.7	-15.7	-15.5	-15.3	-15.3	-15.8	-15.4	-14.8	-14.3	-13.7	-12.8	-12.2	-11.4	-10.7	-11.1	-11.1	-11.0	-10.4	-10.4	-11.0	-10.1	-10.3	-13.2	-10.1	-16.7
3	-10.8	-10.2	-9.7	-9.7	-9.6	-9.9	-10.8	-11.7	-12.3	-12.7	-12.9	-12.9	-13.0	-13.0	-12.8	-13.0	-13.4	-14.6	-16.0	-16.6	-17.0	-17.4	-18.4	-18.7	-13.2	-9.6	-18.7
4	-18.9	-18.9	-19.1	-20.2	-20.3	-21.6	-21.9	-22.3	-22.4	-22.3	-21.6	-20.5	-19.8	-19.0	-18.7	-18.8	-19.7	-20.6	-21.7	-22.2	-22.8	-23.5	-23.8	-24.9	-21.1	-18.7	-24.9
5	-25.3	-25.3	-25.9	-25.2	-25.5	-25.9	-26.1	-26.8	-26.9	-26.3	-25.3	-23.8	-22.9	-22.2	-21.7	-21.6	-22.0	-22.9	-23.7	-25.0	-25.4	-26.0	-25.8	-26.4	-24.7	-21.6	-26.9
6	-26.8	-28.7	-29.0	-29.8	-31.0	-31.4	-31.7	-32.6	-32.3	-32.7	-31.8	-30.9	-29.7	-28.6	-27.6	-27.4	-27.1	-27.2	-27.9	-27.5	-28.1	-28.4	-29.0	-30.1	-29.5	-26.8	-32.7
7	-29.2	-28.8	-28.2	-27.2	-26.7	-26.4	-26.0	-25.7	-25.2	-24.3	-23.5	-22.2	-21.0	-19.6	-18.6	-18.4	-18.8	-18.6	-18.8	-18.1	-19.0	-19.7	-19.9	-19.3	-22.6	-18.1	-29.2
8	-19.2	-18.6	-18.5	-17.3	-17.1	-17.1	-16.4	-15.3	-14.4	-14.2	-14.4	-14.1	-13.9	-13.6	-13.3	-13.1	-13.4	-13.9	-14.1	-14.9	-15.2	-15.3	-15.3	-15.2	-15.3	-13.1	-19.2
9	-15.3	-15.6	-15.8	-15.6	-15.6	-15.7	-15.3	-15.0	-15.3	-15.5	-15.2	-14.5	-13.8	-13.1	-13.0	-12.9	-13.0	-13.2	-13.1	-13.4	-13.3	-13.3	-13.3	-13.3	-14.3	-12.9	-15.8
10	-13.4	-13.7	-13.2	-13.2	-13.1	-12.9	-12.6	-12.4	-12.2	-12.3	-11.8	-10.9	-10.5	-9.5	-8.6	-8.2	-6.8	-6.1	-7.4	-7.6	-7.5	-6.8	-6.8	-7.8	-10.2	-6.1	-13.7
11	-2.1	0.1	0.7	0.5	1.4	1.0	0.1	0.1	1.0	0.5	0.3	1.0	1.5	1.4	2.0	1.9	1.2	0.5	-0.6	-1.0	-2.2	-1.3	-1.4	-2.5	0.2	2.0	-2.5
12	-5.2	-4.3	-4.0	-4.1	-3.6	-3.4	-1.9	-0.2	0.7	1.5	3.0	4.2	5.4	6.5	6.3	5.1	5.1	5.2	4.8	4.0	3.1	3.2	2.5	1.1	1.5	6.5	-5.2
13	0.6	1.3	0.0	1.4	0.8	0.1	1.4	1.2	2.2	3.1	3.5	3.6	3.6	2.8	3.3	3.2	2.5	1.3	-0.6	0.0	0.4	0.6	0.0	-1.1	1.5	3.6	-1.1
14	-0.6	-2.0	-2.5	-1.6	-3.5	-2.8	-2.7	-2.8	-3.4	-3.6	-3.2	-1.5	-1.0	-0.1	1.1	0.3	1.1	2.7	3.2	2.9	1.9	1.0	1.6	1.7	-0.6	3.2	-3.6
15	1.5	1.4	1.1	0.8	-1.6	-0.6	-2.4	-3.8	-4.3	-3.4	-2.9	-1.9	-0.7	0.0	0.1	0.4	0.2	0.4	0.0	1.0	1.6	2.5	3.0	3.8	-0.2	3.8	-4.3
16	4.6	5.0	5.5	3.6	1.6	1.8	1.1	0.9	0.6	0.3	0.7	0.5	0.9	-0.5	0.4	0.4	-0.3	-0.1	-0.3	-0.6	-1.1	-1.6	-2.2	-2.2	0.8	5.5	-2.2
17	-2.1	-2.0	-1.4	-1.0	-1.1	-0.6	-0.3	1.3	1.5	3.2	4.6	4.6	5.1	5.5	5.6	5.2	4.3	2.9	0.8	0.5	1.3	1.3	0.7	-0.8	1.6	5.6	-2.1
18	-0.7	-0.3	-0.6	-0.7	-0.9	-1.2	-1.6	-2.2	-2.2	-2.0	-0.9	0.4	1.0	1.9	1.8	2.4	2.8	2.5	3.1	3.6	2.9	2.5	2.7	3.2	0.7	3.6	-2.2
19	0.7	1.1	0.6	-0.2	-1.1	-1.7	-2.3	-2.9	-3.1	-2.6	-2.0	-2.0	-2.0	-2.2	-1.6	-1.1	-2.8	-3.6	-4.0	-4.3	-4.4	-4.1	-3.8	-3.9	-2.2	1.1	-4.4
20	-4.4	-4.6	-4.7	-4.9	-5.2	-5.4	-5.4	-5.6	-5.0	-3.4	-3.9	-3.5	-1.5	-1.0	-1.2	-1.9	-1.7	-1.3	-1.2	-1.1	-1.5	-1.5	-2.5	-2.8	-3.1	-1.0	-5.6
21	-2.4	-2.8	-3.1	-4.1	-4.2	-4.1	-3.2	-3.4	-3.6	-3.3	-3.1	-3.4	-3.2	-3.0	-3.7	-4.0	-4.1	-4.1	-4.4	-5.1	-5.8	-6.0	-6.3	-7.0	-4.1	-2.4	-7.0
22	-8.0	-8.2	-9.7	-10.2	-11.6	-12.1	-12.1	-13.1	-12.8	-12.4	-12.0	-11.4	-10.5	-9.8	-9.3	-9.1	-9.0	-8.7	-8.6	-8.3	-8.9	-9.0	-9.0	-9.0	-10.1	-8.0	-13.1
23	-9.6	-9.7	-9.6	-10.1	-10.3	-10.7	-11.2	-11.6	-11.5	-11.7	-11.6	-11.4	-11.2	-11.2	-10.9	-10.7	-10.5	-10.2	-10.3	-10.6	-10.7	-11.7	-11.6	-12.2	-10.9	-9.6	-12.2
24	-12.3	-12.2	-12.1	-12.2	-12.7	-13.0	-13.5	-14.0	-14.3	-13.8	-13.4	-13.0	-12.5	-12.3	-11.9	-11.3	-11.1	-11.2	-11.0	-11.1	-11.1	-11.1	-11.1	-11.1	-12.2	-11.0	-14.3
25	-10.9	-11.0	-10.9	-10.7	-9.8	-9.4	-9.8	-10.3	-11.0	-11.2	-11.1	-10.9	-10.4	-10.1	-9.9	-9.4	-9.0	-10.3	-11.0	-12.2	-14.5	-15.4	-16.0	-17.3	-11.4	-9.0	-17.3
26	-17.8	-19.5	-20.2	-20.7	-21.3	-22.2	-22.3	-22.7	-22.8	-23.8	-22.7	-21.0	-19.5	-18.6	-17.1	-16.5	-16.2	-16.4	-15.4	-15.3	-15.8	-15.8	-16.5	-17.1	-19.1	-15.3	-23.8
27	-16.3	-16.8	-16.2	-16.6	-17.0	-16.7	-16.4	-16.3	-16.5	-15.7	-14.4	-13.4	-12.2	-11.2	-10.2	-9.8	-9.1	-8.6	-8.2	-7.8	-7.3	-7.0	-7.0	-5.5	-12.3	-5.5	-17.0
28	-5.6	-6.8	-8.0	-9.0	-9.8	-10.6	-11.5	-12.3	-12.8	-13.2	-13.3	-13.4	-13.7	-13.8	-13.7	-13.8	-14.4	-15.6	-16.6	-17.5	-18.5	-19.0	-19.5	-20.2	-13.4	-5.6	-20.2
Avg	-9.9	-9.9	-10.1	-10.2	-10.6	-10.7	-10.8	-11.0	-10.9	-10.7	-10.2	-9.5	-8.9	-8.5	-8.0	-8.0	-8.1	-8.4	-8.8	-9.0	-9.5	-9.6	-9.9	-10.2	-9.6	-6.4	-13.3
Max	4.6	5.0	5.5	3.6	1.6	1.8	1.4	1.3	2.2	3.2	4.6	4.6	5.4	6.5	6.3	5.2	5.1	5.2	4.8	4.0	3.1	3.2	3.0	3.8	1.6	6.5	-1.1
Min	-29.2	-28.8	-29.0	-29.8	-31.0	-31.4	-31.7	-32.6	-32.3	-32.7	-31.8	-30.9	-29.7	-28.6	-27.6	-27.4	-27.1	-27.2	-27.9	-27.5	-28.1	-28.4	-29.0	-30.1	-29.5	-26.8	-32.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-20.8	-21.1	-21.3	-21.6	-21.6	-21.7	-22.2	-22.4	-22.7	-22.6	-22.0	-21.6	-20.9	-20.5	-20.2	-19.9	-20.3	-19.7	-19.8	-20.1	-20.2	-20.1	-20.1	-20.2	-21.0	-19.7	-22.7
2	-20.2	-20.9	-20.8	-20.5	-20.0	-20.2	-19.9	-19.7	-19.4	-19.0	-18.1	-17.2	-16.1	-15.3	-14.3	-13.4	-12.8	-12.3	-11.8	-11.6	-11.1	-11.0	-10.7	-10.5	-16.1	-10.5	-20.9
3	-10.2	-10.7	-9.3	-9.8	-7.7	-2.9	-2.1	0.2	2.7	3.7	4.7	4.6	4.9	4.5	3.6	3.3	4.2	3.9	3.6	2.8	2.4	2.7	3.0	3.1	0.2	4.9	-10.7
4	2.8	2.5	1.8	2.2	2.6	2.0	1.0	0.9	0.2	0.3	2.0	3.0	3.0	4.8	5.3	5.6	5.8	5.1	4.2	4.1	3.4	3.5	2.6	2.1	2.9	5.8	0.2
5	1.7	1.6	1.7	1.8	2.4	2.9	3.0	3.1	3.6	2.7	2.1	4.4	6.4	5.7	5.6	5.8	6.5	6.0	5.1	4.9	5.0	4.5	3.7	4.2	3.9	6.5	1.6
6	4.2	5.1	4.9	5.1	5.7	3.8	3.0	2.5	2.4	3.6	3.3	4.1	4.0	4.7	5.2	5.8	5.4	3.5	2.8	2.6	2.5	2.2	2.2	2.2	3.8	5.8	2.2
7	1.7	1.3	1.6	1.9	1.9	1.9	1.9	1.6	1.9	3.1	3.8	4.3	4.7	4.9	4.8	4.6	4.4	4.6	4.4	4.2	4.1	3.9	3.5	2.8	3.2	4.9	1.3
8	2.8	2.5	1.5	0.8	0.0	-0.7	-2.1	-2.1	-2.1	-1.8	-0.1	1.0	2.5	3.1	3.2	4.5	4.6	4.1	4.7	5.4	4.7	6.4	6.9	7.0	2.4	7.0	-2.1
9	7.8	8.5	8.3	7.7	8.1	7.8	6.8	6.7	6.9	7.1	6.9	7.7	7.8	7.6	7.7	8.7	9.1	8.6	9.0	6.7	6.0	6.0	4.8	3.3	7.3	9.1	3.3
10	3.8	3.9	3.9	2.8	2.1	1.6	0.9	0.4	0.4	0.7	1.7	2.1	2.7	3.1	3.2	3.3	3.6	3.6	3.5	3.3	1.8	1.5	1.2	0.6	2.3	3.9	0.4
11	0.3	0.2	0.3	0.2	0.2	0.2	-0.2	-1.2	-0.6	0.0	0.7	2.4	3.4	3.6	3.9	4.5	4.6	4.4	3.4	2.6	0.4	0.6	0.4	0.4	1.4	4.6	-1.2
12	0.1	-0.8	-1.3	-1.5	-1.9	-1.8	-2.3	-2.3	-2.8	-1.1	0.6	2.0	3.4	4.7	5.8	6.6	6.9	7.4	6.0	4.4	2.3	2.0	0.9	0.5	1.6	7.4	-2.8
13	-0.7	-1.5	-1.9	-3.8	-3.6	-4.0	-4.6	-4.8	-3.9	-2.3	-0.3	2.4	6.1	6.6	7.0	7.7	8.0	7.8	6.6	5.5	4.6	4.9	2.9	2.5	1.7	8.0	-4.8
14	2.0	0.9	-0.7	-1.8	-1.6	-1.9	-2.1	-2.5	-2.8	-1.8	-0.5	0.7	1.6	4.7	5.2	4.8	4.8	4.8	3.5	2.8	2.7	1.7	2.2	2.5	1.2	5.2	-2.8
15	2.6	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.8	2.5	3.4	4.3	5.3	5.9	5.9	6.5	5.4	4.6	3.9	2.9	3.2	2.5	1.8	2.1	3.3	6.5	1.4
16	2.2	2.6	2.0	2.2	2.3	3.2	4.2	4.0	6.7	9.1	10.3	11.0	12.0	12.9	13.2	12.6	12.2	11.4	11.1	10.0	8.6	7.2	6.5	3.8	7.6	13.2	2.0
17	4.3	2.7	1.6	2.7	3.4	3.0	1.9	2.2	2.3	1.2	0.6	1.2	1.9	2.2	1.0	0.6	0.4	1.7	0.8	-0.6	-0.2	-0.3	-0.5	-0.7	1.4	4.3	-0.7
18	-1.4	-1.5	-0.9	-1.0	-1.2	-0.9	-1.2	-1.1	-1.1	-0.9	-0.5	0.0	1.0	1.4	2.0	1.8	1.3	1.0	0.2	-0.3	-0.9	-1.9	-2.1	-2.7	-0.5	2.0	-2.7
19	-3.3	-3.4	-3.3	-3.8	-3.8	-3.8	-3.8	-4.0	-4.1	-2.5	-0.8	0.8	3.0	5.0	5.5	6.1	6.3	4.2	4.1	4.5	3.6	1.6	0.9	0.7	0.4	6.3	-4.1
20	0.4	0.3	-0.1	-0.3	-0.3	-1.3	-1.6	-2.2	-2.4	-1.9	-1.0	-0.6	0.1	0.5	0.5	0.3	-0.3	-0.4	-1.7	-3.1	-3.5	-3.9	-4.4	-5.1	-1.3	0.5	-5.1
21	-5.2	-5.5	-6.1	-5.3	-6.3	-6.4	-6.2	-6.0	-5.4	-4.2	-3.1	-1.7	-0.5	0.2	0.6	1.1	0.5	0.0	-1.0	-3.1	-4.7	-5.9	-6.1	-6.7	-3.6	1.1	-6.7
22	-7.6	-8.1	-8.4	-8.9	-9.3	-9.9	-10.6	-9.9	-9.2	-8.1	-6.9	-5.5	-3.6	-1.8	-0.3	0.7	1.2	1.0	0.0	-0.9	-1.0	-0.9	-2.4	-3.0	-4.7	1.2	-10.6
23	-2.9	-2.7	-3.3	-3.3	-1.6	-2.2	-2.3	-2.0	-1.6	-0.6	0.6	1.6	2.7	3.2	4.0	4.7	4.8	4.6	3.4	2.6	2.2	1.7	0.9	-0.1	0.6	4.8	-3.3
24	-0.6	-0.9	-2.3	-2.1	-3.4	-3.7	-4.6	-4.2	-3.0	-1.6	0.2	2.5	4.5	5.3	6.4	6.8	6.6	6.8	5.6	4.8	4.3	2.2	1.2	0.9	1.3	6.8	-4.6
25	0.7	-0.5	-1.4	-1.7	-2.5	-2.7	-3.2	-2.7	-2.0	-0.6	1.4	3.1	4.9	7.4	9.8	10.9	10.8	10.5	10.3	9.2	8.1	8.2	7.2	6.8	3.8	10.9	-3.2
26	6.5	6.1	4.4	2.6	2.4	2.0	1.7	1.6	3.0	4.7	5.7	6.0	6.6	6.4	6.9	7.1	6.6	6.3	5.5	3.8	3.3	3.0	1.7	0.7	4.4	7.1	0.7
27	-0.3	-1.2	-0.7	-0.7	-0.3	-0.6	-1.0	-0.7	-1.0	-0.7	0.3	1.7	3.0	4.2	4.7	4.2	4.5	3.5	1.7	0.4	1.0	1.1	1.2	1.3	1.1	4.7	-1.2
28	1.2	0.9	0.0	0.1	0.0	0.2	0.1	0.7	1.2	2.4	4.2	5.9	7.2	8.1	8.1	8.3	8.5	8.1	7.3	6.8	6.8	6.0	5.9	5.7	4.3	8.5	0.0
29	5.5	5.6	6.3	6.2	4.6	3.4	1.8	2.0	1.7	1.5	2.0	2.5	2.8	4.4	5.2	5.2	5.4	5.2	4.2	4.1	3.3	2.6	1.8	2.0	3.7	6.3	1.5
30	1.7	1.3	1.2	0.6	0.7	0.4	0.6	0.2	1.9	3.0	3.5	4.2	4.9	5.5	5.8	6.4	6.5	4.5	2.5	2.1	0.5	-1.0	-1.3	-1.5	2.3	6.5	-1.5
31	-1.7	-2.0	-2.1	-2.1	-1.9	-1.9	-1.9	-1.8	-1.5	-0.7	0.6	2.3	3.6	4.4	5.0	5.2	5.5	5.4	3.7	3.3	1.8	1.7	0.4	-0.2	1.0	5.5	-2.1
Avg	-0.7	-1.0	-1.4	-1.6	-1.6	-1.7	-2.0	-2.0	-1.6	-0.8	0.2	1.3	2.4	3.1	3.6	3.9	3.9	3.6	2.8	2.1	1.5	1.1	0.5	0.1	0.6	4.5	-3.2
Max	7.8	8.5	8.3	7.7	8.1	7.8	6.8	6.7	6.9	9.1	10.3	11.0	12.0	12.9	13.2	12.6	12.2	11.4	11.1	10.0	8.6	8.2	7.2	7.0	7.6	13.2	3.3
Min	-20.8	-21.1	-21.3	-21.6	-21.6	-21.7	-22.2	-22.4	-22.7	-22.6	-22.0	-21.6	-20.9	-20.5	-20.2	-19.9	-20.3	-19.7	-19.8	-20.1	-20.2	-20.1	-20.1	-20.2	-21.0	-19.7	-22.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.00	0.01	0.05	-0.02	-0.04	-0.01	0.04	-0.03	-0.05	-0.09	-0.12	-0.13	-0.20	-0.19	-0.12	0.04	0.24	0.48	0.33	0.36	0.78	0.84	0.64	0.62	0.14	0.84	-0.20
2	0.41	1.28	0.68	0.15	0.19	0.08	0.37	0.51	0.30	0.18	-0.18	-0.30	-0.28	-0.23	-0.21	0.25	0.94	0.03	0.08	0.48	0.73	0.69	0.36	0.68	0.30	1.28	-0.30
3	0.52	0.90	0.69	0.23	0.09	-0.02	0.00	-0.03	0.11	0.00	-0.13	-0.18	-0.22	-0.18	-0.18	-0.14	-0.10	0.08	-0.01	-0.06	0.03	-0.05	0.01	0.17	0.06	0.90	-0.22
4	0.40	0.13	0.05	0.02	-0.08	-0.07	0.06	0.07	0.00	0.03	-0.13	-0.14	-0.13	-0.15	-0.14	-0.16	-0.12	-0.12	-0.10	-0.10	-0.09	-0.15	-0.15	-0.15	-0.05	0.40	-0.16
5	-0.16	-0.15	-0.32	-0.33	-0.30	-0.24	-0.17	-0.18	-0.11	-0.14	-0.30	-0.40	-0.40	-0.37	-0.36	-0.05	0.81	0.54	0.16	0.35	0.17	0.34	-0.07	-0.12	-0.07	0.81	-0.40
6	-0.18	0.43	0.51	0.39	0.51	0.38	0.33	0.33	-0.03	-0.26	-0.30	-0.36	-0.40	-0.36	-0.40	-0.27	0.47	0.62	0.33	0.04	0.12	0.23	0.20	0.43	0.12	0.62	-0.40
7	0.44	-0.03	-0.05	0.13	0.01	-0.02	0.05	0.39	0.13	0.43	-0.11	-0.19	-0.30	-0.27	-0.28	-0.23	0.11	0.63	0.40	0.53	0.25	0.50	0.99	0.75	0.18	0.99	-0.30
8	0.86	0.36	0.52	0.27	0.16	0.26	0.39	0.31	0.26	0.07	-0.27	-0.40	-0.26	-0.28	-0.20	0.09	1.42	1.20	1.00	0.73	0.49	0.25	0.54	0.55	0.35	1.42	-0.40
9	0.27	0.19	0.12	0.37	0.26	0.59	0.48	0.27	0.15	-0.06	-0.08	-0.05	-0.06	-0.05	-0.04	-0.09	-0.02	-0.01	0.14	0.12	0.04	0.61	0.54	0.69	0.18	0.69	-0.09
10	0.26	0.22	0.13	0.07	0.29	0.50	0.27	0.05	0.01	0.04	0.04	-0.01	-0.10	-0.08	-0.03	0.00	0.00	-0.03	-0.06	-0.09	-0.07	-0.10	0.16	0.24	0.07	0.50	-0.10
11	0.44	0.56	0.43	0.95	1.20	1.31	0.87	0.43	0.25	0.30	0.39	0.44	0.55	0.52	0.04	-0.55	-0.15	0.43	1.11	0.30	0.45	1.00	0.00	0.57	0.49	1.31	-0.55
12	0.13	-0.08	-0.02	0.07	0.25	0.20	0.10	0.01	0.00	-0.06	-0.04	-0.04	-0.11	-0.12	-0.10	-0.06	-0.08	-0.02	0.45	0.71	0.29	0.25	0.32	0.38	0.10	0.71	-0.12
13	0.28	0.16	0.13	0.23	0.20	0.16	0.21	0.14	0.14	0.00	0.10	0.16	0.20	0.13	0.11	0.18	0.13	0.08	0.11	0.14	0.11	0.05	0.02	0.03	0.13	0.28	0.00
14	0.05	0.13	0.10	0.00	-0.05	-0.04	-0.03	0.02	0.00	-0.04	-0.09	-0.08	-0.03	0.00	-0.02	0.10	0.10	0.31	0.45	0.72	0.81	0.68	0.36	0.35	0.16	0.81	-0.09
15	0.33	0.42	0.75	1.00	1.07	0.78	0.57	0.59	0.70	0.68	0.37	-0.17	0.09	0.03	0.01	-0.01	0.25	0.28	0.42	0.49	0.24	0.48	0.38	0.58	0.43	1.07	-0.17
16	0.54	0.36	0.77	0.70	1.70	1.10	0.83	0.57	0.36	0.30	0.28	0.27	-0.09	-0.06	-0.03	0.12	0.36	0.67	0.86	0.71	0.34	0.74	0.85	0.58	0.53	1.70	-0.09
17	0.67	0.84	0.91	1.05	1.03	1.05	0.90	0.81	0.65	0.26	0.52	-0.17	-0.14	-0.09	0.01	0.13	0.24	0.43	0.40	0.69	0.38	0.89	0.54	0.61	0.53	1.05	-0.17
18	0.96	0.77	1.05	0.70	0.47	0.25	0.70	0.50	0.35	-0.24	-0.38	-0.43	-0.39	-0.42	-0.39	-0.21	0.52	0.64	0.65	0.82	1.03	0.73	0.58	0.88	0.38	1.05	-0.43
19	1.26	0.74	0.94	0.83	1.25	1.36	1.07	1.30	0.85	-0.11	-0.39	-0.36	-0.24	1.12	-0.10	0.42	0.42	0.68	0.49	0.38	0.43	0.14	0.53	0.61	0.57	1.36	-0.39
20	0.62	0.61	1.17	0.59	0.61	0.36	0.36	0.76	0.32	-0.28	-0.45	-0.51	-0.58	-0.57	-0.43	-0.38	0.53	0.76	1.03	0.89	0.63	0.56	1.59	0.46	0.36	1.59	-0.58
21	0.50	0.85	0.40	0.76	0.89	0.67	0.47	1.02	1.12	-0.23	-0.43	-0.51	-0.49	-0.48	-0.47	-0.38	0.51	1.36	0.93	1.40	0.46	0.43	0.56	0.94	0.43	1.40	-0.51
22	0.97	0.60	0.54	0.63	0.71	0.57	0.19	0.29	0.78	0.15	0.11	-0.03	-0.30	-0.26	-0.27	-0.18	0.02	0.47	0.43	0.65	0.36	0.34	0.33	0.23	0.31	0.97	-0.30
23	0.10	0.02	0.23	0.16	0.45	0.32	0.08	-0.06	0.33	-0.38	-0.53	-0.50	-0.51	-0.40	-0.37	-0.52	0.11	1.20	0.39	0.50	0.50	0.87	0.64	1.24	0.16	1.24	-0.53
24	0.93	1.05	0.25	0.34	0.72	0.43	0.50	0.34	0.20	-0.17	-0.37	-0.62	-0.51	-0.50	-0.46	0.20	0.47	0.62	0.75	0.82	0.70	0.37	0.45	0.46	0.29	1.05	-0.62
25	0.79	1.25	0.90	0.51	0.76	0.61	0.80	0.81	0.66	-0.11	-0.39	-0.49	-0.37	-0.32	-0.24	-0.20	0.05	0.64	0.75	0.84	0.35	0.49	0.99	1.33	0.43	1.33	-0.49
26	1.74	0.57	0.20	0.47	0.57	0.45	0.58	0.63	0.34	0.65	-0.04	-0.20	-0.08	0.04	-0.06	-0.04	-0.06	-0.05	-0.09	-0.04	0.03	0.02	0.07	0.24	0.25	1.74	-0.20
27	0.29	0.26	0.23	0.18	0.11	0.25	0.43	0.82	0.45	-0.23	-0.32	-0.46	-0.34	-0.50	-0.24	-0.26	0.45	0.59	0.96	1.07	1.02	1.02	0.44	1.18	0.31	1.18	-0.50
28	0.66	0.85	1.00	0.62	0.53	0.97	0.52	0.71	0.82	0.05	-0.46	-0.46	-0.32	-0.45	-0.33	-0.02	0.61	0.38	0.36	0.17	0.15	0.12	-0.01	-0.05	0.27	1.00	-0.46
29	0.01	0.00	-0.06	-0.02	0.00	0.02	-0.15	-0.11	0.00	0.00	-0.06	0.37	-0.03	0.04	-0.08	0.06	0.18	0.34	0.33	0.15	0.34	0.87	0.15	0.01	0.10	0.87	-0.15
30	0.02	0.00	-0.12	-0.15	-0.14	-0.15	-0.15	-0.15	-0.16	-0.18	-0.25	-0.26	-0.35	-0.31	-0.27	-0.20	-0.17	-0.15	0.08	0.02	0.06	0.15	0.16	0.04	-0.11	0.16	-0.35
31	-0.02	0.02	0.02	0.23	0.25	0.00	-0.02	0.08	-0.02	0.02	-0.10	-0.24	-0.37	-0.39	-0.19	0.18	0.21	0.68	1.14	0.93	0.98	0.11	0.13	-0.11	0.15	1.14	-0.39
Avg	0.45	0.43	0.39	0.36	0.44	0.39	0.34	0.36	0.29	0.02	-0.13	-0.21	-0.22	-0.17	-0.19	-0.07	0.27	0.44	0.46	0.47	0.39	0.43	0.40	0.47	0.24	1.01	-0.31
Max	1.74	1.28	1.17	1.05	1.70	1.36	1.07	1.30	1.12	0.68	0.52	0.44	0.55	1.12	0.11	0.42	1.42	1.36	1.14	1.40	1.03	1.02	1.59	1.33	0.57	1.74	0.00
Min	-0.18	-0.15	-0.32	-0.33	-0.30	-0.24	-0.17	-0.18	-0.16	-0.38	-0.53	-0.62	-0.58	-0.57	-0.47	-0.55	-0.17	-0.15	-0.10	-0.10	-0.09	-0.15	-0.15	-0.15	-0.11	0.16	-0.62

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-0.15	-0.13	-0.09	-0.06	-0.04	0.01	0.08	0.08	0.24	0.19	-0.07	-0.26	-0.23	-0.22	-0.19	0.13	0.55	0.38	0.85	0.81	0.56	0.85	0.79	0.01	0.17	0.85	-0.26
2	-0.02	0.51	0.46	0.15	0.02	-0.01	0.20	0.18	-0.06	0.10	-0.02	-0.15	-0.23	-0.25	-0.14	0.07	0.06	0.35	0.53	0.45	0.56	0.29	0.75	0.73	0.19	0.75	-0.25
3	0.38	0.47	0.20	0.53	-0.08	-0.12	-0.11	-0.11	-0.16	-0.18	-0.22	-0.27	-0.23	-0.23	-0.27	-0.13	-0.08	0.28	0.50	0.24	0.18	0.40	0.71	0.34	0.08	0.71	-0.27
4	0.25	0.27	0.31	0.66	0.56	1.10	1.03	0.88	0.59	0.22	-0.02	-0.15	-0.16	-0.24	-0.25	-0.21	0.07	0.21	0.36	0.15	0.15	0.28	0.35	0.78	0.30	1.10	-0.25
5	0.78	0.54	0.99	0.24	0.30	0.32	0.23	0.71	0.51	0.09	0.05	-0.16	-0.24	-0.14	-0.09	-0.07	0.25	0.59	0.32	0.62	0.40	0.56	0.13	0.33	0.30	0.99	-0.24
6	0.14	0.85	0.28	0.30	0.33	0.39	0.36	0.36	0.17	0.37	0.27	-0.23	-0.31	-0.26	-0.13	-0.19	0.34	0.35	0.44	0.31	0.46	0.49	0.64	1.24	0.29	1.24	-0.31
7	0.37	0.25	-0.03	-0.10	0.00	-0.04	0.30	0.02	0.05	-0.21	-0.28	-0.35	-0.44	-0.24	-0.39	-0.15	0.22	0.82	0.98	0.93	0.57	0.95	1.12	0.56	0.20	1.12	-0.44
8	0.66	0.48	0.49	-0.12	0.36	0.45	0.81	1.07	-0.08	-0.15	-0.22	-0.31	-0.31	-0.28	-0.02	0.23	0.59	0.45	0.14	0.17	0.04	0.09	0.02	-0.07	0.19	1.07	-0.31
9	-0.15	-0.17	-0.15	-0.13	-0.12	-0.07	-0.09	-0.11	-0.07	-0.05	-0.06	-0.27	-0.28	-0.39	-0.35	-0.25	-0.09	0.03	-0.01	0.18	0.12	0.07	0.19	0.23	-0.08	0.23	-0.39
10	0.01	-0.05	-0.15	-0.09	-0.08	-0.14	-0.12	-0.20	-0.15	0.02	0.03	-0.27	-0.31	-0.25	-0.11	0.01	0.04	0.54	0.48	0.43	0.21	0.83	1.79	1.26	0.16	1.79	-0.31
11	3.15	1.75	1.39	1.08	0.27	0.54	0.38	0.30	0.34	-0.02	-0.05	0.07	0.00	0.07	0.06	0.07	0.25	0.23	0.56	1.26	1.72	0.69	0.63	0.55	0.64	3.15	-0.05
12	0.73	0.71	0.55	0.68	0.49	0.33	0.44	0.16	0.40	0.30	0.01	0.16	0.18	0.10	0.06	0.25	0.24	0.04	0.01	0.13	0.49	0.58	0.86	0.60	0.35	0.86	0.01
13	0.64	0.58	0.90	0.81	0.75	0.47	0.38	0.09	0.00	-0.03	-0.01	-0.01	0.06	0.04	0.02	0.02	-0.03	0.01	-0.07	0.15	0.00	0.09	0.21	0.82	0.25	0.90	-0.07
14	0.68	0.63	0.93	0.66	0.62	0.70	0.51	0.53	0.82	0.39	0.12	0.11	-0.08	0.22	-0.07	-0.02	0.16	-0.03	-0.03	0.03	-0.04	0.04	0.10	-0.04	0.29	0.93	-0.08
15	0.18	0.23	0.25	0.43	1.16	1.04	1.19	1.35	0.80	0.23	-0.10	-0.22	-0.15	-0.13	-0.09	0.17	0.45	0.48	0.53	0.30	0.39	0.55	0.78	0.89	0.45	1.35	-0.22
16	0.80	0.65	1.10	0.45	0.01	0.03	0.03	-0.05	-0.01	-0.01	-0.07	-0.10	-0.11	-0.13	-0.12	-0.11	-0.11	-0.05	-0.02	0.04	0.36	1.01	1.43	0.85	0.24	1.43	-0.13
17	1.26	1.31	0.58	0.56	0.52	1.28	0.91	0.56	0.50	0.26	0.20	0.18	0.18	0.23	0.17	0.07	0.04	0.07	-0.03	-0.01	0.01	0.02	0.07	-0.05	0.37	1.31	-0.05
18	0.05	0.15	0.20	0.20	0.11	0.00	-0.03	0.14	0.21	0.19	0.15	-0.14	-0.16	-0.07	-0.06	0.07	0.21	0.56	0.53	0.24	0.33	0.29	0.35	0.09	0.15	0.56	-0.16
19	-0.08	-0.06	-0.05	-0.07	-0.09	-0.07	0.05	0.08	0.09	0.01	-0.05	-0.09	-0.10	-0.11	-0.08	0.06	-0.04	-0.05	-0.10	-0.10	-0.09	0.00	0.06	0.09	-0.03	0.09	-0.11
20	0.12	0.27	0.39	0.36	0.37	1.16	0.70	0.40	0.22	0.08	0.10	-0.05	-0.10	-0.25	-0.07	-0.08	-0.13	-0.11	-0.03	0.07	-0.01	-0.01	-0.05	-0.08	0.14	1.16	-0.25
21	0.08	0.08	-0.01	0.12	0.01	0.12	-0.06	-0.08	-0.10	-0.06	-0.10	-0.10	-0.17	-0.11	-0.05	-0.08	-0.13	-0.11	-0.03	0.11	0.03	-0.02	0.21	0.39	-0.00	0.39	-0.17
22	1.26	1.08	0.71	0.64	0.83	0.85	0.53	0.80	0.40	0.13	0.08	0.07	-0.23	-0.23	-0.21	-0.31	-0.13	0.23	0.15	0.06	0.05	0.15	0.12	0.13	0.30	1.26	-0.31
23	0.45	0.30	0.20	0.17	0.18	0.11	0.02	-0.02	-0.09	-0.21	-0.27	-0.34	-0.34	-0.27	-0.28	-0.22	-0.20	-0.14	-0.18	-0.10	-0.10	-0.11	-0.18	-0.18	-0.08	0.45	-0.34
24	-0.20	-0.21	-0.12	-0.11	-0.07	-0.17	-0.17	-0.16	-0.15	-0.27	-0.35	-0.41	-0.35	-0.28	-0.27	-0.23	-0.27	-0.19	-0.17	-0.03	0.01	0.17	-0.09	0.01	-0.17	0.17	-0.41
25	0.03	-0.09	-0.14	0.04	0.17	-0.03	-0.02	-0.02	0.13	0.09	0.05	0.15	-0.07	-0.11	0.18	0.42	0.11	0.52	0.54	0.54	1.04	0.41	0.44	0.88	0.22	1.04	-0.14
26	1.21	0.83	0.95	2.30	1.80	0.88	0.65	0.90	0.76	1.55	0.49	-0.13	0.06	-0.18	0.44	0.51	1.73	1.05	1.00	1.01	1.62	1.76	1.34	1.87	1.02	2.30	-0.18
27	0.92	1.37	0.96	0.86	0.86	0.51	0.22	0.26	0.43	0.95	-0.17	-0.16	-0.30	-0.25	-0.31	-0.29	-0.23	-0.01	-0.04	0.11	0.10	-0.03	0.40	0.10	0.26	1.37	-0.31
28	-0.12	-0.13	-0.15	-0.16	-0.16	-0.16	-0.17	-0.15	-0.16	-0.21	-0.24	-0.23	-0.27	-0.29	-0.32	-0.30	-0.23	-0.19	-0.18	-0.19	-0.22	-0.18	-0.15	-0.15	-0.20	-0.12	-0.32
Avg	0.48	0.45	0.39	0.37	0.32	0.34	0.29	0.28	0.20	0.13	-0.03	-0.13	-0.17	-0.15	-0.11	-0.02	0.13	0.23	0.25	0.28	0.32	0.37	0.46	0.44	0.21	1.02	-0.23
Max	3.15	1.75	1.39	2.30	1.80	1.28	1.19	1.35	0.82	1.55	0.49	0.18	0.18	0.23	0.44	0.51	1.73	1.05	1.00	1.26	1.72	1.76	1.79	1.87	1.02	3.15	0.01
Min	-0.20	-0.21	-0.15	-0.16	-0.16	-0.17	-0.17	-0.20	-0.16	-0.27	-0.35	-0.41	-0.44	-0.39	-0.39	-0.31	-0.27	-0.19	-0.18	-0.19	-0.22	-0.18	-0.18	-0.18	-0.20	-0.12	-0.44

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-0.18	-0.18	-0.17	-0.15	-0.14	-0.17	-0.19	-0.17	-0.19	-0.24	-0.30	-0.26	-0.39	-0.46	-0.41	-0.33	0.10	-0.13	-0.18	-0.19	-0.21	-0.24	-0.27	-0.20	-0.22	0.10	-0.46
2	-0.03	0.59	0.44	0.16	-0.17	-0.23	-0.24	-0.27	-0.36	-0.27	-0.36	-0.48	-0.45	-0.45	-0.43	-0.41	-0.29	-0.19	-0.08	-0.17	-0.24	0.01	0.14	0.28	-0.15	0.59	-0.48
3	0.12	0.39	2.17	1.17	2.94	3.07	2.55	1.62	0.49	0.62	0.14	0.15	0.21	0.51	0.66	0.31	0.32	0.38	0.56	-0.04	0.37	0.73	0.64	0.21	0.85	3.07	-0.04
4	0.36	0.29	0.36	0.50	0.52	0.59	1.50	1.18	1.20	0.45	0.35	0.34	0.39	0.27	0.23	0.10	0.10	0.11	0.54	0.53	0.89	0.39	0.75	0.42	0.52	1.50	0.10
5	0.67	0.39	0.62	1.33	0.45	0.54	0.35	0.45	0.50	0.87	0.08	0.23	0.52	0.20	0.44	0.54	1.11	1.07	0.80	0.85	1.34	1.05	0.70	0.28	0.64	1.34	0.08
6	0.50	0.67	1.03	0.54	0.79	0.23	0.19	0.36	0.45	0.20	0.27	0.16	0.33	0.24	0.41	0.29	0.32	0.10	1.06	0.53	0.40	0.30	0.18	0.19	0.41	1.06	0.10
7	0.00	0.12	0.09	0.03	0.33	0.07	0.05	0.10	0.13	0.04	-0.03	0.03	0.10	0.11	0.13	0.22	0.23	0.23	0.15	0.13	0.14	0.14	0.14	0.10	0.12	0.33	-0.03
8	0.18	0.18	0.44	0.39	0.56	0.88	0.62	0.45	0.48	-0.14	-0.20	-0.21	-0.02	0.00	0.18	0.23	0.44	0.61	1.38	2.24	1.39	0.73	0.68	1.04	0.52	2.24	-0.21
9	2.04	1.46	0.81	0.56	0.41	0.76	0.74	0.32	0.35	0.67	0.84	0.71	0.70	1.10	1.46	1.10	0.61	0.77	0.59	0.89	0.60	0.60	0.62	0.67	0.81	2.04	0.32
10	0.33	0.43	0.25	0.27	0.02	0.00	0.02	0.00	0.10	0.32	-0.03	-0.01	0.09	0.19	0.12	0.09	0.20	0.10	0.05	0.20	0.04	-0.01	-0.02	-0.06	0.11	0.43	-0.06
11	-0.09	-0.07	-0.06	-0.03	0.01	0.01	0.12	0.37	0.04	-0.20	-0.14	0.02	0.02	0.01	0.08	0.14	0.14	0.06	0.50	0.43	1.84	0.98	0.86	0.37	0.23	1.84	-0.20
12	0.36	0.43	0.90	0.23	0.42	0.09	0.46	0.23	0.48	-0.07	-0.25	-0.18	-0.33	-0.25	-0.23	-0.18	0.12	0.26	0.98	0.91	0.42	0.36	0.58	0.49	0.26	0.98	-0.33
13	0.71	0.96	0.92	0.95	0.74	0.51	0.55	0.38	0.33	-0.02	-0.27	-0.09	0.38	0.31	0.40	0.33	0.32	0.35	0.93	1.11	1.25	0.37	0.55	0.56	0.52	1.25	-0.27
14	0.70	0.81	0.80	0.55	0.72	0.86	1.29	0.52	0.23	-0.01	-0.29	-0.43	-0.10	0.21	0.62	0.31	0.05	0.17	0.04	0.19	0.04	-0.03	0.02	0.04	0.30	1.29	-0.43
15	0.06	0.05	0.07	0.06	-0.02	-0.02	0.07	0.03	-0.13	-0.24	-0.29	-0.26	-0.23	-0.11	0.22	0.00	0.08	-0.03	0.22	0.87	0.52	1.47	1.55	0.99	0.21	1.55	-0.29
16	1.07	0.77	1.18	1.12	0.82	1.17	1.05	2.14	1.08	0.07	0.05	-0.01	-0.22	-0.16	-0.18	-0.01	0.22	0.50	0.52	0.77	1.00	0.52	0.65	0.55	0.61	2.14	-0.22
17	0.34	0.73	0.70	0.97	0.06	0.15	0.09	0.05	-0.04	-0.19	-0.23	-0.29	-0.28	-0.27	-0.23	-0.07	-0.07	0.05	-0.05	-0.05	0.00	0.14	0.22	0.20	0.08	0.97	-0.29
18	0.32	0.47	0.29	0.20	0.12	-0.04	-0.05	-0.12	-0.18	-0.23	-0.35	-0.51	-0.51	-0.59	-0.83	-0.70	-0.37	-0.33	-0.14	-0.07	0.01	0.47	0.23	0.75	-0.09	0.75	-0.83
19	1.14	0.71	0.13	0.26	0.30	0.32	0.41	0.34	-0.37	-0.38	-0.47	-0.47	-0.63	-0.96	-0.67	-0.66	-0.55	0.07	0.11	0.09	0.42	-0.01	-0.03	-0.03	-0.04	1.14	-0.96
20	-0.04	0.00	0.33	0.08	-0.03	0.03	0.00	0.04	-0.03	-0.14	-0.31	-0.42	-0.53	-0.67	-0.69	-0.66	-0.54	-0.35	-0.16	0.14	0.31	0.49	0.74	0.62	-0.07	0.74	-0.69
21	0.54	0.60	0.93	0.14	-0.03	-0.14	-0.23	-0.32	-0.51	-0.66	-0.61	-0.66	-0.75	-0.97	-0.91	-0.98	-0.46	-0.03	-0.08	0.04	-0.23	-0.25	-0.32	-0.34	-0.26	0.93	-0.98
22	-0.33	-0.26	-0.30	-0.32	-0.22	0.04	0.39	-0.23	-0.42	-0.48	-0.58	-0.53	-0.70	-0.61	-0.59	-0.66	-0.51	-0.45	0.22	0.57	0.56	0.32	0.48	0.26	-0.18	0.57	-0.70
23	-0.05	0.13	0.07	-0.04	0.05	-0.15	-0.11	-0.13	-0.17	-0.17	-0.25	-0.55	-0.81	-0.78	-0.90	-0.80	-0.58	-0.34	-0.08	0.08	0.32	0.42	0.37	0.69	-0.16	0.69	-0.90
24	0.84	1.24	1.14	0.61	0.55	0.44	0.45	-0.04	-0.48	-0.49	-0.51	-0.67	-0.86	-0.83	-0.80	-0.36	-0.07	-0.24	0.75	1.28	0.57	0.73	0.67	0.73	0.19	1.28	-0.86
25	0.18	0.49	0.33	0.20	0.19	0.18	0.23	-0.20	-0.38	-0.40	-0.53	-0.57	-0.52	-0.63	-0.62	-0.44	-0.14	0.37	0.76	0.71	0.77	0.73	0.90	0.62	0.09	0.90	-0.63
26	0.33	0.03	0.19	0.10	0.10	0.15	0.30	0.31	-0.35	-0.69	-0.74	-0.66	-0.87	-0.59	-0.73	-0.69	-0.43	-0.38	0.15	1.15	0.61	0.65	0.72	0.43	-0.04	1.15	-0.87
27	0.36	0.71	0.20	0.10	-0.02	0.11	0.16	0.00	-0.21	-0.19	-0.25	-0.39	-0.66	-0.66	-0.69	-0.48	-0.43	-0.12	-0.08	0.20	0.30	0.18	0.16	0.36	-0.06	0.71	-0.69
28	0.16	0.45	0.76	0.38	0.60	0.07	0.29	0.29	-0.21	-0.40	-0.57	-0.94	-0.92	-0.97	-0.74	-0.47	-0.40	-0.28	0.00	0.32	0.14	0.17	0.17	0.23	-0.08	0.76	-0.97
29	0.31	0.23	0.34	0.60	0.19	0.06	-0.01	-0.11	-0.24	-0.30	-0.36	-0.34	-0.36	-0.54	-0.49	-0.37	-0.33	-0.16	0.57	0.49	0.44	0.36	0.43	0.46	0.04	0.60	-0.54
30	0.30	0.55	0.26	0.07	0.16	0.21	0.13	-0.07	-0.47	-0.52	-0.53	-0.57	-0.77	-0.83	-0.75	-0.82	-0.67	-0.35	-0.08	0.02	-0.14	-0.16	-0.18	-0.18	-0.22	0.55	-0.83
31	-0.17	0.18	0.11	-0.06	-0.08	-0.09	-0.15	-0.19	-0.30	-0.45	-0.68	-0.80	-0.80	-0.89	-0.72	-0.69	-0.55	-0.36	0.27	0.10	0.24	0.09	0.37	0.12	-0.23	0.37	-0.89
Avg	0.36	0.44	0.49	0.35	0.33	0.31	0.36	0.24	0.03	-0.12	-0.24	-0.28	-0.29	-0.29	-0.21	-0.20	-0.07	0.05	0.33	0.46	0.46	0.38	0.41	0.35	0.15	1.09	-0.45
Max	2.04	1.46	2.17	1.33	2.94	3.07	2.55	2.14	1.20	0.87	0.84	0.71	0.70	1.10	1.46	1.10	1.11	1.07	1.38	2.24	1.84	1.47	1.55	1.04	0.85	3.07	0.32
Min	-0.33	-0.26	-0.30	-0.32	-0.22	-0.23	-0.24	-0.32	-0.51	-0.69	-0.74	-0.94	-0.92	-0.97	-0.91	-0.98	-0.67	-0.45	-0.18	-0.19	-0.24	-0.25	-0.32	-0.34	-0.26	0.10	-0.98

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	64.0	96.3	127.2	291.8	315.4	221.4	92.8	24.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	51.9	315.4	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	49.6	147.9	134.4	141.2	151.2	122.0	68.9	10.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	34.7	151.2	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	72.8	157.1	329.0	419.3	266.8	91.2	55.8	20.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	59.2	419.3	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	93.6	294.2	281.8	264.8	224.9	189.7	117.9	22.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	62.5	294.2	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	121.0	128.8	319.6	358.3	335.0	270.1	168.7	24.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	72.5	358.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	57.2	133.0	175.0	218.5	233.6	250.8	138.0	15.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	51.4	250.8	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	71.5	108.8	109.8	108.0	98.3	54.8	38.4	23.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	26.0	109.8	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	30.5	171.8	318.2	202.2	286.5	147.7	92.9	26.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	53.4	318.2	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	45.1	79.2	87.6	162.8	192.8	138.9	174.7	35.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	38.4	192.8	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	31.8	92.1	154.0	237.6	271.8	225.3	179.6	51.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	52.1	271.8	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	46.2	63.9	128.0	108.3	83.0	57.6	27.4	24.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	22.8	128.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	51.9	142.1	217.5	254.0	218.7	195.7	75.7	18.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	49.7	254.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	168.0	152.1	75.9	37.1	124.6	157.0	106.5	19.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	35.3	168.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	10.6	111.6	289.8	328.4	283.2	297.7	234.4	85.8	49.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	70.6	328.4	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	81.5	233.6	333.1	264.8	268.9	230.3	196.5	47.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	69.7	333.1	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	55.5	101.3	149.8	276.2	339.8	278.6	167.9	63.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	60.4	339.8	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24.2	130.6	260.5	339.9	350.9	368.3	307.2	213.2	104.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	87.8	368.3	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	26.2	146.4	260.4	342.9	378.6	364.0	297.7	167.0	42.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	84.5	378.6	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	32.5	200.9	283.4	319.9	387.3	279.3	250.7	134.4	43.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	80.6	387.3	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	29.7	154.0	270.1	355.4	394.1	382.7	320.6	219.1	69.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	91.7	394.1	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	30.7	167.2	269.7	357.3	380.9	381.3	320.5	221.2	76.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	92.2	381.3	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	51.2	52.3	102.6	127.4	117.4	113.5	64.6	21.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	27.7	127.4	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	32.7	173.4	279.9	361.8	398.1	388.9	328.5	229.4	108.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	96.2	398.1	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24.4	135.2	273.8	362.7	398.2	382.2	326.0	225.3	80.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	92.2	398.2	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	41.0	113.9	279.1	364.8	403.6	393.1	333.7	232.7	88.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	94.0	403.6	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	9.3	19.6	43.9	50.3	50.6	65.0	97.5	62.9	11.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	17.2	97.5	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	41.9	179.7	301.2	390.9	432.5	419.4	357.0	247.8	49.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	101.1	432.5	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	49.6	183.5	291.6	355.2	417.9	445.1	357.5	183.7	54.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	97.6	445.1	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	19.9	31.0	40.5	40.3	61.8	67.4	47.2	35.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0	14.8	67.4	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	18.7	65.5	116.4	140.7	199.4	203.6	128.1	110.1	44.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	43.1	203.6	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	34.6	70.3	96.8	135.0	120.4	57.6	47.3	23.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	25.0	135.0	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	17.7	94.4	176.6	233.9	262.0	260.7	210.6	135.3	43.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	59.9	285.5	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	49.6	200.9	301.2	390.9	432.5	445.1	357.5	247.8	108.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	101.1	445.1	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	19.6	31.0	40.5	37.1	61.8	54.8	27.4	10.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	14.8	67.4	0.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	16.2	59.6	122.4	182.9	152.2	169.3	187.2	175.8	110.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	49.3	187.2	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	14.2	47.9	89.3	122.7	149.4	163.0	134.8	95.4	42.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	36.1	163.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	17.7	64.1	119.6	190.6	196.2	220.6	208.0	138.7	83.1	17.1	0.0	0.0	0.0	0.0	0.0	0.0	52.3	220.6	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	71.4	192.9	319.7	400.7	394.5	449.6	401.0	262.5	94.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0	108.5	449.6	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	56.4	180.1	329.1	427.2	467.2	462.1	398.6	291.8	151.2	9.3	0.0	0.0	0.0	0.0	0.0	0.0	115.6	467.2	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	78.6	222.2	347.2	438.9	482.7	472.8	411.7	298.9	144.8	10.2	0.0	0.0	0.0	0.0	0.0	0.0	121.3	482.7	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	34.4	125.3	170.7	448.6	461.5	437.2	432.5	312.5	164.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	108.3	461.5	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	14.1	50.9	133.2	339.0	333.7	433.1	421.6	247.8	103.5	16.5	0.0	0.0	0.0	0.0	0.0	0.0	87.3	433.1	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	26.6	97.4	162.5	146.3	125.3	171.6	151.4	110.5	34.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0	43.1	171.6	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	12.6	39.5	53.9	102.5	127.2	119.6	85.3	66.4	41.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	27.3	127.2	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	36.1	63.3	142.0	394.7	503.8	412.1	487.8	369.1	186.5	17.2	0.3	0.0	0.0	0.0	0.0	0.0	109.0	503.8	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	28.2	94.0	202.9	272.6	467.6	660.0	518.4	330.1	176.1	19.2	0.7	0.3	0.4	0.4	0.3	0.3	115.5	660.0	0.0
13	0.4	0.3	0.3	0.4	0.3	0.3	0.3	2.5	39.8	209.9	300.9	417.7	508.8	278.8	480.9	413.0	97.1	31.3	0.8	0.7	0.8	0.9	0.9	0.8	116.2	508.8	0.3
14	0.3	0.1	0.0	0.0	0.0	0.0	0.0	2.3	27.1	71.4	164.9	245.8	229.3	296.2	265.3	131.3	76.9	15.9	0.5	0.0	0.0	0.0	0.0	0.0	63.6	296.2	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	75.0	211.9	384.6	426.5	376.1	278.0	202.9	117.4	61.2	14.2	0.4	0.0	0.0	0.0	0.0	0.0	89.7	426.5	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	40.2	179.6	272.7	255.8	510.1	336.6	545.9	392.5	198.7	44.6	0.8	0.0	0.0	0.0	0.0	0.0	115.8	545.9	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	53.6	181.3	346.5	418.8	492.6	388.5	390.0	287.1	131.0	20.2	0.6	0.0	0.0	0.0	0.0	0.0	113.1	492.6	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	38.1	119.0	259.2	472.0	349.8	345.9	222.5	169.0	117.0	29.8	0.9	0.0	0.0	0.0	0.0	0.0	88.7	472.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	71.6	243.0	298.1	262.8	470.3	424.8	383.7	254.5	66.7	24.6	0.3	0.0	0.0	0.0	0.0	0.0	104.7	470.3	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	58.0	156.1	219.7	245.9	299.3	279.3	239.7	150.4	80.1	30.4	1.1	0.0	0.0	0.0	0.0	0.0	73.6	299.3	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	48.8	314.6	264.8	487.4	519.1	371.3	209.5	166.6	94.3	14.9	0.7	0.0	0.0	0.0	0.0	0.0	104.0	519.1	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	75.3	213.1	256.8	351.6	404.4	414.9	374.8	264.7	142.5	76.3	1.4	0.0	0.0	0.0	0.0	0.0	107.8	414.9	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	41.9	87.0	139.6	182.5	197.2	184.2	128.2	94.6	46.6	17.5	0.3	0.0	0.0	0.0	0.0	0.0	46.9	197.2	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	88.1	180.8	269.6	364.2	460.8	378.9	429.9	313.3	129.6	33.0	0.7	0.0	0.0	0.0	0.0	0.0	110.6	460.8	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	88.4	283.2	416.8	562.8	608.5	596.1	529.6	414.8	261.5	79.4	2.1	0.0	0.0	0.0	0.0	0.0	160.3	608.5	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	163.8	330.8	462.9	568.1	611.2	593.1	530.0	406.3	251.0	46.7	3.0	0.0	0.0	0.0	0.0	0.0	166.1	611.2	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	104.3	246.9	450.9	367.4	353.0	238.1	174.8	172.4	93.8	32.7	1.4	0.0	0.0	0.0	0.0	0.0	93.8	450.9	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	82.1	178.0	246.2	307.6	340.2	316.5	393.4	248.0	113.1	36.2	2.3	0.0	0.0	0.0	0.0	0.0	94.9	393.4	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	53.7	158.7	248.1	335.8	378.3	353.3	333.5	239.1	117.7	24.7	0.7	0.0	0.0	0.0	0.0	0.0	93.7	410.5	0.0
Max	0.4	0.3	0.3	0.4	0.3	0.3	0.3	20.2	163.8	330.8	462.9	568.1	611.2	660.0	545.9	414.8	261.5	79.4	3.0	0.7	0.8	0.9	0.9	0.8	166.1	660.0	0.3
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	12.6	39.5	53.9	102.5	125.3	119.6	85.3	66.4	34.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	27.3	127.2	0.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	73.1	174.9	263.9	372.1	456.5	454.3	371.3	256.6	222.9	59.4	2.9	0.0	0.0	0.0	0.0	0.0	113.3	456.5	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	107.6	262.7	377.6	469.0	552.9	479.5	373.7	273.5	155.4	47.0	3.0	0.0	0.0	0.0	0.0	0.0	130.1	552.9	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	103.0	277.2	473.3	425.9	373.5	403.5	208.4	236.7	267.9	41.3	1.4	0.0	0.0	0.0	0.0	0.0	118.1	473.3	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	20.3	157.7	201.4	385.1	531.9	421.0	430.8	342.2	206.9	209.3	48.3	3.0	0.0	0.0	0.0	0.0	0.0	123.3	531.9	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	43.3	198.4	201.1	299.0	291.7	176.0	261.0	306.9	210.0	83.0	34.0	4.4	0.0	0.0	0.0	0.0	0.0	87.9	306.9	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	106.8	203.7	236.9	433.2	453.8	501.0	419.3	379.2	224.2	99.4	6.6	0.0	0.0	0.0	0.0	0.0	128.3	501.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24.0	143.2	286.8	365.7	357.6	444.1	637.2	602.9	410.4	242.8	102.1	5.5	0.0	0.0	0.0	0.0	0.0	150.9	637.2	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	37.1	224.4	345.2	506.8	609.0	659.5	543.5	359.5	254.7	226.1	107.7	6.1	0.0	0.0	0.0	0.0	0.0	161.7	659.5	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	27.2	76.8	190.2	257.7	291.0	289.3	237.7	346.1	224.4	187.6	70.5	3.4	0.0	0.0	0.0	0.0	0.0	91.8	346.1	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.7	76.4	154.8	253.4	249.0	259.1	148.5	139.4	128.5	80.7	36.0	6.7	0.0	0.0	0.0	0.0	0.0	64.2	259.1	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	1.0	35.9	145.1	380.0	381.8	660.0	865.0	682.1	603.1	475.8	331.1	113.2	11.0	0.0	0.0	0.0	0.0	0.0	195.2	865.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.0	26.0	187.2	406.7	545.0	639.9	680.9	665.8	598.2	479.9	322.6	146.9	8.1	0.0	0.0	0.0	0.0	0.0	196.2	680.9	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	2.0	70.0	244.8	354.2	532.0	695.9	699.7	686.5	600.1	485.5	307.8	151.2	10.7	0.0	0.0	0.0	0.0	0.0	201.7	699.7	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	1.3	63.7	105.5	183.4	273.0	313.4	313.2	237.2	164.3	163.6	194.3	66.9	7.2	0.0	0.0	0.0	0.0	0.0	87.0	313.4	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	2.1	44.9	189.9	354.1	564.3	661.9	716.0	601.6	411.0	372.9	160.3	111.7	11.3	0.0	0.0	0.0	0.0	0.0	175.1	716.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	1.6	94.8	251.1	426.5	538.0	631.2	722.3	670.0	484.4	303.6	241.8	84.1	10.2	0.0	0.0	0.0	0.0	0.0	185.8	722.3	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.9	32.3	83.4	141.6	265.1	226.4	249.0	212.6	131.0	80.5	121.7	72.6	13.8	0.0	0.0	0.0	0.0	0.0	68.0	265.1	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	6.7	51.5	137.8	251.2	406.0	566.0	450.0	569.8	709.7	453.3	290.6	169.2	22.1	0.0	0.0	0.0	0.0	0.0	170.2	709.7	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	4.4	70.3	228.6	391.1	578.4	603.3	665.8	681.0	518.2	497.6	348.3	74.9	8.8	0.0	0.0	0.0	0.0	0.0	194.6	681.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	6.2	33.8	124.8	412.3	637.7	529.9	755.7	639.6	490.6	440.2	319.2	132.2	7.2	0.0	0.0	0.0	0.0	0.0	188.7	755.7	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	5.5	56.9	314.6	457.0	528.4	700.1	776.5	701.7	616.4	539.1	303.0	105.1	14.8	0.0	0.0	0.0	0.0	0.0	213.3	776.5	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	11.6	129.2	299.9	467.0	604.4	694.8	735.3	705.5	538.7	413.5	209.2	116.0	24.1	0.0	0.0	0.0	0.0	0.0	206.2	735.3	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	4.1	43.2	188.0	421.0	738.9	755.1	723.8	728.4	681.0	599.5	367.6	225.7	33.5	0.1	0.0	0.0	0.0	0.0	229.6	755.1	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	10.9	128.1	305.9	474.2	611.4	686.6	683.6	551.9	487.6	370.1	193.0	96.6	16.6	0.1	0.0	0.0	0.0	0.0	192.4	686.6	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	11.7	124.2	227.9	336.0	520.3	468.6	498.1	572.4	530.2	304.6	166.6	85.5	21.4	0.2	0.0	0.0	0.0	0.0	161.2	572.4	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	15.2	100.3	324.1	456.9	583.8	495.2	568.6	408.5	449.7	384.0	247.9	184.3	43.5	0.4	0.0	0.0	0.0	0.0	177.6	583.8	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	6.8	32.2	47.5	91.8	259.6	294.9	403.8	407.3	363.5	344.0	184.2	92.5	9.1	0.4	0.0	0.0	0.0	0.0	105.7	407.3	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	6.7	79.3	194.8	320.3	481.1	695.8	676.6	637.4	327.2	220.5	147.9	94.7	12.8	0.1	0.0	0.0	0.0	0.0	162.3	695.8	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	3.1	15.4	35.4	60.2	117.9	128.4	224.2	371.6	393.3	247.6	204.3	103.1	22.1	0.4	0.0	0.0	0.0	0.0	80.3	393.3	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	15.8	170.7	374.3	352.1	504.2	452.5	520.6	457.2	423.1	503.3	308.6	132.5	15.0	0.2	0.0	0.0	0.0	0.0	176.3	520.6	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	10.4	77.2	256.1	353.7	485.4	632.5	488.7	562.1	414.5	386.6	270.6	140.6	25.7	0.4	0.0	0.0	0.0	0.0	171.0	632.5	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	4.2	55.1	178.5	302.9	437.9	502.0	532.4	511.2	432.4	343.4	230.3	101.5	12.6	0.1	0.0	0.0	0.0	0.0	151.9	577.2	0.0
Max	0.0	0.0	0.0	0.0	0.0	0.0	15.8	170.7	374.3	474.2	738.9	755.1	865.0	728.4	709.7	599.5	367.6	225.7	43.5	0.4	0.0	0.0	0.0	0.0	229.6	865.0	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	35.4	60.2	117.9	128.4	176.0	148.5	131.0	80.5	80.7	34.0	1.4	0.0	0.0	0.0	0.0	0.0	64.2	259.1	0.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9													Ca	Ca	Ca	Ca	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	PZ	PZ	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
February 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	AZ	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	AZ	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	Au	Au	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.028	0.000
13	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.028	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.028	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	AZ	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	PZ	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
January 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
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26																											
27																											
28																											
29																											
30																											
31																											
Avg																											
Max																											
Min																											

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
February 2014

Day	<< Hour >> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1																											
2																											
3													Ca	25.96	25.97	25.99	26.00	26.02	26.05	26.07	26.09	26.11	26.12	26.13	26.05	26.13	25.96
4	26.15	26.16	26.17	26.18	26.19	26.20	26.21	26.23	26.25	26.26	26.28	26.28	26.27	26.25	26.25	26.25	26.26	26.28	26.29	26.31	26.32	26.34	26.35	26.36	26.25	26.36	26.15
5	26.37	26.38	26.39	26.40	26.41	26.41	26.41	26.42	26.44	26.45	26.44	26.44	26.41	26.39	26.37	26.35	26.35	26.35	26.35	26.35	26.35	26.35	26.33	26.32	26.38	26.45	26.32
6	26.31	26.30	26.29	26.27	26.26	26.26	26.24	26.24	26.23	26.23	26.22	26.19	26.16	26.13	26.09	26.06	26.04	26.02	26.00	25.98	25.97	25.95	25.93	25.91	26.14	26.31	25.91
7	25.89	25.85	25.82	25.80	25.80	25.79	25.78	25.77	25.77	25.78	25.79	25.79	25.79	25.79	25.79	25.80	25.81	25.82	25.84	25.84	25.85	25.84	25.82	25.80	25.81	25.89	25.77
8	25.80	25.78	25.77	25.77	25.78	25.80	25.83	25.87	25.91	25.96	26.00	26.03	26.03	26.04	26.04	26.05	26.05	26.05	26.06	26.06	26.05	26.03	26.02	26.00	25.95	26.06	25.77
9	25.99	25.97	25.93	25.92	25.93	25.93	25.96	25.99	26.01	26.02	26.03	26.03	26.02	26.01	26.00	26.01	26.01	26.01	26.01	26.01	26.02	26.02	26.02	26.02	25.99	26.03	25.92
10	26.03	26.03	26.03	26.03	26.03	26.04	26.05	26.06	26.07	26.09	26.09	26.09	26.09	26.08	26.06	26.05	26.03	26.02	26.02	26.01	25.98	25.97	25.97	25.96	26.04	26.09	25.96
11	25.94	25.92	25.91	25.90	25.88	25.88	25.85	25.83	25.82	25.83	25.87	25.91	25.92	25.94	25.95	25.97	25.99	26.01	26.04	26.05	26.04	26.03	26.01	25.98	25.94	26.05	25.82
12	25.97	25.93	25.90	25.85	25.80	25.75	25.71	25.68	25.66	25.63	25.61	25.62	25.61	25.62	25.64	25.68	25.72	25.75	25.77	25.79	25.80	25.80	25.80	25.80	25.75	25.97	25.61
13	25.79	25.77	25.75	25.74	25.72	25.69	25.66	25.69	25.71	25.73	25.75	25.77	25.79	25.80	25.81	25.83	25.86	25.89	25.93	25.97	25.97	25.97	25.98	25.99	25.82	25.99	25.66
14	25.99	25.98	25.97	25.95	25.95	25.94	25.92	25.91	25.89	25.86	25.82	25.78	25.75	25.74	25.73	25.74	25.74	25.75	25.77	25.79	25.81	25.83	25.84	25.85	25.85	25.99	25.73
15	25.87	25.88	25.90	25.91	25.93	25.95	25.95	25.97	25.97	25.97	25.95	25.93	25.89	25.85	25.81	25.78	25.75	25.73	25.71	25.69	25.67	25.64	25.61	25.61	25.83	25.97	25.61
16	25.60	25.56	25.54	25.54	25.56	25.57	25.62	25.66	25.68	25.70	25.71	25.73	25.74	25.76	25.78	25.82	25.85	25.87	25.92	25.95	25.97	25.97	25.97	25.96	25.75	25.97	25.54
17	25.94	25.91	25.88	25.85	25.82	25.81	25.78	25.76	25.74	25.73	25.70	25.68	25.66	25.64	25.64	25.63	25.63	25.63	25.65	25.67	25.67	25.68	25.71	25.73	25.73	25.94	25.63
18	25.74	25.76	25.79	25.82	25.85	25.89	25.91	25.93	25.94	25.94	25.94	25.93	25.92	25.89	25.86	25.83	25.79	25.75	25.71	25.69	25.66	25.62	25.57	25.56	25.80	25.94	25.56
19	25.59	25.59	25.61	25.63	25.65	25.67	25.68	25.71	25.72	25.73	25.73	25.74	25.74	25.75	25.75	25.76	25.79	25.81	25.84	25.86	25.89	25.90	25.92	25.93	25.75	25.93	25.59
20	25.96	25.98	26.00	26.01	26.01	26.01	26.00	25.98	25.96	25.94	25.91	25.87	25.84	25.81	25.79	25.78	25.79	25.80	25.82	25.83	25.85	25.86	25.87	25.87	25.90	26.01	25.78
21	25.87	25.86	25.85	25.84	25.83	25.82	25.83	25.86	25.88	25.89	25.89	25.89	25.88	25.87	25.87	25.88	25.88	25.89	25.91	25.93	25.95	25.95	25.96	25.96	25.89	25.96	25.82
22	25.97	25.98	25.98	25.98	25.98	25.99	25.99	26.00	26.00	26.00	26.00	26.00	25.99	25.98	25.97	25.97	25.97	25.97	25.97	25.98	25.98	25.98	25.98	25.98	25.98	26.00	25.97
23	25.98	25.98	25.98	25.99	25.99	26.01	26.01	26.02	26.03	26.03	26.03	26.02	26.01	25.99	25.97	25.96	25.95	25.94	25.94	25.94	25.93	25.93	25.93	25.94	25.98	26.03	25.93
24	25.94	25.95	25.97	25.99	26.02	26.05	26.08	26.11	26.13	26.15	26.17	26.17	26.17	26.16	26.15	26.14	26.13	26.12	26.11	26.10	26.09	26.08	26.09	26.09	26.09	26.17	25.94
25	26.11	26.14	26.16	26.17	26.19	26.21	26.23	26.26	26.29	26.31	26.31	26.30	26.30	26.29	26.27	26.25	26.23	26.22	26.22	26.21	26.21	26.22	26.23	26.23	26.23	26.31	26.11
26	26.22	26.23	26.23	26.22	26.22	26.23	26.23	26.23	26.23	26.22	26.20	26.18	26.15	26.11	26.07	26.05	26.03	26.01	26.00	25.99	25.97	25.96	25.95	25.94	26.12	26.23	25.94
27	25.91	25.90	25.88	25.85	25.84	25.82	25.80	25.79	25.78	25.76	25.74	25.72	25.71	25.69	25.67	25.66	25.65	25.64	25.65	25.65	25.64	25.65	25.67	25.69	25.74	25.91	25.64
28	25.73	25.76	25.79	25.82	25.84	25.85	25.86	25.86	25.87	25.87	25.88	25.88	25.88	25.88	25.86	25.87	25.88	25.90	25.91	25.94	25.96	25.97	26.00	26.01	25.88	26.01	25.73
Avg	25.95	25.94	25.94	25.94	25.94	25.94	25.94	25.95	25.96	25.96	25.96	25.96	25.95	25.94	25.93	25.93	25.93	25.93	25.94	25.95	25.95	25.95	25.95	25.95	25.94	26.07	25.82
Max	26.37	26.38	26.39	26.40	26.41	26.41	26.41	26.42	26.44	26.45	26.44	26.44	26.41	26.39	26.37	26.35	26.35	26.35	26.35	26.35	26.35	26.35	26.35	26.36	26.38	26.45	26.32
Min	25.59	25.56	25.54	25.54	25.56	25.57	25.62	25.66	25.66	25.63	25.61	25.62	25.61	25.62	25.64	25.63	25.63	25.63	25.65	25.65	25.64	25.62	25.57	25.56	25.73	25.89	25.54

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
March 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.01	26.00	26.00	26.00	25.98	25.98	25.98	25.99	26.00	26.00	26.00	26.01	26.01	26.00	25.99	25.99	25.98	25.98	25.99	26.00	26.00	26.00	25.99	25.97	25.99	26.01	25.97
2	25.97	25.97	25.97	25.96	25.96	25.96	25.96	25.97	25.97	25.96	25.95	25.93	25.92	25.89	25.87	25.86	25.85	25.84	25.83	25.82	25.82	25.81	25.81	25.81	25.90	25.97	25.81
3	25.82	25.83	25.83	25.82	25.83	25.84	25.85	25.85	25.86	25.86	25.85	25.84	25.82	25.80	25.80	25.77	25.76	25.76	25.78	25.80	25.80	25.81	25.82	25.82	25.82	25.86	25.76
4	25.81	25.83	25.84	25.85	25.86	25.86	25.87	25.89	25.91	25.92	25.91	25.91	25.91	25.91	25.90	25.91	25.91	25.92	25.93	25.94	25.94	25.95	25.96	25.96	25.90	25.96	25.81
5	25.95	25.95	25.96	25.95	25.94	25.92	25.91	25.89	25.87	25.85	25.84	25.83	25.81	25.82	25.80	25.79	25.80	25.81	25.80	25.80	25.78	25.76	25.73	25.72	25.85	25.96	25.72
6	25.69	25.67	25.65	25.63	25.62	25.68	25.70	25.72	25.87	25.76	25.77	25.76	25.77	25.76	25.77	25.77	25.77	25.81	25.82	25.83	25.84	25.85	25.87	25.88	25.76	25.88	25.62
7	25.90	25.92	25.93	25.93	25.95	25.98	26.00	26.02	26.03	26.04	26.06	26.07	26.08	26.09	26.11	26.12	26.13	26.13	26.14	26.15	26.17	26.19	26.20	26.20	26.06	26.20	25.90
8	26.22	26.21	26.21	26.20	26.20	26.20	26.21	26.22	26.21	26.19	26.16	26.15	26.11	26.09	26.07	26.04	26.02	26.01	26.00	26.00	25.99	25.99	25.98	25.97	26.11	26.22	25.97
9	25.97	25.97	25.96	25.94	25.92	25.91	25.91	25.91	25.92	25.94	25.93	25.93	25.93	25.92	25.90	25.90	25.90	25.89	25.90	25.92	25.92	25.92	25.92	25.91	25.92	25.97	25.89
10	25.91	25.89	25.88	25.86	25.85	25.83	25.83	25.83	25.82	25.81	25.80	25.79	25.78	25.78	25.78	25.80	25.81	25.83	25.85	25.87	25.91	25.94	25.96	26.00	25.85	26.00	25.78
11	26.03	26.06	26.10	26.12	26.15	26.19	26.22	26.25	26.28	26.31	26.33	26.32	26.33	26.31	26.30	26.31	26.31	26.30	26.30	26.31	26.33	26.33	26.34	26.34	26.26	26.34	26.03
12	26.34	26.35	26.35	26.34	26.34	26.34	26.34	26.34	26.33	26.32	26.30	26.28	26.26	26.23	26.19	26.17	26.14	26.12	26.12	26.12	26.11	26.10	26.09	26.07	26.24	26.35	26.07
13	26.05	26.04	26.03	26.01	26.00	26.00	26.00	26.00	26.00	26.00	25.99	25.97	25.96	25.96	25.95	25.94	25.94	25.94	25.95	25.96	25.96	25.97	25.97	25.98	25.98	26.05	25.94
14	25.98	25.97	25.97	25.96	25.95	25.95	25.95	25.95	25.93	25.93	25.92	25.90	25.88	25.87	25.87	25.89	25.89	25.88	25.92	25.96	25.98	26.00	26.01	26.02	25.94	26.02	25.87
15	26.04	26.07	26.10	26.13	26.16	26.19	26.22	26.25	26.26	26.28	26.27	26.27	26.26	26.26	26.25	26.26	26.28	26.29	26.26	26.26	26.26	26.25	26.24	26.24	26.22	26.29	26.04
16	26.21	26.21	26.19	26.16	26.14	26.13	26.11	26.10	26.09	26.07	26.05	26.02	25.99	25.96	25.93	25.91	25.89	25.86	25.84	25.82	25.79	25.75	25.73	25.69	25.98	26.21	25.69
17	25.64	25.62	25.60	25.57	25.55	25.53	25.53	25.53	25.55	25.59	25.61	25.65	25.68	25.71	25.75	25.80	25.83	25.85	25.89	25.92	25.94	25.96	25.97	25.98	25.72	25.98	25.53
18	25.99	25.99	26.00	26.00	26.01	26.03	26.04	26.05	26.06	26.07	26.07	26.07	26.06	26.06	26.05	26.06	26.07	26.08	26.09	26.10	26.11	26.11	26.11	26.10	26.06	26.11	25.99
19	26.09	26.09	26.09	26.08	26.08	26.08	26.07	26.06	26.04	26.03	26.00	25.97	25.95	25.92	25.89	25.88	25.88	25.89	25.88	25.88	25.87	25.87	25.87	25.86	25.97	26.09	25.86
20	25.86	25.85	25.84	25.84	25.85	25.88	25.92	25.94	25.97	25.98	25.98	25.97	25.98	26.00	26.01	26.02	26.04	26.05	26.07	26.09	26.11	26.12	26.13	26.14	25.98	26.14	25.84
21	26.15	26.16	26.16	26.16	26.16	26.16	26.17	26.17	26.17	26.17	26.16	26.14	26.12	26.12	26.10	26.09	26.09	26.09	26.11	26.12	26.15	26.16	26.18	26.19	26.14	26.19	26.09
22	26.20	26.20	26.21	26.21	26.23	26.24	26.26	26.27	26.27	26.27	26.26	26.24	26.22	26.20	26.17	26.15	26.13	26.12	26.11	26.10	26.09	26.08	26.08	26.06	26.18	26.27	26.06
23	26.05	26.04	26.03	26.03	26.03	26.03	26.05	26.06	26.08	26.09	26.09	26.10	26.09	26.09	26.09	26.08	26.07	26.07	26.09	26.11	26.12	26.13	26.14	26.16	26.08	26.16	26.03
24	26.17	26.18	26.18	26.19	26.19	26.20	26.22	26.23	26.23	26.23	26.21	26.20	26.18	26.17	26.15	26.15	26.14	26.13	26.11	26.11	26.10	26.10	26.09	26.08	26.16	26.23	26.08
25	26.06	26.04	26.02	26.00	25.98	25.97	25.95	25.93	25.90	25.88	25.83	25.79	25.74	25.69	25.64	25.61	25.59	25.57	25.57	25.58	25.60	25.60	25.59	25.58	25.78	26.06	25.57
26	25.58	25.58	25.58	25.59	25.59	25.60	25.60	25.59	25.58	25.57	25.56	25.56	25.55	25.54	25.53	25.53	25.54	25.54	25.54	25.55	25.57	25.58	25.58	25.59	25.57	25.60	25.53
27	25.60	25.60	25.59	25.59	25.59	25.58	25.59	25.59	25.60	25.61	25.63	25.65	25.66	25.66	25.66	25.66	25.67	25.69	25.73	25.75	25.77	25.79	25.81	25.82	25.66	25.82	25.58
28	25.83	25.85	25.86	25.87	25.89	25.91	25.92	25.93	25.94	25.93	25.93	25.91	25.90	25.88	25.87	25.85	25.84	25.83	25.82	25.82	25.83	25.84	25.83	25.82	25.87	25.94	25.82
29	25.81	25.79	25.76	25.74	25.74	25.75	25.78	25.79	25.79	25.80	25.81	25.82	25.83	25.83	25.82	25.82	25.81	25.81	25.80	25.81	25.81	25.81	25.81	25.81	25.80	25.83	25.74
30	25.79	25.78	25.78	25.77	25.77	25.78	25.79	25.79	25.78	25.79	25.79	25.78	25.78	25.78	25.77	25.76	25.76	25.78	25.82	25.85	25.89	25.92	25.93	25.94	25.81	25.94	25.76
31	25.95	25.96	25.96	25.96	25.97	25.97	25.97	25.97	25.97	25.97	25.95	25.93	25.91	25.89	25.87	25.85	25.84	25.83	25.82	25.83	25.84	25.83	25.82	25.81	25.90	25.97	25.81
Avg	25.96	25.96	25.96	25.95	25.95	25.96	25.97	25.97	25.98	25.97	25.97	25.96	25.95	25.94	25.93	25.93	25.93	25.93	25.93	25.94	25.95	25.95	25.95	25.95	25.95	26.05	25.84
Max	26.34	26.35	26.35	26.34	26.34	26.34	26.34	26.34	26.33	26.32	26.33	26.32	26.33	26.31	26.30	26.31	26.31	26.30	26.30	26.31	26.33	26.33	26.34	26.34	26.26	26.35	26.09
Min	25.58	25.58	25.58	25.57	25.55	25.53	25.53	25.53	25.55	25.57	25.56	25.56	25.55	25.54	25.53	25.53	25.54	25.54	25.54	25.55	25.57	25.58	25.58	25.58	25.57	25.60	25.53

APPENDIX B: PERFORMANCE AUDIT REPORTS FIRST QUARTER 2014

Montana Limestone Resources Drummond PSD Ambient Air Monitoring Station Low Volume Sampler - Performance Audit Data Sheet			
Analyzer: $PM_{2.5}$ Collocated – BGI PQ200		Serial Number: 1549	
Auditor: Don Milmine	Location (field or lab): field		Site Operator: Chris Whitten
Barometric Pressure Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Barometer	Model: BGI Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 10)
Barometric Pressure	656	655.5	0.5
Thermocouple Temperature Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Temperature	Model: BGI Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient thermocouple	3.4	3.7	-0.3
Filter thermocouple	4.7	5.3	-0.6
Flow Rate Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Flowmeter	Model: BGI Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.67	16.73	-0.36 %
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.73	16.67	0.36 %
Leak Check			
Vacuum Readings (mm Hg)	Start 96	End 96	Passing Condition

Montana Limestone Resources Drummond PSD Ambient Air Monitoring Station Low Volume Sampler - Performance Audit Data Sheet			
Analyzer: $PM_{2.5}$ Reporting – BGI PQ200		Serial Number: 1036	
Auditor: Don Milmine	Location (field or lab): field		Site Operator: Chris Whitten
Barometric Pressure Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Barometer	Model: BGI Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 10)
Barometric Pressure	655	655.5	-0.5
Thermocouple Temperature Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Temperature	Model: BGI Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient thermocouple	2.4	2.7	-0.3
Filter thermocouple	2.7	3.4	-0.7
Flow Rate Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Flowmeter	Model: BGI Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.71	16.75	-0.24 %
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.75	16.67	0.48 %
Leak Check			
Vacuum Readings (mm Hg)	Start 97	End 96	Passing Condition

Montana Limestone Resources Drummond PSD Ambient Air Monitoring Station Low Volume Sampler - Performance Audit Data Sheet			
Analyzer: PM_{10} Reporting – BGI PQ200		Serial Number: 1548	
Auditor: Don Milmine	Location (field or lab): field		Site Operator: Chris Whitten
Barometric Pressure Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Barometer	Model: BGI Delta Cal	Serial Number: 999	
Reading (mm Hg)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 10)
Barometric Pressure	656	655.5	0.5
Thermocouple Temperature Sensor Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Temperature	Model: BGI Delta Cal	Serial Number: 999	
Reading (degrees Celsius)	Sampler (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient thermocouple	3.2	3.5	-0.3
Filter thermocouple	3.8	4.5	-0.7
Flow Rate Verification			
Date: 02/11/2014		Date standard last verified: 3/6/2013	
Verification Standard: Digital Flowmeter	Model: BGI Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler (a)	Audit Transfer Standard (b)	% Difference (a – b)/b*100 (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.79	-0.54 %
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference (b– c)/c*100 (must be ≤ ± 5%)
Design flow rate check	16.79	16.67	0.72 %
Leak Check			
Vacuum Readings (mm Hg)	Start 98	End 97	Passing Condition

DESCRIPTION OF SO_2 ANALYZER AUDIT PROCEDURE

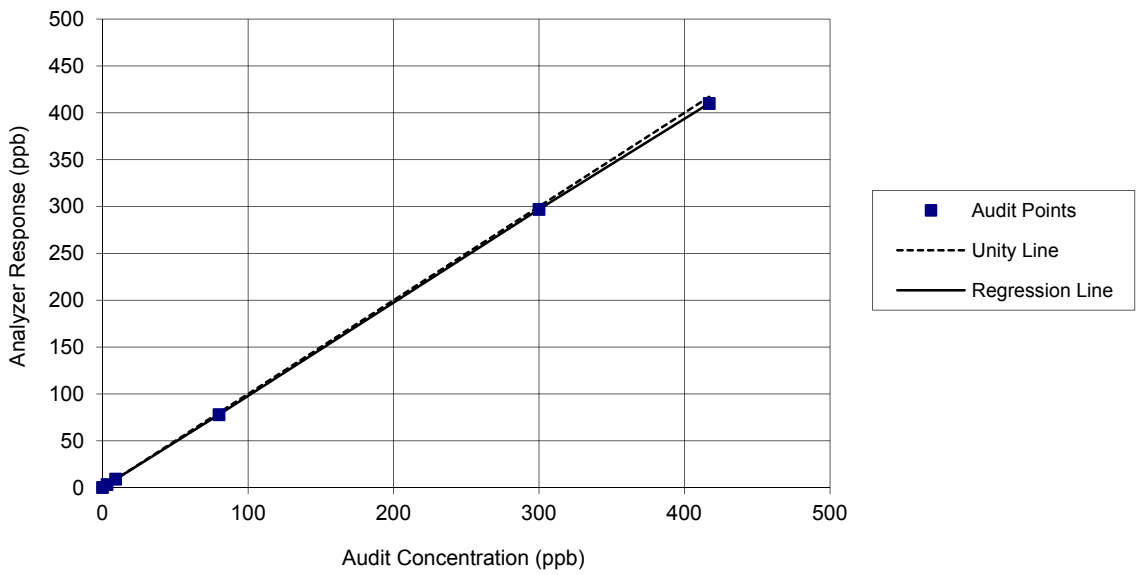
A performance audit of the Thermo Environmental Instruments SO_2 analyzer operated by Bison Engineering, Inc., Helena, for Montana Limestone Resources at their Drummond PSD monitoring station, was conducted on February 11, 2014. Audit results are presented by comparing known SO_2 concentrations (x) delivered by the audit device with concentrations (y) reported by the analyzer. Sulfur dioxide concentrations were generated by a Thermo Environmental Instruments Model 146 span gas calibrator (S/N 146t-43359-269) and a Thermo Environmental Instruments Model 111 zero air supply. The sulfur dioxide standard used for the audit was certified gas cylinder #FF19675. It has an SO_2 concentration of 4.028 ppm in nitrogen. The certification was performed by Airgas on February 19, 2013, and will expire on February 19, 2017. The analysis is traceable to NIST by comparison through GMIS cylinder CC280989 that has an SO_2 concentration of 4.877 and a certification expiration date of September 14, 2014. The analysis conforms to EPA Protocol Section No. 2.2, Procedure G-1. The cylinder is required to meet the quality assurance requirements of 40 CFR Part 58 Appendix A (October 2006).

The audit results for the Drummond Station are presented on page B-5. The table shows the percent differences between x and y for each concentration, the slope, intercept, and percent differences at full scale, and a summary of audit results. EPA's recommended linear regression criteria are listed on page B-6. Graphs of station concentrations versus audit concentrations also appear on the tables. A dashed unity line, which indicates perfect agreement between audit and station concentrations, is shown on each figure.

An examination of the audit results indicates that the SO_2 audits produced results considered excellent according to EPA's criteria for evaluating performance audits.

Montana Limestone Resources
Drummond PSD Monitoring Station
Sulfur Dioxide Performance Audit
February 11, 2014

Audit Concentration (ppb)	DAS Response (ppb)	Chart Response (ppb)	Analyzer Response (volts)	DAS Percentage Difference
417	410	No chart recorder is available at the station.	0.819	-1.68
300	297		0.595	-1.00
80	78		0.159	-2.00
9	9.1		0.0179	1.11
3	3.3		0.0069	10.00
0	0.2		0.0003	---



Linear Regression Analysis*	
Slope =	0.98474
Intercept =	0.22474
Correlation Coefficient =	0.99999
Percent Difference (full scale)** =	-1.5

*Least squares linear regression, given by y = ax + b, where y is the station concentration, x is the audit concentration, a is the slope, and b is the intercept.

**Percent difference (full scale) = [(a – 1) + b/x] * 100, where x is the operating range of the analyzer in ppb.

EPA's Suggested Linear Regression Criteria		
Slope		
Excellent	≤ ±5%	Between analyzer response and audit concentration
Satisfactory	> ±5 to ±15%	Between analyzer response and audit concentration
Unsatisfactory	≥ ±15%	Between analyzer response and audit concentration
Individual Audit Concentration Difference		
9 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
3 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
0 PPB concentration, +/- 1.5 PPB		
Intercept		
Satisfactory	≤ ±3%	of the analyzer range
Unsatisfactory	> ±3%	of the analyzer range
Correlation Coefficient		
Satisfactory	0.9950 to 1.0000	Linear analyzer response to audit concentration
Unsatisfactory	< 0.9950	Nonlinear analyzer response to audit concentration

MONTANA LIMESTONE RESOURCES, LLP DRUMMOND, MONTANA AMBIENT AIR MONITORING PROGRAM

Quarterly Data Report

Second Quarter 2014

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September 10, 2014

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume I, A Field Guide to Environmental Quality Assurance (April 1994), Volume II, Ambient Air Quality Program (May 2013), and Volume IV, Meteorological Measurements (March 2008).*

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TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 $PM_{2.5}$ PRECISION CHECK DATA 7

4.0 SULFUR DIOXIDE PRECISION CHECK DATA 9

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA 10

6.0 CALIBRATION DATA 11

7.0 PERFORMANCE AUDIT DATA 21

8.0 DATA COMPLETENESS 22

9.0 MONITORING DATA 29

LIST OF TABLES

Table 1. $PM_{2.5}$ Precision Check Data 8
Table 2. SO_2 Precision Check Data 9
Table 3. SO_2 Zero/Span Check Data 10
Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration 13
Table 5. MLR-2 PM_{10} Sampler Calibration 14
Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration 15
Table 7. Meteorological Calibration 16
Table 8. SO_2 Calibration 20
Table 9. PM_{10} Data Completeness 23
Table 10. $PM_{2.5}$ Data Completeness 23
Table 11. Monthly Data Completeness 24
Table 12. Quarterly Data Completeness 27
Table 13. Periods of Missing Data 28
Table 14. Missing Data Codes 30
Table 15. MLR-2 PM_{10} Sampling Data – $\mu g/m^3$ (LTP) 31
Table 16. MLR-1 Reporting $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting) (LTP) 32
Table 17. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate) (LTP) 33
Table 18. SO_2 Data Summary for MLR Drummond Site 34
Table 19. Monthly Wind Rose Summary, Drummond 35
Table 20. Monthly Wind Rose Summary, Drummond 36

LIST OF TABLES, CONTINUED

Table 21. Monthly Wind Rose Summary, Drummond 37
Table 22. Quarterly Wind Rose Summary, Drummond 38

LIST OF FIGURES

Figure 1. Monitoring Site Locations 2
Figure 2. Monthly Wind Rose, Drummond Site..... 39
Figure 3. Monthly Wind Rose, Drummond Site..... 40
Figure 4. Monthly Wind Rose, Drummond Site..... 41
Figure 5. Quarterly Wind Rose, Drummond Site..... 42

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Report

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) has established three ambient monitoring sites near Drummond, Montana, to measure baseline air quality and meteorology near a proposed mine.

- In August 2013, a particulate monitoring system was installed to measure particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns or less (PM_{10}).

- In September 2013, a 20-meter meteorological tower was installed to monitor wind speed, wind direction, standard deviation of wind direction, temperature at 19 meters and 2 meters, delta temperature, and solar radiation.

- In January 2014, a sulfur dioxide (SO_2) monitoring station was installed. A barometric pressure sensor was added to that site in February 2014.

- In April 2014, a relative humidity sensor was added to the meteorological tower site.

- In May 2014, a precipitation gauge was added to the sulfur dioxide (SO_2) monitoring station site.

The sites are operated by Bison Engineering, Inc. (Bison), of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the second quarter (April through June) of 2014. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations, and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. Monitoring Site Locations

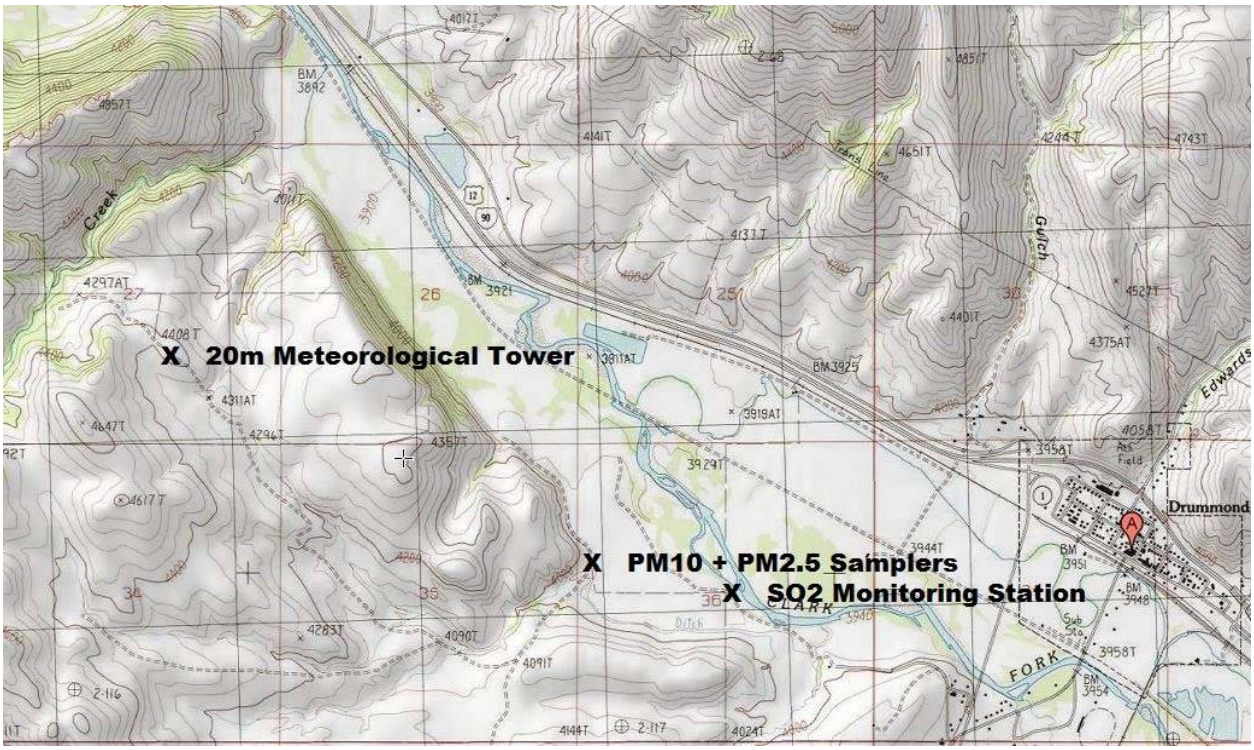


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about three weeks to complete. The meteorological instruments on the tower were in full operation and producing valid data by September 23, 2013.

The installation of the SO_2 monitor took place on January 9, 2014, and the barometric pressure sensor was added on February 3, 2014. A precipitation gauge was added on May 22, 2014. The SO_2 monitor is a Thermo Scientific Model 43i-TL and was designated as an equivalent automated method (#EQSA-0486-060) by EPA in September 2005. The range of this instrument is set to 0 – 500 ppb. The system automatically performs a zero-span check every 23 hours.

Particulate sample collection began on August 17, 2013. The $PM_{2.5}$ and PM_{10} sampling is accomplished with three BGI Model PQ200 battery-powered low volume samplers. The $PM_{2.5}$ samplers have Very Sharp Cut Cyclone (VSCC) separators. The sample filters were submitted to the Bison-Billings Office for gravimetric analysis. This monitoring procedure is similar to that employed at other State and Local Air Monitoring Stations (SLAMS).

The particulate monitoring site includes:

- **Sampler MLR-1 ($PM_{2.5}$ Reporting)**, which operates on a one-day-in-three schedule;
- **Sampler MLR-2 (PM_{10} Reporting)**, which operates on a one-day-in-three schedule; and
- **Sampler MLR-3 ($PM_{2.5}$ Duplicate)**, which operates on a one-day-in-six schedule.

Collocated results from the two $PM_{2.5}$ samplers are used to determine sampling precision statistics.

All meteorological instruments operated with no problems during the quarter. However, the scheduled quarterly calibration for first quarter could not be performed due to extreme winter weather that prevented vehicle access to the meteorological site until early April. A full calibration was performed on the meteorological instruments on April 8 and the scheduled quarterly calibration for the second quarter was performed on May 28. Both sets of calibration results are presented in this report in Table 7.

The SO_2 monitor operated with no problems during the quarter.

Don Milmine of Bison conducted performance audits of the particulate samplers, SO_2 analyzer, and the meteorological system on May 28, 2014. The audits produced satisfactory to excellent results for all instrumentation. The Bison report of the audits is presented in Appendix B.

2.1 Summary of Method for $PM_{2.5}$ and PM_{10}

The "method" for $PM_{2.5}$ and PM_{10} consists of:

- A $PM_{2.5}$ and PM_{10} sampler or analyzer designed, built and sold by a particular manufacturer to meet the design specifications found at 40 CFR Part 50, Appendix L;
- An operation or instruction manual provided by the instrument manufacturer that describes the proper use and operation of the sampler or analyzer; and
- The other operational and quality assurance requirements necessary to obtain reliable $PM_{2.5}$ and PM_{10} concentration measurements. These performance specifications are found at 40 CFR Part 53, Appendix E. Bison also prepared a Quality Assurance Project Plan for the operation of the samplers.

Bison used three BGI Incorporated (BGI) PQ200 federal reference method (FRM) samplers. The $PM_{2.5}$ samplers use the additional Very Sharp Cut Cyclone (VSCC). The PM_{10} samplers use the (BGI WE10) WINS Eliminator to convert $PM_{2.5}$ Sampler to PM_{10} FRM. These samplers have been designated by the U.S. EPA as an equivalent method for the determination of $PM_{2.5}$ and PM_{10} in ambient air. Designation No. EQPM-0202-142 has been assigned to this sampling method in the Code of Federal Regulations. This sampler is specifically designed to comply with the requirements of the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (40 CFR 50) and to facilitate sampling as specified in that document.

The BGI PQ200-VSCC is specifically designed as an equivalent method for the measurement of $PM_{2.5}$ and PM_{10}. The design specifications include:

- Operation with firmware version 3.88, 3.91, 3.89R, or 3.91R, for 24-hour sample periods;
- Operation in accordance with the Model PQ200-VSCC Instruction Manual and VSCC supplemental manual;
- Operation with sample collection filters specified in 40 CFR Part 50, Appendix L.
- Operation with or without the optional solar power supply or the optional dual filter cassette and associated lower impactor housing, where the upper filter is used for $PM_{2.5}$.

2.2 Principle of Operation of $PM_{2.5}$ and PM_{10} Samplers

The PM_{10} inlet, sample tube, VSCC, filter holder, and filter cassette are design-specified. Mechanical drawings have been made publicly available by EPA. The remainder of the reference method sampler is performance-specified and requires that:

- The sampler provides automatic control of the sample flow rate to ± 5% of 16.67 lpm.
- The sampler monitors the operational parameters and logs the ambient temperature, filter temperature, ambient barometric pressure, and system pressure every five minutes during the 24-hour sampling event.
- The logged information is available to the sampler operator during and at the end of each sample event in both visual and electronic data form.
- The microprocessor provides a digital display which updates continuously while an RS232 data output port provides the capability for logged data to be electronically output from the sampler.

In the Model PQ200-VSCC, the fixed flow rate of 16.67 lpm is maintained by a microprocessor. Temperature and pressure data are collected and corrections are made for the differences of temperature and pressure between the ambient and sampler conditions. The barometric pressure, meter pressure drop, ambient temperature, filter temperature, and meter temperature are measured and reported by the PQ200-VSCC control system. The vacuum pump and volumetric flow rate control system, flow rate measurement device, ambient and filter temperature monitoring system, timer, outdoor enclosure, and microprocessor monitoring control capability meet design and functional performance requirements as specified in Appendix L.

The air inlet which removes particulate matter larger than 10 microns, the downtube which carries the sample stream from the inlet to the secondary particle size separator (VSCC), the VSCC itself, the filter cassette, and the internal configuration of the filter holder assembly are specified explicitly by EPA in Appendix L of 40 CFR 50. The EPA specifications include design figures, and associated mechanical dimensions, tolerances, materials, surface finishes, assembly instructions and other necessary specifications.

The basic measurement approach for the EPA design is similar to that of the dichotomous sampler that has been used for over 20 years. Large particles are eliminated by gravity before reaching the inlet of this low-flow-volume sampler. The omni-directional inlet acts as an aerodynamic device that does not discriminate ambient PM_{10} under varying wind and climate conditions and provides a clean aerodynamic cut-point for particles of greater than 10 microns that enter the system.

The air sample flows through the PM_{10} inlet and then through a 12-inch length of tubing (the downtube). The downtube supports the PM_{10} inlet above the sampler shelter and transports the sample stream to the $PM_{2.5}$ particle size separator (the VSCC). This VSCC operates at a volumetric sample rate of 16.67 lpm and has a sharp aerodynamic cut-point at 2.5 micrometers. The particles greater than $PM_{2.5}$ are removed to the grit pot on the side of the VSCC. The $PM_{2.5}$ sample is ducted through the cyclone separator to the filter holder and collected on the 47 mm PTFE filter media.

Prior to transport to the field for sample collection, the filters are equilibrated to constant temperature and relative humidity conditions and are weighed in a laboratory setting. After sampling, the filters are again equilibrated to essentially the same constant temperature and humidity conditions and again weighed in the laboratory. The concentration is determined by dividing the weight difference of the filter before and after the sample is collected by the volume of air that passed through the sampler during the sample collection period.

3.0 $PM_{2.5}$ PRECISION CHECK DATA

Precision of the $PM_{2.5}$ data is evaluated by operating collocated samplers at a monitoring site. The differences between the paired measurements represent the precision of the $PM_{2.5}$ data.

The precision data from the two $PM_{2.5}$ samplers collocated at the monitoring station are given in Table 1. In accordance with EPA's policy for evaluating $PM_{2.5}$ precision data, only $PM_{2.5}$ concentrations of at least 3 $\mu g/m^3$ are included in the precision calculations. In addition, the quarterly summary statistics, as described in EPA's "Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A" are presented at the end of each table.

Table 1. $PM_{2.5}$ Precision Check Data

Second Quarter 2014			
Date	Reporting Concentration** $\mu g/m^3$	Duplicate Concentration** $\mu g/m^3$	Relative Percent Difference
4/5	1	1	0.000
4/11	3	3	0.000
4/17	3	3	0.000
4/23	1	1	0.000
4/29	2	2	0.000
5/5	2	1	66.667
5/11	2	3	-40.000
5/17	5	5	0.000
5/23	6	7	-15.385
5/29	3	3	0.000
6/4	4	4	0.000
6/10	Wi	3	NA
6/13	3	2	40.000
6/16	2	2	0.000
6/22	3	3	0.000
6/28	1	1	0.000

Second Quarter Summary Statistics*	
n =	7
$\Sigma\|d\|$ =	15.385
Σd =	-15.385
Σd^2 =	236.686
CV (%) =	6.78
25th Percentile =	0.000
75th Percentile =	0.000

*Only sampling runs where both of the $PM_{2.5}$ concentrations were at least 3 $\mu g/m^3$ were included in the calculation of the quarterly summary statistics.
**See Table 12 for an explanation of the missing data codes.

4.0 SULFUR DIOXIDE PRECISION CHECK DATA

Precision checks of the sulfur dioxide analyzers are manually performed every two weeks. Results for the second quarter are presented in Table 2. In addition, the quarterly summary statistics, as described in EPA's *Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A,* are presented.

The precision checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration (between 0.08 and 0.10 parts per million) of sulfur dioxide. The differences between the analyzer responses and the known concentrations of the test gas represent the precision of the monitoring data.

Table 2. SO_2 Precision Check Data

Drummond SO_2 Site - Second Quarter 2014			
Date	Reference Concentration (ppm)	Analyzer Response (ppm)	Percentage Difference
Apr 1	0.090	0.092	2.222
10	0.090	0.092	2.222
22	0.090	0.087	-3.333
May 6	0.090	0.087	-3.333
20	0.090	0.088	-2.222
Jun 3	0.090	0.088	-2.222
17	0.090	0.089	-1.111
Quarterly Summary Statistics			
		n =	7
		S_d =	2.400
		S_{d2} =	3.634
		$\Sigma\|d\|$ =	16.667
		Σd =	-7.778
		Σd^2 =	43.210
		AB =	2.381
		AS =	0.767
		CV (%) =	3.96
		Signed Bias =	+/-2.94
		25th Percentile =	-2.778
		75th Percentile =	0.556
		Upper 95 Percent Probability Limit =	3.59
		Lower 95 Percent Probability Limit =	-5.82

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA

Level 1 zero/span checks are manually conducted every two weeks and results for the second quarter of 2014 are given in Table 3. The zero/span checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration of sulfur dioxide between 70 and 90 percent of the full scale of the analyzer. The analyzer response is noted and the percentage difference between the analyzer response and the concentration of the test gas is calculated. Test gas containing no sulfur dioxide also is presented to the analyzer and the analyzer's response to this "zero air" is noted.

Additionally, an automatically triggered zero/span check occurs every 23 hours.

Table 3. SO_2 Zero/Span Check Data

Second Quarter 2014					
Drummond SO_2 Site					
Date	Reference Concentration (ppm)	Zero Response (ppm)	Span Response (ppm)	Zero Drift (percent of full scale)	Span Drift (percent)
Apr 1	0.400	0.000	0.410	0.00	2.50
10	0.400	0.000	0.408	0.00	2.00
22	0.400	0.000	0.398	0.00	-0.50
May 6	0.400	0.000	0.400	0.00	0.00
20	0.400	0.000	0.405	0.00	1.25
Jun 3	0.400	0.000	0.405	0.00	1.25
17	0.400	0.000	0.408	0.00	2.00

6.0 CALIBRATION DATA

6.1 Particulate Samplers

Calibration checks / adjustments to the particulate samplers are performed as follows:

- A multipoint flow calibration is performed at the time of installation, at least once per quarter, and upon failure of a single-point flow verification;
- A single-point flow verification is performed at least once per month;
- A multipoint temperature sensor verification/calibration is performed at least once per year, and upon failure of a single-point verification;
- A single-point verification of the temperature sensors is performed at least once per month;
- A single-point verification of the pressure sensor is performed at least once per month.
- Additional calibration checks/adjustments are also performed whenever there is any indication that the system is inaccurate or operating improperly, and whenever adjustments are made to the system that could affect its calibration.

Additionally, the integrity of the sampling train is verified prior to each sampling run by using the sampler internal leak test function. During this check, the pressure drop must be less than five centimeters of water over two minutes.

The results of the multipoint flow calibrations of the $PM_{2.5}$ and PM_{10} samplers conducted during the second quarter are presented in Tables 4 through 6. Results of single-point flow, temperature and pressure verifications are documented on the “MLR Particulate Monitoring Field Data Form” that is completed by the site operator prior to each sampling event. All flow, temperature and pressure checks of the particulate samplers were performed using a certified BGI Delta Cal unit.

6.2 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter: Results of the meteorological system calibrations performed during the second quarter of 2014 are given in Table 7.

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motors;
- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;

- The solar radiation sensor is certified by the manufacturer, and is verified by taking collocated measurements with a certified sensor.
- The calibration of the barometric pressure sensor (at the sulfur dioxide monitoring site) was checked against a certified standard.

The scheduled quarterly calibration for first quarter could not be performed due to extreme winter weather that prevented vehicle access to the meteorological tower until early April. A full calibration was performed on the meteorological instruments on April 8 and the scheduled quarterly calibration for second quarter was on May 28.

6.3 Sulfur Dioxide Monitor

Results of the sulfur dioxide calibration performed during the second quarter of 2014 are given in Table 8. Analyzer calibrations are carried out at the field monitoring sites by allowing the analyzer to sample an artificial test atmosphere of known concentration. During calibration, the analyzer is operated in its normal sampling mode, and the test atmosphere is passed through all filters, scrubbers, and conditioners used during normal ambient sampling. All operational adjustments to the analyzer are completed prior to calibration. All calibrations include a zero concentration and at least four upscale points spaced approximately equally over the range of the analyzer.

Calibrations are performed:

- Once per quarter;
- After an interruption of more than a few days in analyzer operation;
- Following any repairs which might affect analyzer calibration;
- Following a physical relocation of the analyzer; or
- After any other indication of significant inaccuracy of the analyzer, such as excessive zero drift or seven points in an upward or downward trend.

Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-1) AT DRUMMOND
Performed 06-06-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.70 LPM

Sampler Reading = 16.72 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.45	N/A
16.7 LPM	16.70	N/A
15.0 LPM	14.99	N/A

FLOW VERIFY (as left)

Delta Cal = 16.66 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.5	0.7	0.2
18.7	18.5	-0.2
36.7	36.6	-0.1

FILTER TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.5	0.5	0.0
18.7	18.3	-0.4
36.7	36.0	-0.7

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 658.5 mmHg

Sampler = 658 mmHg No adjustment

LEAK CHECK

Initial 101 cm
Final 100 cm Pass

Signature of Calibrator Steven R Heck

Table 5. MLR-2 PM_{10} Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1548 (MLR-2) AT DRUMMOND
Performed 06-06-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.79 LPM

Sampler Reading = 16.72 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.38	N/A
16.7 LPM	16.72	N/A
15.0 LPM	14.88	N/A

FLOW VERIFY (as left)

Delta Cal = 16.69 LPM

Sampler Reading = 16.70 LPM

AMBIENT TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.2	0.1	-0.1
18.6	18.3	-0.3
35.6	35.3	-0.3

FILTER TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.2	0.1	-0.1
18.6	18.1	-0.5
35.6	35.0	-0.6

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 658.5 mmHg

Sampler = 658 mmHg No adjustment

LEAK CHECK

Initial 101 cm
Final 101 cm Pass

Signature of Calibrator Steven R Heck

Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1549 (MLR-3) AT DRUMMOND
Performed 06-06-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.40 LPM

Sampler Reading = 16.70 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.15	18.38
16.7 LPM	16.40	16.70
15.0 LPM	14.68	15.02

FLOW VERIFY (as left)

Delta Cal = 16.54 LPM

Sampler Reading = 16.72 LPM

AMBIENT TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.1	0.0	-0.1
18.6	18.4	-0.2
37.4	37.3	-0.1

FILTER TEMPERATURE (Annual Multipoint Verification, Limit ± 2.0 °C)

Control Company Model 4000 (°C)	Sampler (°C)	Difference (°C)
0.1	0.0	-0.1
18.6	18.2	-0.4
37.4	36.7	-0.7

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 658.5 mmHg

Sampler = 658 mmHg No adjustment

LEAK CHECK

Initial 100 cm
Final 99 cm Pass

Signature of Calibrator Steven R Heck

Table 7. Meteorological Calibration

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Calibration Results: Qtr 1, 2014
(Done on April 8, 2014 because snow prevented access to tower site during first quarter)

Client: Montana Limestone Resources
Site: Drummond
Date: April 8, 2014
Performed By: Steve Heck, Bison Engineering Inc.
Tower lowered at 1130 MST Tower back up at 1320 MST

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (20 meters), N1889C (2 meters)
Calibration Device: Control Company - digital thermometer Model 4000
Serial Number : 130236679
Last certified: 4/24/2013

Temperature bath results

Calibration Value °C	20m DAS Value °C	20m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	20m - 2m DAS Diff. °C
0.0	0.18	0.18	0.18	0.18	0.00
17.7	17.62	-0.08	17.64	-0.06	-0.02
36.6	36.78	0.18	36.79	0.19	-0.01

Wind Direction Linearity Audit Device: Climatronics 101966, SN 70

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Crossarm orientation (from solar sighting): 90.2 / 270.2
Geographic coordinates for solar sighting
N 46 deg 41 min, W 113 deg 13 min
Calculated sun position
151.2 deg at 1118 MST
Sensor response aligned with crossarm (as found): 91.2
Sensor response aligned with crossarm (as left): 91.4

Threshold Torque: 0.05 oz.-in.
(Waters Model 366-1 torque watch)

		Linearity Check from DAS		
Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.5	0.5	0.5	0.5
30	31.6	31.4	1.6	1.4
60	62.0	61.8	2.0	1.8
90	91.7	91.5	1.7	1.5
120	120.8	120.7	0.8	0.7
150	150.5	150.6	0.5	0.6
180	180.2	180.1	0.2	0.1
210	210.7	210.5	0.7	0.5
240	240.2	240.6	0.2	0.6
270	269.9	269.5	-0.1	-0.5
300	300.4	300.0	0.4	0.0
330	330.3	330.1	0.3	0.1
0	0.6	0.6	0.6	0.6
		Max Diff	**2.0**	**1.8**

Table 7. Meteorological Calibration (Continued)

Wind Speed

Sensor height:: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Synchronous motor checks (1)

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.22	0.00
300 (304)	6.66 (6.76)	6.75	0.09 (-0.01)
600 (608)	13.09 (13.28)	13.30	0.21 (0.02)

(1) Actual motor speed empirically determined at values in parentheses due to DC-to-AC inverter imperfection

Barometric Pressure

(Performed April 10, 2014. Sensor located at SO2 monitoring building)

Sensor (Make/model number): Met One 092
Serial Number : P22256
Calibration standard: Wallace and Tiernan aneroid barometer, Model FA185260, SN LL03297

Known Value in. Hg	Sensor Response in. Hg	Difference in. Hg
26.03	26.02	-0.01

Relative Humidity

Calibration check at time of installation on April 10, 2014)

Calibration Check Device: Assmann Psychrometer, thermometer calibrations checked March 2014

Dry-Bulb Temp.: 13.2 deg C BP = 25.56 in. Hg
Wet-Bulb Temp.: 4.6 deg C
Calculated RH: 24.0 %RH
Station RH: 26.4 %RH
Diff: 2.4 %RH

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley August 2013)

Audit Value: 879 watts/m^2
Station Value: 847 watts/m^2
Diff.: -3.64%
-2.67% FS

Audit Value: 877 watts/m^2
Station Value: 840 watts/m^2
Diff.: -4.22%
-3.08% FS

Audit Value: 766 watts/m^2
Station Value: 738 watts/m^2
Diff.: -3.66%
-2.33% FS

Signature of Calibrator : Steven R Hick

Table 7. Meteorological Calibration (Continued)

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Calibration Results: Qtr 2, 2014

Client: Montana Limestone Resources
Site: Drummond
Date: May 28, 2014
Performed By: Steve Heck, Bison Engineering Inc.
Tower lowered at 1045 MST Tower back up at 1333 MST

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (20 meters), N1889C (2 meters)
Calibration Device: Control Company - digital thermometer Model 4000
Serial Number : 91255639
Last certified: April 2014

Temperature bath results

Calibration Value °C	19m DAS Value °C	19m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	19m - 2m DAS Diff. °C
0.00	0.19	0.19	0.16	0.16	0.03
16.51	16.45	-0.06	16.47	-0.04	-0.02
38.39	38.57	0.18	38.59	0.20	-0.02

Wind Direction Linearity Audit Device: Climatronics 101966, SN 70

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Crossarm orientation (from solar sighting): 90.3 / 270.3
Geographic coordinates for solar sighting
N 46 deg 41 min, W 113 deg 13 min
Calculated sun position
98.3 deg at 0841 MST
Sensor response aligned with crossarm (as found): 92.6
Sensor response aligned with crossarm (as left): 91.4

Threshold Torque: 0.03 oz.-in.
(Waters Model 366-1 torque watch)

Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.2	0.2	0.2	0.2
30	29.8	29.8	-0.2	-0.2
60	60.3	60.1	0.3	0.1
90	90.2	89.9	0.2	-0.1
120	119.4	119.2	-0.6	-0.8
150	149.3	149.0	-0.7	-1.0
180	179.2	178.9	-0.8	-1.1
210	209.1	208.7	-0.9	-1.3
240	239.3	239.1	-0.7	-0.9
270	269.1	268.3	-0.9	-1.7
300	299.0	298.9	-1.0	-1.1
330	328.8	328.5	-1.2	-1.5
0	0.2	0.2	0.2	0.2
		Max Diff	**-1.2**	**-1.7**

Table 7. Meteorological Calibration (Continued)

Wind Speed

Sensor height:: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : P1336C
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Synchronous motor checks (1)

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.22	0.00
300 (304)	6.66 (6.76)	6.75	0.09 (-0.01)
600 (608)	13.09 (13.28)	13.29	0.20 (0.01)

(1) Actual motor speed empirically determined at values in parentheses due to DC-to-AC inverter imperfection

Barometric Pressure
(Sensor located at SO2 monitoring building)

Sensor (Make/model number): Met One 092
Serial Number : P22256
Calibration standard: Wallace and Tiernan aneroid barometer, Model FA185260, SN LL03297

Known Value in. Hg	Sensor Response in. Hg	Difference in. Hg
25.82	25.79	-0.03

Relative Humidity

Calibration Check Device: Assmann Psychrometer, thermometer calibrations checked March 2014

Dry-Bulb Temp.: 14.8 deg C BP = 25.49 in. Hg
Wet-Bulb Temp.: 10.3 deg C
Calculated RH: 59.4 %RH
Station RH: 57.5 %RH
Diff: -1.9 %RH

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley August 2013)

Audit Value: 834 watts/m^2	Audit Value: 844 watts/m^2	Audit Value: 442 watts/m^2
Station Value: 793 watts/m^2	Station Value: 807 watts/m^2	Station Value: 423 watts/m^2
Diff.: -4.92%	Diff.: -4.38%	Diff.: -4.30%
-3.42% FS	-3.08% FS	-1.54% FS

Precipitation
(Performed at time of installation on May 22, 2014)

Calibration Check Device: 500 mL Buret (559 mL when full)

Rain Gauge = Met One Model 375
Level checked OK
Wind Screen in place
8" opening

559 ml water added
Calibration is 8.24 ml per tip
Known audit value is 559 / 8.24 = 67.8 tips (so 67 full tips expected)

Unit registered 65 tips
% difference from expected = -3.0%

Signature of Calibrator : Steven R Heile

Table 8. SO_2 Calibration

April 10, 2014			
Analyzer: Thermo Environmental Inc.43i, S/N 904834740			
Background Setting Unadjusted: 3.1800 Adjusted: 3.1400		Span Coefficient Setting Unadjusted: 1.0080 Adjusted: 0.9890	
Calibration Flow Standard flow kit model : Gillibrator Flow Cell : all		Calibrator: Thermo Electron Inc. 146i S/N 904834743	
Reference Concentration (ppm)	Analyzer Response (ppm)	Chart Response (ppm)	Percentage Difference
0.000	0.0002	NA	0.4
0.400	0.400	NA	0.0
0.300	0.300	NA	0.0
0.200	0.199	NA	-0.5
0.080	0.078	NA	-2.5
Linear Regression Analysis*			
Slope =	0.99843		
Intercept =	0.00011		
Correlation Coefficient =	0.99996		

* Least squares linear regression, given by y = ax + b, where y is the analyzer response, x is the reference concentration, a is the slope, and b is the intercept.

7.0 PERFORMANCE AUDIT DATA

Don Milmine of Bison conducted performance audits of the particulate samplers, SO_2 analyzer, and the meteorological system on May 28, 2014. The audits produced satisfactory to excellent results for all instrumentation. The Bison report of the audits is presented in Appendix B.

Audit criteria for the particulate samplers include:

- The internal leak test must produce a result of < 5 cm H_2O over two minutes.
- The indicated particulate sampler flow rate must not differ from the audit flow rate by more than ±4%.
- The audit flow rate must not differ from the design flow rate (16.67 LPM) by more than ±5%.
- The particulate sampler temperature sensors must be in error by no more than ±2°C.
- The particulate sampler pressure sensors must be in error by no more than ±10 mmHg

Audit criteria for the sulfur dioxide analyzer are detailed in a separate table in Appendix B. In general, the most significant are:

- The allowable error for audit concentrations ≥ 0.010 ppm is ≤ ±15% at each point.
- The allowable error for audit concentrations < 0.010 ppm, and at the zero point, is ≤ ±1.5 ppb.

8.0 DATA COMPLETENESS

The $PM_{2.5}$ and PM_{10} percentages of data recovery during the second quarter of 2014 are given in Table 9 and 10. In these tables, the number of possible data values during each month of the second quarter is given, together with the number of valid readings. The percentage data recovery is computed by dividing the number of valid readings by the number of possible readings and multiplying the result by 100.

During the second quarter of 2014, the net percentage data recovery was 100.00 percent for the PM_{10} sampler, 100.00 percent for the duplicate $PM_{2.5}$ sampler, and 96.66 percent for the reporting $PM_{2.5}$ sampler at Drummond. The loss of data (one sampling event) was due to a rodent chewing on the power cable leading to the sampler.

The percentages of data recovery for meteorological parameters and the SO_2 monitor are given in Tables 11 and 12. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as precision checks, zero/span checks, calibrations, performance audits, and maintenance on the analyzers). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery. Missing data periods are summarized in Table 13.

During second quarter, the net percentage data recovery was 100.0 percent for wind speed, precipitation, relative humidity, 2 meter temperature, and solar radiation. The net percentage data recovery was 99.9 percent for 19 meter temperature and delta temperature. The net percentage data recovery was 99.8 percent for SO_2, and for wind direction, standard deviation and barometric pressure. All data losses were due to datalogger collection errors.

Table 9. PM_{10} Data Completeness

Second Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-2 PM_{10} Sampler			
April	10	10	100.00
May	10	10	100.00
June	10	10	100.00
Second Quarter	30	30	100.00

Table 10. $PM_{2.5}$ Data Completeness

Second Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-1 Reporting $PM_{2.5}$ Sampler			
April	10	10	100.00
May	10	10	100.00
June	10	9	90.00
Second Quarter	30	29	96.66
MLR-3 Duplicate $PM_{2.5}$ Sampler			
April	5	5	100.00
May	5	5	100.00
June	6	6	100.00
Second Quarter	16	16	100.00

Table 11. Monthly Data Completeness

April 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	720	717	99.6	3	100.0
Wind Direction	720	715	99.3	3	99.7
Standard Deviation	720	715	99.3	3	99.7
Temperature 19 Meters	720	715	99.3	3	99.7
Temperature 2 Meters	720	717	99.6	3	100.0
Temperature Delta T	720	715	99.3	3	99.7
Solar Radiation	720	717	99.6	3	100.0
Relative Humidity	491	488	99.4	3	100.0
Sulfur Dioxide	720	674	93.6	41	99.3
Barometric Pressure	720	712	98.9	3	99.3
Total	7,921	7,831	98.9	72	99.8

Table 11. Monthly Data Completeness (Continued)

May 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	740	99.5	4	100.0
Wind Direction	744	739	99.3	4	99.9
Standard Deviation	744	739	99.3	4	99.9
Temperature 19 Meters	744	740	99.5	4	100.0
Temperature 2 Meters	744	740	99.5	4	100.0
Temperature Delta T	744	740	99.5	4	100.0
Solar Radiation	744	740	99.5	4	100.0
Relative Humidity	744	740	99.5	4	100.0
Sulfur Dioxide	744	707	95.0	37	100.0
Barometric Pressure	744	742	99.7	2	100.0
Precipitation	230	226	98.3	4	100.0
Total	7,670	7,593	99.0	75	100.0

Table 11. Monthly Data Completeness (Continued)

June 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	719	100.0	0	99.9
Standard Deviation	720	719	100.0	0	99.9
Temperature 19 Meters	720	720	100.0	0	100.0
Temperature 2 Meters	720	720	100.0	0	100.0
Temperature Delta T	720	720	100.0	0	100.0
Solar Radiation	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Sulfur Dioxide	720	685	95.1	35	100.0
Barometric Pressure	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,920	7,883	99.5	35	100.0

Table 12. Quarterly Data Completeness

Second Quarter 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	2,184	2,177	99.7	7	100.0
Wind Direction	2,184	2,173	99.5	7	99.8
Standard Deviation	2,184	2,173	99.5	7	99.8
Temperature 19 Meters	2,184	2,175	99.6	7	99.9
Temperature 2 Meters	2,184	2,177	99.7	7	100.0
Temperature Delta T	2,184	2,175	99.6	7	99.9
Solar Radiation	2,184	2,177	99.7	7	100.0
Relative Humidity	1,955	1,948	99.6	7	100.0
Sulfur Dioxide	2,184	2,066	94.6	113	99.8
Barometric Pressure	2,184	2,174	99.5	5	99.8
Precipitation	950	946	99.6	4	100.0
Total	22,561	22,361	99.1	178	99.9

Table 13. Periods of Missing Data

Second Quarter 2014						
Starting Date/Hour	Ending Date/Hour	Site	Parameter	Total Hours	Percent of Quarter	Circumstance
Apr 10/14	Apr 10/15	Met tower	WD, SD, Delta Temp, Temp 19m	2	0.09	Missing data: Collection error in datalogger at the site
Apr 18/15	Apr 18/19	SO_2 site	SO_2, BP	5	0.23	Missing data: Collection error in datalogger at the site
May 10/17	May 10/17	Met tower	WD, SD	1	0.05	Missing data: Collection error in datalogger at the site
Jun 24/23	Jun 24/23	Met tower	WD, SD	1	0.05	Missing data: Collection error in datalogger at the site

9.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 14.

The $PM_{2.5}$ and PM_{10} data collected during the second quarter at the site are given in Tables 15 through 17. These tables give the 24-hour $PM_{2.5}$ and PM_{10} concentrations measured (referenced to local temperature and pressure), together with the first- and second-highest 24-hour $PM_{2.5}$ and PM_{10} concentrations and average $PM_{2.5}$ and PM_{10} concentrations during each month, quarter, and the year to date. All concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

The SO_2 data collected during the second quarter are summarized in Table 18, with hourly values shown in Appendix A. All SO_2 concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

Monthly and quarterly wind rose distributions from the meteorological tower are presented in Tables 19 through 22. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 through 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 14. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 15. MLR-2 PM_{10} Sampling Data – µg/m^3 (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		5				7							1
2	5			4	10								2
3			12										3
4		5				8							4
5	11			2	2								5
6			2										6
7		10				9							7
8	10			8	5								8
9			2										9
10		13				10							10
11	3			6	3								11
12			4										12
13		4				5							13
14	2			7	8								14
15			4										15
16		2				3							16
17	4			6	8								17
18			3										18
19		3				5							19
20	4			5	5								20
21			4										21
22		3				6							22
23	4			2	12								23
24			5										24
25		5				7							25
26	3			2	9								26
27			3										27
28		17				3							28
29	3			4	8								29
30			2										30
31													31
Monthly Summaries for Site													
Max	11	17	12	8	12	10							Max
2nd	10	13	5	7	10	9							2nd
Avg	4.9	6.7	4.1	4.6	7.0	6.3							Avg
Count	10	10	10	10	10	10							Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	17	12			17
2nd	13	10			13
Avg	5.2	6.0			5.6
Count	30	30			60

* See Table 10 for an explanation of the missing data codes.

Table 16. MLR-1 Reporting $PM_{2.5}$ Sampling Data – µg/m^3 (Reporting) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		4				4							1
2	3			3	6								2
3			4										3
4		4				4							4
5	2			1	2								5
6			1										6
7		7				4							7
8	7			4	3								8
9			1										9
10		11				Wi							10
11	1			3	2								11
12			2										12
13		2				3							13
14	1			4	5								14
15			2										15
16		1				2							16
17	3			3	5								17
18			2										18
19		1				3							19
20	3			3	2								20
21			3										21
22		2				3							22
23	3			1	6								23
24			3										24
25		3				3							25
26	3			1	4								26
27			2										27
28		3				1							28
29	2			2	3								29
30			1										30
31													31
Monthly Summaries for Site													
Max	7	11	4	4	6	4							Max
2nd	3	7	3	4	6	4							2nd
Avg	2.8	3.8	2.1	2.5	3.8	3.0							Avg
Count	10	10	10	10	10	9							Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	11	6			11
2nd	7	6			7
Avg	2.9	3.1			3.0
Count	30	29			59

* See Table 10 for an explanation of the missing data codes.

Table 17. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – µg/m^3 (Duplicate) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4		ND				4							4
5	2			1	1								5
6			1										6
7													7
8													8
9													9
10		ND				3							10
11	2			3	3								11
12			2										12
13						2							13
14													14
15													15
16		2				2							16
17	2			3	5								17
18			1										18
19													19
20													20
21													21
22		2				3							22
23	3			1	7								23
24			3										24
25													25
26													26
27													27
28		3				1							28
29	2			2	3								29
30			1										30
31													31
Monthly Summaries for Site													
Max	3	3	3	3	7	4							Max
2nd	2	2	2	3	5	3							2nd
Avg	2.2	2.3	1.6	2.0	3.8	2.5							Avg
Count	5	3	5	5	5	6							Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	3	7			7
2nd	3	5			5
Avg	2.0	2.8			2.4
Count	13	16			29

* See Table 10 for an explanation of the missing data codes.

Table 18. SO_2 Data Summary for MLR Drummond Site

Day	April 2014		May 2014		June 2014	
	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)
1	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	* 0.000	* 0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	* 0.000	* 0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000
31			0.000	0.000		
MONTH	0.000	0.000	0.000	0.000	0.000	0.000

*Indicates that average is based on less than 80% of possible data.

	Current Quarter	Year-to-Date
Average SO_2 Conc. (ppm)	0.000	0.000
Maximum 24-Hour SO_2 Conc. (ppm)	0.000	0.001
Maximum 1-Hour SO_2 Conc. (ppm)	0.000	0.028

Table 19. Monthly Wind Rose Summary, Drummond

April 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.0	0.3	1.3	0.6	1.3	1.1	1.4	1.0	1.1	1.1	0.3	0.0	0.1	0.4	0.1	1.0	12.0
	1.1 - 2.0	1.1	1.1	1.0	1.0	2.5	2.2	1.4	1.5	1.0	1.0	0.0	0.6	1.4	1.4	2.5	1.3	21.0
	2.1 - 3.0	0.6	0.4	0.4	0.7	0.3	0.3	0.7	0.6	0.3	0.1	0.7	1.3	4.3	3.6	1.1	0.6	15.9
	3.1 - 4.0	0.0	0.4	0.4	0.4	0.3	0.0	0.6	0.0	0.1	0.0	0.1	1.0	3.2	4.9	1.1	0.3	12.9
	4.1 - 5.0	0.0	0.3	0.0	0.3	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.7	1.7	4.8	1.7	0.0	9.8
	5.1 - 6.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.2	1.7	0.1	7.7
	6.1 - 7.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.7	1.0	0.0	8.1
	7.1 - 8.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.4	1.7	0.0	5.0
	8.1 - 9.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.5	1.1	0.0	4.3
	9.1 - 10.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.8	0.3	0.0	2.0
	10.1 - 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	0.1	0.7	0.1	0.0	1.0
	11.1 - 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	0.0	0.1	0.0	0.0	0.1
	12.1 - 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	0.0	0.0	0.0	0.0	0.0
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	2.7	2.9	4.3	2.9	4.6	3.6	4.3	3.1	2.5	2.2	1.1	4.2	15.0	30.6	12.6	3.2	100.0
	Average Speed	1.4	3.1	3.0	2.2	1.7	1.3	2.0	1.4	1.3	1.1	2.1	3.7	4.1	5.3	5.0	1.8	3.8

Table 20. Monthly Wind Rose Summary, Drummond

May 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.7	0.3	1.4	1.2	1.2	1.4	1.9	1.5	1.9	0.3	0.0	0.1	0.1	0.3	0.1	0.4	12.7
	1.1 - 2.0	1.2	0.8	1.6	2.7	2.0	2.6	4.7	1.9	2.0	0.4	0.5	0.3	1.6	1.4	1.1	1.1	26.0
	2.1 - 3.0	1.5	0.8	0.9	0.7	0.9	2.0	1.4	1.6	1.2	0.3	0.0	0.4	1.6	3.1	1.8	0.7	18.9
	3.1 - 4.0	0.1	0.3	0.1	0.1	0.1	0.5	0.7	0.4	0.1	0.4	0.1	0.1	1.6	2.2	3.2	1.1	11.4
	4.1 - 5.0	0.1	0.3	0.1	0.0	0.1	0.5	0.3	0.0	0.1	0.1	0.0	0.3	0.9	3.5	2.2	0.1	8.8
	5.1 - 6.0	0.1	0.0	0.1	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.7	3.5	3.4	0.0	8.4
	6.1 - 7.0	0.0	0.4	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.9	2.6	2.8	0.1	7.4
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.7	1.4	1.1	0.0	3.4
	8.1 - 9.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.9
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.7
	10.1 - 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	0.0	0.0	0.3	0.0	0.3
	11.1 - 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	0.0	0.0	0.5	0.0	0.5
	12.1 - 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	0.0	0.0	0.3	0.0	0.3
	13.1 - 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	0.0	0.0	0.1	0.0	0.1
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.8	2.8	4.6	4.7	4.5	7.3	9.5	5.4	5.4	1.9	0.7	1.4	8.3	18.3	18.0	3.5	100.0
	Average Speed	2.1	2.8	2.2	1.5	1.7	2.3	2.0	1.7	1.6	3.6	2.0	3.0	3.9	4.6	5.5	2.5	3.3

Table 21. Monthly Wind Rose Summary, Drummond

June 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.4	0.8	1.8	0.4	1.0	1.0	0.7	1.7	0.6	0.1	0.1	0.1	0.3	0.0	0.1	0.1	9.3
	1.1 - 2.0	1.4	0.6	1.5	1.1	1.8	2.1	3.1	2.2	1.5	1.0	0.3	0.6	1.4	1.4	2.1	1.0	22.9
	2.1 - 3.0	0.8	0.6	0.4	0.4	0.0	1.4	2.1	0.8	1.0	0.6	0.0	0.7	3.5	2.2	1.7	0.8	17.0
	3.1 - 4.0	0.8	0.1	0.1	0.4	0.1	0.7	0.8	0.8	0.1	0.3	0.3	0.3	2.1	2.6	1.9	1.9	13.6
	4.1 - 5.0	0.3	0.1	0.0	0.1	0.0	0.1	0.3	0.3	0.0	0.3	0.1	0.0	1.3	5.0	2.8	1.1	11.8
	5.1 - 6.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	4.3	3.2	0.4	8.9
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	4.5	0.7	0.0	5.8
	7.1 - 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	0.7	4.2	1.1	0.0	6.0
	8.1 - 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	0.0	2.4	1.3	0.0	3.6
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.7
	10.1 - 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	0.0	0.1	0.1	0.0	0.3
	11.1 - 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	0.0	0.0	0.0	0.0	0.0
	12.1 - 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	0.0	0.0	0.0	0.0	0.0
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.8	2.2	4.0	2.5	2.9	5.4	7.1	5.8	3.5	2.4	1.1	1.8	9.7	26.8	15.4	5.4	100.0
	Average Speed	2.2	1.8	1.5	2.0	1.3	2.1	2.2	1.9	2.3	2.6	3.3	2.7	3.3	5.5	4.8	3.3	3.6

Table 22. Quarterly Wind Rose Summary, Drummond

Second Quarter 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.7	0.5	1.5	0.7	1.2	1.2	1.3	1.4	1.2	0.5	0.1	0.1	0.2	0.2	0.1	0.5	11.4
	1.1 - 2.0	1.2	0.8	1.4	1.6	2.1	2.3	3.1	1.9	1.5	0.8	0.3	0.5	1.5	1.4	1.9	1.1	23.3
	2.1 - 3.0	1.0	0.6	0.6	0.6	0.4	1.2	1.4	1.0	0.8	0.3	0.2	0.8	3.1	3.0	1.5	0.7	17.3
	3.1 - 4.0	0.3	0.3	0.2	0.3	0.2	0.4	0.7	0.4	0.1	0.2	0.2	0.5	2.3	3.2	2.1	1.1	12.6
	4.1 - 5.0	0.1	0.2	0.0	0.1	0.1	0.2	0.3	0.1	0.0	0.1	0.0	0.3	1.3	4.4	2.2	0.4	10.1
	5.1 - 6.0	0.0	0.0	0.3	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.8	3.7	2.8	0.2	8.3
	6.1 - 7.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	4.2	1.5	0.0	7.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.6	2.6	1.3	0.0	4.8
	8.1 - 9.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.9	0.0	2.9
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.0	1.1
	10.1 - 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	0.0	0.3	0.2	0.0	0.5
	11.1 - 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	0.0	0.0	0.2	0.0	0.2
	12.1 - 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	0.0	0.0	0.1	0.0	0.1
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.4	2.7	4.3	3.4	4.0	5.5	7.0	4.8	3.8	2.2	1.0	2.4	11.0	25.2	15.4	4.0	100.0
	Average Speed	2.0	2.6	2.3	1.8	1.6	2.0	2.0	1.7	1.7	2.4	2.5	3.3	3.8	5.2	5.1	2.7	3.5

Figure 2. Monthly Wind Rose, Drummond Site

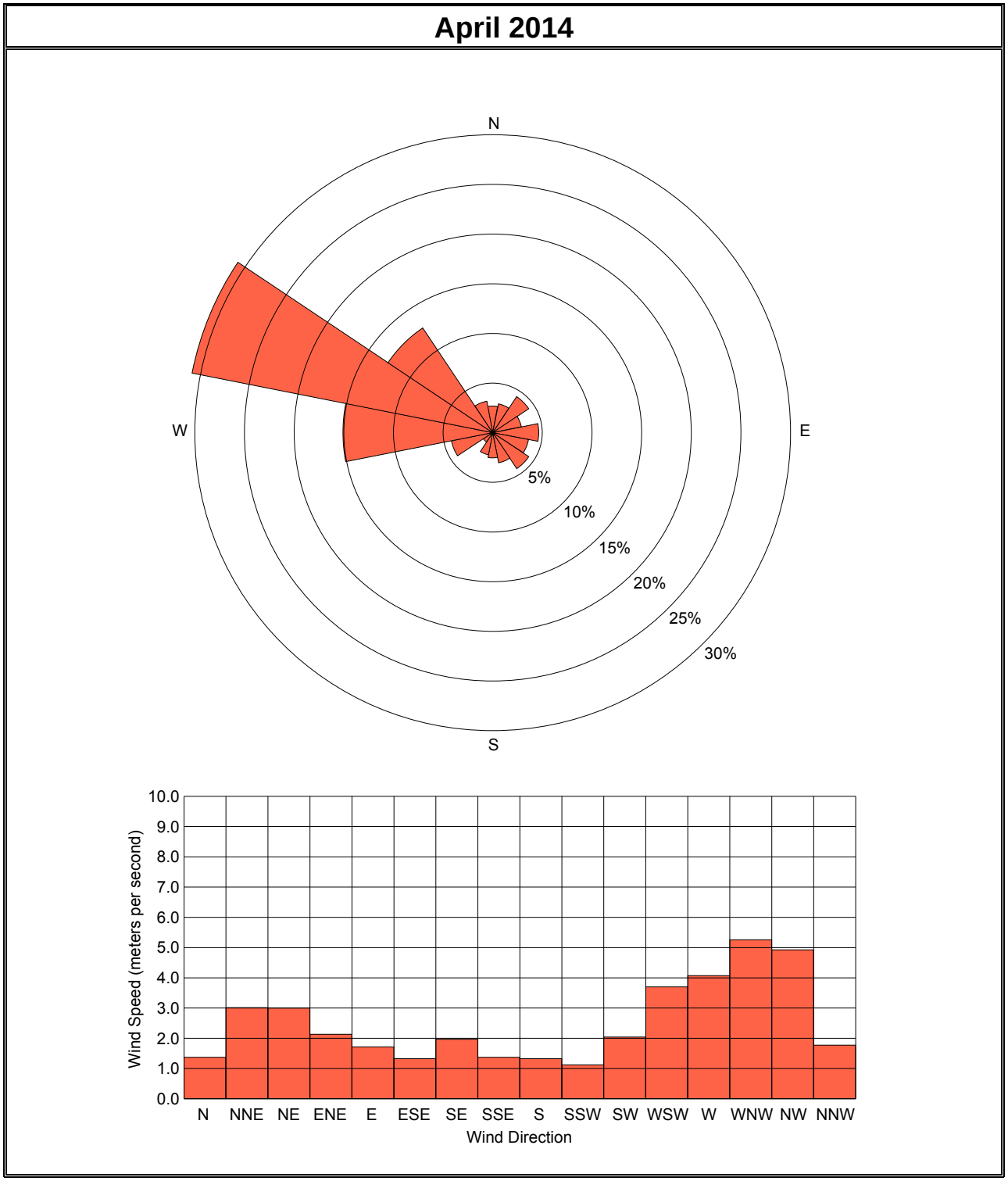


Figure 3. Monthly Wind Rose, Drummond Site

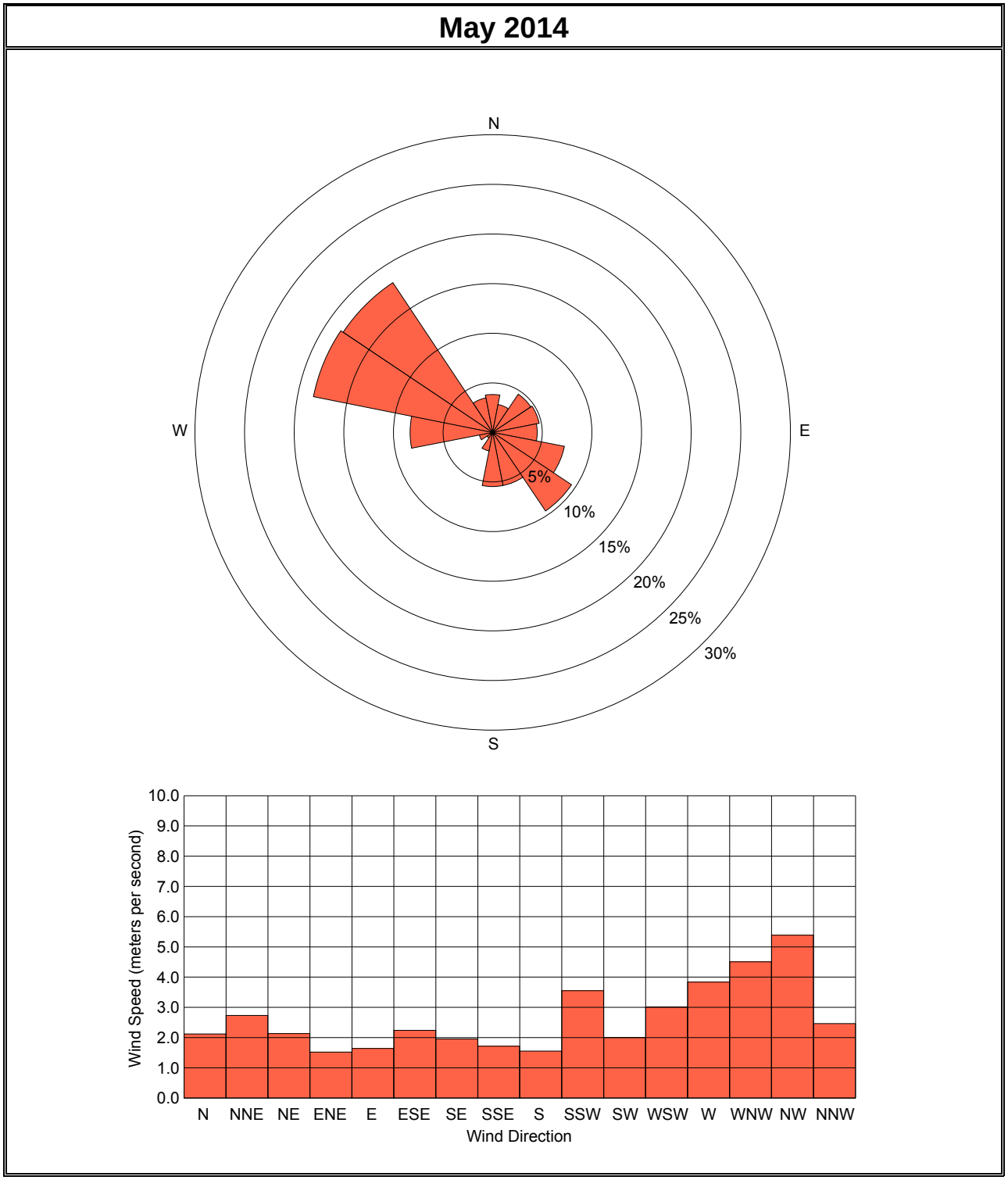


Figure 4. Monthly Wind Rose, Drummond Site

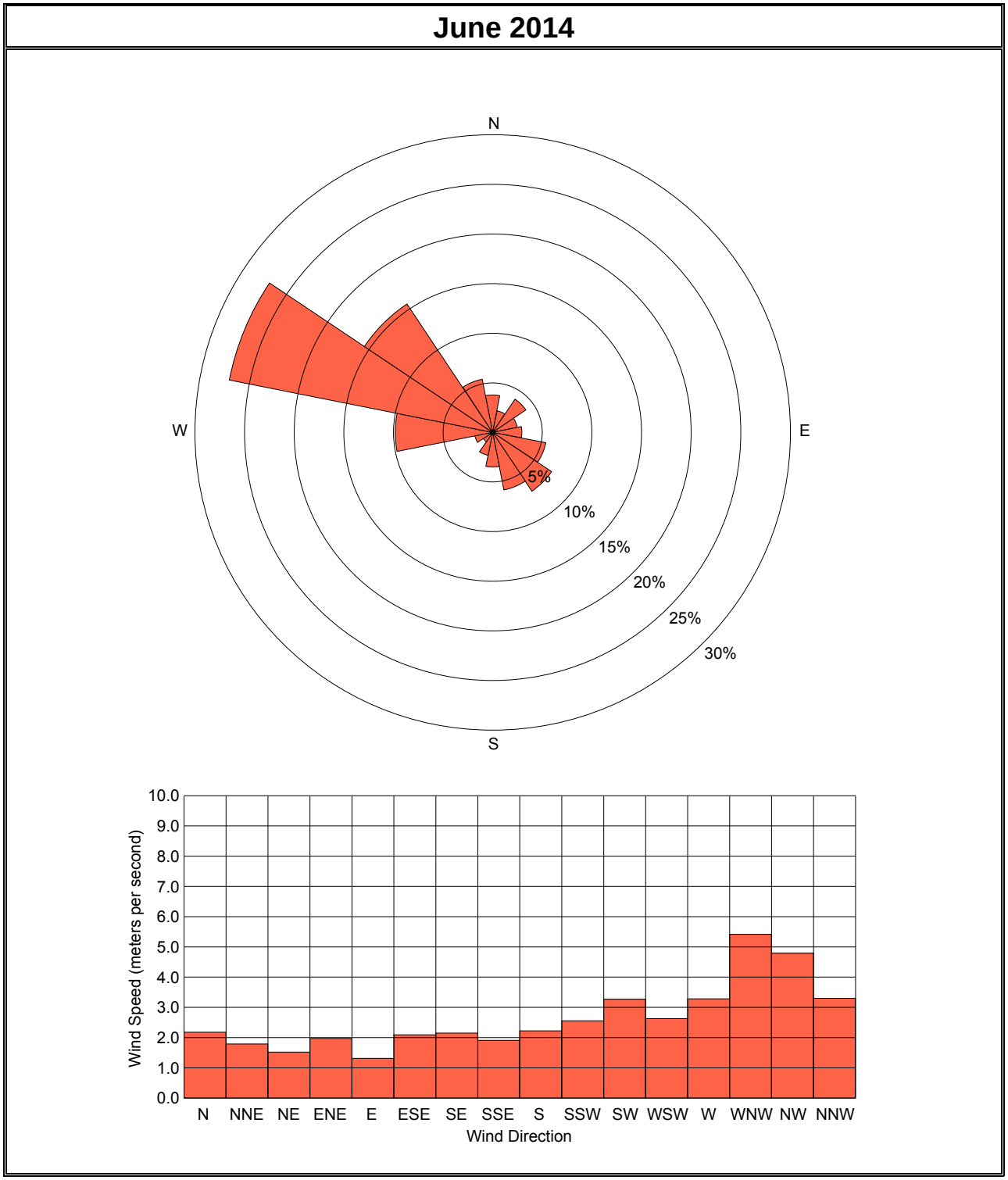
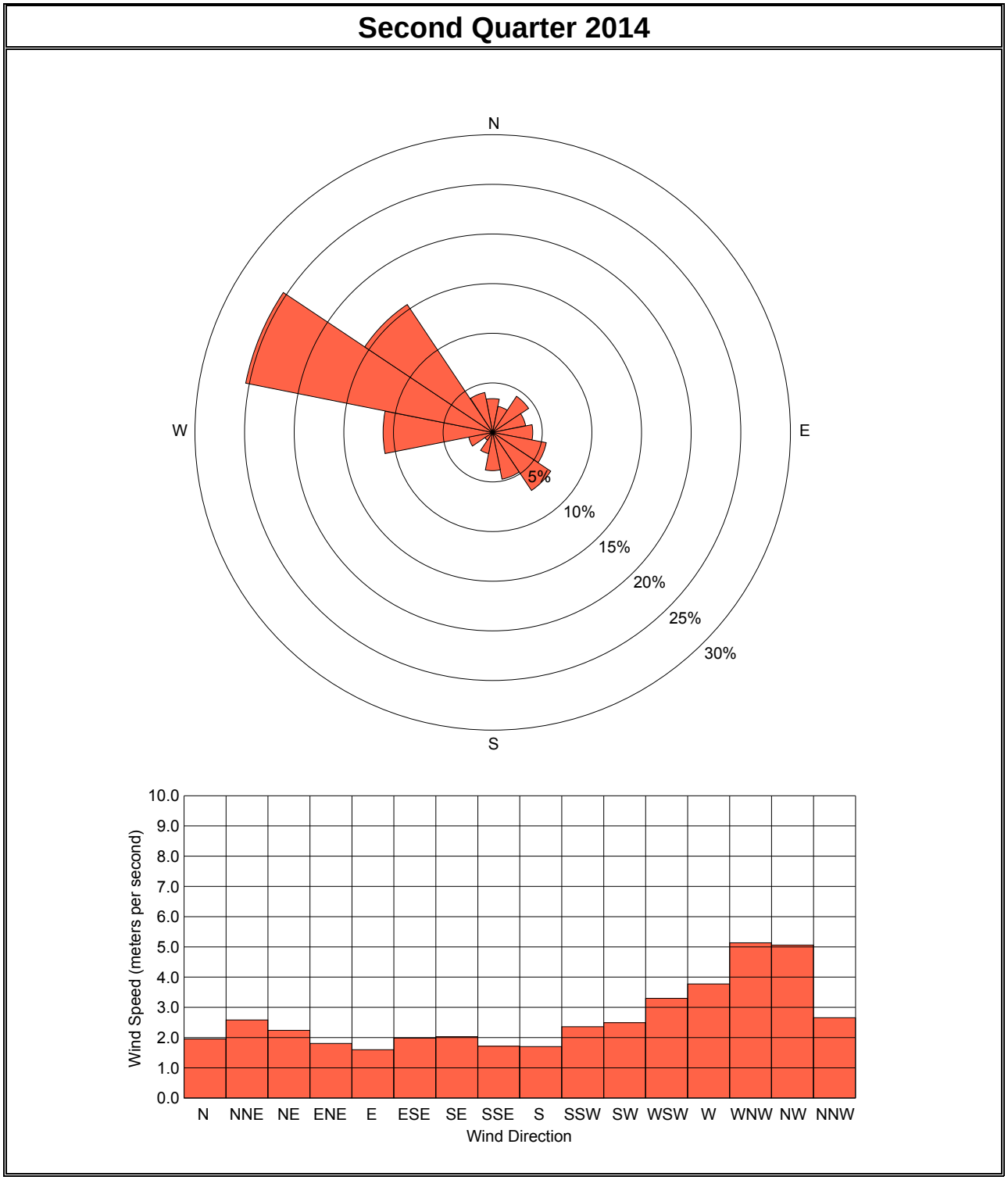


Figure 5. Quarterly Wind Rose, Drummond Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, SECOND QUARTER 2014

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.7	0.7	0.7	1.3	0.6	0.7	1.3	0.9	1.2	1.4	1.9	2.3	1.9	3.2	3.6	4.0	5.1	4.5	4.9	3.7	1.6	1.3	1.6	1.6	2.1	5.1	0.6
2	1.9	1.7	1.6	1.9	1.5	0.6	0.5	1.1	1.1	1.4	2.0	3.5	6.8	5.8	6.4	7.2	5.2	7.4	4.9	4.0	3.2	1.7	1.5	1.6	3.1	7.4	0.5
3	1.2	1.1	0.9	0.8	0.8	0.8	0.7	0.8	1.3	1.3	1.5	1.6	1.7	2.1	1.8	2.4	2.3	1.8	2.6	2.2	1.7	1.4	1.3	0.7	1.5	2.6	0.7
4	0.6	1.0	0.9	0.6	1.0	0.6	0.9	0.8	0.9	1.5	2.3	3.2	5.3	5.1	7.0	8.4	5.0	4.4	2.1	3.0	3.1	2.5	1.0	3.7	2.7	8.4	0.6
5	4.6	3.6	3.0	2.6	2.5	1.1	4.1	1.6	1.6	3.2	5.4	5.5	8.2	6.1	6.4	6.5	5.2	6.0	4.1	2.5	3.5	3.5	3.4	3.0	4.0	8.2	1.1
6	3.2	2.9	4.2	2.8	2.6	2.2	2.1	1.8	2.7	5.9	8.7	8.2	10.8	10.4	8.6	8.1	9.6	10.8	9.0	5.5	2.2	3.4	4.4	4.2	5.6	10.8	1.8
7	3.6	2.9	2.1	1.2	0.9	1.0	2.0	1.9	2.8	3.0	5.4	7.3	8.0	6.7	6.6	6.7	6.6	6.3	5.9	3.6	2.9	1.5	1.1	0.8	3.8	8.0	0.8
8	0.7	0.5	1.0	0.8	1.2	0.8	0.6	0.6	0.9	1.3	Ca	Ca	Ca	7.5	7.2	6.3	5.4	3.8	4.2	4.9	4.8	3.6	2.8	4.3	3.0	7.5	0.5
9	3.5	3.4	2.9	3.2	3.5	4.0	1.7	3.6	9.7	7.4	6.3	5.1	7.0	8.7	9.9	9.4	7.5	6.6	4.9	5.5	2.6	2.5	2.6	4.6	5.3	9.9	1.7
10	3.9	4.1	2.0	1.1	1.5	0.7	0.7	0.9	1.6	2.4	6.3	7.6	8.1	7.4	7.2	7.5	6.8	5.5	4.6	4.9	4.3	3.7	1.6	1.9	4.0	8.1	0.7
11	1.6	2.1	1.4	1.8	1.5	1.0	0.6	1.2	3.6	6.2	6.7	6.3	6.6	5.6	5.6	7.6	6.4	8.3	7.6	6.8	6.5	3.6	1.5	2.3	4.3	8.3	0.6
12	3.0	5.5	1.9	3.1	0.9	1.4	1.1	1.8	2.4	2.4	5.7	7.2	5.9	6.4	8.4	8.1	9.2	7.9	6.8	5.7	4.0	4.3	6.0	3.0	4.7	9.2	0.9
13	4.2	4.0	1.5	1.2	1.5	1.2	1.5	1.2	2.0	1.7	2.1	3.1	4.9	3.9	4.1	3.6	3.5	4.2	5.0	5.4	5.8	2.8	1.5	0.9	3.0	5.8	0.9
14	1.0	1.1	1.0	0.9	1.5	0.8	1.7	1.0	1.5	1.9	1.4	2.0	3.0	5.4	7.5	7.2	7.1	4.7	3.0	3.8	3.6	3.3	3.1	2.2	2.9	7.5	0.8
15	1.2	1.2	2.1	3.2	3.2	2.6	2.9	5.4	5.5	5.9	8.4	7.5	6.5	8.3	10.1	9.5	9.1	8.7	6.9	3.5	2.3	3.5	4.1	4.8	5.3	10.1	1.2
16	2.6	1.1	0.8	1.7	0.6	0.7	0.8	0.9	1.3	2.3	4.3	5.4	5.2	6.3	5.8	6.5	6.2	5.9	4.7	3.6	2.6	1.7	2.2	3.0	3.2	6.5	0.6
17	2.3	2.3	1.6	1.4	0.9	1.4	1.1	1.4	2.0	1.7	1.6	2.8	3.8	4.6	4.2	3.3	3.0	1.5	2.0	2.9	5.4	3.8	5.2	7.1	2.8	7.1	0.9
18	4.6	2.6	2.3	4.5	6.5	5.9	7.0	6.3	7.1	11.0	9.6	8.3	8.0	9.4	11.0	9.2	8.4	8.2	8.8	7.0	3.8	3.5	2.9	4.3	6.7	11.0	2.3
19	1.8	0.7	0.8	0.7	1.0	1.4	1.2	1.0	1.4	1.4	1.4	1.6	1.9	1.9	1.9	2.3	2.5	4.0	4.5	3.5	2.7	5.3	11.5	14.2	2.9	14.2	0.7
20	8.8	2.9	3.1	3.6	4.1	4.4	3.8	5.6	6.4	8.6	7.9	7.6	7.4	7.5	6.8	6.1	6.4	6.3	4.8	5.4	5.0	4.8	2.3	1.1	5.4	8.8	1.1
21	0.6	0.8	1.0	1.1	0.9	0.8	0.8	1.1	1.4	1.6	1.9	1.7	2.3	2.9	3.5	3.1	2.1	3.0	4.1	2.5	3.2	1.2	2.1	2.1	1.9	4.1	0.6
22	1.4	1.1	1.1	0.9	0.6	0.9	1.0	0.7	0.9	1.3	2.7	5.9	7.1	7.8	8.9	5.8	5.0	4.2	4.7	8.8	9.4	10.2	8.5	6.7	4.4	10.2	0.6
23	5.1	5.0	3.4	3.5	4.0	4.6	3.8	3.7	4.4	4.7	5.1	6.7	9.7	9.3	8.5	8.4	7.2	4.9	2.3	2.8	2.8	1.6	1.8	1.6	4.8	9.7	1.6
24	1.6	2.5	2.7	1.7	1.0	1.5	1.1	0.9	0.9	1.2	2.1	2.2	3.0	5.3	7.5	5.3	6.4	4.6	6.0	5.6	2.5	1.9	1.2	2.4	3.0	7.5	0.9
25	1.8	1.6	1.5	3.3	2.4	0.9	1.1	1.0	1.3	1.8	2.2	2.8	2.2	2.0	2.5	5.4	2.8	3.6	4.0	2.9	2.3	4.1	3.5	4.4	2.6	5.4	0.9
26	4.1	4.1	4.1	3.4	2.6	2.1	1.6	3.9	6.8	6.6	6.8	6.2	6.9	8.9	7.8	8.1	8.9	7.4	7.1	3.9	2.5	2.8	3.0	2.2	5.1	8.9	1.6
27	3.0	2.7	3.5	4.0	2.7	1.3	1.4	1.8	3.3	4.7	5.0	4.9	3.4	4.4	3.8	9.0	9.9	8.8	6.9	5.4	3.6	2.1	2.7	3.6	4.2	9.9	1.3
28	4.2	3.9	4.3	3.8	4.6	4.4	4.6	5.4	7.5	8.0	8.0	8.0	6.7	6.8	6.0	7.0	6.6	6.2	6.2	6.7	3.1	3.0	4.2	3.6	5.5	8.0	3.0
29	2.7	3.1	2.9	1.3	0.8	1.3	0.9	1.5	1.9	2.2	2.5	1.8	3.2	3.1	3.3	3.6	3.2	2.8	2.9	3.8	5.9	6.1	3.1	1.0	2.7	6.1	0.8
30	0.7	0.5	0.5	0.6	0.6	0.9	1.5	1.3	1.4	1.7	1.9	2.7	2.0	2.7	2.7	2.6	3.7	4.7	4.2	5.5	5.4	6.6	1.4	1.0	2.4	6.6	0.5
Avg	2.7	2.4	2.0	2.1	1.9	1.7	1.8	2.0	2.9	3.5	4.4	4.8	5.4	5.9	6.2	6.3	5.9	5.6	5.0	4.5	3.7	3.4	3.1	3.3	3.8	8.0	1.0
Max	8.8	5.5	4.3	4.5	6.5	5.9	7.0	6.3	9.7	11.0	9.6	8.3	10.8	10.4	11.0	9.5	9.9	10.8	9.0	8.8	9.4	10.2	11.5	14.2	6.7	14.2	3.0
Min	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.9	1.2	1.4	1.6	1.7	1.9	1.8	2.3	2.1	1.5	2.0	2.2	1.6	1.2	1.0	0.7	1.5	2.6	0.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.0	0.5	0.7	0.9	1.0	1.1	0.8	1.5	1.2	1.6	1.6	2.0	3.5	4.3	4.2	5.4	6.4	7.0	5.5	4.1	3.3	1.4	0.7	1.0	2.5	7.0	0.5
2	1.0	1.1	1.4	1.5	0.7	0.8	0.9	1.1	1.4	1.9	6.5	7.3	8.0	8.1	8.0	6.4	7.4	6.9	6.0	3.1	2.6	3.3	1.5	1.3	3.7	8.1	0.7
3	0.8	1.3	1.3	1.3	2.4	2.3	1.2	2.1	3.3	2.9	3.0	2.8	2.8	1.8	1.8	4.5	7.6	11.4	9.9	5.7	4.6	6.4	6.8	5.6	3.9	11.4	0.8
4	3.7	3.2	2.2	5.6	5.0	2.8	2.9	1.4	1.1	2.2	3.8	7.8	6.0	6.6	6.4	5.2	5.9	7.4	8.3	6.3	6.8	4.4	2.8	1.9	4.6	8.3	1.1
5	1.1	4.9	1.3	0.8	1.6	1.7	1.5	0.9	1.6	1.5	1.9	1.6	4.6	5.4	8.0	10.0	6.2	5.7	6.2	3.7	5.3	4.3	3.4	2.9	3.6	10.0	0.8
6	2.5	3.2	2.2	1.7	1.1	1.2	1.4	1.7	2.3	2.6	3.0	4.5	5.4	3.6	3.7	3.8	5.5	6.1	4.9	6.5	4.8	4.7	3.6	3.0	3.5	6.5	1.1
7	1.9	1.1	1.8	1.5	2.4	1.2	1.2	2.2	1.9	1.6	1.8	1.8	1.9	2.5	3.2	3.5	4.1	3.3	4.1	3.2	2.9	3.2	2.3	1.1	2.3	4.1	1.1
8	1.1	0.7	1.0	2.0	1.6	2.2	1.0	1.6	1.6	1.4	1.7	2.7	2.3	2.6	2.3	2.3	5.1	7.1	5.4	4.6	3.8	2.5	1.2	0.7	2.4	7.1	0.7
9	1.1	0.8	1.6	2.3	1.6	1.9	1.2	1.0	1.6	5.4	6.2	6.3	8.1	7.9	7.5	7.7	7.0	8.3	6.9	5.3	3.7	2.9	3.1	2.4	4.2	8.3	0.8
10	2.4	2.2	2.3	1.6	2.6	3.4	2.8	3.5	3.7	4.0	4.6	5.6	6.1	2.9	2.1	3.5	2.2	3.4	2.1	2.3	1.9	3.9	2.4	2.0	3.1	6.1	1.6
11	1.9	1.7	1.3	0.6	1.7	2.6	2.3	3.5	5.3	6.4	6.3	6.5	6.1	4.1	4.1	2.9	4.0	3.5	4.6	2.7	1.5	2.5	1.7	2.3	3.3	6.5	0.6
12	1.1	1.4	1.9	1.1	0.6	0.7	1.1	1.2	1.4	1.6	3.0	3.7	3.0	3.1	3.4	3.2	4.5	4.3	4.4	5.1	5.3	6.2	1.9	0.6	2.7	6.2	0.6
13	0.7	0.6	0.9	0.7	1.0	0.9	1.0	1.2	2.0	2.1	1.7	1.7	2.1	2.2	3.2	4.1	4.8	4.9	5.0	5.3	3.5	5.0	2.1	1.5	2.4	5.3	0.6
14	0.9	0.7	1.0	0.9	1.5	1.0	0.9	1.1	1.0	1.2	1.7	2.9	5.3	6.2	5.9	6.6	6.5	6.9	4.5	3.4	2.8	2.6	1.5	0.9	2.8	6.9	0.7
15	0.4	0.9	0.6	0.8	1.1	1.4	1.0	1.0	1.6	1.3	1.4	2.2	2.9	4.5	6.0	6.5	5.3	4.9	5.2	4.4	3.4	3.0	2.2	5.7	2.8	6.5	0.4
16	6.7	4.5	4.2	3.0	2.9	1.2	1.6	3.0	2.9	4.3	5.2	3.3	2.2	1.9	2.5	3.0	2.4	8.1	3.8	1.7	3.3	1.6	4.3	5.1	3.4	8.1	1.2
17	1.7	0.8	1.4	0.9	1.3	0.7	0.9	1.4	1.4	1.9	1.6	1.9	2.9	1.9	2.1	2.5	3.6	6.0	9.1	1.4	1.3	3.5	1.4	0.9	2.2	9.1	0.7
18	0.9	0.7	1.0	0.8	0.6	0.9	0.8	1.5	3.0	3.6	4.0	7.5	7.8	3.6	3.6	2.6	3.5	4.6	6.6	7.0	3.5	2.9	3.2	4.4	3.3	7.8	0.6
19	4.5	2.9	2.7	2.0	2.4	1.5	0.8	0.8	4.3	6.9	6.4	4.6	7.0	5.7	5.5	5.8	4.7	2.8	5.4	6.1	6.2	4.9	0.8	1.0	4.0	7.0	0.8
20	0.9	1.4	1.0	1.4	0.8	0.9	1.1	1.3	1.5	1.8	2.1	2.6	2.5	2.4	3.8	3.3	2.5	2.4	2.0	2.4	3.7	3.2	1.3	1.3	2.0	3.8	0.8
21	1.3	0.6	0.9	1.0	0.9	0.9	1.1	1.2	1.4	1.9	1.7	1.8	2.4	2.0	2.3	2.7	2.6	3.2	4.7	5.1	3.9	2.4	1.3	1.0	2.0	5.1	0.6
22	1.2	1.0	1.0	0.8	1.2	1.0	1.1	1.2	1.6	2.1	2.5	2.1	2.5	2.6	3.6	3.5	4.2	6.1	6.0	5.9	5.0	2.9	1.1	0.9	2.5	6.1	0.8
23	0.9	1.3	1.0	0.9	1.3	0.8	0.9	1.6	2.4	2.3	2.2	1.8	1.9	3.5	4.5	5.5	7.7	7.2	7.4	7.2	10.1	9.1	7.4	5.1	3.9	10.1	0.8
24	3.4	6.2	6.4	4.5	5.0	3.7	2.6	3.7	5.0	3.6	4.4	5.5	4.8	6.0	5.0	4.3	6.2	6.4	4.3	5.1	6.9	6.4	2.9	1.8	4.8	6.9	1.8
25	1.0	1.1	0.8	0.7	1.5	1.2	1.0	1.3	2.1	1.5	2.3	2.1	2.4	2.2	2.4	2.1	3.7	5.4	7.7	6.6	6.8	5.3	4.1	1.4	2.8	7.7	0.7
26	1.2	0.8	1.6	1.5	1.0	2.7	3.1	2.9	2.1	2.8	3.7	4.1	5.3	6.6	8.7	12.2	11.9	13.7	10.5	7.6	6.0	3.3	2.9	1.8	4.9	13.7	0.8
27	2.9	3.3	1.1	0.9	1.1	1.3	1.2	1.5	1.6	2.1	2.3	1.4	2.6	3.1	2.1	3.2	2.5	2.9	5.9	3.7	1.7	0.9	1.1	1.4	2.2	5.9	0.9
28	1.3	1.6	2.0	2.6	1.4	2.8	6.8	7.3	5.6	Au	Au	Ca	Ca	5.2	6.9	7.5	7.8	9.1	11.4	12.3	14.7	12.0	8.9	6.2	6.7	14.7	1.3
29	5.5	7.1	6.9	4.2	2.3	1.8	1.4	1.7	3.7	5.4	5.2	5.4	5.6	5.7	6.0	5.9	6.2	6.2	5.6	5.3	3.6	3.5	3.0	1.4	4.5	7.1	1.4
30	1.8	1.8	0.8	0.9	0.7	1.0	1.2	1.7	1.4	1.3	1.3	2.6	2.9	2.9	3.0	2.4	2.5	1.7	1.3	4.4	6.3	3.1	1.6	2.0	2.1	6.3	0.7
31	2.0	5.3	4.0	2.4	3.7	4.5	1.8	2.0	1.9	2.7	3.1	2.6	4.5	4.5	2.8	4.6	3.9	4.8	2.6	3.9	1.7	2.3	3.1	1.3	3.2	5.3	1.3
Avg	1.9	2.1	1.9	1.7	1.7	1.7	1.6	1.9	2.4	2.7	3.2	3.6	4.2	4.1	4.3	4.7	5.1	5.9	5.7	4.9	4.5	4.0	2.8	2.3	3.3	7.5	0.9
Max	6.7	7.1	6.9	5.6	5.0	4.5	6.8	7.3	5.6	6.9	6.5	7.8	8.1	8.1	8.7	12.2	11.9	13.7	11.4	12.3	14.7	12.0	8.9	6.2	6.7	14.7	1.8
Min	0.4	0.5	0.6	0.6	0.6	0.7	0.8	0.8	1.0	1.2	1.3	1.4	1.9	1.8	1.8	2.1	2.2	1.7	1.3	1.4	1.3	0.9	0.7	0.6	2.0	3.8	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.7	1.2	1.5	2.0	1.4	1.1	1.1	0.7	1.4	2.9	2.9	2.7	2.5	4.1	4.6	6.3	3.8	3.0	2.8	3.7	1.9	1.9	2.4	1.5	2.4	6.3	0.7
2	0.9	0.7	0.6	0.7	1.0	0.8	0.8	1.1	1.3	1.9	1.8	1.9	2.9	3.2	3.7	2.5	5.1	5.0	5.7	5.5	2.9	1.6	1.5	1.5	2.3	5.7	0.6
3	1.6	2.2	1.7	1.3	1.5	1.4	2.1	1.2	3.8	7.4	6.0	5.2	5.2	6.5	7.9	10.0	8.5	7.2	5.6	4.6	3.4	2.5	7.5	8.7	4.7	10.0	1.2
4	4.1	1.5	1.0	1.2	0.9	1.3	1.1	1.1	1.8	3.7	6.3	5.8	8.5	6.3	6.0	5.8	6.4	6.4	5.3	3.8	3.3	3.0	2.2	1.7	3.7	8.5	0.9
5	0.9	0.9	0.9	1.3	1.5	1.2	1.4	1.2	1.4	2.4	6.5	7.5	7.1	7.6	7.3	6.8	7.4	7.0	6.9	5.9	5.8	4.0	4.0	4.5	4.2	7.6	0.9
6	4.7	2.7	2.0	1.6	1.5	0.8	0.9	1.4	1.7	1.7	2.4	4.5	4.8	4.8	5.0	5.5	4.7	5.1	4.7	3.3	3.1	2.7	2.8	1.5	3.1	5.5	0.8
7	0.8	0.7	1.1	1.0	0.8	0.6	0.9	1.3	1.4	1.8	3.1	3.5	4.0	4.3	4.6	4.2	4.5	5.4	4.8	5.3	5.2	5.4	4.1	3.7	3.0	5.4	0.6
8	3.8	1.9	1.9	1.2	1.6	1.2	1.1	1.6	2.5	4.1	4.1	4.6	5.1	5.6	5.4	4.9	4.7	4.8	5.0	4.3	3.5	2.3	1.5	1.0	3.2	5.6	1.0
9	0.6	1.2	1.0	2.0	1.3	0.8	1.0	1.7	1.5	4.1	8.1	7.6	6.6	7.4	7.7	7.2	8.6	8.9	7.7	7.0	5.7	4.2	4.2	3.3	4.6	8.9	0.6
10	1.4	1.0	0.9	0.9	0.7	1.0	0.9	1.4	1.5	2.4	3.0	5.4	7.0	6.6	7.4	6.7	8.8	10.1	8.1	7.6	4.6	3.9	4.6	6.4	4.3	10.1	0.7
11	4.1	3.7	1.6	1.0	0.7	0.9	1.1	1.3	1.6	3.2	4.3	3.9	3.7	3.6	3.8	3.6	3.8	4.1	3.3	3.3	3.8	4.7	3.8	2.9	3.0	4.7	0.7
12	2.7	2.1	2.2	2.6	0.7	0.7	1.2	2.0	2.3	1.9	2.5	3.1	2.7	4.1	3.3	4.7	3.9	5.5	3.8	2.8	5.9	4.7	9.0	10.1	3.5	10.1	0.7
13	7.2	3.9	3.6	1.9	2.4	2.7	5.4	5.1	5.7	7.9	7.9	6.7	7.4	7.0	7.2	8.0	7.0	7.8	7.7	7.4	4.6	5.7	5.6	3.1	5.8	8.0	1.9
14	4.0	4.2	3.6	1.7	1.3	3.1	2.6	2.4	4.5	4.7	5.1	5.6	8.1	8.1	7.6	7.0	8.5	8.3	8.1	8.4	6.8	4.7	4.6	3.4	5.3	8.5	1.3
15	3.1	2.5	2.2	1.7	1.7	0.9	1.2	0.9	1.4	2.0	3.4	3.0	3.3	4.7	4.2	2.8	6.2	3.2	6.0	5.3	3.3	2.7	3.8	3.2	3.0	6.2	0.9
16	2.0	2.7	1.8	1.6	2.3	1.5	1.4	0.9	1.4	1.5	2.3	5.3	6.0	3.9	3.0	3.1	4.2	5.8	6.0	6.4	7.7	9.0	8.3	7.9	4.0	9.0	0.9
17	8.6	8.4	7.0	7.2	4.0	5.1	4.7	3.9	1.5	2.5	2.7	4.3	8.1	7.5	9.3	6.6	6.2	6.9	9.8	7.3	4.5	5.1	3.0	3.0	5.7	9.8	1.5
18	4.6	5.4	2.3	1.5	4.3	4.1	2.8	1.9	3.2	4.5	3.5	4.3	4.3	5.7	5.5	3.7	3.8	3.7	3.7	2.9	1.6	1.1	2.0	2.2	3.4	5.7	1.1
19	1.4	1.6	1.8	1.9	2.5	3.0	2.8	2.2	1.8	2.3	4.2	6.3	6.1	4.8	5.1	5.9	6.2	7.1	6.1	5.0	5.5	5.4	3.5	1.9	3.9	7.1	1.4
20	1.0	0.9	1.0	1.4	1.3	1.1	1.0	1.2	1.5	1.5	4.2	4.0	3.0	2.7	3.6	7.1	9.2	5.2	5.5	6.3	5.4	3.4	2.8	3.6	3.2	9.2	0.9
21	4.4	5.9	4.8	3.9	3.1	1.6	1.7	2.4	1.9	2.3	3.2	3.5	3.5	3.5	3.9	3.6	3.4	4.7	3.8	2.7	2.8	3.3	1.2	1.4	3.2	5.9	1.2
22	0.9	1.0	1.3	0.7	0.8	0.7	1.1	1.9	2.1	2.6	3.3	2.9	3.8	3.5	4.1	5.7	3.9	2.8	4.3	2.7	2.2	2.0	1.5	1.9	2.4	5.7	0.7
23	0.9	0.9	1.0	1.0	1.0	0.7	0.8	1.1	1.3	1.6	2.3	3.5	3.1	2.8	2.5	2.3	6.6	5.5	2.7	5.0	5.2	2.4	2.3	1.5	2.4	6.6	0.7
24	1.1	1.1	0.9	0.9	0.7	0.7	1.1	1.2	1.7	2.2	2.8	2.7	3.4	1.4	1.6	3.5	2.8	1.6	2.6	3.6	3.4	3.7	1.9	1.4	2.0	3.7	0.7
25	1.4	0.6	0.8	1.6	0.9	1.7	1.4	1.4	2.4	2.3	3.0	2.9	2.5	2.7	2.5	3.0	2.6	3.3	9.9	3.5	2.9	2.1	2.6	2.7	2.5	9.9	0.6
26	1.4	1.8	2.0	1.3	1.5	1.8	1.1	0.9	1.4	1.5	1.5	1.8	2.7	3.9	4.7	5.7	4.1	5.4	3.0	1.2	1.9	4.3	4.8	2.6	2.6	5.7	0.9
27	1.4	1.6	1.5	2.2	1.3	1.3	1.8	1.8	1.5	5.2	5.1	4.8	4.9	5.8	7.5	8.3	6.0	3.2	3.6	2.5	2.5	1.9	2.5	1.9	3.3	8.3	1.3
28	1.1	0.8	1.3	2.1	2.3	2.7	1.8	3.0	5.0	6.4	6.2	6.3	7.7	7.7	6.7	7.1	8.1	7.6	7.1	4.3	3.4	3.0	3.4	3.2	4.5	8.1	0.8
29	2.6	0.9	2.1	1.9	2.1	1.5	1.3	2.0	6.9	6.6	7.0	7.2	7.4	7.2	6.1	6.3	8.6	8.8	8.4	7.4	9.0	2.2	2.5	2.4	4.9	9.0	0.9
30	2.3	1.2	2.9	2.6	2.8	3.9	2.2	3.7	4.6	5.0	4.2	4.1	4.9	5.3	4.7	4.5	4.9	5.2	5.5	4.9	2.1	4.4	2.4	1.1	3.7	5.5	1.1
Avg	2.5	2.2	1.9	1.8	1.7	1.7	1.7	1.8	2.4	3.3	4.1	4.5	5.0	5.1	5.2	5.4	5.8	5.6	5.6	4.8	4.1	3.6	3.5	3.2	3.6	7.3	0.9
Max	8.6	8.4	7.0	7.2	4.3	5.1	5.4	5.1	6.9	7.9	8.1	7.6	8.5	8.1	9.3	10.0	9.2	10.1	9.9	8.4	9.0	9.0	9.0	10.1	5.8	10.1	1.9
Min	0.6	0.6	0.6	0.7	0.7	0.6	0.8	0.7	1.3	1.5	1.5	1.8	2.5	1.4	1.6	2.3	2.6	1.6	2.6	1.2	1.6	1.1	1.2	1.0	2.0	3.7	0.6

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
April 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	106	55	90	91	182	43	170	106	128	111	146	135	119	79	47	53	40	65	126	129	359	279	206	335	97
2	284	296	307	291	101	203	328	164	105	317	195	292	310	334	316	284	308	314	299	291	294	266	306	262	292
3	188	350	216	151	191	41	101	143	113	94	107	79	353	49	135	229	219	238	264	276	265	28	359	204	155
4	162	144	170	176	213	360	338	284	131	88	347	286	258	303	290	309	281	255	170	290	274	232	295	309	266
5	289	288	267	260	258	340	249	292	263	271	252	271	308	285	290	282	261	267	287	291	294	269	285	253	278
6	284	289	316	295	302	289	267	324	295	299	293	278	286	295	299	304	299	296	290	281	252	276	291	292	291
7	284	279	208	164	57	182	266	313	261	246	284	284	286	289	290	291	289	289	289	288	244	304	4	163	275
8	139	311	101	128	148	200	87	128	47	53	Ca	Ca	Ca	258	274	273	277	265	288	297	309	300	277	257	267
9	259	276	272	283	285	277	308	321	318	307	296	293	303	308	293	293	287	279	276	288	276	307	289	293	291
10	299	290	92	25	36	213	339	79	48	39	295	304	295	Co	Co	292	296	310	315	314	299	288	270	28	324
11	314	280	77	315	287	128	277	67	284	296	294	290	288	288	291	293	287	292	307	309	304	294	286	268	296
12	275	309	294	304	98	204	212	156	122	69	36	19	47	54	23	30	41	43	46	51	66	69	49	70	46
13	126	19	284	326	341	314	308	63	74	59	72	33	16	14	18	56	261	302	294	299	305	300	15	32	356
14	106	122	176	162	174	228	166	146	104	90	85	57	257	294	318	304	310	306	260	253	283	275	249	249	229
15	30	339	289	271	276	278	298	305	290	299	302	285	278	284	283	277	298	293	310	317	347	290	291	267	296
16	248	212	338	265	351	61	348	41	36	357	298	319	281	294	298	295	295	294	297	303	309	274	263	300	307
17	308	299	257	161	2	192	154	128	128	107	46	28	342	290	323	328	357	348	298	304	322	307	296	292	321
18	301	288	269	303	300	300	302	297	295	316	306	286	260	259	267	263	282	301	308	302	292	315	289	287	291
19	80	29	350	149	178	191	183	98	113	97	106	90	43	90	305	147	32	289	283	286	262	285	299	308	72
20	307	263	249	297	292	290	300	280	297	297	300	307	303	296	300	294	298	288	293	309	310	303	338	100	297
21	293	201	136	166	106	84	10	108	106	140	151	120	132	101	86	133	165	250	252	281	253	332	291	30	138
22	183	45	203	110	68	93	38	3	9	13	359	289	307	302	305	308	316	292	294	289	291	285	286	289	321
23	271	269	255	272	271	278	254	261	279	281	266	265	251	251	264	271	273	317	350	312	302	307	322	308	280
24	326	282	286	307	340	110	249	111	150	10	57	223	339	297	305	307	320	326	305	308	276	303	13	284	311
25	334	328	349	282	215	189	155	203	79	101	141	142	94	135	167	94	63	136	135	156	270	86	63	315	127
26	283	292	294	306	282	316	329	306	293	293	292	285	288	313	315	292	293	302	311	302	292	276	277	280	296
27	286	272	289	303	303	246	1	24	284	291	280	282	292	269	296	290	294	292	291	272	271	269	260	279	288
28	286	279	281	260	263	266	289	275	287	282	285	275	276	299	286	284	271	270	303	273	277	273	255	276	278
29	305	294	302	173	343	263	47	81	84	318	44	129	173	224	239	296	295	260	266	280	300	308	65	144	290
30	192	109	62	53	48	153	165	131	108	105	101	118	126	137	177	294	281	294	314	300	295	291	67	121	117
Prev	280	298	276	261	294	242	292	71	60	359	323	298	300	299	298	296	298	293	293	293	292	294	304	289	295

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
May 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	355	186	47	47	177	173	169	144	72	78	104	60	263	263	283	282	315	312	309	292	280	38	108	145	4
2	140	190	338	150	287	179	342	6	75	82	287	279	290	298	292	277	274	275	261	270	284	321	329	86	291
3	212	276	124	175	179	177	173	144	124	102	52	9	6	67	42	315	303	315	309	303	308	311	306	299	313
4	292	289	296	295	302	326	311	339	83	17	326	313	286	293	299	296	301	314	318	314	303	303	303	315	310
5	62	300	306	352	319	271	352	321	128	118	66	267	280	286	295	316	297	305	300	286	304	286	290	276	306
6	317	328	345	275	301	308	149	123	44	309	286	277	303	302	322	320	1	338	53	133	126	118	96	62	339
7	47	19	35	37	27	1	263	96	95	143	14	3	183	70	346	322	298	310	311	324	335	306	305	157	360
8	151	73	155	183	208	201	145	142	129	92	106	265	168	289	148	8	305	306	289	297	306	306	59	38	176
9	143	86	169	196	271	317	258	46	344	290	283	266	288	279	276	277	275	283	298	292	281	273	287	267	279
10	261	287	300	300	295	309	303	276	274	270	274	271	276	297	289	307	Co	197	275	64	277	281	276	291	284
11	284	306	231	177	150	170	142	105	49	36	32	26	22	17	32	10	122	116	118	119	34	77	17	351	63
12	342	299	283	161	66	239	54	109	100	103	163	168	191	283	256	297	284	275	265	296	293	294	142	57	261
13	52	29	57	106	140	179	129	88	125	125	105	75	185	48	310	313	320	290	301	307	296	263	360	115	59
14	179	53	127	181	167	182	169	103	141	135	124	350	282	259	275	302	313	315	300	303	314	285	55	150	223
15	95	169	201	149	153	189	164	119	143	109	84	97	247	326	298	304	307	306	313	303	307	299	301	136	216
16	121	109	111	110	107	111	138	128	119	132	142	139	128	59	17	163	41	36	22	100	121	205	250	140	114
17	225	7	111	93	159	340	83	75	133	119	105	67	110	98	286	310	307	306	210	159	125	201	168	156	124
18	168	144	85	70	96	162	56	26	131	130	138	192	193	169	201	156	166	195	262	258	264	293	290	292	170
19	294	274	288	288	275	265	79	63	315	289	294	314	318	285	279	266	313	355	288	302	303	302	48	35	306
20	150	353	302	221	260	141	136	142	90	104	108	142	118	114	35	320	294	356	351	354	309	360	30	92	60
21	54	94	133	157	145	11	125	138	120	128	82	288	121	52	238	154	284	293	303	306	331	316	124	143	115
22	188	123	37	127	153	179	155	130	146	160	163	122	117	55	345	270	305	314	311	309	311	327	52	114	127
23	110	124	170	64	349	106	120	186	173	180	162	135	57	319	295	313	305	300	303	315	311	305	304	314	300
24	309	308	303	320	311	311	326	308	298	280	287	287	298	307	297	285	293	312	302	313	312	310	254	286	301
25	11	29	164	70	337	130	106	102	128	131	85	31	64	20	81	287	287	311	303	298	315	295	289	340	18
26	126	340	337	61	104	310	331	294	338	335	348	358	319	320	311	316	314	309	309	313	308	283	265	316	324
27	319	259	170	165	169	172	134	134	129	160	148	65	39	333	20	57	86	109	117	159	280	76	181	179	132
28	62	145	2	280	77	360	295	292	290	Au	Au	Ca	Ca	302	305	298	305	307	312	310	314	316	313	311	315
29	311	303	317	313	285	230	45	64	317	293	289	300	314	325	305	308	308	317	319	316	342	301	300	60	315
30	296	204	191	98	24	140	117	142	93	101	73	156	118	86	53	124	183	277	245	283	297	297	276	312	143
31	353	297	320	308	320	308	102	134	134	131	137	106	255	345	90	90	28	179	188	215	156	272	305	271	239
Prev	31	329	337	137	214	217	120	105	106	116	95	354	267	333	314	305	306	305	299	299	304	301	313	14	313

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
June 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	16	300	281	304	309	353	160	269	138	134	128	139	179	204	197	256	171	123	128	130	129	133	63	140	159
2	160	50	115	147	157	154	130	90	124	136	133	50	344	268	265	355	300	302	311	313	322	355	30	48	55
3	198	359	167	194	337	165	188	54	334	296	333	290	310	296	285	303	321	312	295	291	279	279	289	312	294
4	233	217	315	39	89	197	84	84	48	347	287	288	312	298	284	296	284	299	291	261	276	263	276	252	290
5	59	157	46	159	180	175	146	141	120	41	295	285	275	300	300	295	305	305	303	308	304	316	306	158	284
6	139	160	182	199	167	160	42	133	113	124	1	331	299	325	306	329	322	312	326	331	160	53	141	107	93
7	104	13	5	95	16	34	56	64	113	69	354	287	317	327	303	301	305	296	307	303	307	312	301	308	343
8	332	83	116	3	291	57	85	71	5	271	295	298	286	298	319	311	321	299	300	301	285	296	84	163	325
9	124	158	168	156	185	162	88	144	109	353	288	285	284	282	280	277	294	299	296	292	300	285	288	275	262
10	276	159	100	198	126	128	89	120	82	69	267	298	303	308	297	303	316	311	306	309	322	303	322	290	307
11	285	299	182	155	7	42	71	118	123	3	338	308	330	341	252	147	92	61	33	68	111	116	121	125	66
12	122	138	162	161	105	46	84	108	116	149	129	132	74	126	69	16	329	40	52	208	317	290	300	303	97
13	302	310	263	356	268	293	310	292	301	294	300	298	308	284	283	291	298	293	297	301	281	286	313	259	295
14	283	296	298	309	343	307	300	275	291	298	279	285	295	293	303	317	309	296	297	316	316	311	299	300	301
15	313	318	310	295	343	183	210	6	33	49	9	26	10	338	329	275	218	295	291	285	208	109	210	148	313
16	157	172	160	143	174	194	162	179	152	155	205	234	288	332	339	332	324	323	292	300	292	288	287	284	242
17	287	285	286	288	268	287	287	289	326	307	287	328	293	294	316	287	291	314	318	312	297	303	259	299	296
18	323	314	297	103	296	288	305	298	301	300	286	298	304	314	320	295	309	299	299	297	293	308	290	289	302
19	329	326	317	317	307	297	306	281	317	14	298	280	289	288	288	298	292	291	292	296	309	309	307	291	303
20	85	59	152	173	182	177	123	105	135	101	321	308	337	27	332	311	305	290	299	303	297	286	290	294	310
21	297	311	298	291	287	314	112	143	98	24	8	11	342	341	327	317	331	336	325	314	307	277	251	170	322
22	42	116	339	75	28	119	15	132	135	138	133	147	150	163	357	120	77	51	320	173	111	54	251	188	104
23	33	219	136	52	185	55	98	118	132	127	140	137	141	109	107	170	201	179	188	151	134	122	116	154	135
24	93	54	178	51	6	41	130	122	125	144	133	141	232	357	10	122	121	6	10	111	161	133	Co	170	104
25	75	343	12	280	263	304	61	45	276	278	288	239	245	205	251	319	349	279	183	107	168	157	277	295	281
26	221	248	159	81	266	305	151	120	50	130	57	359	341	312	324	328	276	306	213	88	267	298	289	307	301
27	352	273	290	287	192	303	281	325	48	304	293	290	320	302	289	302	293	260	227	301	270	293	274	277	291
28	332	45	323	280	266	276	273	265	278	288	294	296	296	293	287	277	282	291	306	300	292	260	277	268	289
29	258	255	277	329	265	269	135	26	300	295	293	289	285	273	280	288	290	315	297	305	306	266	260	277	286
30	290	306	253	265	284	256	337	274	292	272	281	262	259	266	266	284	313	315	318	323	327	340	307	141	289
Prev	325	305	249	247	271	265	99	102	79	8	303	295	300	301	302	301	303	309	301	301	286	299	288	254	299

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	62	36	64	40	55	79	16	39	34	43	36	40	63	29	24	28	13	48	20	21	64	92	24	56	43	92	13
2	54	12	11	20	101	83	54	28	38	88	75	35	27	42	16	23	25	33	26	32	13	37	40	78	41	101	11
3	72	32	72	87	46	74	51	41	34	38	51	75	90	62	89	42	34	41	19	16	74	48	58	81	55	90	16
4	66	52	32	78	94	42	59	101	57	25	60	26	26	20	29	8	25	26	41	68	26	61	54	22	46	101	8
5	12	21	25	23	66	52	8	36	38	28	16	24	22	20	19	20	23	22	20	23	18	22	23	19	25	66	8
6	25	24	18	24	14	16	22	74	32	17	15	20	15	20	15	14	11	10	13	24	36	21	14	10	21	74	10
7	18	29	18	83	90	90	24	42	33	30	17	19	17	20	14	17	18	12	14	16	21	43	27	79	33	90	12
8	71	78	79	48	54	39	103	74	81	42	Ca	Ca	Ca	23	22	24	23	24	17	10	5	18	26	24	42	103	5
9	35	27	28	15	17	21	44	22	8	9	10	21	16	14	12	12	17	20	23	15	33	17	17	6	19	44	6
10	9	11	66	32	92	74	56	61	26	32	16	14	12	Co	Co	18	12	12	8	5	10	9	71	100	34	100	5
11	43	43	94	32	78	78	97	56	63	15	13	18	20	23	23	25	23	18	9	9	18	23	40	38	37	97	9
12	21	7	23	15	62	31	76	37	22	39	16	14	47	33	9	11	11	13	15	20	29	16	15	33	26	76	7
13	39	18	50	34	33	95	43	57	49	69	66	34	28	42	40	50	30	22	13	9	7	79	44	70	43	95	7
14	42	28	30	54	10	60	14	23	43	28	47	33	69	27	13	19	15	15	20	15	12	23	18	34	29	69	10
15	76	23	20	17	22	24	12	7	13	14	17	19	22	18	18	26	13	15	14	15	34	73	28	22	23	76	7
16	13	31	27	42	42	78	65	70	27	45	28	26	26	13	15	15	11	11	11	7	7	17	15	12	27	78	7
17	16	21	54	56	31	42	24	17	22	40	46	33	28	20	21	26	24	29	52	27	9	46	19	8	30	56	8
18	9	17	21	9	8	8	6	8	8	7	13	16	21	20	24	22	23	12	10	13	30	16	18	9	15	30	6
19	70	70	44	35	33	17	14	47	29	29	43	47	53	81	86	61	95	36	21	16	9	18	9	9	41	95	9
20	9	23	13	12	11	13	13	20	17	12	16	17	17	14	14	18	22	17	23	5	6	7	65	62	19	65	5
21	85	75	46	48	77	79	25	49	32	37	35	46	50	33	31	38	47	35	32	22	18	81	35	94	48	94	18
22	85	58	40	37	57	75	59	74	37	67	52	23	10	13	9	9	12	12	20	8	9	14	14	14	34	85	8
23	22	23	18	25	23	22	16	20	22	21	23	24	17	15	25	25	27	18	26	31	20	25	12	23	22	31	12
24	35	13	12	44	41	58	47	59	57	64	50	55	27	14	17	15	9	12	13	10	30	57	28	14	33	64	9
25	53	79	65	13	72	59	37	62	84	24	53	38	50	71	65	29	59	15	19	26	58	91	75	9	50	91	9
26	18	16	35	16	24	57	48	13	9	10	9	14	14	10	11	16	9	12	13	11	17	22	19	22	19	57	9
27	28	26	24	11	13	70	36	65	57	20	22	25	30	44	19	10	13	11	12	22	23	26	21	22	27	70	10
28	18	21	19	25	25	24	19	23	14	18	18	20	23	23	23	22	21	22	10	22	21	15	9	19	20	25	9
29	26	29	44	84	78	48	60	40	45	80	64	90	26	34	65	37	24	30	27	19	6	9	85	46	46	90	6
30	65	60	75	75	44	52	13	27	30	35	34	25	76	50	53	57	29	14	9	5	6	7	79	73	41	79	5
Avg	40	33	39	38	47	52	39	43	35	34	33	31	32	29	28	25	24	21	19	18	22	34	33	37	33	76	9
Max	85	79	94	87	101	95	103	101	84	88	75	90	90	81	89	61	95	48	52	68	74	92	85	100	55	103	18
Min	9	7	11	9	8	8	6	7	8	7	9	14	10	10	9	8	9	10	8	5	5	7	9	6	15	25	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	73	77	49	32	30	29	45	17	51	37	34	71	31	28	33	29	12	11	8	16	13	59	54	48	37	77	8
2	59	68	63	17	67	67	99	94	58	33	39	23	20	15	19	26	22	21	20	19	23	9	41	45	40	99	9
3	81	96	94	75	60	64	36	21	20	24	67	29	34	47	70	30	11	7	7	11	42	9	7	7	40	96	7
4	12	20	22	17	14	13	14	58	63	31	19	15	15	16	14	20	25	10	10	9	10	9	15	43	21	63	9
5	45	28	82	38	23	29	72	73	36	72	54	71	25	20	15	10	11	14	12	23	10	20	18	21	34	82	10
6	30	40	67	48	101	58	64	26	60	62	36	19	21	33	31	21	30	33	43	12	13	9	12	26	37	101	9
7	28	79	56	45	14	43	51	48	36	64	53	75	89	74	35	20	24	29	10	19	18	8	50	56	43	89	8
8	30	86	33	9	23	14	42	19	28	43	43	65	77	78	94	98	35	12	14	9	5	67	45	76	44	98	5
9	29	74	23	9	66	61	100	80	43	12	20	22	18	22	21	21	21	18	12	15	17	22	22	26	32	100	9
10	10	17	22	36	22	20	31	18	21	22	25	21	21	97	37	58	Co	26	47	58	30	13	18	23	30	97	10
11	18	28	70	67	14	27	36	15	21	10	10	10	12	19	22	45	21	9	12	20	83	11	34	50	28	83	9
12	71	33	27	63	76	83	55	41	42	44	44	29	42	76	44	53	21	21	21	9	7	4	75	71	44	83	4
13	86	79	53	59	42	35	25	47	24	36	34	42	84	91	78	34	19	18	14	9	12	9	44	74	44	91	9
14	40	67	40	41	23	31	77	47	24	44	51	77	23	19	23	25	12	10	8	12	7	15	93	66	36	93	7
15	90	38	44	65	65	47	30	38	29	46	49	37	79	28	16	16	18	23	8	12	11	14	89	28	38	90	8
16	8	11	9	12	13	48	15	14	27	17	14	32	88	82	38	57	37	10	46	59	32	78	20	50	34	88	8
17	42	60	67	53	20	92	88	39	37	40	39	63	101	79	85	73	33	32	12	89	63	18	64	47	56	101	12
18	45	72	56	67	58	58	49	34	56	21	32	13	8	37	16	29	66	24	15	12	22	16	16	13	35	72	8
19	9	26	17	21	16	26	76	73	28	20	22	26	18	28	31	20	66	77	19	10	6	8	81	53	32	81	6
20	48	47	88	60	95	53	33	27	70	54	43	56	80	55	65	35	32	29	30	44	14	91	66	54	53	95	14
21	66	79	47	68	61	93	80	46	52	36	65	87	74	55	84	36	65	40	10	8	16	71	71	43	56	93	8
22	68	61	89	51	83	57	18	45	37	30	31	39	76	45	46	37	29	13	10	6	12	49	56	48	43	89	6
23	66	55	51	74	22	90	68	38	27	26	23	45	79	41	36	20	14	13	9	7	8	6	7	16	35	90	6
24	16	6	6	21	7	8	36	39	10	21	18	16	20	18	26	25	11	10	14	7	6	6	48	42	18	48	6
25	56	90	55	95	33	58	49	35	19	56	54	72	70	65	63	66	23	17	8	5	7	16	14	85	46	95	5
26	38	84	74	65	62	38	41	9	58	36	39	40	22	13	15	9	9	8	10	11	11	17	16	52	32	84	8
27	13	97	28	67	46	28	47	39	46	32	52	83	37	50	61	48	53	41	11	24	52	53	43	47	46	97	11
28	85	80	25	20	78	40	12	7	14	Au	Au	Ca	Ca	20	13	14	10	9	7	8	9	7	8	11	24	85	7
29	11	5	6	12	33	82	24	29	53	17	24	28	22	23	28	21	20	13	14	8	20	24	26	58	25	82	5
30	40	84	62	77	38	23	40	28	46	54	87	59	37	48	42	60	39	97	86	21	5	49	92	63	53	97	5
31	55	32	22	77	30	9	96	21	39	27	29	61	85	19	52	53	65	89	66	45	89	40	57	72	51	96	9
Avg	44	55	47	47	43	46	50	38	38	36	38	44	47	43	40	36	28	25	20	20	22	27	42	46	38	88	8
Max	90	97	94	95	101	93	100	94	70	72	87	87	101	97	94	98	66	97	86	89	89	91	93	85	56	101	14
Min	8	5	6	9	7	8	12	7	10	10	10	10	8	13	13	9	9	7	7	5	5	4	7	7	18	48	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	54	35	26	30	86	65	40	89	24	17	27	65	93	26	28	60	33	19	12	11	30	47	32	29	41	93	11
2	87	68	68	45	30	21	31	54	39	30	47	68	44	56	71	60	23	26	14	8	14	44	32	50	43	87	8
3	51	82	82	83	84	58	63	48	44	12	25	21	26	24	19	13	18	13	13	15	17	21	13	6	35	84	6
4	61	73	51	91	102	83	76	81	36	58	22	31	17	25	31	27	20	17	18	21	19	13	20	45	43	102	13
5	68	82	76	23	18	17	14	46	51	41	19	22	25	18	18	22	15	14	10	10	8	19	55	25	30	82	8
6	20	22	25	29	11	51	57	32	38	57	82	39	37	43	34	24	27	21	25	48	71	59	17	61	39	82	11
7	52	43	50	60	51	41	32	40	60	51	66	48	30	28	17	26	30	10	10	7	8	9	11	20	33	66	7
8	16	74	26	76	21	89	36	40	76	31	40	36	36	26	18	20	34	23	15	7	13	65	50	47	38	89	7
9	63	45	52	15	24	69	51	21	38	50	15	19	21	20	23	23	15	12	11	8	8	19	10	16	27	69	8
10	50	91	70	48	57	42	70	27	39	72	62	32	22	25	20	20	9	11	12	9	43	21	27	8	37	91	8
11	14	47	36	97	86	58	53	55	52	75	37	43	39	43	90	49	25	23	17	35	21	13	18	16	43	97	13
12	22	17	11	8	55	70	36	26	24	42	28	31	44	35	50	20	28	33	38	95	28	18	11	15	33	95	8
13	22	40	26	47	29	30	18	9	14	16	11	14	16	22	19	16	19	18	11	9	23	15	10	18	20	47	9
14	19	17	18	43	51	29	15	26	16	11	22	20	10	15	21	16	14	9	12	9	7	7	9	16	18	51	7
15	12	17	45	37	99	70	50	72	47	43	37	34	43	41	32	43	29	35	17	21	43	30	21	35	40	99	12
16	13	8	45	24	33	56	34	65	57	49	27	19	15	22	19	28	33	48	13	8	6	5	6	9	27	65	5
17	9	10	14	12	26	21	17	19	38	29	41	27	13	18	11	26	26	15	5	10	11	9	17	17	18	41	5
18	11	13	76	95	11	12	18	29	13	10	40	18	11	16	6	14	11	8	8	9	20	22	13	18	21	95	6
19	55	21	21	38	12	14	14	19	19	20	30	21	17	19	17	27	18	13	13	15	4	4	7	60	21	60	4
20	93	55	45	32	24	47	48	66	33	34	55	16	35	39	58	15	13	21	17	9	10	14	20	10	34	93	9
21	11	7	9	11	14	64	80	17	40	51	30	36	34	42	31	29	36	33	36	36	30	35	86	90	37	90	7
22	68	74	42	80	65	60	74	21	18	21	17	35	21	64	58	15	29	91	24	91	42	54	58	27	48	91	15
23	50	79	31	40	28	35	57	39	39	35	22	24	34	41	54	58	24	12	10	19	9	19	15	30	34	79	9
24	48	23	41	79	82	46	47	64	32	21	25	26	86	54	53	37	54	46	43	99	21	25	Co	47	48	99	21
25	81	64	52	11	52	64	80	25	40	40	50	39	49	56	53	46	46	47	22	22	27	31	47	31	45	81	11
26	38	76	36	72	21	90	37	98	72	19	60	30	25	28	17	52	81	13	38	55	49	16	11	24	44	98	11
27	30	42	35	19	49	21	53	46	76	23	24	34	30	22	14	9	9	40	41	40	37	19	21	28	32	76	9
28	79	92	40	16	15	42	36	28	21	20	13	18	16	12	18	21	19	16	12	10	8	17	19	16	25	92	8
29	30	59	26	45	48	59	63	61	23	17	15	16	20	23	20	17	16	10	16	10	9	68	38	15	30	68	9
30	31	55	12	17	18	10	52	23	25	28	35	35	27	24	25	34	21	14	11	29	68	13	62	81	31	81	10
Avg	42	48	40	44	43	48	45	43	38	34	34	31	31	31	32	29	26	24	18	26	23	25	26	30	34	81	9
Max	93	92	82	97	102	90	80	98	76	75	82	68	93	64	90	60	81	91	43	99	71	68	86	90	48	102	21
Min	9	7	9	8	11	10	14	9	13	10	11	14	10	12	6	9	9	8	5	7	4	4	6	6	18	41	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-0.3	-1.0	-1.6	-2.3	-2.2	-2.7	-3.6	-3.2	-2.3	-0.4	1.2	3.2	5.3	6.3	6.7	7.1	6.7	6.3	5.2	3.8	2.6	1.8	1.0	0.9	1.6	7.1	-3.6
2	0.3	0.0	-0.1	-0.2	-0.3	-0.6	-0.7	-0.6	-0.1	1.0	2.3	4.2	3.9	4.3	5.8	6.0	5.2	4.0	3.4	1.4	1.4	1.6	1.2	1.1	1.9	6.0	-0.7
3	0.3	0.5	0.4	-0.9	-1.9	-1.3	-1.6	-1.8	-0.8	0.9	2.8	4.9	6.1	7.1	8.2	8.8	9.1	9.3	8.6	7.9	6.8	3.6	2.8	3.0	3.4	9.3	-1.9
4	2.3	1.4	0.8	0.2	0.5	1.4	1.6	0.8	0.0	3.9	6.9	7.9	8.1	7.6	7.3	5.5	3.6	4.8	4.1	3.0	2.2	2.2	1.9	2.1	3.3	8.1	0.0
5	1.7	1.6	1.5	1.8	1.7	1.4	1.9	1.8	2.3	2.7	3.3	4.8	4.0	4.9	5.9	6.5	6.2	5.9	5.3	5.0	4.5	4.0	3.4	3.1	3.6	6.5	1.4
6	3.1	3.0	2.9	2.2	1.9	1.7	1.5	1.2	2.9	4.5	5.5	5.9	6.0	6.7	6.1	7.2	7.2	7.3	6.8	6.2	6.0	5.9	5.9	5.9	4.7	7.3	1.2
7	5.8	5.7	5.5	5.1	4.5	4.7	5.4	6.1	6.7	7.6	8.8	10.2	11.1	11.9	12.1	12.8	12.8	12.4	11.8	10.6	9.7	9.5	8.3	7.0	8.6	12.8	4.5
8	5.0	4.8	4.5	2.7	1.8	1.7	1.6	1.7	4.0	7.3	Ca	Ca	Ca	17.8	17.4	17.6	17.7	17.1	16.5	15.4	14.1	12.7	12.5	11.6	9.8	17.8	1.6
9	11.0	10.6	10.2	10.1	9.5	9.8	9.6	9.1	7.1	6.3	6.4	8.2	9.4	10.1	9.9	10.0	9.4	8.8	8.2	7.4	6.5	6.1	5.6	5.3	8.5	11.0	5.3
10	4.8	4.2	1.6	1.6	1.2	0.7	1.4	1.3	3.5	5.8	7.7	8.8	9.8	Co	Co	11.4	11.8	11.5	10.9	10.1	9.1	8.0	6.5	5.4	6.2	11.8	0.7
11	5.3	4.9	3.2	3.3	3.4	0.8	0.0	1.0	4.9	7.7	8.9	10.3	11.4	12.3	13.2	13.2	13.6	13.1	11.6	10.7	9.9	9.0	8.2	8.1	7.8	13.6	0.0
12	7.4	6.5	5.4	5.2	2.8	2.7	2.9	2.8	3.7	5.2	6.1	5.3	1.8	2.8	1.6	0.3	-0.3	-1.1	-1.6	-2.2	-2.5	-2.8	-3.2	-3.8	1.9	7.4	-3.8
13	-4.4	-4.9	-5.2	-5.2	-5.4	-5.7	-5.7	-4.7	-3.9	-2.8	-1.1	0.7	1.9	2.6	3.4	4.1	4.5	4.4	4.0	3.2	2.6	1.6	-0.7	-1.3	-0.8	4.5	-5.7
14	-1.9	-3.6	-3.6	-4.3	-4.9	-5.1	-6.5	-4.9	-2.5	-0.1	2.8	5.9	8.3	10.5	11.2	12.1	12.6	12.5	12.2	11.4	10.5	9.5	9.7	9.4	4.2	12.6	-6.5
15	6.7	7.7	7.7	7.9	6.9	6.9	7.2	7.6	7.2	6.9	5.8	5.3	4.5	5.8	6.3	5.8	4.3	4.5	3.4	3.2	2.7	3.1	3.1	1.7	5.5	7.9	1.7
16	1.5	1.3	1.4	1.6	1.1	0.4	1.1	1.7	2.8	4.0	4.9	5.2	6.2	6.4	7.0	6.9	6.7	6.6	6.2	5.8	5.6	5.3	5.0	5.0	4.2	7.0	0.4
17	4.8	4.9	4.6	3.5	3.3	3.3	2.5	3.3	4.9	6.9	8.9	10.5	11.0	11.4	10.8	11.2	11.7	11.9	11.1	10.3	9.0	8.3	7.3	6.6	7.6	11.9	2.5
18	6.0	6.0	5.7	5.5	5.1	4.5	4.1	4.1	4.5	2.6	2.7	2.5	4.8	6.1	6.3	6.7	6.8	6.7	6.1	5.2	4.6	4.2	3.4	2.9	4.9	6.8	2.5
19	1.5	0.8	-0.2	-1.7	-2.5	-2.5	-3.0	-2.3	0.0	2.7	5.7	8.7	11.3	13.3	14.3	15.2	16.0	16.5	16.0	14.6	14.6	12.8	11.0	8.4	7.1	16.5	-3.0
20	5.1	5.1	5.2	5.0	4.8	4.2	4.1	4.7	5.2	5.7	6.5	7.3	8.3	9.2	10.0	10.7	11.0	11.2	10.8	9.7	8.9	8.2	6.3	4.8	7.2	11.2	4.1
21	4.3	3.6	2.5	1.3	1.4	0.0	0.6	1.2	2.6	5.2	8.1	11.0	13.9	16.1	17.6	18.3	18.5	18.2	17.5	16.7	16.1	15.0	13.5	11.6	9.8	18.5	0.0
22	10.3	9.1	8.7	7.3	6.1	5.4	4.7	4.8	6.2	9.9	12.2	12.0	10.5	8.1	6.1	5.8	6.4	6.6	5.4	4.1	3.4	2.6	1.9	2.1	6.7	12.2	1.9
23	2.2	1.3	1.6	1.6	1.4	1.4	1.3	1.4	2.0	3.1	4.0	5.1	5.8	5.4	6.4	5.8	4.1	3.4	2.8	2.7	2.2	2.1	1.3	1.1	2.9	6.4	1.1
24	1.3	1.5	1.5	1.5	2.2	-0.3	0.5	1.5	2.6	4.4	5.6	6.8	7.1	7.9	6.0	6.9	7.7	8.2	7.6	6.0	5.5	5.6	5.3	4.9	4.5	8.2	-0.3
25	3.7	3.1	2.7	2.2	0.9	-0.4	0.0	0.2	3.0	4.9	6.7	8.1	9.7	10.9	11.5	9.9	9.3	9.0	7.0	5.8	5.2	5.5	4.4	3.1	5.3	11.5	-0.4
26	2.9	3.1	3.1	2.5	2.4	2.6	2.6	2.9	3.3	3.7	4.2	4.6	5.2	5.6	5.9	6.3	5.4	5.7	5.4	4.8	4.4	3.4	2.8	2.2	4.0	6.3	2.2
27	2.2	1.9	1.8	1.6	1.5	0.9	0.7	1.6	3.3	4.2	5.2	6.1	6.3	7.3	7.4	6.4	4.7	3.7	4.0	3.3	2.4	2.4	2.2	2.0	3.5	7.4	0.7
28	1.8	1.7	1.4	1.1	0.6	0.0	0.5	1.0	1.6	2.1	3.2	3.6	4.4	4.9	5.6	6.0	5.2	4.8	4.1	3.2	2.6	3.2	2.7	2.4	2.8	6.0	0.0
29	1.4	1.3	0.7	-0.2	-0.4	-0.4	-0.6	0.3	2.1	4.7	6.5	7.7	8.8	9.5	10.4	11.3	11.8	11.6	11.6	10.7	10.2	9.5	7.3	5.4	5.9	11.8	-0.6
30	4.5	3.2	2.8	1.6	0.3	-0.3	-0.5	1.0	3.2	5.8	8.4	11.0	12.6	13.8	15.1	16.1	16.9	17.0	16.8	15.9	14.8	14.1	10.5	9.2	8.9	17.0	-0.5
Avg	3.4	3.0	2.6	2.1	1.6	1.2	1.1	1.5	2.7	4.2	5.5	6.8	7.5	8.5	8.8	9.1	8.9	8.7	8.1	7.2	6.5	5.9	5.0	4.4	5.2	10.1	0.2
Max	11.0	10.6	10.2	10.1	9.5	9.8	9.6	9.1	7.2	9.9	12.2	12.0	13.9	17.8	17.6	18.3	18.5	18.2	17.5	16.7	16.1	15.0	13.5	11.6	9.8	18.5	5.3
Min	-4.4	-4.9	-5.2	-5.2	-5.4	-5.7	-6.5	-4.9	-3.9	-2.8	-1.1	0.7	1.8	2.6	1.6	0.3	-0.3	-1.1	-1.6	-2.2	-2.5	-2.8	-3.2	-3.8	-0.8	4.5	-6.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	9.0	6.9	6.2	5.2	4.3	2.6	3.1	3.9	6.4	9.4	12.0	15.6	18.0	19.1	19.8	20.5	20.7	20.7	20.3	19.3	17.7	15.3	14.2	13.7	12.7	20.7	2.6
2	13.0	12.0	11.7	9.3	9.2	8.3	6.9	7.7	10.0	13.3	17.8	19.0	19.4	20.0	20.2	20.5	20.0	19.7	18.8	17.6	17.2	16.6	15.3	12.6	14.8	20.5	6.9
3	12.6	11.7	10.4	10.3	9.5	8.7	8.9	9.5	10.6	11.9	13.0	13.8	13.9	14.9	15.8	16.9	17.3	15.0	13.0	12.2	11.3	10.4	9.5	8.8	12.1	17.3	8.7
4	8.4	8.1	7.8	7.0	5.4	4.7	4.5	4.4	4.9	5.7	6.7	6.9	9.1	10.4	11.3	11.7	12.3	11.4	10.5	9.6	8.4	7.9	7.0	6.3	7.9	12.3	4.4
5	5.9	4.6	3.8	3.8	3.9	3.7	3.7	4.5	5.2	6.6	7.8	8.3	9.6	10.7	10.3	9.0	9.0	9.7	9.6	9.3	8.4	7.5	6.9	6.2	7.0	10.7	3.7
6	5.4	4.8	4.2	3.8	2.0	3.0	2.5	3.6	6.0	7.5	7.8	8.0	8.6	9.5	9.9	10.2	9.4	6.5	5.9	3.6	2.6	2.1	1.5	1.4	5.4	10.2	1.4
7	1.2	1.1	0.9	0.8	0.4	0.3	0.5	0.7	1.1	2.0	2.9	3.7	4.9	6.2	7.5	8.1	8.8	9.0	8.9	8.2	7.4	6.8	5.0	2.9	4.1	9.0	0.3
8	2.0	1.8	0.3	-0.6	-0.3	-0.7	-0.3	0.7	2.9	5.5	8.0	9.7	10.7	11.6	12.7	13.5	13.9	13.8	13.0	12.4	11.9	10.5	8.1	7.4	7.0	13.9	-0.7
9	5.6	5.6	4.8	4.3	4.9	4.7	4.8	5.0	6.6	6.4	7.1	8.4	9.8	10.4	10.6	10.4	10.2	9.5	8.8	8.0	6.9	6.2	6.0	5.6	7.1	10.6	4.3
10	5.2	4.6	4.4	3.9	3.9	3.5	3.6	3.8	4.4	5.1	5.4	5.7	5.4	5.3	4.5	5.0	4.2	3.9	4.2	3.9	4.0	3.0	2.8	3.0	4.3	5.7	2.8
11	2.8	2.8	2.9	2.6	2.3	1.7	2.2	3.0	3.1	2.4	2.7	2.5	2.4	2.8	3.6	4.3	4.0	3.9	3.4	3.1	3.0	3.2	2.7	2.1	2.9	4.3	1.7
12	1.6	1.0	0.1	-1.8	-1.9	-2.3	-2.2	-1.1	1.1	3.4	5.3	6.7	7.9	9.1	9.8	10.6	11.2	11.4	11.1	10.6	9.4	8.5	5.7	4.7	5.0	11.4	-2.3
13	4.2	3.4	1.6	1.1	0.4	-0.2	-0.1	1.8	4.1	6.6	9.0	11.6	12.9	13.7	14.5	15.1	15.3	15.4	14.9	14.1	13.0	11.7	9.4	7.5	8.4	15.4	-0.2
14	6.8	5.7	4.2	3.4	2.6	1.9	2.3	3.3	5.2	7.8	10.9	13.8	15.4	15.9	16.7	17.6	17.8	17.8	17.7	17.3	16.4	15.3	13.2	11.1	10.8	17.8	1.9
15	10.8	9.7	9.1	8.2	6.4	5.5	5.4	7.5	9.9	12.2	15.3	17.6	19.4	20.4	20.8	21.5	21.4	21.4	20.8	19.8	19.1	17.9	15.3	12.8	14.5	21.5	5.4
16	11.4	10.1	9.4	9.2	8.9	8.9	9.2	10.0	11.4	12.8	13.9	15.1	16.2	17.3	17.4	17.1	17.4	16.1	14.6	14.3	13.1	12.1	11.2	9.7	12.8	17.4	8.9
17	9.3	9.3	8.4	7.9	7.1	7.0	7.4	8.0	9.5	11.2	13.4	15.7	17.0	17.8	18.7	18.8	19.1	18.3	14.4	13.8	12.7	11.3	10.7	9.7	12.4	19.1	7.0
18	8.6	7.9	7.2	6.3	5.7	4.8	5.4	6.5	6.3	6.4	6.5	6.9	8.2	10.0	10.6	11.4	11.8	11.7	10.9	9.6	8.5	8.4	8.3	7.8	8.2	11.8	4.8
19	7.2	6.9	6.7	6.2	5.9	6.0	6.2	6.9	7.9	9.0	9.8	10.8	10.9	12.3	13.0	13.6	13.1	13.4	13.5	12.4	11.0	10.2	9.3	7.9	9.6	13.6	5.9
20	6.5	5.9	5.2	4.5	2.7	2.9	3.1	4.5	7.1	9.8	11.8	13.5	14.7	15.6	16.2	16.3	17.2	17.3	17.2	16.7	15.8	14.6	12.9	9.2	10.9	17.3	2.7
21	8.6	8.2	6.9	5.6	5.4	4.6	5.6	6.9	9.6	12.1	14.8	17.2	18.6	19.4	20.4	20.8	21.1	21.2	20.8	20.1	18.6	16.8	13.8	11.7	13.7	21.2	4.6
22	11.3	9.9	9.1	8.5	6.9	6.5	7.1	8.9	11.2	14.1	15.9	18.4	20.1	21.4	22.6	23.0	23.5	23.3	23.0	22.3	21.2	18.7	16.1	13.8	15.7	23.5	6.5
23	12.9	11.5	10.8	9.9	9.4	8.3	8.7	11.0	12.8	15.2	17.9	20.6	22.8	24.1	24.7	25.1	25.0	24.8	23.6	22.4	20.9	19.3	18.3	17.2	17.4	25.1	8.3
24	15.7	14.8	13.9	13.0	12.6	12.1	12.1	12.5	13.1	13.5	14.1	14.6	15.4	16.1	17.0	17.1	16.6	16.5	16.3	15.8	14.7	14.2	13.0	12.3	14.5	17.1	12.1
25	11.1	10.1	9.1	8.7	8.2	6.3	6.8	9.0	10.8	12.8	14.5	16.0	17.3	18.5	19.6	20.3	21.1	21.3	20.6	19.4	18.6	17.6	17.0	15.1	14.6	21.3	6.3
26	13.3	12.3	12.2	10.3	9.6	11.0	11.0	11.6	12.9	14.0	15.1	16.1	17.0	17.8	19.3	18.8	17.7	16.8	15.4	14.4	13.7	12.9	12.2	11.5	14.0	19.3	9.6
27	10.7	9.4	7.7	7.3	6.3	5.6	6.3	8.2	10.8	12.9	15.0	17.0	18.6	19.8	20.0	20.6	21.1	21.0	18.8	17.1	16.1	15.3	14.3	12.5	13.9	21.1	5.6
28	12.8	11.3	11.4	11.0	9.2	9.1	10.5	11.5	12.9	Au	Au	Ca	Ca	18.4	18.6	18.7	18.5	17.9	16.1	14.3	11.2	9.4	8.7	8.1	13.0	18.7	8.1
29	7.0	6.3	5.7	5.2	4.6	4.2	4.0	6.0	8.0	9.2	10.3	11.3	12.2	12.9	13.7	14.4	14.6	14.8	14.7	14.2	13.3	12.0	10.3	8.1	9.9	14.8	4.0
30	8.2	6.3	4.9	4.2	3.8	2.6	3.0	4.9	7.6	10.8	13.5	15.5	16.9	18.2	19.1	20.1	20.2	20.6	20.6	19.7	18.3	17.9	16.6	15.6	12.9	20.6	2.6
31	15.3	15.4	15.7	14.3	14.0	13.9	13.2	13.8	15.4	16.6	17.4	18.9	18.5	16.9	17.6	17.2	15.9	15.8	14.7	14.1	13.7	13.1	12.2	12.0	15.2	18.9	12.0
Avg	8.5	7.7	7.0	6.2	5.6	5.1	5.3	6.4	8.0	9.5	11.2	12.6	13.7	14.7	15.4	15.7	15.8	15.5	14.7	13.9	12.8	11.8	10.6	9.3	10.7	16.2	4.8
Max	15.7	15.4	15.7	14.3	14.0	13.9	13.2	13.8	15.4	16.6	17.9	20.6	22.8	24.1	24.7	25.1	25.0	24.8	23.6	22.4	21.2	19.3	18.3	17.2	17.4	25.1	12.1
Min	1.2	1.0	0.1	-1.8	-1.9	-2.3	-2.2	-1.1	1.1	2.0	2.7	2.5	2.4	2.8	3.6	4.3	4.0	3.9	3.4	3.1	2.6	2.1	1.5	1.4	2.9	4.3	-2.3

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.5	11.4	11.1	10.3	9.5	8.9	8.1	9.2	10.6	12.0	13.7	15.5	15.6	15.9	17.0	14.0	15.1	15.4	15.6	14.7	13.7	13.3	11.9	10.2	12.7	17.0	8.1
2	9.5	9.1	8.2	7.5	6.9	6.0	6.2	7.9	10.3	12.5	15.1	18.0	19.5	20.6	21.2	21.4	22.2	22.4	22.0	21.3	20.2	18.5	15.2	13.1	14.8	22.4	6.0
3	12.7	12.6	11.7	11.4	11.0	9.8	10.6	11.2	14.1	15.4	15.3	17.6	18.8	19.5	19.5	18.8	15.9	15.5	16.2	16.5	15.9	14.3	12.6	11.8	14.5	19.5	9.8
4	10.7	10.2	9.7	8.5	7.0	6.8	7.2	8.8	11.0	13.4	15.9	16.9	17.6	18.3	19.3	19.7	20.1	20.0	19.8	19.3	18.0	17.2	15.9	13.8	14.4	20.1	6.8
5	12.3	11.7	9.5	8.4	7.2	7.3	7.5	10.3	13.2	15.9	17.6	18.3	18.7	18.9	19.3	19.4	19.5	19.3	18.8	18.0	16.7	15.6	13.5	10.0	14.5	19.5	7.2
6	8.1	7.3	6.8	6.5	5.5	5.0	5.4	7.3	9.2	11.3	13.5	15.0	15.7	16.3	16.9	17.1	17.5	17.5	17.3	16.4	15.6	14.0	11.9	11.0	12.0	17.5	5.0
7	10.5	8.4	7.3	5.4	4.8	4.9	5.7	7.2	9.7	12.5	15.2	16.6	17.5	17.5	17.7	17.9	18.0	17.7	17.4	16.8	16.1	15.7	15.3	15.0	13.0	18.0	4.8
8	14.0	13.4	12.7	11.8	11.8	10.7	10.8	12.4	14.4	16.2	16.9	17.6	18.7	19.2	19.7	20.1	20.4	20.7	20.5	19.8	18.8	17.6	14.9	13.9	16.1	20.7	10.7
9	13.2	11.3	10.6	8.4	8.1	8.2	9.0	10.3	13.4	17.0	18.9	19.3	19.6	20.5	20.6	20.8	21.0	20.8	20.0	19.1	18.2	17.2	16.3	14.7	15.7	21.0	8.1
10	13.6	11.2	9.4	9.3	7.6	6.9	7.7	9.4	12.5	15.4	17.1	18.0	18.5	19.0	18.9	18.7	18.3	18.1	17.4	16.7	15.1	13.3	11.9	10.6	13.9	19.0	6.9
11	9.4	9.0	7.6	6.9	6.3	6.3	7.0	8.8	11.0	13.5	14.6	15.5	16.6	17.6	17.9	18.3	18.7	18.5	18.4	17.0	15.1	13.5	12.2	11.1	13.0	18.7	6.3
12	10.8	10.4	10.1	9.5	8.9	8.2	8.1	9.2	10.8	13.0	15.6	17.9	20.2	22.0	23.5	23.3	23.1	22.4	21.3	20.2	18.4	16.3	15.7	14.0	15.5	23.5	8.1
13	12.3	11.6	11.0	10.4	10.2	9.9	10.0	10.1	10.2	8.4	9.3	10.7	11.7	12.8	13.5	13.7	13.6	13.4	12.8	11.4	10.7	9.6	8.6	7.7	11.0	13.7	7.7
14	7.3	6.9	6.7	5.7	5.4	6.5	6.9	7.6	7.9	8.1	8.9	9.8	11.0	11.7	11.7	11.3	11.1	11.0	10.7	10.0	9.6	9.0	8.3	7.7	8.8	11.7	5.4
15	7.7	7.3	7.1	6.8	5.7	4.4	4.9	6.5	8.1	10.1	12.1	13.4	14.5	14.9	15.3	16.0	15.6	15.6	15.7	14.0	11.9	10.4	10.2	9.1	10.7	16.0	4.4
16	8.1	7.8	7.2	6.4	6.0	6.1	6.3	7.4	8.6	9.6	10.4	10.7	8.6	7.8	9.3	10.7	11.7	11.2	10.7	10.1	8.8	7.8	7.4	6.8	8.6	11.7	6.0
17	6.3	5.4	4.8	4.1	3.6	3.2	2.9	2.9	2.5	2.9	3.8	5.4	7.0	8.0	8.1	9.0	9.6	9.1	8.4	7.9	7.3	6.7	5.5	5.0	5.8	9.6	2.5
18	4.8	4.7	4.2	4.0	4.4	4.5	4.7	5.2	5.9	6.7	8.4	9.3	9.5	9.2	7.2	6.9	6.7	6.6	6.6	6.4	6.4	6.5	6.9	7.3	6.4	9.5	4.0
19	7.3	7.6	8.2	8.8	9.3	9.6	9.8	10.6	11.7	12.9	15.1	16.5	16.9	17.3	17.9	18.4	19.0	19.2	19.4	18.7	17.7	16.9	15.9	14.5	14.1	19.4	7.3
20	12.2	11.1	10.8	9.8	9.6	9.0	9.5	11.0	12.5	15.2	16.9	17.4	18.6	19.3	21.0	22.2	22.2	22.0	21.2	19.9	18.8	17.5	16.6	15.7	15.8	22.2	9.0
21	14.8	14.0	12.9	12.5	12.1	10.0	10.4	11.0	13.0	14.7	16.1	17.4	18.5	19.6	20.4	20.9	21.1	21.3	21.2	20.6	19.3	17.6	17.1	14.0	16.3	21.3	10.0
22	13.3	11.2	11.0	10.0	9.4	8.6	9.5	10.7	13.5	15.2	16.6	18.3	19.0	19.9	17.3	16.4	17.2	16.1	14.1	14.1	13.8	13.5	13.2	11.3	13.9	19.9	8.6
23	9.8	10.2	8.5	7.6	7.6	7.4	7.3	8.7	10.9	13.1	15.3	18.1	19.8	21.2	22.1	23.0	22.2	20.6	20.9	20.0	17.3	16.5	16.2	15.3	15.0	23.0	7.3
24	14.3	13.0	12.2	10.9	10.4	9.7	10.4	12.0	14.1	15.7	18.0	20.0	20.2	20.5	22.2	22.5	22.3	21.9	21.5	18.8	16.3	14.9	14.2	13.7	16.2	22.5	9.7
25	13.4	13.3	12.9	12.9	12.2	12.0	11.9	12.4	14.3	15.6	17.1	18.2	19.2	20.2	21.3	21.8	21.9	21.6	17.9	17.5	17.1	16.4	15.9	14.8	16.3	21.9	11.9
26	14.8	14.3	12.9	12.0	12.1	12.0	11.7	12.1	12.2	12.9	14.1	15.2	16.6	17.6	18.1	16.5	15.4	14.6	14.2	14.0	14.0	14.0	13.4	13.1	14.1	18.1	11.7
27	12.8	12.4	12.3	12.0	11.7	11.6	11.8	12.7	13.7	14.7	15.0	14.7	16.6	17.6	17.1	14.0	14.3	14.2	13.5	13.8	13.7	13.7	13.4	12.7	13.7	17.6	11.6
28	12.1	11.6	11.5	11.5	11.4	11.0	11.1	11.2	12.1	12.9	13.3	13.6	13.9	13.5	14.5	14.5	15.0	14.8	13.8	14.1	13.4	12.8	12.4	12.1	12.8	15.0	11.0
29	11.5	10.1	10.6	9.5	9.9	9.8	9.0	11.4	11.2	13.3	14.5	15.3	15.8	16.1	16.0	16.2	15.7	13.4	13.7	12.9	11.5	11.0	11.1	10.9	12.5	16.2	9.0
30	10.5	10.0	10.5	10.4	10.1	10.4	10.1	12.0	13.3	14.3	15.0	15.9	17.1	18.0	18.9	19.7	20.0	20.2	20.2	19.8	18.7	18.1	16.6	13.4	15.1	20.2	10.0
Avg	11.0	10.3	9.7	9.0	8.5	8.2	8.4	9.6	11.2	12.8	14.3	15.5	16.4	17.0	17.4	17.4	17.5	17.2	16.7	16.0	14.9	14.0	13.0	11.8	13.2	18.2	7.8
Max	14.8	14.3	12.9	12.9	12.2	12.0	11.9	12.7	14.4	17.0	18.9	20.0	20.2	22.0	23.5	23.3	23.1	22.4	22.0	21.3	20.2	18.5	17.1	15.7	16.3	23.5	11.9
Min	4.8	4.7	4.2	4.0	3.6	3.2	2.9	2.9	2.5	2.9	3.8	5.4	7.0	7.8	7.2	6.9	6.7	6.6	6.6	6.4	6.4	6.5	5.5	5.0	5.8	9.5	2.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-0.4	-1.2	-1.6	-2.4	-2.4	-3.0	-3.9	-2.9	-1.9	0.1	2.0	4.2	6.2	7.3	7.6	7.9	7.1	6.6	5.1	3.3	2.3	1.6	0.8	0.6	1.8	7.9	-3.9
2	-0.2	-0.4	-0.4	-0.2	-0.3	-0.6	-0.7	-0.4	0.3	1.6	3.0	5.2	4.5	5.4	6.8	6.7	6.0	4.3	3.4	1.4	1.3	1.1	0.6	0.2	2.0	6.8	-0.7
3	-0.5	0.3	-0.2	-1.5	-2.4	-1.8	-1.9	-1.6	-0.3	1.5	3.5	5.6	6.8	8.1	9.0	9.7	9.8	9.7	8.4	7.3	5.8	3.1	2.5	2.5	3.5	9.8	-2.4
4	1.8	0.8	0.3	-0.1	-0.1	0.2	-0.3	-0.3	0.4	4.5	7.6	8.4	8.7	8.3	8.2	6.1	3.8	5.2	4.2	2.8	2.1	1.1	1.3	1.7	3.2	8.7	-0.3
5	1.7	1.6	1.5	1.5	1.0	1.0	1.7	1.9	2.6	3.0	3.7	5.4	5.0	5.9	6.9	7.3	6.7	6.2	5.4	4.9	4.5	4.0	3.4	3.0	3.7	7.3	1.0
6	3.1	2.7	2.8	2.3	1.9	1.7	1.5	1.5	3.3	5.4	6.6	6.9	7.1	7.7	7.0	8.1	7.7	7.5	6.9	6.3	6.0	6.0	5.9	5.7	5.1	8.1	1.5
7	5.7	5.5	3.8	4.1	4.0	3.8	5.3	6.4	7.2	8.1	9.6	11.4	12.3	13.1	13.2	14.0	13.4	12.9	11.9	10.5	8.5	8.8	7.8	6.1	8.6	14.0	3.8
8	4.5	4.3	3.3	1.9	1.2	1.1	0.7	1.7	4.4	7.9	Ca	Ca	Ca	18.8	18.4	18.3	18.3	17.4	16.4	14.7	13.0	11.7	11.3	11.3	9.6	18.8	0.7
9	10.7	10.1	8.9	8.9	9.0	9.4	9.2	9.2	7.3	6.7	6.7	9.1	10.5	11.2	11.1	11.0	10.1	9.1	8.3	7.4	6.3	5.1	4.7	4.4	8.5	11.2	4.4
10	3.8	3.6	1.0	1.0	0.3	-0.1	0.5	1.5	4.1	6.7	8.8	10.3	11.2	11.5	12.2	12.6	12.7	12.0	10.7	9.0	8.0	7.4	5.7	4.7	6.6	12.7	-0.1
11	4.5	4.1	2.2	2.2	1.9	-0.3	-1.1	1.3	5.2	8.2	9.8	11.5	12.8	13.6	14.4	14.1	14.4	13.4	11.7	10.7	9.9	8.8	7.9	7.1	7.8	14.4	-1.1
12	6.4	5.9	4.7	3.8	2.1	1.8	2.3	3.1	4.6	6.1	7.6	6.4	2.4	3.5	2.3	1.1	0.2	-0.7	-1.4	-2.0	-2.4	-2.8	-3.2	-3.8	2.0	7.6	-3.8
13	-4.7	-5.1	-5.4	-5.3	-5.6	-6.2	-5.7	-4.2	-3.1	-2.0	0.0	1.9	3.5	4.1	4.7	5.3	5.4	5.2	4.2	2.9	2.0	0.6	-1.2	-1.5	-0.4	5.4	-6.2
14	-2.3	-3.9	-4.0	-5.1	-5.6	-5.7	-6.6	-4.4	-1.9	0.7	3.7	7.1	9.5	12.0	12.7	13.3	13.6	12.9	12.2	10.8	9.8	9.1	7.7	7.4	4.3	13.6	-6.6
15	5.7	6.9	6.8	6.5	6.5	6.6	6.8	7.7	7.4	7.2	6.2	5.8	5.0	6.6	7.0	6.7	5.0	5.0	3.7	3.2	2.6	2.9	3.1	1.8	5.5	7.7	1.8
16	1.3	0.9	1.3	0.2	0.8	0.1	1.0	2.0	3.3	4.9	6.0	6.3	7.3	7.8	8.6	8.3	7.9	7.4	6.5	5.8	5.5	5.1	4.9	4.9	4.5	8.6	0.1
17	4.7	4.8	4.5	3.3	3.2	2.8	2.4	3.8	5.7	7.6	9.7	11.6	12.1	12.1	11.4	12.0	12.4	12.3	11.1	10.2	8.9	8.4	7.4	6.7	7.9	12.4	2.4
18	6.0	6.0	5.8	5.5	5.0	4.5	4.1	4.3	5.1	3.2	3.5	3.0	5.5	7.0	7.0	7.5	7.5	7.2	6.2	5.0	4.5	3.6	2.6	2.4	5.1	7.5	2.4
19	1.1	0.4	-0.7	-2.1	-3.1	-3.1	-3.3	-1.9	0.6	3.4	6.7	9.5	12.4	14.2	15.2	16.1	16.7	16.8	15.9	14.2	12.9	11.8	10.8	8.4	7.2	16.8	-3.3
20	5.1	5.1	4.6	4.9	4.9	4.0	4.1	5.0	6.0	6.8	7.9	9.0	10.0	10.8	11.6	12.0	12.0	11.9	10.9	9.1	7.8	7.3	5.9	4.4	7.5	12.0	4.0
21	3.9	3.0	1.8	0.6	0.6	-0.3	0.5	1.7	3.3	6.1	9.1	12.0	15.1	17.4	18.8	19.3	19.0	18.5	17.5	16.1	15.0	14.1	12.7	10.8	9.9	19.3	-0.3
22	9.5	8.8	7.8	6.8	5.7	5.2	4.4	5.1	6.6	10.6	13.0	12.4	10.6	8.2	6.1	6.3	6.9	6.8	5.5	4.3	3.5	2.8	2.0	2.2	6.7	13.0	2.0
23	2.3	1.4	1.6	1.7	1.5	1.5	1.4	1.6	2.5	3.8	4.6	5.9	6.8	6.3	7.5	6.7	4.6	3.9	3.1	2.9	2.4	2.3	1.6	1.3	3.3	7.5	1.3
24	1.3	1.5	1.2	1.0	1.7	-0.4	0.7	1.8	3.0	4.9	6.1	7.2	8.0	8.8	6.7	7.7	8.4	8.6	7.6	6.0	5.3	5.3	5.1	3.9	4.6	8.8	-0.4
25	3.1	2.8	2.2	1.4	0.3	-0.7	-0.2	0.4	3.6	5.6	7.8	9.4	10.8	11.8	12.3	10.4	9.9	9.4	7.1	6.0	5.3	5.5	4.5	3.2	5.5	12.3	-0.7
26	3.0	3.1	3.1	2.6	2.6	2.8	2.9	3.3	3.6	4.1	4.7	5.0	5.8	6.4	6.7	7.0	6.0	6.2	5.7	4.9	4.3	3.4	2.7	2.0	4.2	7.0	2.0
27	2.1	1.9	1.8	1.3	0.9	0.3	0.8	2.2	3.9	5.1	6.1	7.3	7.1	8.4	8.5	7.2	5.3	4.1	4.2	3.4	2.6	2.5	2.3	2.1	3.8	8.5	0.3
28	1.9	1.8	1.4	1.2	0.7	0.0	0.6	1.2	2.0	2.6	4.0	4.4	5.1	5.8	6.7	7.0	5.9	5.4	4.3	3.2	2.4	2.4	2.0	2.1	3.1	7.0	0.0
29	0.9	0.9	0.2	-0.9	-0.8	-1.0	-0.5	0.8	3.0	5.5	7.6	8.6	9.8	10.3	11.5	12.3	12.7	12.2	11.9	10.6	9.3	8.6	6.5	4.9	6.0	12.7	-1.0
30	3.8	2.8	2.2	0.9	0.0	-0.6	-0.5	1.6	3.9	6.6	9.4	12.3	13.7	15.0	16.3	17.0	17.7	17.7	16.8	15.4	13.6	13.0	9.7	8.4	9.0	17.7	-0.6
Avg	3.0	2.7	2.1	1.5	1.2	0.8	0.9	1.8	3.2	4.9	6.4	7.7	8.5	9.6	9.9	10.0	9.6	9.2	8.2	7.0	6.1	5.5	4.6	4.0	5.3	10.8	-0.1
Max	10.7	10.1	8.9	8.9	9.0	9.4	9.2	9.2	7.4	10.6	13.0	12.4	15.1	18.8	18.8	19.3	19.0	18.5	17.5	16.1	15.0	14.1	12.7	11.3	9.9	19.3	4.4
Min	-4.7	-5.1	-5.4	-5.3	-5.6	-6.2	-6.6	-4.4	-3.1	-2.0	0.0	1.9	2.4	3.5	2.3	1.1	0.2	-0.7	-1.4	-2.0	-2.4	-2.8	-3.2	-3.8	-0.4	5.4	-6.6

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8.2	6.2	5.4	4.8	3.6	2.2	3.2	4.5	7.1	10.3	12.9	16.6	19.1	20.3	21.0	21.5	21.5	21.2	20.2	18.7	16.7	14.9	13.6	13.1	12.8	21.5	2.2
2	12.4	11.0	10.5	8.2	8.1	6.8	5.7	7.4	10.6	14.2	18.6	20.0	20.7	21.4	21.4	21.5	20.6	20.0	18.8	17.2	15.9	15.1	14.5	12.3	14.7	21.5	5.7
3	12.1	10.5	9.6	9.8	8.6	7.8	9.0	10.1	11.7	12.9	14.1	14.9	14.8	15.7	16.7	17.6	17.9	15.5	13.2	12.2	11.4	10.4	9.7	9.0	12.3	17.9	7.8
4	8.6	8.2	7.9	7.1	5.4	4.8	4.7	4.7	5.3	6.4	7.6	8.1	10.1	11.5	12.5	12.6	13.3	12.1	10.8	9.5	8.3	7.6	6.8	6.2	8.3	13.3	4.7
5	5.6	4.6	3.8	3.9	4.0	3.7	3.9	4.9	5.9	7.3	8.6	8.9	10.3	11.5	11.3	10.3	9.7	10.1	9.8	9.4	8.3	7.5	6.9	6.1	7.3	11.5	3.7
6	5.0	4.1	3.7	3.3	1.2	2.5	2.7	4.1	6.9	8.4	8.6	8.8	9.9	10.5	11.2	11.3	10.2	6.8	6.3	4.0	2.9	2.4	1.7	1.6	5.8	11.3	1.2
7	1.4	1.3	1.1	1.0	0.5	0.5	0.8	1.1	1.8	2.8	3.7	4.5	6.0	7.3	8.4	9.0	9.8	9.8	9.2	7.9	6.5	5.2	3.9	2.4	4.4	9.8	0.5
8	1.6	1.3	-0.3	-1.5	-1.5	-1.0	0.0	1.4	3.7	6.4	9.1	11.0	11.9	12.6	13.8	14.5	15.0	14.5	13.1	11.9	10.9	9.7	7.9	7.1	7.2	15.0	-1.5
9	5.1	5.4	4.2	3.9	4.5	3.7	4.5	5.3	7.1	6.8	7.6	9.2	10.8	11.5	11.3	11.1	10.9	10.1	9.2	8.0	6.8	6.1	5.8	4.9	7.2	11.5	3.7
10	3.9	4.3	4.4	3.9	3.9	3.6	3.8	4.2	4.8	5.7	5.9	6.3	5.9	5.4	4.4	5.5	4.3	4.3	4.4	4.0	3.9	3.1	2.8	3.0	4.4	6.3	2.8
11	2.9	2.8	2.7	2.6	2.2	1.9	2.7	3.7	3.6	2.7	3.0	2.9	3.0	3.5	4.3	4.9	4.8	4.6	3.8	3.2	3.0	2.9	2.2	1.1	3.1	4.9	1.1
12	0.9	0.4	-0.5	-2.2	-2.5	-3.0	-2.0	-0.6	1.8	4.2	6.3	8.1	9.1	10.2	11.0	11.7	12.2	12.0	11.4	10.2	8.4	7.6	5.0	4.2	5.2	12.2	-3.0
13	3.2	2.4	1.0	0.9	0.0	-0.4	0.2	2.4	5.0	7.6	10.0	12.6	14.1	14.8	15.6	16.3	16.3	16.0	15.1	13.8	12.0	9.6	8.4	6.7	8.5	16.3	-0.4
14	5.9	5.1	3.6	2.9	2.0	1.6	2.5	3.8	5.7	8.5	11.8	14.9	16.2	16.6	17.5	18.8	18.7	18.2	17.6	16.6	15.2	13.9	12.2	10.6	10.9	18.8	1.6
15	10.5	8.9	8.5	6.8	5.6	4.6	5.5	8.1	10.5	13.0	16.3	18.7	20.4	21.4	21.3	22.1	21.9	21.8	20.6	19.2	17.9	16.5	14.7	12.5	14.5	22.1	4.6
16	11.2	9.8	9.1	8.7	8.4	8.7	9.6	11.0	12.5	14.2	15.7	16.5	17.2	18.2	18.2	17.9	18.1	16.4	14.8	14.2	12.4	11.7	10.8	9.4	13.1	18.2	8.4
17	8.4	8.9	7.8	7.6	6.7	6.8	7.8	8.6	10.2	12.1	14.3	16.7	18.5	18.8	19.8	19.8	19.7	18.5	14.7	13.5	12.3	10.5	10.0	9.4	12.6	19.8	6.7
18	8.2	7.6	6.5	5.9	4.9	4.3	5.7	7.2	6.5	6.7	6.9	7.4	9.1	11.3	11.3	12.4	12.5	12.3	11.1	9.8	8.6	8.4	8.3	7.9	8.4	12.5	4.3
19	7.3	7.0	6.7	6.1	5.5	5.7	6.5	7.2	8.9	9.8	11.2	12.2	12.3	13.6	14.3	14.7	14.2	14.3	13.9	12.3	10.7	9.7	9.0	7.3	10.0	14.7	5.5
20	5.9	5.3	4.4	3.5	2.4	2.6	3.5	5.2	8.0	10.8	13.1	14.9	16.2	17.0	17.6	17.6	18.1	17.7	16.9	16.4	15.1	13.6	12.0	8.7	11.1	18.1	2.4
21	8.3	7.5	6.4	5.3	5.1	4.5	6.1	7.6	10.5	13.2	15.8	18.3	19.9	20.8	21.6	22.1	22.1	21.9	20.9	19.1	17.0	15.4	13.1	10.9	13.9	22.1	4.5
22	10.3	9.1	8.6	7.5	6.3	6.1	7.5	9.6	11.9	15.2	17.0	19.8	21.5	22.8	24.0	24.2	24.6	24.0	23.1	21.8	20.4	17.6	15.6	13.3	15.9	24.6	6.1
23	12.3	10.9	10.4	9.4	9.0	7.7	9.1	11.6	13.8	16.3	19.1	21.8	23.9	25.5	26.2	26.3	26.1	25.5	23.7	22.0	20.7	19.0	18.1	16.9	17.7	26.3	7.7
24	15.0	14.5	13.6	12.6	12.2	11.9	12.3	12.9	13.6	14.0	15.0	15.6	16.7	17.7	18.7	18.2	17.1	17.1	16.7	15.8	14.4	13.7	11.8	11.2	14.7	18.7	11.2
25	10.7	9.6	8.3	8.1	7.6	5.7	7.3	9.6	11.8	13.8	15.5	17.2	18.7	19.8	20.8	21.4	22.1	22.1	20.9	19.2	18.1	17.2	16.3	14.5	14.8	22.1	5.7
26	12.7	11.8	11.6	9.7	9.2	10.3	10.7	12.0	13.8	15.2	16.7	17.8	18.5	19.6	21.1	20.3	18.4	17.5	15.8	14.4	13.5	12.2	11.0	10.5	14.3	21.1	9.2
27	9.8	8.7	7.1	6.8	5.5	5.1	6.7	9.0	11.8	14.1	16.3	17.9	20.1	21.0	21.1	22.0	22.1	21.4	19.1	16.6	15.0	14.6	13.5	11.6	14.0	22.1	5.1
28	12.0	10.2	10.7	10.3	8.8	8.9	10.7	12.1	13.9	Au	Au	Ca	Ca	19.5	20.6	20.3	19.5	18.6	16.5	14.5	11.3	9.6	8.9	8.3	13.3	20.6	8.3
29	7.0	6.1	5.2	4.1	3.4	3.5	4.5	6.8	9.0	10.6	11.8	13.1	14.0	14.9	15.3	16.0	16.1	15.8	15.2	14.0	12.8	10.3	9.2	7.4	10.3	16.1	3.4
30	7.4	5.5	4.2	3.8	3.5	2.0	3.5	5.7	8.5	11.7	14.5	17.1	18.5	19.8	20.8	21.4	21.2	21.4	21.0	19.4	17.9	17.1	15.6	14.7	13.2	21.4	2.0
31	14.3	15.0	15.1	14.1	13.6	13.7	13.3	14.7	16.4	17.9	18.8	20.5	19.2	17.5	18.3	18.0	16.1	15.6	14.5	13.9	12.9	12.7	12.2	12.0	15.4	20.5	12.0
Avg	8.0	7.2	6.5	5.8	5.1	4.7	5.5	7.0	8.8	10.4	12.2	13.7	14.9	15.9	16.5	16.8	16.6	16.0	14.9	13.6	12.3	11.2	10.0	8.9	10.9	17.2	4.4
Max	15.0	15.0	15.1	14.1	13.6	13.7	13.3	14.7	16.4	17.9	19.1	21.8	23.9	25.5	26.2	26.3	26.1	25.5	23.7	22.0	20.7	19.0	18.1	16.9	17.7	26.3	12.0
Min	0.9	0.4	-0.5	-2.2	-2.5	-3.0	-2.0	-0.6	1.8	2.7	3.0	2.9	3.0	3.5	4.3	4.9	4.3	4.3	3.8	3.2	2.9	2.4	1.7	1.1	3.1	4.9	-3.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.4	11.3	10.5	9.8	9.0	8.5	8.0	9.6	11.4	13.2	15.3	16.9	16.5	16.6	18.4	13.7	15.9	16.0	15.9	14.5	13.3	12.3	11.1	9.8	12.9	18.4	8.0
2	8.9	8.5	7.7	6.6	6.3	5.7	6.6	8.6	11.1	13.6	16.2	19.3	21.0	21.9	22.4	22.2	23.5	23.1	22.4	20.7	18.9	17.5	14.6	12.8	15.0	23.5	5.7
3	12.0	11.7	10.7	10.5	10.0	9.3	10.5	11.6	15.1	16.5	16.3	19.1	20.6	21.2	20.7	20.0	16.7	15.9	16.6	16.7	15.7	13.6	12.4	11.6	14.8	21.2	9.3
4	9.8	9.1	8.9	7.5	6.2	6.2	7.6	9.4	12.0	14.8	17.4	18.4	19.4	20.1	20.9	21.2	21.3	21.0	20.2	19.4	17.5	15.7	14.3	12.9	14.6	21.3	6.2
5	11.8	10.9	8.7	7.8	6.5	6.8	8.1	10.9	14.1	17.3	19.3	19.8	20.1	20.9	21.0	20.9	20.9	20.4	19.4	18.0	16.3	14.7	12.3	9.3	14.8	21.0	6.5
6	7.8	6.6	5.8	5.2	4.5	4.9	5.9	8.1	10.2	12.5	14.7	16.5	17.4	18.2	18.6	19.0	18.8	18.5	17.9	16.2	14.4	13.2	10.7	10.4	12.3	19.0	4.5
7	10.3	8.2	6.7	5.2	4.6	4.9	6.2	7.9	10.5	13.6	16.6	18.1	19.2	18.8	18.8	18.9	18.9	18.2	17.8	17.0	16.0	15.6	15.1	14.8	13.4	19.2	4.6
8	13.8	13.0	12.2	11.5	10.8	10.3	11.4	13.2	15.4	17.4	18.3	19.2	20.4	21.1	21.6	21.7	21.7	21.8	21.1	19.7	17.9	17.0	14.5	13.2	16.6	21.8	10.3
9	12.3	10.4	9.9	7.4	7.3	7.3	9.6	11.2	14.3	18.4	20.4	20.7	20.6	21.9	22.0	22.1	22.3	21.8	20.5	19.1	17.8	16.8	15.3	13.7	16.0	22.3	7.3
10	12.5	10.0	9.0	8.6	7.1	6.6	8.1	10.1	13.4	16.6	18.2	19.5	20.2	20.9	20.6	19.8	19.2	19.0	17.9	16.7	15.0	13.1	11.4	10.3	14.3	20.9	6.6
11	9.1	8.5	6.6	6.4	5.9	6.4	7.6	9.6	12.0	14.8	16.6	17.1	18.4	19.4	19.7	20.1	20.2	19.1	18.7	16.9	14.9	13.2	11.7	10.3	13.5	20.2	5.9
12	10.0	9.5	8.7	7.9	8.4	7.4	8.5	10.0	11.8	14.1	17.0	19.6	21.6	23.8	24.9	24.4	24.0	22.8	21.4	19.8	17.9	16.1	15.5	13.8	15.8	24.9	7.4
13	12.1	11.4	10.8	10.3	10.2	10.0	10.1	10.4	10.8	8.8	10.4	11.9	13.1	14.0	14.7	15.1	14.8	14.2	13.7	11.7	10.8	9.6	8.4	6.8	11.4	15.1	6.8
14	7.0	6.6	6.2	5.4	4.9	6.4	7.1	7.9	8.6	9.0	9.6	10.6	12.3	12.9	13.0	12.5	12.3	11.7	11.1	10.3	9.7	8.9	8.1	7.6	9.2	13.0	4.9
15	7.3	6.4	6.3	6.0	5.6	4.6	5.2	7.0	8.8	11.3	13.8	14.9	16.2	16.4	16.8	17.0	16.2	16.3	16.0	14.2	11.7	10.1	10.0	8.4	11.1	17.0	4.6
16	7.6	6.9	6.4	6.1	5.6	5.9	6.8	7.8	9.2	10.3	11.0	11.4	9.0	8.3	10.3	11.7	12.8	12.4	11.1	10.3	8.9	8.0	7.5	6.9	8.8	12.8	5.6
17	6.4	5.6	4.9	4.2	3.8	3.4	3.1	3.1	2.7	3.3	4.5	6.6	8.4	9.3	9.4	10.1	10.6	9.8	8.8	8.1	7.1	6.4	4.8	4.6	6.2	10.6	2.7
18	4.1	4.4	4.0	3.9	4.4	4.6	5.0	5.6	6.5	7.4	9.1	10.0	10.0	9.6	7.5	7.3	7.0	6.9	6.8	6.6	6.5	6.6	6.9	7.2	6.6	10.0	3.9
19	7.2	7.5	7.8	8.3	8.6	9.2	9.5	10.6	11.9	13.5	15.9	17.2	17.6	17.9	18.5	19.1	19.7	19.7	19.6	18.5	16.8	15.7	14.8	13.5	14.1	19.7	7.2
20	11.5	10.5	10.0	8.8	8.7	8.3	9.9	11.5	13.3	16.0	17.7	18.3	19.4	20.3	22.2	23.4	22.7	22.6	21.3	19.8	18.5	17.2	15.9	14.9	15.9	23.4	8.3
21	14.0	13.5	12.1	11.3	10.8	9.4	10.9	11.9	13.8	15.6	17.4	18.8	19.9	21.0	21.6	22.1	22.0	22.0	21.5	20.4	18.6	16.7	15.6	13.1	16.4	22.1	9.4
22	12.8	10.6	10.0	9.5	9.0	8.2	10.0	11.5	14.5	16.4	18.3	19.7	20.5	21.2	17.8	17.7	18.1	16.4	14.4	14.2	13.3	12.9	11.8	10.2	14.1	21.2	8.2
23	9.5	9.4	8.1	7.3	7.0	7.2	7.6	9.3	11.7	14.1	16.6	19.8	21.3	22.6	23.4	24.1	23.4	21.7	21.5	20.0	17.1	16.0	15.5	14.5	15.4	24.1	7.0
24	13.8	12.6	11.8	10.3	9.9	9.6	10.8	12.7	15.0	16.9	19.5	21.3	20.0	20.8	22.8	23.1	22.6	22.0	21.3	18.4	16.2	14.8	14.0	13.1	16.4	23.1	9.6
25	12.8	12.9	12.7	12.1	11.8	11.5	12.0	13.0	14.8	16.4	18.1	19.2	20.1	21.3	22.4	22.6	22.6	21.9	18.1	17.7	17.1	16.2	15.8	14.8	16.6	22.6	11.5
26	14.4	13.7	12.8	12.0	11.9	11.9	11.9	12.5	12.5	13.5	14.9	16.1	17.6	18.7	18.6	16.9	15.7	14.5	14.3	14.2	14.0	13.8	13.4	13.1	14.3	18.7	11.9
27	12.7	12.4	12.1	11.8	11.4	11.5	12.1	13.1	14.3	15.4	15.5	15.4	17.7	18.9	18.0	14.6	14.7	14.5	13.6	13.9	13.3	13.6	13.4	12.3	14.0	18.9	11.4
28	11.6	11.1	11.3	11.2	10.8	10.7	11.1	11.6	12.7	13.8	14.3	14.7	15.4	14.5	15.8	15.2	15.7	15.2	14.3	14.2	12.8	11.6	12.0	10.7	13.0	15.8	10.7
29	10.4	9.5	9.6	8.6	8.0	8.9	9.2	12.0	11.6	14.4	15.9	16.4	17.0	17.3	16.8	17.1	16.2	14.0	14.2	13.0	11.5	10.7	10.3	10.4	12.6	17.3	8.0
30	10.2	9.5	9.3	9.4	9.7	9.6	10.5	12.5	14.2	15.1	16.0	17.1	18.4	19.3	20.2	20.9	21.3	21.2	20.7	19.8	18.5	16.9	15.4	12.7	15.4	21.3	9.3
Avg	10.5	9.7	9.1	8.4	8.0	7.8	8.7	10.1	11.9	13.8	15.5	16.8	17.6	18.3	18.6	18.5	18.4	17.8	17.1	16.0	14.6	13.5	12.4	11.3	13.5	19.3	7.4
Max	14.4	13.7	12.8	12.1	11.9	11.9	12.1	13.2	15.4	18.4	20.4	21.3	21.6	23.8	24.9	24.4	24.0	23.1	22.4	20.7	18.9	17.5	15.9	14.9	16.6	24.9	11.9
Min	4.1	4.4	4.0	3.9	3.8	3.4	3.1	3.1	2.7	3.3	4.5	6.6	8.4	8.3	7.5	7.3	7.0	6.9	6.8	6.6	6.5	6.4	4.8	4.6	6.2	10.0	2.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.17	0.19	0.02	0.02	0.22	0.30	0.25	-0.30	-0.42	-0.53	-0.76	-0.97	-0.89	-1.05	-0.92	-0.74	-0.36	-0.27	0.09	0.51	0.34	0.21	0.16	0.24	-0.19	0.51	-1.05
2	0.57	0.49	0.34	0.00	0.00	-0.01	0.01	-0.25	-0.37	-0.61	-0.68	-1.05	-0.65	-1.11	-0.95	-0.78	-0.75	-0.38	-0.01	0.03	0.11	0.49	0.55	0.90	-0.17	0.90	-1.11
3	0.84	0.23	0.62	0.60	0.47	0.50	0.26	-0.17	-0.43	-0.62	-0.71	-0.78	-0.75	-0.91	-0.79	-0.92	-0.63	-0.39	0.26	0.63	0.98	0.43	0.39	0.53	-0.02	0.98	-0.92
4	0.50	0.59	0.44	0.32	0.73	1.15	1.94	1.21	-0.35	-0.65	-0.69	-0.46	-0.62	-0.66	-0.89	-0.60	-0.20	-0.42	-0.11	0.15	0.09	1.12	0.59	0.38	0.15	1.94	-0.89
5	0.02	0.09	-0.03	0.36	0.76	0.44	0.19	-0.11	-0.28	-0.30	-0.39	-0.66	-1.01	-0.97	-1.00	-0.75	-0.47	-0.30	-0.12	0.02	0.03	-0.08	0.01	0.10	-0.19	0.76	-1.01
6	0.02	0.28	0.09	-0.09	0.00	-0.03	0.00	-0.27	-0.39	-0.91	-1.14	-0.92	-1.14	-1.01	-0.91	-0.89	-0.50	-0.24	-0.10	-0.04	-0.05	-0.08	0.02	0.12	-0.34	0.28	-1.14
7	0.05	0.26	1.78	0.96	0.47	0.86	0.15	-0.30	-0.48	-0.47	-0.83	-1.19	-1.22	-1.24	-1.00	-1.17	-0.65	-0.47	-0.10	0.16	1.20	0.78	0.52	0.91	-0.04	1.78	-1.24
8	0.52	0.46	1.12	0.79	0.62	0.58	0.88	0.06	-0.44	-0.60	Ca	Ca	Ca	-1.04	-0.90	-0.70	-0.61	-0.23	0.06	0.63	1.11	1.01	1.13	0.31	0.23	1.13	-1.04
9	0.29	0.53	1.38	1.14	0.50	0.40	0.38	-0.13	-0.20	-0.37	-0.34	-0.95	-1.03	-1.15	-1.10	-1.04	-0.69	-0.35	-0.14	0.06	0.29	1.05	0.93	0.91	0.02	1.38	-1.15
10	0.96	0.56	0.64	0.62	0.88	0.84	0.94	-0.20	-0.61	-0.87	-1.14	-1.47	-1.39	Co	Co	-1.21	-0.92	-0.42	0.25	1.08	1.05	0.61	0.81	0.73	0.08	1.08	-1.47
11	0.73	0.82	0.96	1.09	1.47	1.16	1.12	-0.29	-0.32	-0.51	-0.89	-1.22	-1.38	-1.32	-1.22	-0.88	-0.77	-0.37	-0.04	0.04	0.00	0.21	0.27	1.00	-0.01	1.47	-1.38
12	0.99	0.62	0.68	1.39	0.66	0.94	0.55	-0.28	-0.87	-0.95	-1.52	-1.10	-0.58	-0.72	-0.66	-0.79	-0.60	-0.35	-0.24	-0.20	-0.14	-0.03	0.00	0.01	-0.13	1.39	-1.52
13	0.23	0.14	0.19	0.08	0.25	0.47	-0.05	-0.48	-0.77	-0.83	-1.06	-1.15	-1.57	-1.45	-1.35	-1.17	-0.87	-0.75	-0.21	0.40	0.59	1.02	0.49	0.19	-0.32	1.02	-1.57
14	0.39	0.35	0.40	0.78	0.74	0.61	0.14	-0.47	-0.69	-0.87	-0.88	-1.12	-1.16	-1.52	-1.45	-1.22	-1.01	-0.38	-0.02	0.66	0.71	0.39	1.99	2.02	-0.07	2.02	-1.52
15	1.08	0.78	0.87	1.37	0.35	0.32	0.44	-0.09	-0.26	-0.30	-0.40	-0.53	-0.47	-0.78	-0.67	-0.82	-0.69	-0.42	-0.26	0.04	0.19	0.16	0.01	-0.07	-0.01	1.37	-0.82
16	0.15	0.42	0.15	1.37	0.32	0.39	0.09	-0.27	-0.48	-0.81	-1.10	-1.08	-1.06	-1.38	-1.54	-1.41	-1.15	-0.83	-0.27	-0.01	0.07	0.17	0.10	0.08	-0.34	1.37	-1.54
17	0.12	0.13	0.08	0.16	0.12	0.49	0.10	-0.48	-0.73	-0.79	-0.84	-1.15	-1.12	-0.78	-0.60	-0.79	-0.67	-0.34	-0.02	0.11	0.14	-0.02	-0.08	-0.08	-0.29	0.49	-1.15
18	0.02	0.02	-0.08	0.01	0.05	0.04	0.00	-0.16	-0.56	-0.61	-0.80	-0.47	-0.73	-0.92	-0.71	-0.72	-0.67	-0.58	-0.13	0.21	0.14	0.65	0.72	0.56	-0.20	0.72	-0.92
19	0.48	0.46	0.58	0.42	0.59	0.59	0.36	-0.42	-0.63	-0.71	-0.92	-0.82	-1.01	-0.91	-0.85	-0.84	-0.75	-0.36	0.12	0.39	1.67	1.05	0.20	0.02	-0.05	1.67	-1.01
20	-0.06	0.03	0.58	0.03	-0.03	0.16	0.02	-0.36	-0.79	-1.12	-1.40	-1.67	-1.67	-1.57	-1.56	-1.26	-0.94	-0.63	-0.11	0.64	1.05	0.96	0.47	0.41	-0.37	1.05	-1.67
21	0.42	0.55	0.74	0.78	0.80	0.35	0.04	-0.48	-0.66	-0.83	-1.00	-1.01	-1.19	-1.31	-1.25	-1.00	-0.49	-0.25	0.00	0.51	1.10	0.91	0.82	0.73	-0.07	1.10	-1.31
22	0.74	0.27	0.94	0.54	0.36	0.20	0.23	-0.27	-0.37	-0.68	-0.77	-0.41	-0.13	-0.16	-0.07	-0.45	-0.57	-0.21	-0.10	-0.12	-0.11	-0.13	-0.10	-0.04	-0.06	0.94	-0.77
23	-0.07	-0.12	-0.05	-0.06	-0.05	-0.07	-0.12	-0.25	-0.48	-0.75	-0.60	-0.76	-1.02	-0.97	-1.06	-0.91	-0.50	-0.50	-0.36	-0.22	-0.18	-0.20	-0.23	-0.17	-0.40	-0.05	-1.06
24	-0.06	-0.02	0.29	0.51	0.57	0.16	-0.15	-0.31	-0.43	-0.51	-0.56	-0.47	-0.81	-0.93	-0.62	-0.73	-0.69	-0.39	-0.07	0.01	0.12	0.21	0.27	1.05	-0.15	1.05	-0.93
25	0.62	0.29	0.52	0.83	0.67	0.28	0.20	-0.25	-0.65	-0.77	-1.02	-1.23	-1.08	-0.91	-0.80	-0.49	-0.58	-0.40	-0.09	-0.16	-0.10	-0.01	-0.05	-0.09	-0.22	0.83	-1.23
26	-0.13	-0.05	0.04	-0.18	-0.16	-0.13	-0.25	-0.31	-0.36	-0.40	-0.50	-0.47	-0.61	-0.84	-0.81	-0.73	-0.58	-0.56	-0.29	-0.08	0.04	0.01	0.10	0.25	-0.29	0.25	-0.84
27	0.10	0.01	0.01	0.31	0.62	0.61	-0.09	-0.53	-0.60	-0.92	-0.96	-1.26	-0.82	-1.06	-1.00	-0.80	-0.57	-0.39	-0.23	-0.17	-0.16	-0.13	-0.11	-0.08	-0.34	0.62	-1.26
28	-0.01	-0.04	-0.03	-0.07	-0.08	-0.11	-0.11	-0.25	-0.36	-0.49	-0.73	-0.83	-0.76	-0.85	-1.05	-0.96	-0.63	-0.53	-0.22	-0.08	0.18	0.85	0.70	0.33	-0.26	0.85	-1.05
29	0.54	0.42	0.57	0.74	0.48	0.63	-0.08	-0.54	-0.83	-0.80	-1.08	-0.93	-1.07	-0.83	-1.05	-1.00	-0.95	-0.54	-0.25	0.15	0.86	0.92	0.77	0.47	-0.14	0.92	-1.08
30	0.77	0.32	0.54	0.65	0.39	0.30	0.01	-0.55	-0.76	-0.86	-1.02	-1.21	-1.10	-1.18	-1.18	-0.90	-0.77	-0.67	-0.08	0.50	1.16	1.06	0.80	0.83	-0.12	1.16	-1.21
Avg	0.37	0.30	0.48	0.52	0.43	0.41	0.25	-0.25	-0.52	-0.68	-0.85	-0.94	-0.97	-1.02	-0.96	-0.89	-0.67	-0.43	-0.09	0.19	0.42	0.45	0.41	0.42	-0.15	1.03	-1.16
Max	1.08	0.82	1.78	1.39	1.47	1.16	1.94	1.21	-0.20	-0.30	-0.34	-0.41	-0.13	-0.16	-0.07	-0.45	-0.20	-0.21	0.26	1.08	1.67	1.12	1.99	2.02	0.23	2.02	-0.77
Min	-0.13	-0.12	-0.08	-0.18	-0.16	-0.13	-0.25	-0.55	-0.87	-1.12	-1.52	-1.67	-1.67	-1.57	-1.56	-1.41	-1.15	-0.83	-0.36	-0.22	-0.18	-0.20	-0.23	-0.17	-0.40	-0.05	-1.67

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.83	0.77	0.73	0.40	0.72	0.47	-0.12	-0.60	-0.67	-0.87	-0.92	-0.92	-1.07	-1.18	-1.13	-1.03	-0.87	-0.44	0.12	0.53	0.96	0.49	0.59	0.58	-0.11	0.96	-1.18
2	0.60	1.01	1.20	1.15	1.06	1.51	1.18	0.31	-0.60	-0.86	-0.82	-1.02	-1.25	-1.42	-1.19	-0.97	-0.58	-0.33	-0.07	0.37	1.31	1.46	0.76	0.29	0.13	1.51	-1.42
3	0.43	1.20	0.80	0.53	0.89	0.86	-0.03	-0.63	-1.08	-0.97	-1.14	-1.09	-0.93	-0.85	-0.87	-0.73	-0.62	-0.46	-0.23	-0.02	-0.06	0.03	-0.11	-0.16	-0.22	1.20	-1.14
4	-0.15	-0.08	-0.06	-0.07	0.05	-0.12	-0.21	-0.28	-0.44	-0.68	-0.91	-1.26	-1.01	-1.12	-1.21	-0.86	-1.01	-0.69	-0.38	0.05	0.08	0.26	0.24	0.07	-0.41	0.26	-1.26
5	0.21	-0.02	0.05	-0.02	-0.07	-0.05	-0.20	-0.37	-0.62	-0.65	-0.82	-0.59	-0.75	-0.86	-0.94	-1.27	-0.64	-0.40	-0.15	-0.10	0.12	0.04	0.05	0.14	-0.33	0.21	-1.27
6	0.41	0.67	0.46	0.51	0.75	0.42	-0.17	-0.57	-0.89	-0.91	-0.72	-0.76	-1.32	-0.98	-1.24	-1.04	-0.78	-0.32	-0.36	-0.34	-0.31	-0.29	-0.26	-0.19	-0.34	0.75	-1.32
7	-0.19	-0.20	-0.17	-0.17	-0.15	-0.21	-0.30	-0.48	-0.69	-0.76	-0.77	-0.85	-1.18	-1.06	-0.86	-0.88	-1.05	-0.72	-0.36	0.32	0.92	1.59	1.14	0.50	-0.27	1.59	-1.18
8	0.45	0.46	0.64	0.88	1.17	0.35	-0.30	-0.67	-0.72	-0.87	-1.01	-1.21	-1.12	-1.03	-1.10	-0.96	-1.04	-0.75	-0.08	0.52	1.04	0.82	0.26	0.31	-0.17	1.17	-1.21
9	0.55	0.14	0.56	0.37	0.42	0.96	0.32	-0.33	-0.51	-0.35	-0.51	-0.73	-1.01	-1.09	-0.73	-0.75	-0.67	-0.58	-0.36	0.04	0.12	0.18	0.15	0.66	-0.13	0.96	-1.09
10	1.26	0.32	0.07	0.02	0.01	-0.11	-0.24	-0.33	-0.42	-0.65	-0.57	-0.55	-0.45	-0.15	0.18	-0.45	-0.17	-0.35	-0.24	-0.09	0.08	-0.06	-0.01	-0.02	-0.12	1.26	-0.65
11	-0.07	0.04	0.14	0.00	0.05	-0.19	-0.48	-0.71	-0.46	-0.29	-0.32	-0.42	-0.52	-0.69	-0.67	-0.62	-0.73	-0.63	-0.35	-0.15	0.03	0.24	0.44	0.92	-0.23	0.92	-0.73
12	0.77	0.63	0.64	0.45	0.56	0.68	-0.16	-0.54	-0.69	-0.78	-1.01	-1.38	-1.21	-1.16	-1.19	-1.08	-1.00	-0.59	-0.29	0.39	0.97	0.91	0.69	0.54	-0.16	0.97	-1.38
13	0.97	1.02	0.56	0.17	0.40	0.19	-0.32	-0.61	-0.91	-1.04	-0.98	-1.08	-1.11	-1.04	-1.06	-1.20	-1.02	-0.67	-0.25	0.35	0.95	2.10	0.97	0.90	-0.11	2.10	-1.20
14	0.94	0.60	0.61	0.55	0.61	0.32	-0.15	-0.44	-0.51	-0.66	-0.87	-1.09	-0.84	-0.75	-0.80	-1.18	-0.85	-0.39	0.08	0.69	1.23	1.40	0.91	0.52	-0.00	1.40	-1.18
15	0.29	0.85	0.59	1.40	0.86	0.88	-0.17	-0.50	-0.65	-0.77	-0.91	-1.09	-1.06	-0.98	-0.46	-0.55	-0.44	-0.37	0.20	0.67	1.19	1.41	0.60	0.30	0.05	1.41	-1.09
16	0.19	0.34	0.34	0.47	0.53	0.24	-0.44	-0.95	-1.04	-1.44	-1.72	-1.40	-1.02	-0.93	-0.78	-0.82	-0.66	-0.32	-0.20	0.07	0.74	0.44	0.36	0.21	-0.32	0.74	-1.72
17	0.90	0.39	0.55	0.27	0.41	0.14	-0.34	-0.57	-0.64	-0.89	-0.94	-1.05	-1.46	-0.99	-1.01	-0.93	-0.63	-0.20	-0.22	0.29	0.45	0.77	0.67	0.33	-0.20	0.90	-1.46
18	0.41	0.34	0.69	0.35	0.79	0.55	-0.26	-0.62	-0.22	-0.34	-0.42	-0.49	-0.87	-1.28	-0.72	-1.05	-0.68	-0.53	-0.20	-0.19	-0.12	-0.01	-0.08	-0.08	-0.21	0.79	-1.28
19	-0.02	-0.08	-0.08	0.13	0.40	0.38	-0.25	-0.34	-0.96	-0.86	-1.33	-1.44	-1.37	-1.38	-1.31	-1.11	-1.16	-0.89	-0.44	0.01	0.29	0.55	0.34	0.56	-0.43	0.56	-1.44
20	0.54	0.61	0.78	1.01	0.35	0.26	-0.40	-0.67	-0.85	-0.98	-1.24	-1.43	-1.47	-1.41	-1.41	-1.32	-0.91	-0.39	0.25	0.31	0.74	1.07	0.89	0.56	-0.21	1.07	-1.47
21	0.32	0.77	0.50	0.30	0.28	0.13	-0.43	-0.63	-0.87	-1.00	-0.99	-1.13	-1.32	-1.41	-1.22	-1.32	-1.03	-0.67	-0.16	1.01	1.65	1.45	0.63	0.75	-0.18	1.65	-1.41
22	1.00	0.75	0.53	0.97	0.65	0.35	-0.38	-0.64	-0.72	-1.08	-1.13	-1.36	-1.37	-1.34	-1.44	-1.17	-1.03	-0.65	-0.07	0.54	0.74	1.16	0.54	0.52	-0.19	1.16	-1.44
23	0.63	0.52	0.43	0.54	0.39	0.56	-0.37	-0.62	-1.05	-1.11	-1.25	-1.17	-1.17	-1.45	-1.45	-1.29	-1.11	-0.71	-0.03	0.42	0.25	0.26	0.27	0.33	-0.34	0.63	-1.45
24	0.63	0.30	0.26	0.35	0.45	0.22	-0.17	-0.34	-0.54	-0.52	-0.82	-0.91	-1.30	-1.69	-1.67	-1.12	-0.49	-0.63	-0.45	0.07	0.34	0.47	1.16	1.15	-0.22	1.16	-1.69
25	0.40	0.53	0.72	0.62	0.57	0.59	-0.47	-0.68	-0.99	-0.94	-1.03	-1.27	-1.36	-1.26	-1.26	-1.06	-0.97	-0.84	-0.33	0.22	0.50	0.39	0.69	0.66	-0.27	0.72	-1.36
26	0.55	0.52	0.59	0.54	0.46	0.75	0.33	-0.39	-0.86	-1.13	-1.51	-1.69	-1.51	-1.78	-1.80	-1.52	-0.67	-0.75	-0.38	-0.03	0.21	0.68	1.18	1.03	-0.30	1.18	-1.80
27	0.84	0.76	0.65	0.52	0.73	0.45	-0.44	-0.80	-1.02	-1.21	-1.28	-0.91	-1.45	-1.26	-1.12	-1.32	-1.00	-0.46	-0.27	0.50	1.05	0.66	0.79	0.93	-0.19	1.05	-1.45
28	0.78	1.11	0.79	0.69	0.40	0.20	-0.23	-0.65	-0.97	Au	Au	Ca	Ca	-1.10	-1.99	-1.54	-1.03	-0.74	-0.32	-0.18	-0.06	-0.20	-0.20	-0.15	-0.27	1.11	-1.99
29	0.01	0.15	0.45	1.13	1.14	0.73	-0.50	-0.84	-1.01	-1.35	-1.53	-1.82	-1.86	-2.00	-1.64	-1.67	-1.42	-1.05	-0.47	0.23	0.53	1.66	1.13	0.68	-0.39	1.66	-2.00
30	0.82	0.81	0.76	0.39	0.24	0.57	-0.53	-0.81	-0.82	-0.98	-1.00	-1.55	-1.58	-1.60	-1.62	-1.21	-0.98	-0.82	-0.36	0.35	0.39	0.78	0.97	0.99	-0.28	0.99	-1.62
31	1.06	0.47	0.61	0.23	0.39	0.21	-0.11	-0.88	-0.98	-1.25	-1.42	-1.56	-0.68	-0.55	-0.67	-0.78	-0.20	0.18	0.17	0.26	0.75	0.38	0.03	0.07	-0.18	1.06	-1.56
Avg	0.53	0.51	0.50	0.47	0.50	0.40	-0.20	-0.55	-0.75	-0.87	-1.00	-1.11	-1.15	-1.15	-1.11	-1.06	-0.82	-0.55	-0.20	0.23	0.55	0.68	0.51	0.45	-0.21	1.07	-1.37
Max	1.26	1.20	1.20	1.40	1.17	1.51	1.18	0.31	-0.22	-0.29	-0.32	-0.42	-0.45	-0.15	0.18	-0.45	-0.17	0.18	0.25	1.01	1.65	2.10	1.18	1.15	0.13	2.10	-0.65
Min	-0.19	-0.20	-0.17	-0.17	-0.15	-0.21	-0.53	-0.95	-1.08	-1.44	-1.72	-1.82	-1.86	-2.00	-1.99	-1.67	-1.42	-1.05	-0.47	-0.34	-0.31	-0.29	-0.26	-0.19	-0.43	0.21	-2.00

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.16	0.14	0.53	0.46	0.56	0.35	0.14	-0.39	-0.80	-1.20	-1.65	-1.37	-0.87	-0.72	-1.42	0.36	-0.82	-0.59	-0.31	0.15	0.40	0.96	0.78	0.41	-0.20	0.96	-1.65
2	0.58	0.52	0.52	0.90	0.59	0.33	-0.43	-0.68	-0.73	-1.12	-1.04	-1.29	-1.54	-1.29	-1.20	-0.80	-1.21	-0.70	-0.34	0.55	1.35	1.05	0.63	0.33	-0.21	1.35	-1.54
3	0.69	0.91	1.00	0.94	0.99	0.46	0.06	-0.40	-0.93	-1.10	-1.07	-1.47	-1.77	-1.62	-1.17	-1.23	-0.88	-0.39	-0.40	-0.15	0.21	0.69	0.26	0.26	-0.25	1.00	-1.77
4	0.91	1.10	0.77	1.00	0.81	0.58	-0.42	-0.57	-0.96	-1.32	-1.48	-1.48	-1.88	-1.73	-1.64	-1.50	-1.23	-0.97	-0.42	-0.09	0.54	1.46	1.60	0.88	-0.25	1.60	-1.88
5	0.50	0.78	0.75	0.67	0.78	0.52	-0.54	-0.65	-0.90	-1.36	-1.67	-1.54	-1.37	-1.99	-1.75	-1.42	-1.36	-1.05	-0.56	0.05	0.45	0.90	1.20	0.66	-0.37	1.20	-1.99
6	0.25	0.75	0.99	1.35	1.03	0.14	-0.50	-0.81	-0.97	-1.20	-1.22	-1.55	-1.69	-1.89	-1.71	-1.85	-1.32	-0.96	-0.54	0.20	1.20	0.81	1.22	0.67	-0.32	1.35	-1.89
7	0.25	0.20	0.67	0.20	0.18	0.08	-0.44	-0.69	-0.84	-1.10	-1.47	-1.51	-1.69	-1.38	-1.14	-1.04	-0.82	-0.52	-0.43	-0.14	0.12	0.04	0.23	0.25	-0.46	0.67	-1.69
8	0.14	0.44	0.43	0.36	1.00	0.48	-0.56	-0.82	-0.97	-1.16	-1.43	-1.58	-1.69	-1.92	-1.89	-1.67	-1.27	-1.10	-0.56	0.19	0.96	0.61	0.35	0.76	-0.45	1.00	-1.92
9	0.95	0.89	0.74	1.04	0.81	0.87	-0.53	-0.93	-0.93	-1.37	-1.50	-1.32	-0.93	-1.40	-1.34	-1.28	-1.31	-0.98	-0.44	-0.03	0.36	0.48	0.97	1.02	-0.26	1.04	-1.50
10	1.13	1.26	0.47	0.77	0.59	0.28	-0.42	-0.75	-0.93	-1.20	-1.18	-1.48	-1.72	-1.90	-1.73	-1.06	-0.86	-0.95	-0.43	0.08	0.11	0.21	0.47	0.26	-0.37	1.26	-1.90
11	0.29	0.47	0.96	0.54	0.36	-0.17	-0.60	-0.81	-1.00	-1.29	-1.98	-1.64	-1.81	-1.76	-1.82	-1.74	-1.50	-0.61	-0.29	0.09	0.27	0.25	0.52	0.74	-0.52	0.96	-1.98
12	0.80	0.84	1.38	1.64	0.50	0.79	-0.35	-0.82	-0.94	-1.03	-1.36	-1.63	-1.41	-1.74	-1.47	-1.09	-0.93	-0.43	-0.06	0.36	0.49	0.18	0.18	0.22	-0.24	1.64	-1.74
13	0.20	0.17	0.17	0.10	-0.05	-0.01	-0.08	-0.26	-0.51	-0.35	-1.08	-1.20	-1.35	-1.17	-1.19	-1.32	-1.21	-0.87	-0.84	-0.30	-0.10	-0.03	0.23	0.95	-0.42	0.95	-1.35
14	0.28	0.34	0.44	0.35	0.48	0.09	-0.24	-0.38	-0.68	-0.86	-0.70	-0.78	-1.29	-1.24	-1.24	-1.16	-1.14	-0.66	-0.42	-0.24	-0.11	0.12	0.22	0.16	-0.36	0.48	-1.29
15	0.35	0.82	0.81	0.79	0.07	-0.21	-0.30	-0.51	-0.68	-1.21	-1.65	-1.56	-1.72	-1.52	-1.45	-0.98	-0.61	-0.66	-0.37	-0.23	0.17	0.30	0.26	0.65	-0.39	0.82	-1.72
16	0.44	0.85	0.79	0.26	0.40	0.21	-0.45	-0.43	-0.64	-0.67	-0.68	-0.70	-0.47	-0.50	-1.04	-0.97	-1.14	-1.16	-0.45	-0.20	-0.16	-0.15	-0.16	-0.09	-0.30	0.85	-1.16
17	-0.08	-0.10	-0.12	-0.11	-0.14	-0.15	-0.17	-0.18	-0.20	-0.44	-0.68	-1.19	-1.38	-1.31	-1.31	-1.12	-1.00	-0.70	-0.41	-0.16	0.21	0.28	0.70	0.48	-0.39	0.70	-1.38
18	0.76	0.34	0.13	0.07	0.03	-0.02	-0.25	-0.35	-0.52	-0.67	-0.71	-0.71	-0.50	-0.37	-0.28	-0.37	-0.35	-0.29	-0.25	-0.19	-0.15	-0.10	0.02	0.06	-0.19	0.76	-0.71
19	0.07	0.08	0.44	0.43	0.65	0.39	0.21	0.01	-0.26	-0.59	-0.81	-0.70	-0.71	-0.64	-0.59	-0.71	-0.71	-0.47	-0.28	0.21	0.92	1.18	1.10	1.04	0.01	1.18	-0.81
20	0.70	0.53	0.82	0.99	0.90	0.62	-0.49	-0.57	-0.73	-0.81	-0.75	-0.91	-0.82	-1.01	-1.14	-1.21	-0.56	-0.60	-0.12	0.06	0.33	0.34	0.72	0.82	-0.12	0.99	-1.21
21	0.80	0.57	0.73	1.19	1.31	0.63	-0.49	-0.87	-0.88	-0.93	-1.37	-1.44	-1.35	-1.36	-1.27	-1.15	-0.95	-0.75	-0.31	0.21	0.63	0.83	1.50	0.81	-0.16	1.50	-1.44
22	0.58	0.60	0.98	0.55	0.38	0.45	-0.42	-0.80	-0.94	-1.20	-1.67	-1.39	-1.55	-1.25	-0.51	-1.23	-0.92	-0.30	-0.30	-0.03	0.44	0.65	1.35	1.11	-0.23	1.35	-1.67
23	0.37	0.80	0.47	0.28	0.56	0.20	-0.34	-0.60	-0.79	-1.00	-1.32	-1.71	-1.50	-1.40	-1.31	-1.14	-1.19	-1.06	-0.62	0.02	0.19	0.51	0.69	0.78	-0.38	0.80	-1.71
24	0.43	0.45	0.42	0.62	0.46	0.15	-0.41	-0.70	-0.95	-1.20	-1.54	-1.39	0.19	-0.31	-0.60	-0.62	-0.33	-0.14	0.25	0.47	0.17	0.12	0.24	0.61	-0.15	0.62	-1.54
25	0.65	0.41	0.24	0.83	0.41	0.50	-0.12	-0.63	-0.54	-0.79	-0.95	-0.94	-0.96	-1.11	-1.08	-0.81	-0.72	-0.26	-0.23	-0.15	0.05	0.20	0.11	0.02	-0.24	0.83	-1.11
26	0.38	0.56	0.12	-0.01	0.16	0.07	-0.25	-0.34	-0.37	-0.66	-0.80	-0.84	-1.04	-1.04	-0.51	-0.33	-0.24	0.04	-0.12	-0.25	0.03	0.12	0.02	0.00	-0.22	0.56	-1.04
27	0.08	-0.04	0.17	0.19	0.26	0.12	-0.29	-0.43	-0.64	-0.67	-0.53	-0.65	-1.04	-1.29	-0.88	-0.61	-0.34	-0.30	-0.17	-0.06	0.40	0.17	-0.02	0.42	-0.26	0.42	-1.29
28	0.58	0.44	0.13	0.28	0.65	0.27	0.05	-0.32	-0.57	-0.92	-0.97	-1.09	-1.47	-1.08	-1.25	-0.68	-0.72	-0.43	-0.46	-0.10	0.61	1.15	0.39	1.38	-0.17	1.38	-1.47
29	1.08	0.56	0.95	0.85	1.92	0.87	-0.12	-0.61	-0.38	-1.08	-1.36	-1.19	-1.20	-1.12	-0.72	-0.95	-0.50	-0.60	-0.49	-0.15	0.02	0.29	0.78	0.45	-0.11	1.92	-1.36
30	0.25	0.44	1.15	1.00	0.36	0.76	-0.41	-0.49	-0.88	-0.87	-1.03	-1.15	-1.32	-1.32	-1.24	-1.24	-1.26	-0.93	-0.47	0.09	0.22	1.18	1.13	0.67	-0.22	1.18	-1.32
Avg	0.49	0.54	0.60	0.62	0.57	0.32	-0.31	-0.56	-0.74	-0.98	-1.19	-1.25	-1.26	-1.28	-1.20	-1.03	-0.91	-0.65	-0.36	0.01	0.34	0.49	0.59	0.56	-0.27	1.04	-1.50
Max	1.13	1.26	1.38	1.64	1.92	0.87	0.21	0.01	-0.20	-0.35	-0.53	-0.65	0.19	-0.31	-0.28	0.36	-0.24	0.04	0.25	0.55	1.35	1.46	1.60	1.38	0.01	1.92	-0.71
Min	-0.08	-0.10	-0.12	-0.11	-0.14	-0.21	-0.60	-0.93	-1.00	-1.37	-1.98	-1.71	-1.88	-1.99	-1.89	-1.85	-1.50	-1.16	-0.84	-0.30	-0.16	-0.15	-0.16	-0.09	-0.52	0.42	-1.99

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	35	199	349	519	653	744	805	784	576	510	170	89	28	1	0	0	0	0	228	805	0
2	0	0	0	0	0	0	8	71	195	437	612	713	362	760	509	504	367	203	21	1	0	0	0	0	198	760	0
3	0	0	0	0	0	0	31	150	352	531	667	756	784	768	697	574	357	205	44	1	0	0	0	0	247	784	0
4	0	0	0	0	0	0	20	93	272	561	388	255	405	331	524	183	94	248	46	1	0	0	0	0	143	561	0
5	0	0	0	0	0	0	17	84	125	166	261	596	581	673	529	494	288	138	38	1	0	0	0	0	166	673	0
6	0	0	0	0	0	0	20	110	233	498	708	746	846	602	486	457	231	120	42	1	0	0	0	0	213	846	0
7	0	0	0	0	0	0	26	185	270	230	496	798	816	781	497	625	306	244	75	2	0	0	0	0	223	816	0
8	0	0	0	0	0	1	22	190	397	545	Ca	Ca	Ca	810	652	561	401	150	67	2	0	0	0	0	181	810	0
9	0	0	0	0	0	1	35	121	118	220	250	758	587	628	677	593	381	184	54	4	0	1	1	1	192	758	0
10	1	1	0	0	0	1	47	221	406	559	688	787	797	656	703	604	426	210	77	3	0	1	1	1	258	797	0
11	1	1	1	1	1	2	49	258	194	264	559	792	827	832	710	418	421	199	56	2	0	0	0	1	233	832	0
12	1	1	1	1	1	3	66	188	463	572	637	307	360	278	200	299	181	58	18	3	1	1	0	1	152	637	0
13	0	0	0	0	0	2	78	250	431	598	729	814	841	820	744	621	457	278	98	4	1	1	0	0	282	841	0
14	0	0	0	0	0	3	80	252	428	592	712	803	831	817	700	642	495	205	83	4	1	0	0	0	277	831	0
15	0	1	1	1	1	2	26	92	109	112	183	281	328	517	436	433	357	145	56	6	1	1	1	1	129	517	0
16	1	1	1	1	1	6	82	156	255	419	584	466	573	655	730	569	436	285	80	3	0	0	1	1	221	730	0
17	1	1	1	1	1	3	91	179	330	508	592	476	442	303	224	318	232	98	29	2	0	0	0	0	160	592	0
18	1	1	1	1	1	3	34	139	356	333	420	421	751	854	595	689	477	270	115	5	0	1	1	1	228	854	0
19	1	1	1	1	0	6	93	268	443	609	734	787	829	671	635	599	419	219	60	6	0	0	0	0	266	829	0
20	0	1	1	1	1	6	100	280	459	622	744	821	852	827	752	606	446	300	114	8	1	1	1	1	289	852	0
21	0	1	0	0	1	8	91	263	437	606	733	819	841	773	790	494	220	130	38	3	0	0	0	0	260	841	0
22	0	0	0	0	0	5	53	151	304	449	388	181	138	139	35	220	221	43	14	2	0	0	0	0	98	449	0
23	0	0	0	0	0	3	37	143	352	507	435	631	858	797	812	533	219	91	33	4	0	0	0	0	227	858	0
24	0	0	0	0	0	10	57	112	214	274	229	341	414	426	333	378	297	172	37	6	0	0	0	0	138	426	0
25	0	0	0	0	0	8	73	142	422	582	751	774	715	607	465	147	218	62	7	3	0	0	0	0	207	774	0
26	0	0	0	0	0	4	25	70	188	206	259	307	434	408	379	465	303	251	109	8	0	0	0	0	142	465	0
27	0	0	0	0	0	10	138	297	486	643	781	833	386	777	552	422	198	103	38	6	1	0	0	0	236	833	0
28	0	0	0	0	0	6	46	136	221	391	530	698	537	425	675	598	459	294	89	15	1	0	0	0	213	698	0
29	0	0	0	0	0	19	146	313	485	646	776	723	565	481	753	652	530	262	146	17	0	0	0	0	271	776	0
30	0	0	0	0	0	18	146	320	492	651	773	849	876	843	766	654	507	329	178	23	0	0	0	0	309	876	0
Avg	0	0	0	0	0	4	59	181	326	462	561	630	634	635	571	495	337	186	63	5	0	0	0	0	213	737	0
Max	1	1	1	1	1	19	146	320	492	651	781	849	876	854	812	689	530	329	178	23	1	1	1	1	309	876	0
Min	0	0	0	0	0	0	8	70	109	112	183	181	138	139	35	147	94	43	7	1	0	0	0	0	98	426	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	19	146	315	484	645	769	845	874	850	775	655	477	323	131	17	0	0	0	0	305	874	0
2	0	0	0	0	0	10	51	225	444	653	762	854	879	861	798	644	497	277	62	12	0	0	0	0	293	879	0
3	0	0	0	0	0	26	140	302	446	477	604	639	494	518	568	306	275	230	77	26	0	0	0	0	214	639	0
4	0	0	0	0	0	3	18	49	156	291	481	779	772	774	620	521	523	317	210	25	0	0	0	0	231	779	0
5	0	0	0	0	0	20	83	185	356	514	527	363	501	610	492	583	228	138	48	26	0	0	0	0	195	610	0
6	0	0	0	0	0	33	147	332	537	556	392	399	688	604	687	458	269	76	104	8	0	0	0	0	220	688	0
7	0	0	0	0	0	9	47	90	304	397	325	534	965	632	368	388	483	328	172	24	0	0	0	0	211	965	0
8	0	0	0	0	0	34	164	339	507	678	777	905	841	804	788	679	485	334	82	22	0	0	0	0	310	905	0
9	0	0	0	0	0	9	44	145	239	195	463	796	724	876	580	578	471	362	165	29	1	0	0	0	237	876	0
10	0	0	0	0	0	18	66	136	204	386	287	379	263	65	114	293	60	70	52	13	0	0	0	0	100	386	0
11	0	0	0	0	0	24	175	275	148	91	105	145	171	225	248	284	220	181	76	17	0	0	0	0	99	284	0
12	0	0	0	0	1	46	189	360	530	686	814	894	907	866	799	685	521	355	169	39	1	0	0	0	328	907	0
13	0	0	0	0	1	43	188	358	528	682	799	883	890	854	736	665	530	361	168	49	1	0	0	0	322	890	0
14	0	0	0	0	1	28	180	200	261	492	699	816	492	564	607	723	422	279	92	26	1	0	0	0	245	816	0
15	0	0	0	0	1	40	189	274	487	664	707	848	766	614	316	397	325	289	103	22	1	0	0	0	252	848	0
16	0	0	0	0	2	57	187	366	494	620	686	757	665	659	312	444	313	176	112	29	1	0	0	0	245	757	0
17	0	0	0	0	1	37	203	308	460	666	784	823	845	741	784	495	294	100	82	29	1	0	0	0	277	845	0
18	0	0	0	0	1	55	198	265	26	70	146	219	465	817	308	518	258	170	52	54	1	0	0	0	151	817	0
19	0	0	0	0	1	20	67	128	412	499	764	809	629	916	799	728	514	438	216	50	1	0	0	0	291	916	0
20	0	0	0	0	2	63	206	374	541	693	816	897	935	938	805	619	483	241	111	53	2	0	0	0	324	938	0
21	0	0	0	0	2	60	215	379	545	694	817	894	919	895	823	705	556	351	186	37	2	0	0	0	337	919	0
22	0	0	0	0	2	59	212	390	393	691	620	900	911	886	821	669	524	369	199	61	2	0	0	0	321	911	0
23	0	0	0	0	2	58	204	373	537	686	806	882	905	885	817	658	566	398	122	40	2	0	0	0	331	905	0
24	0	0	0	0	2	41	105	133	190	244	428	479	591	798	914	442	118	208	168	55	2	0	0	0	205	914	0
25	0	0	0	0	3	59	210	357	499	619	634	858	857	803	768	551	494	370	172	30	2	0	0	0	304	858	0
26	0	0	0	0	1	27	81	189	515	637	767	880	568	789	778	687	292	350	168	44	2	0	0	0	282	880	0
27	0	0	0	0	3	67	216	386	548	698	830	616	923	534	704	672	476	170	48	9	1	0	0	0	288	923	0
28	0	0	0	0	3	48	204	381	514	Au	Au	Ca	Ca	884	824	604	357	252	78	27	2	0	0	0	209	884	0
29	0	0	0	0	3	60	209	387	527	723	842	916	913	899	829	713	565	398	226	74	4	0	0	0	345	916	0
30	0	0	0	0	3	68	221	391	558	722	823	865	914	904	854	641	415	437	177	24	2	0	0	0	334	914	0
31	0	0	0	0	2	41	137	361	579	605	657	873	218	208	243	276	95	17	56	16	1	0	0	0	183	873	0
Avg	0	0	0	0	1	38	152	282	418	542	631	725	716	718	641	557	391	270	125	32	1	0	0	0	258	823	0
Max	0	0	0	0	3	68	221	391	579	723	842	916	965	938	914	728	566	438	226	74	4	0	0	0	345	965	0
Min	0	0	0	0	0	3	18	49	26	70	105	145	171	65	114	276	60	17	48	8	0	0	0	0	99	284	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	3	25	78	136	446	444	840	691	411	360	736	122	559	288	174	29	7	0	0	0	223	840	0
2	0	0	0	0	3	74	220	389	552	701	822	896	930	920	633	488	547	377	238	71	3	0	0	0	328	930	0
3	0	0	0	0	2	31	88	210	435	511	429	912	953	826	601	549	408	92	165	97	5	0	0	0	263	953	0
4	0	0	0	0	3	43	236	225	493	697	855	840	862	874	902	778	618	428	204	90	4	0	0	0	340	902	0
5	0	0	0	0	3	76	226	394	557	710	851	909	908	924	838	689	562	415	245	84	4	0	0	0	350	924	0
6	0	0	0	0	3	74	222	397	561	714	748	734	951	989	799	746	568	400	247	49	4	0	0	0	342	989	0
7	0	0	0	0	4	77	211	330	533	665	809	946	840	507	434	401	335	168	128	49	3	0	0	0	268	946	0
8	0	0	0	0	4	80	238	392	559	730	723	880	1008	909	833	747	560	420	230	64	6	0	0	0	349	1008	0
9	0	0	0	0	3	70	241	408	566	704	838	687	544	918	781	667	582	427	209	54	6	0	0	0	321	918	0
10	0	0	0	0	4	81	233	402	565	716	731	755	834	889	713	392	332	409	201	47	4	0	0	0	305	889	0
11	0	0	0	0	4	94	235	399	562	736	925	917	995	958	735	815	597	213	175	43	5	0	0	0	350	995	0
12	0	0	0	0	4	45	217	356	460	489	769	760	687	706	663	352	347	162	69	15	4	0	0	0	254	769	0
13	0	0	0	0	2	30	62	140	234	197	758	731	668	948	874	809	575	434	359	94	9	0	0	0	289	948	0
14	0	0	0	0	3	23	53	136	274	310	332	410	686	618	508	387	449	180	106	52	6	0	0	0	189	686	0
15	0	0	0	0	2	33	92	222	394	658	815	678	774	599	575	480	190	250	115	27	1	0	0	0	246	815	0
16	0	0	0	0	3	39	175	161	342	306	291	325	221	187	552	480	458	446	157	48	7	0	0	0	175	552	0
17	0	0	0	0	1	8	18	41	87	165	439	645	1044	916	649	775	657	280	185	103	4	0	0	0	251	1044	0
18	0	0	0	0	2	16	58	133	186	269	363	340	156	172	140	143	93	77	65	41	5	0	0	0	94	363	0
19	0	0	0	0	0	9	46	91	254	328	706	820	615	514	439	518	574	396	263	98	5	0	0	0	237	820	0
20	0	0	0	0	5	47	242	312	519	642	450	525	489	676	840	685	344	389	108	71	8	0	0	0	265	840	0
21	0	0	0	0	3	50	235	405	572	640	837	900	925	913	835	704	534	438	250	72	7	0	0	0	347	925	0
22	0	0	0	0	3	76	225	393	541	546	824	698	705	619	245	415	392	74	54	42	10	0	0	0	244	824	0
23	0	0	0	0	4	62	138	331	508	659	741	880	923	909	847	749	627	442	262	87	5	0	0	0	341	923	0
24	0	0	0	0	6	85	198	376	520	613	749	729	106	556	440	380	231	205	100	59	4	0	0	0	223	749	0
25	0	0	0	0	2	49	165	338	477	701	807	804	819	775	757	527	355	129	58	33	4	0	0	0	283	819	0
26	0	0	0	0	0	6	37	110	118	341	625	632	779	675	227	315	136	77	72	62	2	0	0	0	176	779	0
27	0	0	0	0	2	12	129	240	395	359	320	573	749	924	580	289	117	107	48	104	6	0	0	0	206	924	0
28	0	0	0	0	3	46	50	206	509	653	525	673	935	693	804	568	518	214	190	104	6	0	0	0	279	935	0
29	0	0	0	0	3	37	212	350	214	718	868	751	878	860	342	535	208	225	238	65	6	0	0	0	271	878	0
30	0	0	0	0	2	70	221	392	562	634	681	744	934	913	845	738	594	435	267	108	6	0	0	0	339	934	0
Avg	0	0	0	0	3	49	160	281	433	552	682	726	744	742	639	541	436	287	173	65	5	0	0	0	272	861	0
Max	0	0	0	0	6	94	242	408	572	736	925	946	1044	989	902	815	657	446	359	108	10	0	0	0	350	1044	0
Min	0	0	0	0	0	6	18	41	87	165	291	325	106	172	140	122	93	74	48	15	1	0	0	0	94	363	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (RH)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10														Ca	Ca	Ca	24.5	27.1	29.8	33.7	35.6	38.2	46.0	49.3	35.5	49.3	24.5
11	50.1	51.5	59.8	59.2	57.4	70.2	75.5	63.1	50.0	42.3	38.9	35.2	33.0	31.5	29.4	29.9	29.2	30.2	35.1	37.4	41.3	49.9	53.5	54.6	46.2	75.5	29.2
12	53.4	56.9	62.9	64.4	72.8	69.5	66.4	64.9	62.5	56.8	53.9	52.6	81.8	69.4	64.4	66.6	64.9	62.2	60.5	63.6	59.7	57.1	55.4	57.9	62.5	81.8	52.6
13	61.0	60.9	63.3	61.7	63.8	67.2	63.4	52.3	49.8	44.4	33.0	21.9	24.3	21.9	20.7	20.1	24.2	24.7	25.2	31.0	33.9	39.1	46.3	46.0	41.7	67.2	20.1
14	50.7	58.3	58.0	62.2	63.2	62.4	66.4	52.5	47.0	39.1	29.2	25.1	22.8	16.8	15.0	14.3	13.9	14.6	15.9	19.5	20.4	21.5	24.3	25.9	35.0	66.4	13.9
15	32.4	29.0	31.1	33.2	35.5	37.5	40.0	40.7	41.5	44.5	52.3	57.8	63.1	47.0	42.8	48.4	62.4	55.8	67.0	68.5	74.1	69.8	65.7	78.9	50.8	78.9	29.0
16	84.5	86.8	82.0	81.9	79.5	83.1	77.2	72.6	65.0	54.1	45.9	43.8	38.0	40.3	39.1	42.6	44.8	47.3	50.9	54.1	55.2	57.4	59.1	60.8	60.3	86.8	38.0
17	62.0	61.9	63.8	70.5	70.6	72.9	71.3	64.9	57.4	46.0	39.9	37.4	38.3	40.2	46.7	46.5	46.5	47.1	54.3	60.7	68.5	70.8	77.7	83.0	58.3	83.0	37.4
18	93.2	93.2	94.1	92.9	88.7	89.6	87.9	83.4	82.7	81.9	74.5	68.6	46.2	36.2	31.0	28.8	29.0	30.3	32.7	37.5	38.5	42.9	47.8	49.0	61.7	94.1	28.8
19	55.8	58.7	64.3	73.8	75.5	74.4	72.6	68.5	57.8	44.3	33.5	27.6	21.6	18.4	17.7	17.0	17.0	17.8	18.9	22.7	25.2	28.2	34.1	51.6	41.5	75.5	17.0
20	71.4	65.3	63.5	60.6	57.4	53.0	49.5	44.6	42.8	39.4	35.6	33.6	30.2	28.6	26.4	24.5	23.7	22.7	25.3	30.5	33.9	35.5	41.2	47.9	41.1	71.4	22.7
21	49.2	53.3	58.5	65.5	64.6	70.7	64.1	56.6	50.1	42.2	35.7	32.0	26.4	20.5	17.3	16.0	16.1	18.3	20.1	24.5	27.5	28.7	33.8	39.3	38.8	70.7	16.0
22	44.8	45.8	48.6	53.2	58.8	59.1	61.9	62.0	56.8	41.7	37.3	41.9	56.4	72.9	85.4	88.3	82.0	78.4	87.1	87.1	86.9	85.6	83.7	74.6	65.8	88.3	37.3
23	66.4	72.9	69.8	65.8	64.4	63.7	66.1	65.8	61.2	53.7	47.8	45.5	42.3	48.0	40.1	42.3	55.9	63.6	72.7	72.9	77.3	79.5	88.5	92.7	63.3	92.7	40.1
24	92.4	89.2	89.3	90.3	84.6	97.3	93.5	86.8	78.2	69.3	67.3	67.5	69.3	64.8	82.1	77.7	70.4	65.3	68.9	74.6	77.8	76.8	77.2	81.2	78.8	97.3	64.8
25	85.1	85.7	83.8	84.7	88.2	97.3	91.7	90.0	73.0	62.0	51.3	48.6	42.3	38.7	36.9	58.5	64.3	67.4	85.3	92.6	88.3	82.7	85.2	93.3	74.0	97.3	36.9
26	93.1	92.0	91.7	95.9	95.5	95.5	97.2	94.2	88.7	83.7	79.8	75.8	70.8	65.3	65.2	63.1	66.4	63.1	60.7	66.1	68.3	67.9	70.1	73.3	78.5	97.2	60.7
27	72.5	73.5	73.4	74.4	75.4	78.2	75.1	69.7	53.8	47.1	41.9	39.3	39.1	37.1	36.7	49.1	60.2	62.4	57.7	59.0	67.1	66.7	66.3	65.7	60.1	78.2	36.7
28	64.8	64.5	67.1	68.9	73.7	84.0	77.7	72.4	62.0	57.8	50.0	49.5	46.0	45.6	43.5	41.5	49.9	52.6	54.6	65.4	72.1	69.7	67.8	65.8	61.1	84.0	41.5
29	71.3	70.9	73.8	80.7	82.0	77.8	73.2	69.2	63.0	51.6	45.2	38.3	36.4	34.0	30.8	27.9	26.0	27.3	28.1	33.2	35.9	39.2	47.8	56.4	50.8	82.0	26.0
30	61.1	66.8	69.0	72.8	79.3	81.5	74.2	65.0	55.6	47.3	41.1	35.3	29.6	26.8	25.8	21.6	19.3	20.2	22.7	27.2	30.3	30.9	43.0	47.8	45.6	81.5	19.3
Avg	65.8	66.9	68.4	70.6	71.5	74.2	72.2	67.0	59.9	52.5	46.7	43.9	42.9	40.2	39.9	41.2	42.4	42.8	46.4	50.6	53.2	54.2	57.8	61.7	55.5	80.9	33.0
Max	93.2	93.2	94.1	95.9	95.5	97.3	97.2	94.2	88.7	83.7	79.8	75.8	81.8	72.9	85.4	88.3	82.0	78.4	87.1	92.6	88.3	85.6	88.5	93.3	78.8	97.3	64.8
Min	32.4	29.0	31.1	33.2	35.5	37.5	40.0	40.7	41.5	39.1	29.2	21.9	21.6	16.8	15.0	14.3	13.9	14.6	15.9	19.5	20.4	21.5	24.3	25.9	35.0	49.3	13.9

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (RH)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	48.0	57.1	60.4	62.6	68.5	74.5	66.4	62.3	51.8	43.7	37.5	31.4	24.7	24.0	23.2	22.5	22.9	23.6	25.8	29.1	33.9	40.3	44.4	45.3	42.7	74.5	22.5
2	47.4	51.6	53.1	65.7	65.7	70.3	76.8	70.9	57.9	43.9	28.8	26.6	25.4	23.0	19.5	19.7	21.3	23.1	22.7	25.4	29.7	34.6	37.7	45.1	41.1	76.8	19.5
3	46.8	53.8	60.0	61.2	67.7	70.7	64.2	60.3	56.7	52.3	48.7	43.2	44.7	41.4	38.8	33.6	31.4	41.0	50.8	55.2	59.8	63.9	67.8	73.5	53.6	73.5	31.4
4	73.8	71.8	72.4	76.9	85.6	93.8	93.5	93.0	89.3	86.5	84.5	79.2	64.2	52.1	45.8	42.3	37.9	43.6	47.3	53.2	58.1	62.2	69.2	72.1	68.7	93.8	37.9
5	75.1	83.6	93.9	93.3	90.3	92.3	92.7	85.4	80.0	68.4	63.6	61.5	55.6	46.2	48.3	54.8	53.1	47.9	46.9	47.3	54.1	58.5	60.2	63.2	67.3	93.9	46.2
6	69.0	73.1	76.8	77.7	87.9	81.1	79.2	73.1	61.9	51.9	49.4	50.4	44.9	39.2	36.0	36.7	45.9	68.0	62.1	75.0	74.3	75.0	77.1	72.2	64.1	87.9	36.0
7	68.8	67.8	67.2	68.1	71.8	72.7	71.4	70.4	65.5	59.6	58.4	54.0	48.9	47.9	44.5	41.5	37.2	34.5	37.6	43.3	47.6	49.8	57.1	67.1	56.4	72.7	34.5
8	71.7	73.9	80.4	84.3	83.1	79.6	72.3	65.6	57.7	50.1	42.8	35.0	32.8	31.8	28.7	24.6	23.0	23.5	26.1	30.5	33.2	37.6	48.9	51.1	49.5	84.3	23.0
9	59.6	57.9	64.1	64.7	63.7	77.9	79.7	75.5	70.3	82.1	75.3	61.2	48.1	41.4	37.1	37.7	37.9	38.9	42.7	45.9	51.9	56.3	57.8	63.2	58.0	82.1	37.1
10	69.7	69.5	70.4	73.6	73.9	76.8	76.2	75.2	69.9	64.5	64.1	65.2	66.0	70.9	81.4	78.6	86.4	89.5	88.5	89.4	88.4	92.9	91.4	91.2	77.7	92.9	64.1
11	92.5	92.4	93.1	95.7	98.9	96.4	84.7	76.2	68.3	70.6	66.8	66.3	67.8	66.3	59.7	54.1	68.4	68.9	72.3	72.0	70.6	56.2	58.3	62.7	74.1	98.9	54.1
12	63.8	66.8	73.2	84.7	86.8	87.2	79.2	74.4	69.0	57.5	42.8	34.5	30.5	30.9	30.4	29.3	28.3	27.2	27.2	31.4	38.7	42.9	55.5	60.8	52.2	87.2	27.2
13	63.5	69.2	74.7	73.4	75.5	74.4	66.1	62.4	54.2	45.8	38.6	29.2	21.6	21.4	21.0	20.2	21.1	20.1	23.5	23.6	28.0	34.1	37.0	46.7	43.6	75.5	20.1
14	50.7	52.5	59.1	61.0	65.9	67.3	61.9	62.4	52.0	41.0	35.4	31.7	29.7	30.7	29.9	28.3	29.2	30.1	31.7	34.9	39.7	44.2	51.1	56.5	44.9	67.3	28.3
15	56.3	63.2	63.6	72.0	77.9	78.4	69.6	65.1	51.7	47.0	39.8	35.0	29.5	24.6	22.8	20.7	24.0	25.4	27.2	29.5	33.5	38.4	45.5	58.3	45.8	78.4	20.7
16	64.5	68.5	71.3	73.9	75.1	73.4	65.4	60.8	53.5	49.4	45.8	41.2	38.7	36.6	41.5	42.7	41.5	47.1	51.7	53.1	63.1	72.2	78.4	84.2	58.1	84.2	36.6
17	92.3	90.0	93.8	96.6	98.6	97.2	84.4	84.2	75.6	67.9	55.9	42.6	33.8	31.1	28.2	29.1	28.1	30.2	55.4	61.5	66.6	73.6	74.7	80.3	65.5	98.6	28.1
18	85.7	87.5	89.9	94.1	95.3	92.3	82.4	77.3	84.5	88.9	85.2	80.0	71.4	56.4	55.5	50.7	53.5	57.2	54.8	62.6	68.6	70.0	69.6	72.1	74.4	95.3	50.7
19	76.7	77.1	77.7	80.5	82.2	82.9	78.9	74.4	66.0	56.9	51.1	48.1	48.5	40.9	37.4	34.4	38.1	36.7	37.0	43.9	53.0	57.2	63.6	70.1	58.9	82.9	34.4
20	77.3	80.5	83.4	85.9	94.1	87.9	78.7	70.2	63.1	54.9	46.4	36.9	33.3	28.6	29.5	29.6	27.4	28.4	30.2	31.9	38.1	44.2	50.7	64.1	54.0	94.1	27.4
21	66.4	70.7	75.6	79.9	80.6	79.9	68.0	64.1	53.8	48.4	41.9	28.6	22.1	22.6	19.5	18.1	17.9	19.5	18.3	20.9	27.5	32.3	40.7	50.0	44.5	80.6	17.9
22	51.8	56.6	58.7	62.6	68.9	66.6	58.2	53.0	49.3	40.5	35.4	31.2	29.3	27.7	24.0	23.8	20.9	18.8	19.9	23.3	29.6	36.6	42.5	49.3	40.8	68.9	18.8
23	50.6	56.1	59.0	64.7	65.2	67.6	62.1	49.2	47.3	40.9	33.6	27.5	23.7	20.6	17.2	15.0	15.2	16.4	19.4	24.8	28.9	32.4	36.8	43.7	38.2	67.6	15.0
24	53.7	57.2	60.3	63.7	65.5	67.8	66.9	67.5	65.0	61.1	56.9	54.0	50.8	47.4	42.3	44.6	49.6	46.3	47.4	52.5	59.9	63.1	69.4	75.2	57.8	75.2	42.3
25	77.4	80.9	87.6	88.8	85.6	88.8	77.2	69.8	63.7	51.9	45.9	39.9	36.0	33.5	30.9	29.3	25.9	24.3	27.8	31.4	33.9	36.8	39.5	46.9	52.2	88.8	24.3
26	56.4	59.5	59.4	67.2	71.7	65.0	62.9	57.2	48.4	46.0	44.0	42.7	42.0	39.6	34.5	36.9	41.5	44.1	48.5	50.8	49.5	53.3	57.8	60.4	51.6	71.7	34.5
27	62.0	68.1	76.3	77.9	84.8	80.2	68.1	64.3	53.1	44.2	38.9	31.2	29.6	26.1	26.7	25.7	25.4	27.6	37.8	55.3	62.6	65.1	69.2	81.6	53.4	84.8	25.4
28	77.9	84.4	81.0	81.1	88.0	85.3	74.1	68.6	61.9	Au	Au	Ca	Ca	39.4	37.4	36.7	37.6	38.7	44.6	51.4	58.6	58.5	56.6	54.1	60.8	88.0	36.7
29	57.6	60.1	63.8	69.2	72.1	70.2	64.8	55.4	44.1	36.6	32.7	30.7	29.3	28.8	27.1	25.6	25.1	25.0	25.6	28.3	32.2	39.2	44.2	51.9	43.3	72.1	25.0
30	52.7	60.0	67.2	67.9	68.7	70.1	63.3	54.6	45.4	36.5	28.8	22.7	22.0	19.7	19.2	17.1	16.6	14.8	17.3	24.0	28.2	28.9	33.8	35.9	38.1	70.1	14.8
31	38.7	34.7	34.6	39.4	43.2	47.0	50.5	45.0	36.0	33.5	33.2	27.8	26.8	33.8	32.2	35.2	39.6	42.7	48.5	50.7	55.9	59.2	63.2	63.5	42.3	63.5	26.8
Avg	64.5	67.6	71.0	74.5	77.5	77.9	72.3	67.3	60.2	54.1	48.4	43.0	39.1	36.3	34.5	33.5	34.6	36.2	39.2	43.6	48.3	51.9	56.4	61.7	53.9	81.5	31.0
Max	92.5	92.4	93.9	96.6	98.9	97.2	93.5	93.0	89.3	88.9	85.2	80.0	71.4	70.9	81.4	78.6	86.4	89.5	88.5	89.4	88.4	92.9	91.4	91.2	77.7	98.9	64.1
Min	38.7	34.7	34.6	39.4	43.2	47.0	50.5	45.0	36.0	33.5	28.8	22.7	21.6	19.7	17.2	15.0	15.2	14.8	17.3	20.9	27.5	28.9	33.8	35.9	38.1	63.5	14.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (RH)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	67.1	65.2	67.5	71.1	74.6	79.8	80.1	73.3	61.3	56.6	47.9	42.8	42.0	43.4	34.2	61.3	50.6	46.9	46.5	55.7	62.3	65.8	69.7	77.0	60.1	80.1	34.2
2	78.7	80.2	86.9	89.0	91.1	85.4	77.1	72.0	61.9	54.2	43.8	33.3	28.5	24.7	20.6	19.8	17.1	17.1	18.8	22.6	27.1	31.2	39.9	46.7	48.7	91.1	17.1
3	48.8	50.4	55.7	54.0	57.2	62.9	59.6	57.0	49.5	47.8	47.6	37.4	33.8	30.7	30.2	32.0	44.0	48.0	41.9	41.0	46.0	53.6	59.9	60.6	47.9	62.9	30.2
4	67.4	72.5	73.2	78.7	85.9	83.4	74.7	68.3	58.6	49.5	36.2	30.9	26.5	26.4	26.2	25.4	23.7	23.7	24.8	26.8	31.5	34.8	37.6	44.2	47.1	85.9	23.7
5	50.4	53.1	61.4	66.1	69.8	64.2	54.5	44.3	37.5	34.3	30.4	27.3	25.9	23.3	22.1	21.5	21.3	22.1	23.5	25.7	28.6	33.1	41.2	56.3	39.1	69.8	21.3
6	65.9	71.9	75.1	77.3	81.3	75.0	68.5	57.7	53.1	44.4	34.8	24.0	21.9	21.8	18.4	17.6	18.6	19.5	21.0	24.7	29.2	34.6	45.6	51.2	43.9	81.3	17.6
7	51.9	59.1	61.3	64.1	67.5	65.0	59.0	54.5	42.5	38.4	30.8	23.4	20.5	23.0	22.0	22.1	21.8	23.6	25.4	27.9	30.8	32.4	33.5	34.6	39.0	67.5	20.5
8	40.2	47.5	51.8	55.3	56.4	57.4	54.0	48.6	38.6	31.8	29.6	27.0	23.7	21.5	20.8	20.6	21.0	21.2	22.7	26.2	30.3	31.6	39.6	43.7	35.9	57.4	20.6
9	48.2	55.2	56.5	65.8	66.0	62.9	52.9	49.5	40.3	34.6	30.6	30.2	29.0	27.1	26.9	26.4	25.2	24.4	26.3	26.2	28.4	30.8	32.7	36.9	38.9	66.0	24.4
10	42.6	51.6	56.6	56.3	62.5	59.7	52.7	46.7	39.9	31.9	23.4	22.1	21.3	23.5	25.3	25.8	26.5	25.2	24.6	26.4	34.0	43.3	50.9	57.6	38.8	62.5	21.3
11	64.1	65.3	75.4	74.9	76.4	70.3	61.2	53.4	45.3	37.8	33.2	30.0	25.8	23.0	22.1	22.0	21.7	25.0	26.1	35.6	45.2	50.4	55.1	59.6	45.8	76.4	21.7
12	60.0	62.3	63.9	66.5	66.0	67.4	60.2	56.5	53.9	46.4	38.2	33.8	28.3	24.1	21.7	25.1	25.2	28.3	33.0	37.8	44.9	53.7	55.1	68.0	46.7	68.0	21.7
13	79.9	86.6	91.7	97.5	95.4	95.0	92.0	87.9	84.0	88.1	81.9	68.4	59.0	49.3	43.6	39.8	38.5	37.8	39.3	48.3	50.7	55.5	63.3	71.2	68.5	97.5	37.8
14	69.2	71.2	73.2	77.7	81.6	75.2	71.7	67.7	66.2	67.4	63.2	58.6	52.1	49.1	50.1	56.0	57.0	55.9	58.5	63.1	65.4	69.8	73.8	77.2	65.5	81.6	49.1
15	77.6	81.7	81.1	82.3	84.4	90.9	86.8	75.4	67.5	56.9	48.3	43.9	38.2	38.7	37.5	33.9	38.1	35.3	34.3	44.5	63.6	80.7	74.8	80.7	61.5	90.9	33.9
16	87.4	93.7	93.8	87.8	91.0	90.5	84.4	78.9	70.8	61.9	62.4	60.9	74.2	82.6	65.8	53.1	53.7	59.5	65.2	68.0	74.8	78.3	81.0	85.7	75.2	93.8	53.1
17	86.6	90.2	90.0	90.1	91.6	92.7	93.1	92.3	95.5	92.7	88.9	84.5	71.9	63.6	61.8	57.7	53.3	56.8	61.2	64.8	71.4	71.5	80.9	82.7	78.6	95.5	53.3
18	85.9	83.3	86.0	88.2	84.0	80.7	78.4	75.6	72.6	69.6	58.8	55.4	56.4	64.1	86.4	89.5	91.1	92.2	91.8	91.9	92.6	93.1	90.6	89.2	81.1	93.1	55.4
19	90.7	89.4	89.5	87.7	86.9	83.6	82.9	76.8	70.7	68.0	56.3	43.4	42.1	39.8	37.1	34.9	34.8	33.9	32.9	36.4	42.3	45.7	50.8	57.0	58.9	90.7	32.9
20	67.5	72.9	75.4	80.9	80.4	82.0	69.6	68.4	61.1	53.4	49.3	45.2	43.2	40.8	34.9	30.5	30.1	30.8	35.0	40.2	40.7	42.9	48.3	53.4	53.2	82.0	30.1
21	56.4	55.9	60.8	63.5	65.7	69.9	63.2	59.9	53.7	43.0	37.8	32.3	28.0	25.5	22.1	20.4	19.5	20.9	22.0	24.2	28.6	33.0	36.1	49.2	41.3	69.9	19.5
22	51.1	61.7	63.3	65.4	67.8	69.4	64.1	60.7	49.4	45.9	40.4	38.5	37.6	35.1	40.5	48.7	44.5	52.2	65.9	66.9	69.3	68.6	74.0	81.6	56.8	81.6	35.1
23	87.9	89.4	93.2	97.8	95.7	92.6	86.6	76.8	64.6	57.2	50.9	38.9	33.4	27.2	24.6	22.2	27.6	35.0	33.9	40.3	52.9	58.1	59.1	63.6	58.7	97.8	22.2
24	67.4	72.2	76.1	81.9	82.4	78.2	70.8	63.0	54.1	51.1	45.6	40.0	50.7	52.3	38.5	35.6	36.6	43.3	50.1	63.8	71.8	78.7	85.8	93.0	61.8	93.0	35.6
25	93.9	92.5	94.4	95.0	95.4	92.8	87.2	83.2	64.3	52.6	44.3	39.7	38.0	35.7	31.4	30.8	31.4	33.0	52.7	56.9	60.9	67.3	66.9	73.5	63.1	95.4	30.8
26	76.0	80.7	90.3	97.0	97.0	97.6	98.8	93.2	95.5	85.9	74.3	68.5	63.7	62.8	59.1	71.1	77.5	81.9	82.8	82.2	84.8	75.3	78.0	80.3	81.4	98.8	59.1
27	84.8	85.4	87.5	86.9	90.5	89.3	85.3	79.9	73.0	65.0	62.6	65.1	54.1	49.9	52.4	74.7	69.3	67.9	78.5	71.6	73.4	71.4	68.5	73.7	73.4	90.5	49.9
28	80.3	85.1	79.5	78.9	80.3	81.3	77.5	70.8	62.9	56.9	52.1	51.5	51.8	57.8	52.1	52.7	47.1	47.3	53.1	51.7	58.8	64.4	62.7	68.5	63.5	85.1	47.1
29	69.5	75.6	71.1	75.5	78.1	72.5	70.2	60.2	66.6	53.9	44.5	41.3	37.8	36.4	37.1	38.2	40.9	52.9	48.8	56.1	62.3	67.0	67.8	67.1	58.0	78.1	36.4
30	70.8	73.5	72.7	71.6	68.9	67.8	65.6	55.0	49.6	45.3	41.9	37.9	34.4	32.3	30.3	28.8	27.8	27.8	28.4	30.8	35.4	38.9	44.6	58.0	47.4	73.5	27.8
Avg	68.9	72.5	75.2	77.5	79.1	77.8	72.8	66.9	60.1	54.1	47.7	42.5	39.8	38.5	36.5	37.9	37.9	39.6	42.3	45.9	51.3	55.2	58.9	64.7	56.0	81.9	32.8
Max	93.9	93.7	94.4	97.8	97.0	97.6	98.8	93.2	95.5	92.7	88.9	84.5	74.2	82.6	86.4	89.5	91.1	92.2	91.8	91.9	92.6	93.1	90.6	93.0	81.4	98.8	59.1
Min	40.2	47.5	51.8	54.0	56.4	57.4	52.7	44.3	37.5	31.8	23.4	22.1	20.5	21.5	18.4	17.6	17.1	17.1	18.8	22.6	27.1	30.8	32.7	34.6	35.9	57.4	17.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	Ca	Ca	Ca	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	Co	Co	Co	Co	Co	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
May 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
April 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	25.81	25.80	25.79	25.79	25.77	25.77	25.77	25.77	25.77	25.76	25.75	25.73	25.71	25.70	25.69	25.68	25.69	25.70	25.71	25.72	25.74	25.75	25.75	25.76	25.75	25.81	25.68
2	25.76	25.76	25.75	25.75	25.75	25.76	25.77	25.77	25.77	25.78	25.78	25.77	25.77	25.77	25.77	25.77	25.79	25.82	25.84	25.88	25.90	25.91	25.93	25.94	25.80	25.94	25.75
3	25.95	25.95	25.95	25.97	25.98	25.99	26.00	26.01	26.01	26.00	26.00	25.98	25.96	25.94	25.92	25.91	25.90	25.89	25.90	25.90	25.90	25.90	25.90	25.91	25.95	26.01	25.89
4	25.90	25.90	25.89	25.88	25.88	25.87	25.86	25.86	25.84	25.82	25.79	25.78	25.77	25.77	25.76	25.77	25.81	25.81	25.82	25.83	25.85	25.86	25.86	25.87	25.84	25.90	25.76
5	25.88	25.88	25.88	25.88	25.89	25.89	25.90	25.91	25.92	25.93	25.93	25.91	25.91	25.92	25.91	25.91	25.91	25.92	25.92	25.93	25.94	25.94	25.93	25.93	25.91	25.94	25.88
6	25.93	25.92	25.92	25.92	25.91	25.92	25.93	25.93	25.94	25.94	25.94	25.95	25.97	25.97	25.99	26.00	26.02	26.03	26.06	26.09	26.12	26.13	26.14	26.15	25.99	26.15	25.91
7	26.16	26.16	26.16	26.16	26.17	26.17	26.18	26.19	26.19	26.20	26.19	26.18	26.18	26.18	26.18	26.17	26.16	26.16	26.16	26.16	26.17	26.18	26.17	26.17	26.17	26.20	26.16
8	26.17	26.16	26.15	26.15	26.15	26.15	26.14	26.14	26.12	26.10	26.08	26.05	26.02	26.01	25.99	25.98	25.96	25.95	25.94	25.94	25.95	25.94	25.93	25.93	26.05	26.17	25.93
9	25.92	25.91	25.89	25.88	25.88	25.87	25.88	25.89	25.90	25.91	25.93	25.93	25.94	25.93	25.93	25.93	25.94	25.96	25.97	25.97	25.99	26.01	26.01	26.02	25.93	26.02	25.87
10	26.02	26.03	26.03	26.03	26.04	26.04	26.05	26.05	26.03	26.02	26.01	26.00	25.99	Ca	Ca	Ca	25.97	25.98	25.99	26.00	26.01	26.02	26.02	26.01	26.02	26.05	25.97
11	26.01	25.99	25.98	25.97	25.95	25.94	25.94	25.95	25.93	25.91	25.90	25.87	25.84	25.82	25.80	25.78	25.77	25.79	25.80	25.82	25.84	25.84	25.85	25.86	25.88	26.01	25.77
12	25.86	25.86	25.85	25.86	25.86	25.87	25.88	25.88	25.88	25.87	25.86	25.86	25.89	25.90	25.91	25.94	25.97	26.00	26.03	26.05	26.07	26.09	26.10	26.13	25.94	26.13	25.85
13	26.14	26.15	26.15	26.17	26.18	26.20	26.22	26.24	26.25	26.26	26.26	26.25	26.24	26.23	26.23	26.22	26.22	26.22	26.23	26.24	26.26	26.27	26.28	26.28	26.22	26.28	26.14
14	26.28	26.28	26.27	26.27	26.26	26.25	26.25	26.25	26.23	26.19	26.16	26.13	26.09	26.05	26.03	26.00	25.98	25.96	25.95	25.95	25.95	25.95	25.94	25.92	26.11	26.28	25.92
15	25.89	25.87	25.85	25.85	25.83	25.81	25.80	25.79	25.79	25.79	25.80	25.80	25.81	25.81	25.81	25.81	25.84	25.85	25.88	25.90	25.92	25.93	25.93	25.95	25.85	25.95	25.79
16	25.96	25.96	25.96	25.95	25.96	25.96	25.96	25.97	25.97	25.97	25.96	25.96	25.95	25.95	25.95	25.95	25.95	25.96	25.97	25.97	25.97	25.97	25.96	25.96	25.96	25.97	25.95
17	25.96	25.95	25.95	25.94	25.93	25.93	25.92	25.91	25.89	25.87	25.84	25.82	25.80	25.80	25.80	25.77	25.75	25.74	25.74	25.74	25.73	25.72	25.72	25.73	25.83	25.96	25.72
18	25.76	25.77	25.76	25.76	25.76	25.77	25.77	25.78	25.78	25.80	25.82	25.85	25.84	25.84	Co	Co	Co	Co	Co	25.94	25.96	25.97	25.98	25.99	25.84	25.99	25.76
19	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	25.98	25.96	25.95	25.92	25.90	25.88	25.86	25.83	25.82	25.81	25.81	25.81	25.82	25.84	25.87	25.93	25.92	26.00	25.81
20	26.01	26.04	26.04	26.06	26.08	26.09	26.13	26.14	26.15	26.15	26.16	26.16	26.15	26.14	26.14	26.13	26.14	26.15	26.16	26.17	26.18	26.19	26.20	26.21	26.13	26.21	26.01
21	26.22	26.23	26.23	26.24	26.23	26.22	26.22	26.20	26.18	26.15	26.12	26.08	26.03	25.99	25.95	25.92	25.90	25.89	25.87	25.87	25.87	25.85	25.85	25.84	26.05	26.24	25.84
22	25.84	25.82	25.80	25.78	25.76	25.74	25.72	25.70	25.67	25.63	25.62	25.61	25.60	25.62	25.64	25.65	25.64	25.63	25.64	25.65	25.67	25.69	25.73	25.74	25.69	25.84	25.60
23	25.76	25.77	25.77	25.77	25.78	25.79	25.81	25.83	25.82	25.80	25.80	25.79	25.78	25.78	25.78	25.78	25.82	25.84	25.85	25.85	25.86	25.87	25.87	25.87	25.81	25.87	25.76
24	25.87	25.87	25.86	25.85	25.84	25.83	25.83	25.82	25.81	25.80	25.81	25.80	25.80	25.80	25.82	25.80	25.81	25.82	25.83	25.85	25.86	25.86	25.85	25.85	25.83	25.87	25.80
25	25.85	25.84	25.83	25.83	25.83	25.82	25.81	25.81	25.79	25.77	25.75	25.72	25.69	25.67	25.65	25.65	25.64	25.65	25.66	25.66	25.66	25.65	25.64	25.62	25.73	25.85	25.62
26	25.61	25.60	25.58	25.60	25.60	25.61	25.62	25.62	25.62	25.61	25.61	25.62	25.61	25.61	25.61	25.61	25.64	25.65	25.66	25.68	25.69	25.71	25.72	25.72	25.63	25.72	25.58
27	25.73	25.72	25.72	25.73	25.73	25.74	25.74	25.75	25.73	25.72	25.72	25.72	25.71	25.70	25.68	25.69	25.72	25.77	25.80	25.83	25.85	25.87	25.88	25.89	25.76	25.89	25.68
28	25.89	25.91	25.92	25.94	25.96	25.98	26.01	26.03	26.05	26.07	26.08	26.09	26.10	26.11	26.12	26.14	26.18	26.21	26.24	26.26	26.30	26.32	26.34	26.36	26.11	26.36	25.89
29	26.38	26.40	26.41	26.43	26.45	26.47	26.48	26.50	26.50	26.49	26.49	26.48	26.47	26.46	26.45	26.45	26.44	26.44	26.43	26.44	26.44	26.45	26.47	26.48	26.45	26.50	26.38
30	26.50	26.50	26.50	26.51	26.52	26.52	26.52	26.52	26.51	26.48	26.51	26.44	26.41	26.39	26.36	26.33	26.31	26.29	26.28	26.27	26.28	26.29	26.29	26.29	26.41	26.52	26.27
Avg	25.97	25.97	25.96	25.96	25.96	25.97	25.97	25.97	25.97	25.96	25.95	25.94	25.93	25.92	25.92	25.91	25.92	25.93	25.94	25.95	25.96	25.97	25.97	25.98	25.95	26.05	25.86
Max	26.50	26.50	26.50	26.51	26.52	26.52	26.52	26.52	26.51	26.49	26.51	26.48	26.47	26.46	26.45	26.45	26.44	26.44	26.43	26.44	26.44	26.45	26.47	26.48	26.45	26.52	26.38
Min	25.61	25.60	25.58	25.60	25.60	25.61	25.62	25.62	25.62	25.61	25.61	25.61	25.60	25.61	25.61	25.61	25.64	25.63	25.64	25.65	25.66	25.65	25.64	25.62	25.63	25.72	25.58

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
May 2014

Day	<< Hour >> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.29	26.29	26.28	26.28	26.28	26.29	26.28	26.28	26.26	26.24	26.21	26.18	26.15	26.12	26.10	26.08	26.07	26.05	26.04	26.03	26.04	26.05	26.04	26.04	26.17	26.29	26.03
2	26.04	26.03	26.03	26.03	26.03	26.03	26.03	26.02	26.01	26.00	25.98	25.96	25.95	25.93	25.91	25.89	25.89	25.88	25.87	25.87	25.88	25.88	25.87	25.86	25.95	26.04	25.86
3	25.85	25.85	25.85	25.85	25.86	25.85	25.85	25.84	25.83	25.82	25.80	25.79	25.77	25.76	25.75	25.72	25.71	25.73	25.75	25.77	25.80	25.81	25.81	25.81	25.80	25.86	25.71
4	25.81	25.79	25.77	25.77	25.78	25.79	25.81	25.82	25.82	25.81	25.82	25.82	25.82	25.81	25.79	25.78	25.78	25.79	25.80	25.82	25.84	25.85	25.85	25.85	25.81	25.85	25.77
5	25.86	25.88	25.88	25.88	25.88	25.88	25.88	25.88	25.87	25.86	25.85	25.84	25.81	25.80	25.80	25.81	25.82	25.82	25.83	25.85	25.86	25.87	25.87	25.87	25.85	25.88	25.80
6	25.87	25.87	25.87	25.87	25.87	25.87	25.87	25.86	25.85	25.83	25.82	25.81	25.79	25.78	25.78	25.77	25.78	25.82	25.83	25.87	25.91	25.92	25.93	25.94	25.85	25.94	25.77
7	25.94	25.93	25.93	25.93	25.93	25.93	25.92	25.93	25.93	25.92	25.91	25.91	25.89	25.87	25.85	25.84	25.85	25.85	25.85	25.87	25.88	25.90	25.90	25.91	25.90	25.94	25.84
8	25.92	25.91	25.92	25.92	25.92	25.93	25.93	25.93	25.91	25.90	25.88	25.85	25.83	25.81	25.78	25.75	25.75	25.74	25.74	25.73	25.74	25.74	25.73	25.72	25.83	25.93	25.72
9	25.71	25.71	25.70	25.70	25.70	25.70	25.71	25.72	25.73	25.73	25.74	25.75	25.74	25.74	25.74	25.75	25.77	25.79	25.81	25.84	25.85	25.87	25.87	25.87	25.76	25.87	25.70
10	25.87	25.87	25.87	25.87	25.87	25.88	25.88	25.88	25.87	25.87	25.87	25.86	25.87	25.88	25.89	25.90	25.94	25.96	25.97	26.00	26.03	26.05	26.06	26.07	25.92	26.07	25.86
11	26.08	26.08	26.09	26.11	26.13	26.14	26.15	26.16	26.17	26.18	26.18	26.19	26.19	26.20	26.21	26.21	26.23	26.24	26.25	26.27	26.30	26.32	26.32	26.32	26.20	26.32	26.08
12	26.33	26.34	26.35	26.35	26.36	26.39	26.40	26.41	26.39	26.38	26.37	26.35	26.34	26.34	26.33	26.32	26.31	26.31	26.32	26.32	26.33	26.35	26.38	26.38	26.35	26.41	26.31
13	26.39	26.40	26.40	26.41	26.41	26.42	26.44	26.43	26.42	26.40	26.38	26.37	26.35	26.33	26.32	26.30	26.30	26.29	26.30	26.30	26.31	26.32	26.34	26.35	26.36	26.44	26.29
14	26.35	26.36	26.37	26.37	26.36	26.38	26.38	26.37	26.35	26.34	26.32	26.30	26.28	26.26	26.24	26.22	26.21	26.20	26.19	26.19	26.20	26.21	26.21	26.21	26.29	26.38	26.19
15	26.22	26.22	26.22	26.22	26.21	26.22	26.22	26.21	26.20	26.18	26.16	26.13	26.10	26.07	26.05	26.03	26.03	26.03	26.02	26.02	26.04	26.05	26.06	26.09	26.12	26.22	26.02
16	26.11	26.12	26.12	26.13	26.12	26.13	26.13	26.12	26.11	26.09	26.06	26.03	26.01	26.00	25.98	25.97	25.96	25.95	25.96	25.97	25.98	25.99	26.00	26.00	26.04	26.13	25.95
17	25.99	25.99	25.98	25.98	25.98	25.98	25.97	25.97	25.96	25.94	25.92	25.89	25.86	25.83	25.81	25.79	25.78	25.78	25.80	25.80	25.80	25.82	25.83	25.83	25.89	25.99	25.78
18	25.83	25.82	25.81	25.81	25.80	25.80	25.79	25.76	25.79	25.79	25.78	25.78	25.76	25.74	25.73	25.72	25.72	25.73	25.74	25.77	25.79	25.81	25.82	25.83	25.78	25.83	25.72
19	25.83	25.84	25.85	25.85	25.86	25.87	25.88	25.89	25.89	25.89	25.89	25.89	25.89	25.89	25.88	25.88	25.89	25.90	25.90	25.92	25.95	25.97	25.98	25.99	25.89	25.99	25.83
20	26.00	26.00	26.01	26.02	26.02	26.04	26.05	26.04	26.04	26.02	26.01	25.99	25.98	25.97	25.96	25.95	25.95	25.95	25.95	25.95	25.97	25.99	26.00	26.01	25.99	26.05	25.95
21	26.02	26.03	26.03	26.04	26.06	26.07	26.07	26.06	26.05	26.04	26.02	26.00	25.99	25.97	25.96	25.95	25.95	25.95	25.95	25.96	25.98	26.01	26.03	26.05	26.01	26.07	25.95
22	26.06	26.06	26.07	26.08	26.10	26.11	26.11	26.11	26.10	26.09	26.08	26.06	26.04	26.02	26.01	25.99	25.99	25.99	25.99	26.00	26.02	26.04	26.05	26.07	26.05	26.11	25.99
23	26.07	26.08	26.08	26.09	26.09	26.10	26.09	26.08	26.06	26.04	26.01	25.98	25.95	25.93	25.91	25.89	25.88	25.87	25.86	25.87	25.90	25.93	25.95	25.97	25.99	26.10	25.86
24	25.98	25.99	25.99	26.00	26.01	26.02	26.03	26.03	26.03	26.03	26.02	26.01	26.01	25.99	25.98	25.97	25.97	25.97	25.98	25.99	26.01	26.02	26.04	26.04	26.00	26.04	25.97
25	26.05	26.06	26.07	26.07	26.07	26.09	26.09	26.07	26.06	26.05	26.03	26.00	25.98	25.95	25.93	25.90	25.90	25.89	25.89	25.90	25.91	25.92	25.94	25.94	25.99	26.09	25.89
26	25.95	25.95	25.96	25.96	25.97	25.99	26.00	26.02	26.01	26.00	25.98	25.97	25.95	25.94	25.92	25.91	25.93	25.95	25.99	26.02	26.04	26.06	26.07	26.08	25.98	26.08	25.91
27	26.08	26.09	26.09	26.10	26.10	26.11	26.11	26.10	26.08	26.06	26.03	26.01	25.98	25.96	25.94	25.91	25.90	25.90	25.91	25.94	25.94	25.95	25.93	25.91	26.01	26.11	25.90
28	25.89	25.88	25.88	25.88	25.90	25.91	25.92	25.92	25.91	25.90	25.89	25.87	25.85	25.82	25.80	Au	Au	25.81	25.84	25.88	25.92	25.97	26.01	26.04	25.89	26.04	25.80
29	26.06	26.08	26.08	26.08	26.10	26.11	26.12	26.12	26.11	26.10	26.09	26.09	26.09	26.08	26.08	26.07	26.07	26.07	26.07	26.08	26.08	26.10	26.12	26.13	26.09	26.13	26.06
30	26.13	26.14	26.15	26.16	26.16	26.16	26.16	26.16	26.14	26.11	26.08	26.06	26.04	26.01	25.99	25.97	25.96	25.95	25.93	25.94	25.95	25.97	25.96	25.98	26.05	26.16	25.93
31	25.96	25.95	25.94	25.96	25.97	25.97	25.95	25.94	25.94	25.93	25.91	25.89	25.89	25.89	25.89	25.89	25.90	25.93	25.94	25.95	25.96	25.96	25.98	25.99	25.94	25.99	25.89
Avg	26.02	26.02	26.02	26.02	26.03	26.04	26.04	26.04	26.03	26.02	26.00	25.99	25.97	25.96	25.95	25.94	25.94	25.94	25.94	25.96	25.97	25.99	26.00	26.00	25.99	26.08	25.91
Max	26.39	26.40	26.40	26.41	26.41	26.42	26.44	26.43	26.42	26.40	26.38	26.37	26.35	26.34	26.33	26.32	26.31	26.31	26.32	26.32	26.33	26.35	26.38	26.38	26.36	26.44	26.31
Min	25.71	25.71	25.70	25.70	25.70	25.70	25.71	25.72	25.73	25.73	25.74	25.75	25.74	25.74	25.73	25.72	25.71	25.73	25.74	25.73	25.74	25.74	25.73	25.72	25.76	25.83	25.70

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
June 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	25.99	25.99	26.00	26.00	26.00	26.01	26.01	26.02	26.02	26.02	26.01	25.99	25.99	25.98	25.97	25.99	25.99	25.99	25.98	25.99	26.00	26.01	26.02	26.03	26.00	26.03	25.97
2	26.03	26.03	26.03	26.03	26.03	26.04	26.04	26.03	26.01	25.99	25.97	25.95	25.92	25.90	25.89	25.87	25.86	25.85	25.84	25.85	25.86	25.87	25.87	25.87	25.94	26.04	25.84
3	25.86	25.85	25.84	25.84	25.84	25.85	25.85	25.86	25.86	25.86	25.86	25.86	25.85	25.84	25.84	25.85	25.88	25.90	25.89	25.89	25.90	25.92	25.95	25.97	25.87	25.97	25.84
4	25.97	25.97	25.97	25.98	25.98	26.00	26.00	26.01	26.01	26.00	25.99	25.98	25.97	25.96	25.94	25.93	25.93	25.93	25.92	25.92	25.93	25.94	25.95	25.95	25.96	26.01	25.92
5	25.95	25.95	25.96	25.96	25.96	25.97	25.98	25.97	25.95	25.94	25.92	25.91	25.91	25.92	25.92	25.91	25.92	25.92	25.92	25.94	25.95	25.98	25.99	26.01	25.95	26.01	25.91
6	26.02	26.03	26.04	26.04	26.05	26.06	26.07	26.06	26.06	26.04	26.03	26.02	26.02	26.01	26.00	25.98	25.99	25.99	25.99	25.99	26.01	26.03	26.04	26.05	26.03	26.07	25.98
7	26.05	26.06	26.07	26.07	26.08	26.09	26.09	26.09	26.08	26.07	26.05	26.03	26.02	26.02	26.01	26.01	26.01	26.01	26.02	26.02	26.03	26.05	26.05	26.06	26.05	26.09	26.01
8	26.06	26.06	26.07	26.08	26.09	26.10	26.11	26.11	26.11	26.10	26.09	26.08	26.07	26.06	26.05	26.04	26.02	26.01	26.01	26.00	26.00	26.01	26.02	26.02	26.06	26.11	26.00
9	26.01	26.00	26.00	25.99	25.99	25.99	25.98	25.97	25.95	25.92	25.90	25.90	25.90	25.88	25.88	25.87	25.87	25.88	25.88	25.89	25.89	25.90	25.91	25.92	25.93	26.01	25.87
10	25.92	25.93	25.93	25.94	25.95	25.95	25.94	25.93	25.91	25.89	25.87	25.86	25.84	25.83	25.83	25.83	25.84	25.85	25.86	25.87	25.89	25.94	25.96	25.98	25.90	25.98	25.83
11	25.98	25.99	25.99	26.00	26.00	26.02	26.03	26.03	26.03	26.02	26.02	26.01	26.00	26.00	25.99	25.97	25.97	25.97	25.96	25.97	25.98	26.01	26.02	26.02	26.00	26.03	25.96
12	26.01	26.00	25.99	25.98	25.98	25.98	25.96	25.95	25.93	25.90	25.87	25.83	25.79	25.75	25.73	25.70	25.70	25.69	25.67	25.69	25.70	25.73	25.72	25.74	25.83	26.01	25.67
13	25.76	25.77	25.77	25.76	25.76	25.76	25.77	25.78	25.77	25.80	25.81	25.82	25.81	25.81	25.80	25.80	25.81	25.82	25.83	25.84	25.88	25.90	25.90	25.90	25.81	25.90	25.76
14	25.90	25.91	25.91	25.91	25.91	25.91	25.91	25.90	25.90	25.90	25.90	25.89	25.89	25.88	25.88	25.89	25.90	25.90	25.91	25.92	25.93	25.94	25.94	25.93	25.91	25.94	25.88
15	25.92	25.91	25.90	25.89	25.88	25.88	25.88	25.87	25.86	25.84	25.82	25.80	25.77	25.75	25.74	25.72	25.72	25.72	25.71	25.74	25.76	25.77	25.77	25.76	25.81	25.92	25.71
16	25.75	25.75	25.75	25.76	25.75	25.76	25.75	25.74	25.73	25.72	25.71	25.72	25.74	25.75	25.74	25.73	25.72	25.72	25.74	25.75	25.77	25.78	25.78	25.77	25.75	25.78	25.71
17	25.77	25.78	25.79	25.80	25.81	25.82	25.83	25.84	25.86	25.87	25.87	25.88	25.88	25.89	25.88	25.89	25.90	25.90	25.91	25.93	25.95	25.95	25.95	25.95	25.87	25.95	25.77
18	25.96	25.96	25.96	25.95	25.94	25.93	25.94	25.94	25.95	25.93	25.90	25.89	25.88	25.88	25.91	25.92	25.94	25.95	25.96	25.96	25.96	25.96	25.96	25.95	25.94	25.96	25.88
19	25.95	25.94	25.94	25.94	25.95	25.96	25.97	25.97	25.96	25.96	25.96	25.96	25.96	25.96	25.95	25.95	25.95	25.94	25.94	25.95	25.96	25.98	25.99	26.00	25.96	26.00	25.94
20	26.00	26.01	26.01	26.01	26.02	26.03	26.03	26.02	26.01	25.99	25.99	25.97	25.97	25.94	25.91	25.89	25.87	25.88	25.90	25.92	25.94	25.96	25.97	25.97	25.97	26.03	25.87
21	25.99	26.00	26.01	26.02	26.02	26.04	26.04	26.04	26.03	26.02	26.00	25.99	25.97	25.96	25.95	25.94	25.94	25.94	25.94	25.95	25.96	25.98	26.00	26.01	25.99	26.04	25.94
22	26.01	26.02	26.02	26.03	26.04	26.05	26.05	26.05	26.04	26.04	26.03	26.02	26.00	26.00	26.01	26.03	26.04	26.07	26.09	26.08	26.08	26.09	26.10	26.10	26.05	26.10	26.00
23	26.11	26.11	26.11	26.12	26.12	26.12	26.13	26.13	26.12	26.10	26.09	26.07	26.05	26.04	26.02	26.00	26.01	26.01	26.01	26.02	26.04	26.06	26.05	26.05	26.07	26.13	26.00
24	26.05	26.05	26.05	26.05	26.05	26.05	26.05	26.04	26.03	26.01	25.99	25.97	25.96	25.94	25.93	25.92	25.92	25.92	25.91	25.93	25.96	25.98	25.99	25.99	25.99	26.05	25.91
25	26.00	26.00	25.99	25.99	26.00	26.01	26.01	26.01	26.00	25.98	25.96	25.94	25.93	25.91	25.89	25.87	25.86	25.85	25.87	25.87	25.87	25.89	25.88	25.87	25.94	26.01	25.85
26	25.86	25.84	25.84	25.83	25.82	25.82	25.81	25.80	25.80	25.79	25.78	25.77	25.76	25.74	25.73	25.74	25.77	25.78	25.80	25.80	25.81	25.82	25.82	25.82	25.80	25.86	25.73
27	25.82	25.81	25.82	25.82	25.82	25.82	25.83	25.82	25.82	25.82	25.80	25.80	25.78	25.78	25.78	25.80	25.83	25.85	25.85	25.85	25.85	25.86	25.85	25.85	25.82	25.86	25.78
28	25.86	25.85	25.85	25.85	25.86	25.87	25.88	25.89	25.90	25.89	25.89	25.90	25.91	25.92	25.91	25.92	25.92	25.93	25.94	25.95	25.96	25.97	25.97	25.97	25.91	25.97	25.85
29	25.98	25.98	25.98	25.98	25.98	25.99	25.99	25.99	26.00	25.99	25.99	25.99	25.98	25.98	25.98	25.98	25.99	26.02	26.02	26.05	26.07	26.09	26.10	26.11	26.01	26.11	25.98
30	26.11	26.11	26.12	26.13	26.14	26.15	26.16	26.16	26.16	26.16	26.16	26.16	26.16	26.15	26.14	26.14	26.14	26.14	26.14	26.14	26.15	26.16	26.18	26.19	26.15	26.19	26.11
Avg	25.95	25.96	25.96	25.96	25.96	25.97	25.97	25.97	25.96	25.95	25.94	25.93	25.92	25.91	25.91	25.90	25.91	25.91	25.91	25.92	25.93	25.95	25.96	25.96	25.94	26.01	25.88
Max	26.11	26.11	26.12	26.13	26.14	26.15	26.16	26.16	26.16	26.16	26.16	26.16	26.16	26.15	26.14	26.14	26.14	26.14	26.14	26.14	26.15	26.16	26.18	26.19	26.15	26.19	26.11
Min	25.75	25.75	25.75	25.76	25.75	25.76	25.75	25.74	25.73	25.72	25.71	25.72	25.74	25.74	25.73	25.70	25.70	25.69	25.67	25.69	25.70	25.73	25.72	25.74	25.75	25.78	25.67

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
April 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
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Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
May 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
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22											Ca	Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
June 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.010	0.030	0.030	0.000	0.000	0.030	0.000	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.160	0.060
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010	0.010
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.060	0.030
17	0.030	0.060	0.010	0.000	0.040	0.030	0.040	0.080	0.090	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.090
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.030	0.050	0.040	0.020	0.020	0.010	0.020	0.010	0.010	0.230	0.050
19	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.020
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.190	0.000	0.210	0.190
25	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
26	0.000	0.000	0.050	0.070	0.010	0.090	0.040	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.000	0.050	0.000	0.000	0.000	0.000	0.010	0.000	0.420	0.090
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.020	0.010
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.050	0.090	0.090	0.100	0.050	0.120	0.110	0.080	0.130	0.100	0.000	0.010	0.020	0.020	0.050	0.070	0.050	0.090	0.020	0.030	0.020	0.030	0.210	0.040	1.580	0.000
Max	0.030	0.060	0.050	0.070	0.040	0.090	0.040	0.080	0.090	0.060	0.000	0.010	0.010	0.020	0.030	0.030	0.050	0.050	0.020	0.020	0.010	0.020	0.190	0.030	0.420	0.190

APPENDIX B: PERFORMANCE AUDIT REPORTS SECOND QUARTER 2014

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): PM2.5 PM10		Sampler Serial Number: 1036	
Sampler Site Designation: MLR Reporting			
Auditor: Don Milmine		Site Operator: Chris Whitmore	
Barometric Pressure Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Vaisala	Model: (50-1100) PTB330	Serial Number: D4310002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	653	654.2	1.2
Thermocouple Temperature Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	22.0	21.9	+0.1
Filter thermocouple	23.3	23.2	+0.1
Flow Rate Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.67	16.95	-1.7
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.95	16.67	1.7
Leak Check			
Vacuum Readings (cm H_2O)	Start 095	End 094	Pass / Fail?

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): $PM_{2.5}$ PM_{10}		Sampler Serial Number: 1548	
Sampler Site Designation: MLR Reporting			
Auditor: Don Milmine		Site Operator: Chris Whitten	
Barometric Pressure Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Vaisala	Model: PTB330 (50-1100)	Serial Number: D4310002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	653.3	654.2	-0.9
Thermocouple Temperature Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient thermocouple	21.9	21.7	0.2
Filter thermocouple	23.5	24.0	-0.5
Flow Rate Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.93	-1.4
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.93	16.67	1.6
Leak Check			
Vacuum Readings (cm H_2O)	Start 099	End 098	Pass / Fail?

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): $PM_{2.5}$ PM_{10}		Sampler Serial Number: 1549	
Sampler Site Designation: MLR Duplicate (colocated)			
Auditor: Don Milmine		Site Operator: Chris Whitten	
Barometric Pressure Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Vaisala	Model: PTB 330 (50-1100)	Serial Number: D4310002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	653.7	654.2	
Thermocouple Temperature Sensor Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	21.6	20.9	
Filter thermocouple	23.7	23.7	0.0
Flow Rate Audit			
Date: May 28, 2014		Date standard last verified: 3/19/14	
Audit Standard Mfr.: BGI	Model: Delta Cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.63	0.4
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.63	16.67	-0.2
Leak Check			
Vacuum Readings (cm H_2O)	Start 098	End 097	Pass / Fail?

RELATIVE HUMIDITY PERFORMANCE AUDIT

Location MLR Met Stn Date 5/28/14

Performed By Don Milmine System Down Time: Off_____ On_____ N/A X

A. Site Sensor Information		
Manufacturer	Model	Serial No.

B. Collocated Tests						
Time (MST)	Audit Sensor				Site Sensor RH	Error %RH
	Dry Bub Temperature	Wet Bulb Temperature	Barometric Pressure	Calculated RH		
1035	63	53	645.7	54.4	56.4	2.0
1043	64	53	645.7	50.7	55.5	4.8
1050	64	53	645.7	50.7	56.3	5.6
Error Limit: +/- 7% RH						

C. Audit Sensor Description			
Manufacturer	Taylor Hygrometer	Model	Part# 5P-377/Tool# T66978
Serial No.	none	Certification Date	Primary Standard
Certified Against			

D. Signature
Site Operator : Steven R Fuller
Auditor : Don V. Milmine

WIND SPEED PERFORMANCE AUDIT

Location MLR Met stn Date 5/28/2014

Performed By Don Milmine System Down Time: Off 1045 On 1333

A. Site Sensor Information		
Manufacturer Climatronics	Model 102083	Serial No. P1336C

B. Indicated Wind Speed Prior to Lowering Tower	
Estimated (m/s) 5-10	DAS Reading (m/s) 6.3

C. Synchronous Motor Tests			
Motor RPM	Known Wind Speed m/s	Indicated Wind Speed	Error
0	0.22	0.22	0.00
300	6.66	6.66	0.00
600	13.09	13.09	0.00
950	20.47	20.48	0.01

D. Torque Check				
Type (circle)	(Disk)	Watch	Measured 0.19-cm	< 0.35 g-cm OR 0.005 oz.-in?

E. Audit Equipment Description	
300 RPM Motor	Torque Disk RM Young Cat. No. 18310
600 RPM Motor	Torque Watch
Other RM Young model 18811 anemometer drive device S/N CA02929	

F. Signature
Site Operator : Steven R Hale
Auditor : Don V. Milmine

SOLAR RADIATION PERFORMANCE AUDIT

Location MLR met stn Date 5/28/14

Performed By Don Milmine System Down Time: Off NA On NA

A. Site Sensor Information		
Manufacturer	Model	Serial No.

B. Collocated Tests				
Time (MST)	Audit Sensor (w/m^2)	Site Sensor (w/m^2)	Error (w/m^2)	Error (percent)
1053	915	888	27	3.0
	~~228~~	~~246~~	~~-2~~	
1207	916	943	-27	-2.9
1310	915	881	34	3.8
Error Limit: +/- 5%				

C. Audit Sensor Description	
Manufacturer Licor	Model LI 200S
Serial No. PY61543	Certification Date
Datalogger (note whether site or external)	

D. Signature
Site Operator : [signature]
Auditor : Don V. Milmine

WIND DIRECTION PERFORMANCE AUDIT

Location MLR Met Date 5/28/2014

Performed By Don Milmine System Down Time: Off 1045 On 1333

A. Site Sensor Information		
Manufacturer Climatronics	Model 102083	Serial No. P1336C

B. Indicated Wind Direction Prior to Lowering Tower			
Estimated (deg.) 280		DAS Reading (deg.) 278	
C. Orientation of Sensor Crossarm (In Raised Position on Tower) (+/- 2 deg.)			
Orientation Method (circle)	(Transit-Sunshot)	Transit-Magnetic	GPS
Target (circle) (90/270) 0/180	As-Found 92.6 WCa		Error (deg.)
D. Indicated Wind Direction Aligned With Crossarm (Prior to Linearity Checks) (+/- 2 deg.)			
Target 91.4	DAS As-Found 92.6		Error (deg.) 1.2

E. Linearity Checks (+/- 3 deg.)

Clockwise			Counterclockwise		
Direction	DAS	Error	Direction	DAS	Error
0/360	1.4	1.4	0/360	1.5	1.5
30	32.4	2.4	30	32.4	2.4
60	62.7	2.7	60	62.7	2.7
90	92.6	2.6	90	92.5	2.5
120	121.8	1.8	120	121.7	1.7
150	151.6	1.6	150	151.4	1.4
180	181.3	1.3	180	181.2	1.2
210	211.1	1.1	210	211.2	1.2
240	241.4	1.4	240	241.1	1.1
270	271.1	1.1	270	270.9	0.9
300	301.4	1.4	300	301.1	1.1
330	330.0	0.0	330	330.9	0.9
0/360	1.5	1.5	0/360	1.5	1.5

F. Torque Check			
Type (circle) (Disk) Watch	Measured 0.7 gcm	<7.45 g-cm OR 0.10 oz.-in?	

G. Indicated Wind Direction Aligned With Crossarm (After Re-installation) (+/- 2 deg.)		
Target (circle) 1.2	DAS As-Left 1.4	Error (deg.) 0.2

H. Audit Equipment Description	
(Transit)	(Torque Disk) / Watch
GPS Unit	(Linearity Wheel)
Site Lat. / Long. 113° 13' / 46° 41'	Current Mag. Declination

I. Signature

Site Operator: Steven R Heck Auditor: Don V. Milmine

PRECIPITATION PERFORMANCE AUDIT

Location MLR Date 5/28/2014

Performed By Don Milmine System Down Time: Off 1620 On 1640

A. Site Sensor Information		
Manufacturer	**Model**	**Serial No.**
Met One	375	R12869
Gauge Diameter (inches)	**Precipitation per Tip** (Circle one below)	
	0.01 inches 0.25 mm	Other

B. Water Volume per Tip		
Precipitation per Tip	**Gauge Diameter (inches)**	
	6	**8**
0.01 inches	4.63 ml/tip	8.24 ml/tip
0.25 mm	4.56 ml/tip	8.11 ml/tip

C. Expected Number of Tips for Test Volume		
Cylinder or Buret Volume (ml)	**ml/tip (from Part B)**	**Expected No. of Tips**
250	8.24	30

A. Volumetric Tests				
Time (MST)	**Expected Tips**	**Actual Sensor Tips**	**Error (Tips)**	**Error (percent)**
	30	30	0.0	0.0
Error Limit: +/- 10%				

B. Audit Cylinder or Buret Description	
Manufacturer Fisher Scientific	Model
Volume 250 ml	Type

D. Signature
Site Operator : [signature]
Auditor : Don K. Milmine

TEMPERATURE / DELTA TEMPERATURE PERFORMANCE AUDIT

Location MLR met stn Date 5/28/2014

Performed By Don Milmine System Down Time: Off 1045 On 1333

A. Site Sensor Information			
Manufacturer	Climatronics	Model	100093
Serial No. (Upper)	N1893C	Serial No. (Lower)	N1889C

B. Indicated Temperatures Prior to Removing Sensors for Tests	
Upper (deg. C)	Lower (deg. C)

C. Tests (read responses to 0.01 deg. C)					
Known (deg. C)	Upper (DAS)	Lower (DAS)	Error Upper - Known	Error Lower - Known	Delta T (Upper – Lower)
37.11	37.30	37.31	0.19	0.20	-0.01
16.49	16.45	16.46	-0.04	-0.03	-0.01
0.00	0.17	0.19	0.17	0.19	-0.02
Limits: +/- 0.5 deg. C for individual temperatures, 0.10 deg. C for Delta T					

D. Audit Temperature Standard Description			
Manufacturer	Control Company	Model	Cat. # 4000
Serial No.	140251289	Certification Date	4/10/14
Other			

E. Signature
Site Operator : Steven A. Fuch
Auditor : Don V. Milmine

DESCRIPTION OF SO_2 ANALYZER AUDIT PROCEDURE

A performance audit of the Thermo Environmental Instruments SO_2 analyzer operated by Bison Engineering, Inc., Helena, for Montana Limestone Resources at their Drummond PSD monitoring station, was conducted on May 28, 2014. Audit results are presented by comparing known SO_2 concentrations (x) delivered by the audit device with concentrations (y) reported by the analyzer. Sulfur dioxide concentrations were generated by a Thermo Environmental Instruments Model 146 span gas calibrator (S/N 146t-43359-269) and a Thermo Environmental Instruments Model 111 zero air supply. The sulfur dioxide standard used for the audit was certified gas cylinder #FF19675. It has an SO_2 concentration of 4.028 ppm in nitrogen. The certification was performed by Airgas on February 19, 2013, and will expire on February 19, 2017. The analysis is traceable to NIST by comparison through GMIS cylinder CC280989 that has an SO_2 concentration of 4.877 and a certification expiration date of September 14, 2014. The analysis conforms to EPA Protocol Section No. 2.2, Procedure G-1. The cylinder is required to meet the quality assurance requirements of 40 CFR Part 58 Appendix A (October 2006).

The audit results for the Drummond Station are presented on page B-5. The table shows the percent differences between x and y for each concentration, the slope, intercept, and percent differences at full scale, and a summary of audit results. EPA's recommended linear regression criteria are listed on page B-6. Graphs of station concentrations versus audit concentrations also appear on the tables. A dashed unity line, which indicates perfect agreement between audit and station concentrations, is shown on each figure.

An examination of the audit results indicates that the SO_2 audits produced results considered excellent according to EPA's criteria for evaluating performance audits.

BISON ENGINEERING INC.
SO_2 ANALYZER AUDIT REPORT FORM

Site: Montana Lime Resources **Date:** May 28, 2014

Performed By: Don Milmine

Analyzer Model: Thermo Fischer 43i **Serial No.:** 904834740

Audit Calibrator Model / Ser. No.: Sabio model 2010 S/N 03020806A

Audit Cylinder No. FA01008 **Cylinder Supplier:** Air Gas Corporation

Cylinder Conc. (ppm) 4.028 **Cylinder Expir. Date:** February 19, 2017

Analyzer Coefficients: Background ~~[illegible]~~ 3.1400 **Span** 0.9890

Date of Last Analyzer Calibration: April 10, 2014

Audit Start Time: 1527 MDT **Audit End Time:** 1705 MDT

AUDIT RESULTS

Audit Standard			Results (ppb)		Percent Error
Gas Flow (SCCM)	Dilution Flow (SCCM)	Audit Conc. (ppb) M	Analyzer Display	DAS	DAS
0	900	0.0000	0	-0.0002	—
91.3	798	0.414	409	0.409	-1.21
66.7	824	0.302	301	0.301	-0.33
17.9	879	0.080	79	0.079	-1.25
5.3	2263	0.009	9	0.009	0.00
5.3	6813	0.003	3	0.003	0.00

Regression Analysis (Y = mX + b)
where Y = analyzer response, X = known concentration)

	m	b	~~r-squared~~ PPMCC
DAS	0.99075	0.04551	0.99999

Signatures

Auditor Don U Milmine **Site Operator**

TECO 43i
SO_2 Analyzer SOP

Montana Limestone Resources
Bison Engineering, Inc.

EPA's Suggested Linear Regression Criteria		
Slope		
Excellent	≤ ±5%	Between analyzer response and audit concentration
Satisfactory	> ±5 to ±15%	Between analyzer response and audit concentration
Unsatisfactory	≥ ±15%	Between analyzer response and audit concentration
Individual Audit Concentration Difference		
9 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
3 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
0 PPB concentration, +/- 1.5 PPB		
Intercept		
Satisfactory	≤ ±3%	of the analyzer range
Unsatisfactory	> ±3%	of the analyzer range
Correlation Coefficient		
Satisfactory	0.9950 to 1.0000	Linear analyzer response to audit concentration
Unsatisfactory	< 0.9950	Nonlinear analyzer response to audit concentration

MONTANA LIMESTONE RESOURCES, LLP DRUMMOND, MONTANA AMBIENT AIR MONITORING PROGRAM Quarterly Data Report

Third Quarter 2014

Prepared for:

Montana Limestone Resources, LLP
Butte, Montana 59701

Prepared by:

Bison Engineering, Inc.
1111 Maggie Lane
Billings, MT 59101
(406) 896-1716
http://www.bison-eng.com

November 17, 2014

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume I, A Field Guide to Environmental Quality Assurance (April 1994), Volume II, Ambient Air Quality Program (May 2013), and Volume IV, Meteorological Measurements (March 2008).*

Preparer: Jeffrey S. Bell

Signature: Jeffrey S Bell

Title: Senior Field Technician

Date: 11/13/14

Reviewer: Rebecca L. Picchioni, P.E.

Signature: Rebecca Picchioni

Title: Project Engineer

Date: 11/14/14

TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 $PM_{2.5}$ PRECISION CHECK DATA 7

4.0 SULFUR DIOXIDE PRECISION CHECK DATA 9

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA 10

6.0 CALIBRATION DATA 11

7.0 PERFORMANCE AUDIT DATA 19

8.0 DATA COMPLETENESS 20

9.0 MONITORING DATA 27

LIST OF TABLES

Table 1. $PM_{2.5}$ Precision Check Data 8
Table 2. SO_2 Precision Check Data 9
Table 3. SO_2 Zero/Span Check Data 10
Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration 13
Table 5. MLR-2 PM_{10} Sampler Calibration 14
Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration 15
Table 7. Meteorological Calibration 16
Table 8. SO_2 Calibration 18
Table 9. PM_{10} Data Completeness 21
Table 10. $PM_{2.5}$ Data Completeness 21
Table 11. Monthly Data Completeness 22
Table 12. Quarterly Data Completeness 25
Table 13. Periods of Missing Data 26
Table 14. Missing Data Codes 28
Table 15. MLR-2 PM_{10} Sampling Data – $\mu g/m^3$ (LTP) 29
Table 16. MLR-1 Reporting $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Reporting) (LTP) 30
Table 17. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – $\mu g/m^3$ (Duplicate) (LTP) 31
Table 18. SO_2 Data Summary for MLR Drummond Site 32
Table 19. Monthly Wind Rose Summary, Drummond 33
Table 20. Monthly Wind Rose Summary, Drummond 34

LIST OF TABLES, CONTINUED

Table 21. Monthly Wind Rose Summary, Drummond 35
Table 22. Quarterly Wind Rose Summary, Drummond 36

LIST OF FIGURES

Figure 1. Monitoring Site Locations 2
Figure 2. Monthly Wind Rose, Drummond Site..... 37
Figure 3. Monthly Wind Rose, Drummond Site..... 38
Figure 4. Monthly Wind Rose, Drummond Site..... 39
Figure 5. Quarterly Wind Rose, Drummond Site..... 40

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Report

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) has established three ambient monitoring sites near Drummond, Montana, to measure baseline air quality and meteorology near a proposed mine.

- In August 2013, a particulate monitoring system was installed to measure particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns or less (PM_{10}). Sampling was discontinued on August 31 after one full year of sampling was completed.

- In September 2013, a 20-meter meteorological tower was installed to monitor wind speed, wind direction, standard deviation of wind direction, temperature at 19 meters and 2 meters, delta temperature, and solar radiation.

- In January 2014, a sulfur dioxide (SO_2) monitoring station was installed. A barometric pressure sensor was added to that site in February 2014.

- In April 2014, a relative humidity sensor was added to the meteorological tower site.

- In May 2014, a precipitation sensor was added to the sulfur dioxide (SO_2) monitoring station site.

The sites are operated by Bison Engineering, Inc. (Bison), of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the third quarter (July through September) of 2014. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations, and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. Monitoring Site Locations

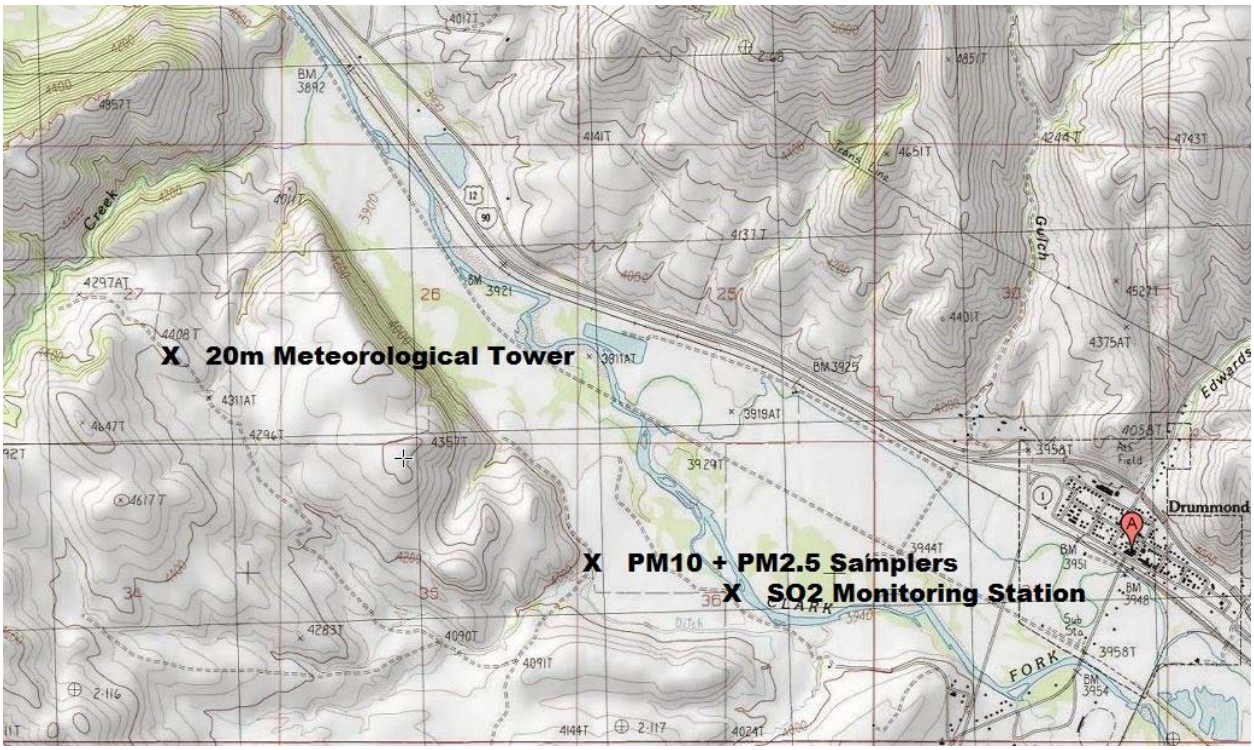


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about three weeks to complete. The meteorological instruments on the tower were in full operation and producing valid data by September 23, 2013.

The installation of the SO_2 monitor took place on January 9, 2014, and the barometric pressure sensor was added on February 3, 2014. A heated precipitation gauge was added on May 22. The SO_2 monitor is a Thermo Scientific Model 43i-TL and was designated as an equivalent automated method (#EQSA-0486-060) by EPA in September 2005. The range of this instrument is set to 0 – 500 ppb. The system automatically performs a zero-span check every 23 hours.

The particulate samplers were installed on August 16, 2013. The $PM_{2.5}$ and PM_{10} sampling is accomplished with three BGI Model PQ200 battery-powered low volume samplers. The $PM_{2.5}$ samplers have Very Sharp Cut Cyclone (VSCC) separators. The sample filters were submitted to the Bison-Billings Office for gravimetric analysis. All $PM_{2.5}$ and PM_{10} samplers were in full operation and producing valid data beginning August 17, 2013. This monitoring procedure is similar to that employed at other State and Local Air Monitoring Stations (SLAMS).

The particulate monitoring site includes:

- **Sampler MLR-1 ($PM_{2.5}$ Reporting)**, which operates on a one-day-in-three schedule;
- **Sampler MLR-2 (PM_{10} Reporting)**, which operates on a one-day-in-three schedule; and
- **Sampler MLR-3 ($PM_{2.5}$ Duplicate)**, which operates on a one-day-in-six schedule.

Collocated results from the two $PM_{2.5}$ samplers are used to determine sampling precision statistics.

Both the meteorological instruments and the SO_2 monitor operated with no problems during the quarter. The particulate samplers also operated with no problems, but one sample was invalidated due to a tear in the filter.

Don Milmine of Bison conducted performance audits of the particulate samplers, SO_2 monitor, and the meteorological system on September 24, 2014. The audits produced satisfactory to excellent results for all instrumentation. The Bison report of the audits is presented in Appendix B.

2.1 Summary of Method for $PM_{2.5}$ and PM_{10}

The "method" for $PM_{2.5}$ and PM_{10} consists of:

- A $PM_{2.5}$ and PM_{10} sampler or analyzer designed, built and sold by a particular manufacturer to meet the design specifications found at 40 CFR Part 50, Appendix L;
- An operation or instruction manual provided by the instrument manufacturer that describes the proper use and operation of the sampler or analyzer; and
- The other operational and quality assurance requirements necessary to obtain reliable $PM_{2.5}$ and PM_{10} concentration measurements. These performance specifications are found at 40 CFR Part 53, Appendix E. Bison also prepared a Quality Assurance Project Plan for the operation of the samplers.

Bison used three BGI Incorporated (BGI) PQ200 federal reference method (FRM) samplers. The $PM_{2.5}$ samplers use the additional Very Sharp Cut Cyclone (VSCC). The PM_{10} samplers use the (BGI WE10) WINS Eliminator to convert $PM_{2.5}$ Sampler to PM_{10} FRM. These samplers have been designated by the U.S. EPA as an equivalent method for the determination of $PM_{2.5}$ and PM_{10} in ambient air. Designation No. EQPM-0202-142 has been assigned to this sampling method in the Code of Federal Regulations. This sampler is specifically designed to comply with the requirements of the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (40 CFR 50) and to facilitate sampling as specified in that document.

The BGI PQ200-VSCC is specifically designed as an equivalent method for the measurement of $PM_{2.5}$ and PM_{10}. The design specifications include:

- Operation with firmware version 3.88, 3.91, 3.89R, or 3.91R, for 24-hour sample periods;
- Operation in accordance with the Model PQ200-VSCC Instruction Manual and VSCC supplemental manual;
- Operation with sample collection filters specified in 40 CFR Part 50, Appendix L.
- Operation with or without the optional solar power supply or the optional dual filter cassette and associated lower impactor housing, where the upper filter is used for $PM_{2.5}$.

2.2 Principle of Operation of $PM_{2.5}$ and PM_{10} Samplers

The PM_{10} inlet, sample tube, VSCC, filter holder, and filter cassette are design-specified. Mechanical drawings have been made publicly available by EPA. The remainder of the reference method sampler is performance-specified and requires that:

- The sampler provides automatic control of the sample flow rate to ± 5% of 16.67 lpm.
- The sampler monitors the operational parameters and logs the ambient temperature, filter temperature, ambient barometric pressure, and system pressure every five minutes during the 24-hour sampling event.
- The logged information is available to the sampler operator during and at the end of each sample event in both visual and electronic data form.
- The microprocessor provides a digital display which updates continuously while an RS232 data output port provides the capability for logged data to be electronically output from the sampler.

In the Model PQ200-VSCC, the fixed flow rate of 16.67 lpm is maintained by a microprocessor. Temperature and pressure data are collected and corrections are made for the differences of temperature and pressure between the ambient and sampler conditions. The barometric pressure, meter pressure drop, ambient temperature, filter temperature, and meter temperature are measured and reported by the PQ200-VSCC control system. The vacuum pump and volumetric flow rate control system, flow rate measurement device, ambient and filter temperature monitoring system, timer, outdoor enclosure, and microprocessor monitoring control capability meet design and functional performance requirements as specified in Appendix L.

The air inlet which removes particulate matter larger than 10 microns, the downtube which carries the sample stream from the inlet to the secondary particle size separator (VSCC), the VSCC itself, the filter cassette, and the internal configuration of the filter holder assembly are specified explicitly by EPA in Appendix L of 40 CFR 50. The EPA specifications include design figures, and associated mechanical dimensions, tolerances, materials, surface finishes, assembly instructions and other necessary specifications.

The basic measurement approach for the EPA design is similar to that of the dichotomous sampler that has been used for over 20 years. Large particles are eliminated by gravity before reaching the inlet of this low-flow-volume sampler. The omni-directional inlet acts as an aerodynamic device that does not discriminate ambient PM_{10} under varying wind and climate conditions and provides a clean aerodynamic cut-point for particles of greater than 10 microns that enter the system.

The air sample flows through the PM_{10} inlet and then through a 12-inch length of tubing (the downtube). The downtube supports the PM_{10} inlet above the sampler shelter and transports the sample stream to the $PM_{2.5}$ particle size separator (the VSCC). This VSCC operates at a volumetric sample rate of 16.67 lpm and has a sharp aerodynamic cut-point at 2.5 micrometers. The particles greater than $PM_{2.5}$ are removed to the grit pot on the side of the VSCC. The $PM_{2.5}$ sample is ducted through the cyclone separator to the filter holder and collected on the 47 mm PTFE filter media.

Prior to transport to the field for sample collection, the filters are equilibrated to constant temperature and relative humidity conditions and are weighed in a laboratory setting. After sampling, the filters are again equilibrated to essentially the same constant temperature and humidity conditions and again weighed in the laboratory. The concentration is determined by dividing the weight difference of the filter before and after the sample is collected by the volume of air that passed through the sampler during the sample collection period.

3.0 $PM_{2.5}$ PRECISION CHECK DATA

Precision of the $PM_{2.5}$ data is evaluated by operating collocated samplers at a monitoring site. The differences between the paired measurements represent the precision of the $PM_{2.5}$ data.

The precision data from the two $PM_{2.5}$ samplers collocated at the monitoring station are given in Table 1. In accordance with EPA's policy for evaluating $PM_{2.5}$ precision data, only $PM_{2.5}$ concentrations of at least 3 $\mu g/m^3$ are included in the precision calculations. In addition, the quarterly summary statistics, as described in EPA's "Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A" are presented at the end of each table.

Table 1. $PM_{2.5}$ Precision Check Data

Third Quarter 2014			
Date	Reporting Concentration** $\mu g/m^3$	Duplicate Concentration** $\mu g/m^3$	Relative Percent Difference
7/4	7	6	15.385
7/10	5	5	0.000
7/16	12	12	0.000
7/22	5	5	0.000
7/28	6	6	0.000
8/3	14	13	7.407
8/9	14	14	0.000
8/15	4	4	0.000
8/21	**Fi	3	NA
8/27	4	5	-22.222

Third Quarter Summary Statistics*	
n =	9
$\Sigma\|d\|$ =	45.014
Σd =	0.570
Σd^2 =	785.383
CV (%) =	10.61
25th Percentile =	0.000
75th Percentile =	0.000

*Only sampling runs where both of the $PM_{2.5}$ concentrations were at least 3 $\mu g/m^3$ were included in the calculation of the quarterly summary statistics.
**See Table 12 for an explanation of the missing data codes.

4.0 SULFUR DIOXIDE PRECISION CHECK DATA

Precision checks of the sulfur dioxide analyzers are manually performed every two weeks. Results for the third quarter are presented in Table 2. In addition, the quarterly summary statistics, as described in EPA's *Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A,* are presented.

The precision checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration (between 0.08 and 0.10 parts per million) of sulfur dioxide. The differences between the analyzer responses and the known concentrations of the test gas represent the precision of the monitoring data.

Table 2. SO_2 Precision Check Data

Drummond SO_2 Site - Third Quarter 2014			
Date	Reference Concentration (ppm)	Analyzer Response (ppm)	Percentage Difference
Jul 1	0.090	0.090	0.000
15	0.090	0.090	0.000
29	0.090	0.089	-1.111
Aug 12	0.090	0.089	-1.111
26	0.090	0.089	-1.111
Sep 9	0.090	0.088	-2.222
23	0.090	0.090	0.000
Quarterly Summary Statistics			
		n =	7
		S_d =	0.840
		S_{d2} =	1.746
		$\Sigma\|d\|$ =	5.556
		Σd =	-5.556
		Σd^2 =	8.642
		AB =	0.794
		AS =	0.840
		CV (%) =	1.39
		Signed Bias =	-1.41
		25th Percentile =	-1.111
		75th Percentile =	0.000
		Upper 95 Percent Probability Limit =	0.85
		Lower 95 Percent Probability Limit =	-2.44

5.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA

Level 1 zero/span checks are manually conducted every two weeks and results for the third quarter of 2014 are given in Table 3. The zero/span checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration of sulfur dioxide between 70 and 90 percent of the full scale of the analyzer. The analyzer response is noted and the percentage difference between the analyzer response and the concentration of the test gas is calculated. Test gas containing no sulfur dioxide also is presented to the analyzer and the analyzer's response to this "zero air" is noted.

Additionally, an automatically triggered zero/span check occurs every 23 hours.

Table 3. SO_2 Zero/Span Check Data

Third Quarter 2014					
Drummond SO_2 Site					
Date	Reference Concentration (ppm)	Zero Response (ppm)	Span Response (ppm)	Zero Drift (percent of full scale)	Span Drift (percent)
Jul 1	0.400	0.000	0.410	0.00	2.50
15	0.400	0.001	0.411	0.20	2.75
29	0.400	0.000	0.398	0.00	-0.50
Aug 12	0.400	0.000	0.399	0.00	-0.25
26	0.400	0.000	0.399	0.00	-0.25
Sep 9	0.400	0.000	0.397	0.00	-0.75
23	0.400	0.001	0.401	0.20	0.25

6.0 CALIBRATION DATA

6.1 Particulate Samplers

Calibration checks / adjustments to the particulate samplers are performed as follows:

- A multipoint flow calibration is performed at the time of installation, at least once per quarter, and upon failure of a single-point flow verification;
- A single-point flow verification is performed at least once per month;
- A multipoint temperature sensor verification/calibration is performed at least once per year, and upon failure of a single-point verification;
- A single-point verification of the temperature sensors is performed at least once per month;
- A single-point verification of the pressure sensor is performed at least once per month.
- Additional calibration checks/adjustments are also performed whenever there is any indication that the system is inaccurate or operating improperly, and whenever adjustments are made to the system that could affect its calibration.

Additionally, the integrity of the sampling train is verified prior to each sampling run by using the sampler internal leak test function. During this check, the pressure drop must be less than five centimeters of water over two minutes.

The results of the multipoint flow calibrations of the $PM_{2.5}$ and PM_{10} samplers conducted during the third quarter are presented in Tables 4 through 6. Results of single-point flow, temperature and pressure verifications are documented on the “MLR Particulate Monitoring Field Data Form” that is completed by the site operator prior to each sampling event. All flow, temperature and pressure checks of the particulate samplers were performed using a certified BGI Delta Cal unit.

6.2 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter: Results of the meteorological system calibrations performed during the third quarter of 2014 are given in Table 7.

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motor speeds;
- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;

- The solar radiation sensor is certified by the manufacturer, and is verified by taking collocated measurements with a certified sensor.
- The calibration of the barometric pressure sensor (at the sulfur dioxide monitoring site) was checked against a certified standard.

6.3 Sulfur Dioxide Monitor

Results of the sulfur dioxide calibration performed during the third quarter of 2014 are given in Table 8. Analyzer calibrations are carried out at the field monitoring sites by allowing the analyzer to sample an artificial test atmosphere of known concentration. During calibration, the analyzer is operated in its normal sampling mode, and the test atmosphere is passed through all filters, scrubbers, and conditioners used during normal ambient sampling. All operational adjustments to the analyzer are completed prior to calibration. All calibrations include a zero concentration and at least four upscale points spaced approximately equally over the range of the analyzer.

Calibrations are performed:

- Once per quarter;
- After an interruption of more than a few days in analyzer operation;
- Following any repairs which might affect analyzer calibration;
- Following a physical relocation of the analyzer; or
- After any other indication of significant inaccuracy of the analyzer, such as excessive zero drift or seven points in an upward or downward trend.

Table 4. MLR-1 Reporting $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1036 (MLR-1) AT DRUMMOND
Performed 07-15-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.72 LPM

Sampler Reading = 16.83 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.46	N/A
16.7 LPM	16.81	N/A
15.0 LPM	15.01	N/A

FLOW VERIFY (as left)

Delta Cal = 16.81 LPM

Sampler Reading = 16.72 LPM

AMBIENT TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
22.2	22.0	-0.2

FILTER TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
24.6	23.7	-0.9

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 660.5 mmHg

Sampler = 660 mmHg No adjustment

LEAK CHECK

Initial 101 cm
Final 100 cm Pass

Signature of Calibrator Steven R Heck

Table 5. MLR-2 PM_{10} Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1548 (MLR-2) AT DRUMMOND
Performed 07-15-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.81 LPM

Sampler Reading = 16.72 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.42	N/A
16.7 LPM	16.69	N/A
15.0 LPM	14.82	N/A

FLOW VERIFY (as left)

Delta Cal = 16.76 LPM

Sampler Reading = 16.72 LPM

AMBIENT TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
23.0	23.2	0.2

FILTER TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
24.3	24.1	-0.2

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 660.0 mmHg

Sampler = 660 mmHg No adjustment

LEAK CHECK

Initial 99 cm
Final 99 cm Pass

Signature of Calibrator Steven B. Heck

Table 6. MLR-3 Duplicate $PM_{2.5}$ Sampler Calibration

CALIBRATION OF BGI SAMPLER S/N 1549 (MLR-3) AT DRUMMOND
Performed 07-15-2014 by Steve Heck of Bison Engineering Inc.
Calibration Standard: BGI Delta Cal SN 1288, Certified 05-08-2014

FLOW VERIFY (as found)

Delta Cal = 16.97 LPM

Sampler Reading = 16.70 LPM

FLOW RATE SET POINT	As-Found	Adjusted To
18.4 LPM	18.54	18.32
16.7 LPM	16.97	16.74
15.0 LPM	15.29	14.99

FLOW VERIFY (as left)

Delta Cal = 16.74 LPM

Sampler Reading = 16.72 LPM

AMBIENT TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
22.1	22.5	0.4

FILTER TEMPERATURE (Limit ± 2.0 °C)

Delta Cal (°C)	Sampler (°C)	Difference (°C)
25.2	24.8	-0.4

AMBIENT PRESSURE (Limit ± 10 mmHg)

Delta Cal = 660.0 mmHg

Sampler = 660 mmHg No adjustment

LEAK CHECK

Initial 94 cm
Final 93 cm Pass

Signature of Calibrator Steven R Heck

Table 7. Meteorological Calibration

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Calibration Results: 3rd Qtr, 2014

Client: Montana Limestone Resources
Site: Drummond
Date: September 25, 2014
Performed By: Chris Hiltunen, Bison Engineering Inc.
Tower lowered at 11:30 MST Tower back up at 17:30 MST

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (20 meters), N1889C (2 meters)
Calibration Device: Control Company - digital thermometer Model 4000
Serial Number : 130236679
Last certified: 4/23/2014

Temperature bath results

Calibration Value °C	19m DAS Value °C	19m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	19m - 2m DAS Diff. °C
34.80	34.78	-0.02	34.79	-0.01	-0.01
16.68	16.65	-0.03	16.67	-0.01	-0.02
0.00	0.12	0.12	0.14	0.14	-0.02

Wind Direction Linearity Audit Device: Climatronics 101966, SN 70

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : R16302
Crossarm orientation (from GPS sighting): 89.27 / 270.73
Geographic coordinates for Crossarm
46.676801°N, 113.214219°W
Geographic coordinates for Sighting Point West
46.676815°N, 113.215817°W
Sensor response aligned with crossarm (as found): 91.3
Sensor response aligned with crossarm (as left): 90.3

Threshold Torque: 2.0 gm-cm (new bearings)
(RM Young Torque Disk)

Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.7	0.5	0.7	0.5
30	30.0	29.8	0.0	-0.2
60	60.4	60.3	0.4	0.3
90	90.3	90.1	0.3	0.1
120	120.4	120.3	0.4	0.3
150	150.7	150.5	0.7	0.5
180	180.8	180.6	0.8	0.6
210	210.4	210.2	0.4	0.2
240	240.2	239.9	0.2	-0.1
270	269.9	269.7	-0.1	-0.3
300	300.1	300.0	0.1	0.0
330	330.2	330.0	0.2	0.0
0	0.7	0.7	0.7	0.7
		Max Diff	**0.8**	**0.7**

Table 7. Meteorological Calibration (Continued)

Wind Speed

Sensor height:: 20 Meters
Sensor (Make/model number): Climatronics 102083
Serial Number : R16302
Calibration device: RM Young WS tachometer

Synchronous motor checks (1)

Threshold Torque: 0.0 gm-cm
(Waters Model 366-4 torque watch)

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.00	0.22	0.22
300	6.66	6.65	-0.01
600	13.09	13.09	0.00
950	20.58	20.40	-0.18

Barometric Pressure
(Sensor located at SO2 monitoring building)

Sensor (Make/model number): Met One 092
Serial Number : P22256
Calibration standard: Control Company NIST Traceable barometer, calibrated against wall mercury barometer on 9/24/2014

NIST Value in. Hg	Station Response in. Hg	Difference in. Hg
25.66	25.72	0.06

Relative Humidity

Calibration Check Device: Dwyer Mercury wet bulb - dry bulb sling psychrometer

Dry-Bulb Temp.: 87 deg F
Wet-Bulb Temp.: 61 deg F
Measured RH: 16.0 %RH
Station RH: 14.95 %RH
Diff: -1.1 %RH

Solar Radiation

Replaced existing solar pyranometer with Li-Cor 200 SN PY61543 factory calibrated on 6/3/2013, sent tower pyranometer back r factory re-calibration.

Precipitation
(Sensor located at SO2 monitoring building)

Calibration Check Device: 500 ml graduated cylinder

Rain Gauge = Met One Model 375
Level checked OK
Wind Screen in place
8" opening

200 ml water added
Calibration is 8.24 ml per tip
Known audit value is 200 / 8.24 = 24.27 tips (so 24 full tips expected)

Unit registered 22 tips
% difference from expected = -8.3%

Signature of Calibrator :

Table 8. SO_2 Calibration

July 15, 2014			
Analyzer: Thermo Environmental Inc.43i-TL, S/N 904834740			
Background Setting Unadjusted: 3.12 Adjusted: 3.08		Span Coefficient Setting Unadjusted: 0.989 Adjusted: 0.980	
Calibration Flow Standard flow kit model : Gilibrator Flow Cell : all		Calibrator: Thermo Electron Inc. 146i S/N 904834743	
Reference Concentration (ppm)	Analyzer Response (ppm)	Chart Response (ppm)	Percentage Difference
0.000	0.0003	NA	0.1
0.400	0.400	NA	0.0
0.300	0.300	NA	0.0
0.200	0.198	NA	-1.0
0.080	0.080	NA	0.0
Linear Regression Analysis*			
Slope =	0.9994		
Intercept =	-0.0002		
Correlation Coefficient =	0.99997		
* Least squares linear regression, given by y = ax + b, where y is the analyzer response, x is the reference concentration, a is the slope, and b is the intercept.			

7.0 PERFORMANCE AUDIT DATA

Don Milmine of Bison conducted performance audits of the particulate samplers, SO_2 monitor, and the meteorological system on September 24, 2014. The audits produced satisfactory to excellent results for all instrumentation. The Bison report of the audits is presented in Appendix B.

Audit criteria for the particulate samplers include:

- The internal leak test must produce a result of < 5 cm H_2O over two minutes.
- The indicated particulate sampler flow rate must not differ from the audit flow rate by more than ±4%.
- The audit flow rate must not differ from the design flow rate (16.67 LPM) by more than ±5%.
- The particulate sampler temperature sensors must be in error by no more than ±2°C.
- The particulate sampler pressure sensors must be in error by no more than ±10 mmHg

Audit criteria for the sulfur dioxide analyzer are detailed in a separate table in Appendix B. In general, the most significant are:

- The allowable error for audit concentrations ≥ 0.010 ppm is ≤ ±15% at each point.
- The allowable error for audit concentrations < 0.010 ppm, and at the zero point, is ≤ ±1.5 ppb.

8.0 DATA COMPLETENESS

The $PM_{2.5}$ and PM_{10} percentages of data recovery during the third quarter of 2014 are given in Tables 9 and 10. In these tables, the number of possible data values during each month of the third quarter is given, together with the number of valid readings. The percentage data recovery is computed by dividing the number of valid readings by the number of possible readings and multiplying the result by 100.

During the third quarter of 2014, the net percentage data recovery was 100.00 percent for the PM_{10} sampler, 95.24 percent for the $PM_{2.5}$ duplicate sampler, and 100.00 percent for the $PM_{2.5}$ duplicate sampler at Drummond. The loss of data was due to a torn filter.

The percentages of data recovery for meteorological parameters and the SO_2 monitor are given in Tables 11 and 12. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as precision checks, zero/span checks, calibrations, performance audits, and maintenance on the analyzers). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery. Missing data periods are summarized in Table 13.

During third quarter, the net percentage data recovery was 100.0 percent for wind speed, 2-meter and 19-meter temperature, and solar radiation. The net percentage data recovery was 99.9 percent for wind direction and wind direction standard deviation. The net percentage data recovery was 99.8 percent for SO_2, and for barometric pressure, precipitation, and relative humidity. All data losses were due to a datalogger collection error.

Table 9. PM_{10} Data Completeness

Third Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-2 PM_{10} Sampler			
July	11	11	100.00
August	10	10	100.00
September	NA	NA	NA
Third Quarter	21	21	100.00

Table 10. $PM_{2.5}$ Data Completeness

Third Quarter 2014			
Time Period	Readings Possible	Valid Readings	Percentage Recovery
MLR-1 Reporting $PM_{2.5}$ Sampler			
July	11	11	100.00
August	10	9	90.00
September	NA	NA	NA
Third Quarter	21	20	95.24
MLR-3 Duplicate $PM_{2.5}$ Sampler			
July	5	5	100.00
August	5	5	100.00
September	NA	NA	NA
Third Quarter	10	10	100.00

Table 11. Monthly Data Completeness

July 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	743	99.9	0	99.9
Standard Deviation	744	743	99.9	0	99.9
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Sulfur Dioxide	744	701	94.2	42	99.9
Barometric Pressure	744	743	99.9	0	99.9
Precipitation	744	743	99.9	0	99.9
Total	8,184	8,137	99.4	42	99.9

Table 11. Monthly Data Completeness (Continued)

August 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	742	99.7	0	99.7
Standard Deviation	744	742	99.7	0	99.7
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Relative Humidity	744	742	99.7	0	99.7
Sulfur Dioxide	744	705	94.8	36	99.6
Barometric Pressure	744	741	99.6	0	99.6
Precipitation	744	741	99.6	0	99.6
Total	8,184	8,133	99.4	36	99.8

Table 11. Monthly Data Completeness (Continued)

September 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	720	706	98.1	14	100.0
Wind Direction	720	706	98.1	14	100.0
Standard Deviation	720	706	98.1	14	100.0
Temperature 19 Meters	720	706	98.1	14	100.0
Temperature 2 Meters	720	706	98.1	14	100.0
Temperature Delta T	720	706	98.1	14	100.0
Solar Radiation	720	706	98.1	14	100.0
Relative Humidity	720	703	97.6	14	99.6
Sulfur Dioxide	720	683	94.9	37	100.0
Barometric Pressure	720	718	99.7	2	100.0
Precipitation	720	718	99.7	2	100.0
Total	7,920	7,764	98.0	153	100.0

Table 12. Quarterly Data Completeness

Third Quarter 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	2,208	2,194	99.4	14	100.0
Wind Direction	2,208	2,191	99.2	14	99.9
Standard Deviation	2,208	2,191	99.2	14	99.9
Temperature 19 Meters	2,208	2,194	99.4	14	100.0
Temperature 2 Meters	2,208	2,194	99.4	14	100.0
Temperature Delta T	2,208	2,194	99.4	14	100.0
Solar Radiation	2,208	2,194	99.4	14	100.0
Relative Humidity	2,208	2,189	99.1	14	99.8
Sulfur Dioxide	2,208	2,089	94.6	115	99.8
Barometric Pressure	2,208	2,202	99.7	2	99.8
Precipitation	2,208	2,202	99.7	2	99.8
Total	24,288	24,034	99.0	231	99.9

Table 13. Periods of Missing Data

Third Quarter 2014						
Starting Date/Hour	Ending Date/Hour	Site	Parameter	Total Hours	Percent of Quarter	Circumstance
July 22/19	July 22/19	Met tower	WD,SD	1	0.05	Missing data: Collection error in datalogger at the site
Aug 20/22	Aug 20/22	Met tower	WD,SD	1	0.05	Missing data: Collection error in datalogger at the site
Aug 21/17	Aug 21/17	Met tower	WD,SD	1	0.05	Missing data: Collection error in datalogger at the site
Aug 1/14	Aug 1/15	Met tower	RH	2	0.09	Missing data: Collection error in datalogger at the site
Sept 8/16	Sept 8/18	Met tower	RH	3	0.14	Missing data: Collection error in datalogger at the site
July 25/17	July 25/17	SO_2 site	SO_2,BP, Precip	1	0.05	Missing data: Collection error in datalogger at the site
Aug 15/18	Aug 15/20	SO_2 site	SO_2,BP, Precip	3	0.14	Missing data: Collection error in datalogger at the site

9.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the resultant wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 14.

The $PM_{2.5}$ and PM_{10} data collected during third quarter at the site are given in Tables 15 through 17. These tables give the 24-hour $PM_{2.5}$ and PM_{10} concentrations measured (referenced to local temperature and pressure), together with the first- and second-highest 24-hour $PM_{2.5}$ and PM_{10} concentrations and average $PM_{2.5}$ and PM_{10} concentrations during each month, quarter, and the year to date. All concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

The SO_2 data collected during the third quarter are summarized in Table 18, with hourly values shown in Appendix A. All SO_2 concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

Monthly and quarterly wind rose distributions from the meteorological tower are presented in Tables 19 through 22. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 through 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 14. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 15. MLR-2 PM_{10} Sampling Data – µg/m^3 (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		5				7	8						1
2	5			4	10								2
3			12					18					3
4		5				8	11						4
5	11			2	2								5
6			2					21					6
7		10				9	9						7
8	10			8	5								8
9			2					18					9
10		13				10	10						10
11	3			6	3								11
12			4					14					12
13		4				5	16						13
14	2			7	8								14
15			4					6					15
16		2				3	17						16
17	4			6	8								17
18			3					10					18
19		3				5	**67						19
20	4			5	5								20
21			4					6					21
22		3				6	10						22
23	4			2	12								23
24			5					5					24
25		5				7	5						25
26	3			2	9								26
27			3					8					27
28		17				3	13						28
29	3			4	8								29
30			2					7					30
31							16						31
Monthly Summaries for Site													
Max	11	17	12	8	12	10	67	21					Max
2nd	10	13	5	7	10	9	17	18					2nd
Avg	4.9	6.7	4.1	4.6	7.0	6.3	16.5	11.3					Avg
Count	10	10	10	10	10	10	11	10					Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	17	12	67		67
2nd	13	10	21		21
Avg	5.2	6.0	14.0		8.4
Count	30	30	21		81

* See Table 10 for an explanation of the missing data codes.
** Smoke from wildfires in the region.

Table 16. MLR-1 Reporting $PM_{2.5}$ Sampling Data – µg/m^3 (Reporting) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1		4				4	5						1
2	3			3	6								2
3			4					14					3
4		4				4	7						4
5	2			1	2								5
6			1					13					6
7		7				4	5						7
8	7			4	3								8
9			1					14					9
10		11				Wi	5						10
11	1			3	2								11
12			2					8					12
13		2				3	9						13
14	1			4	5								14
15			2					4					15
16		1				2	12						16
17	3			3	5								17
18			2					6					18
19		1				3	**53						19
20	3			3	2								20
21			3					Fi					21
22		2				3	5						22
23	3			1	6								23
24			3					3					24
25		3				3	3						25
26	3			1	4								26
27			2					4					27
28		3				1	6						28
29	2			2	3								29
30			1					5					30
31							6						31
Monthly Summaries for Site													
Max	7	11	4	4	6	4	53	14					Max
2nd	3	7	3	4	6	4	12	14					2nd
Avg	2.8	3.8	2.1	2.5	3.8	3.0	10.5	7.9					Avg
Count	10	10	10	10	10	9	11	9					Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	11	6	53		53
2nd	7	6	14		14
Avg	2.9	3.1	9.4		5.1
Count	30	29	20		79

* See Table 10 for an explanation of the missing data codes.
** Smoke from wildfires in the region.

Table 17. MLR-3 Duplicate $PM_{2.5}$ Sampling Data – µg/m^3 (Duplicate) (LTP)

Year 2014													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3								13					3
4		ND				4	6						4
5	2			1	1								5
6			1										6
7													7
8													8
9								14					9
10		ND				3	5						10
11	2			3	3								11
12			2										12
13						2							13
14													14
15								4					15
16		2				2	12						16
17	2			3	5								17
18			1										18
19													19
20													20
21								3					21
22		2				3	5						22
23	3			1	7								23
24			3										24
25													25
26													26
27								5					27
28		3				1	6						28
29	2			2	3								29
30			1										30
31													31
Monthly Summaries for Site													
Max	3	3	3	3	7	4	12	14					Max
2nd	2	2	2	3	5	3	6	13					2nd
Avg	2.2	2.3	1.6	2.0	3.8	2.5	6.8	7.8					Avg
Count	5	3	5	5	5	6	5	5					Count

Quarterly and Annual Summaries for Site					
	First Quarter	**Second Quarter**	**Third Quarter**	**Fourth Quarter**	**Year**
Max	3	7	14		14
2nd	3	5	13		13
Avg	2.0	2.8	7.3		4.0
Count	13	16	10		39

* See Table 10 for an explanation of the missing data codes.

Table 18. SO_2 Data Summary for MLR Drummond Site

Day	July 2014		August 2014		September 2014	
	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)
1	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.001	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	*0.000	*0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000		
MONTH	0.000	0.001	0.000	0.000	0.000	0.000

*Indicates that average is based on less than 80% of possible data.

	Current Quarter	Year-to-Date
Average SO_2 Conc. (ppm)	0.000	0.000
Maximum 24-Hour SO_2 Conc. (ppm)	0.000	0.001
Maximum 1-Hour SO_2 Conc. (ppm)	0.000	0.028

Table 19. Monthly Wind Rose Summary, Drummond

July 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.5	1.1	1.5	1.7	1.3	1.5	2.0	1.3	1.2	0.3	0.5	0.3	0.0	0.1	0.1	0.4	14.0
1.1 - 2.0	0.5	1.1	2.0	1.3	2.8	3.9	5.5	3.4	2.3	0.5	0.5	0.0	0.5	1.2	0.9	0.7	27.3
2.1 - 3.0	1.2	0.9	0.4	1.6	1.1	2.0	2.4	1.7	0.7	0.3	0.0	0.0	1.3	1.6	1.5	1.3	18.2
3.1 - 4.0	0.5	0.5	0.5	0.1	0.3	0.8	0.8	0.8	0.1	0.1	0.3	0.4	0.8	1.2	2.7	1.6	11.7
4.1 - 5.0	0.0	0.4	1.1	0.0	0.0	0.7	0.4	0.1	0.3	0.1	0.0	0.4	0.7	1.9	1.7	0.7	8.5
5.1 - 6.0	0.0	0.0	0.4	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	2.3	0.3	5.1
6.1 - 7.0	0.1	0.0	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.6	1.9	0.4	5.9
7.1 - 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	0.1	3.0	1.6	0.0	4.7
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.1	1.6	1.2	0.0	3.5
9.1 - 10.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.8
10.1 - 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	0.0	0.1	0.1	0.0	0.3
11.1 - 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	0.0	0.0	0.0	0.0	0.0
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	3.0	4.0	6.2	5.1	6.1	9.6	11.2	7.4	4.6	1.5	1.3	1.1	4.0	15.3	14.3	5.4	100.0
Average Speed	2.3	2.1	2.6	1.9	1.9	2.4	1.9	1.8	1.7	2.8	1.6	3.2	3.7	5.7	5.1	3.3	3.2

Table 20. Monthly Wind Rose Summary, Drummond

August 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.4	0.8	1.6	2.0	1.5	2.2	2.2	2.2	1.9	0.7	0.5	0.5	0.1	0.3	0.4	0.1	17.4
	1.1 - 2.0	1.3	2.2	1.8	3.0	2.8	4.0	5.5	2.8	2.0	1.1	0.8	0.1	0.9	1.2	0.9	0.3	30.9
	2.1 - 3.0	0.8	0.1	0.9	0.7	1.3	2.4	2.2	1.6	0.9	0.5	0.4	0.3	1.1	2.3	1.6	1.2	18.5
	3.1 - 4.0	0.7	0.3	0.3	0.4	0.5	1.2	0.5	0.4	0.1	0.0	0.0	0.0	0.5	1.9	2.4	0.3	9.6
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.1	0.5	0.1	0.1	0.3	0.1	1.6	3.8	0.8	8.5
	5.1 - 6.0	0.0	0.0	0.3	0.3	0.1	0.3	0.4	0.3	0.1	0.0	0.0	0.0	0.7	3.8	2.8	0.1	9.2
	6.1 - 7.0	0.0	0.0	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.2	0.0	3.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.7	0.0	1.9
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.4
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.5
	10.1 - 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	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	12.1 - 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	0.0	0.0	0.0	0.0	0.0
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.2	3.4	5.1	6.3	6.6	10.9	11.2	7.5	5.7	2.7	2.0	1.3	4.0	12.8	14.3	2.8	100.0
	Average Speed	2.0	1.5	1.9	1.7	1.9	2.3	2.0	1.9	1.8	2.6	2.4	2.7	3.7	4.3	4.5	3.2	2.7

Table 21. Monthly Wind Rose Summary, Drummond

September 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.1	1.0	1.1	1.8	1.8	3.1	2.5	3.3	1.1	0.7	0.7	0.3	0.0	0.1	0.0	0.8	19.7
	1.1 - 2.0	1.3	0.7	0.7	2.4	2.7	5.1	6.7	5.7	3.3	1.1	0.8	1.1	0.7	1.4	0.8	0.7	35.3
	2.1 - 3.0	0.6	0.1	0.4	0.3	0.6	1.4	3.3	3.0	1.4	0.4	0.4	0.0	1.4	1.3	1.0	0.6	16.1
	3.1 - 4.0	0.3	0.1	0.0	0.1	0.3	0.6	1.3	1.0	0.3	0.0	0.0	0.3	0.6	1.0	0.8	0.4	7.1
	4.1 - 5.0	0.0	0.0	0.1	0.0	0.1	0.6	0.3	0.1	0.1	0.1	0.0	0.0	0.7	2.7	1.0	0.0	5.9
	5.1 - 6.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.0	0.6	2.7	1.4	0.0	5.5
	6.1 - 7.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.8	2.3	1.0	0.1	4.8
	7.1 - 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	0.6	0.7	1.0	0.0	2.3
	8.1 - 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	0.0	0.6	0.6	0.0	1.1
	9.1 - 10.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	1.3
	10.1 - 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	0.0	0.4	0.0	0.0	0.4
	11.1 - 12.0	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	0.0	0.3
	12.1 - 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	0.0	0.1	0.0	0.0	0.1
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.3	2.1	2.8	5.0	5.5	10.9	14.4	13.0	6.2	2.7	2.0	1.8	5.4	14.0	8.1	2.7	100.0
	Average Speed	1.7	1.9	2.7	1.6	1.5	1.8	2.0	1.7	1.7	2.1	1.5	2.2	4.3	5.4	5.2	2.1	2.7

Table 22. Quarterly Wind Rose Summary, Drummond

Third Quarter 2014																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.7	1.0	1.4	1.9	1.6	2.2	2.2	2.2	1.4	0.5	0.6	0.4	0.0	0.2	0.2	0.5	17.0
	1.1 - 2.0	1.0	1.3	1.5	2.2	2.8	4.3	5.9	3.9	2.5	0.9	0.7	0.4	0.7	1.3	0.9	0.5	31.1
	2.1 - 3.0	0.9	0.4	0.6	0.9	1.0	2.0	2.6	2.1	1.0	0.4	0.3	0.1	1.3	1.7	1.4	1.0	17.6
	3.1 - 4.0	0.5	0.3	0.3	0.2	0.4	0.9	0.9	0.7	0.2	0.0	0.1	0.2	0.6	1.4	2.0	0.8	9.5
	4.1 - 5.0	0.0	0.1	0.4	0.0	0.1	0.5	0.3	0.1	0.3	0.1	0.0	0.2	0.5	2.1	2.2	0.5	7.7
	5.1 - 6.0	0.0	0.0	0.2	0.2	0.2	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.5	2.6	2.2	0.1	6.6
	6.1 - 7.0	0.0	0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	1.4	0.2	4.6
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	1.1	0.0	3.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.6	0.0	1.7
	9.1 - 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	0.0	0.4	0.3	0.0	0.9
	10.1 - 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	0.0	0.2	0.0	0.0	0.2
	11.1 - 12.0	0.0	0.0	0.1	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	0.1
	12.1 - 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	0.0	0.0	0.0	0.0	0.0
	13.1 - 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	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 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	0.0	0.0	0.0	0.0	0.0
	16.1 - 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	0.0	0.0	0.0	0.0	0.0
	17.1 - 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	0.0	0.0	0.0	0.0	0.0
	18.1 - 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	0.0	0.0	0.0	0.0	0.0
	19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	3.1	3.2	4.7	5.5	6.1	10.5	12.2	9.3	5.5	2.3	1.8	1.4	4.5	14.1	12.3	3.7	100.0
	Average Speed	2.0	1.9	2.4	1.7	1.8	2.2	1.9	1.8	1.8	2.4	1.8	2.6	3.9	5.2	4.9	3.0	2.9

Figure 2. Monthly Wind Rose, Drummond Site

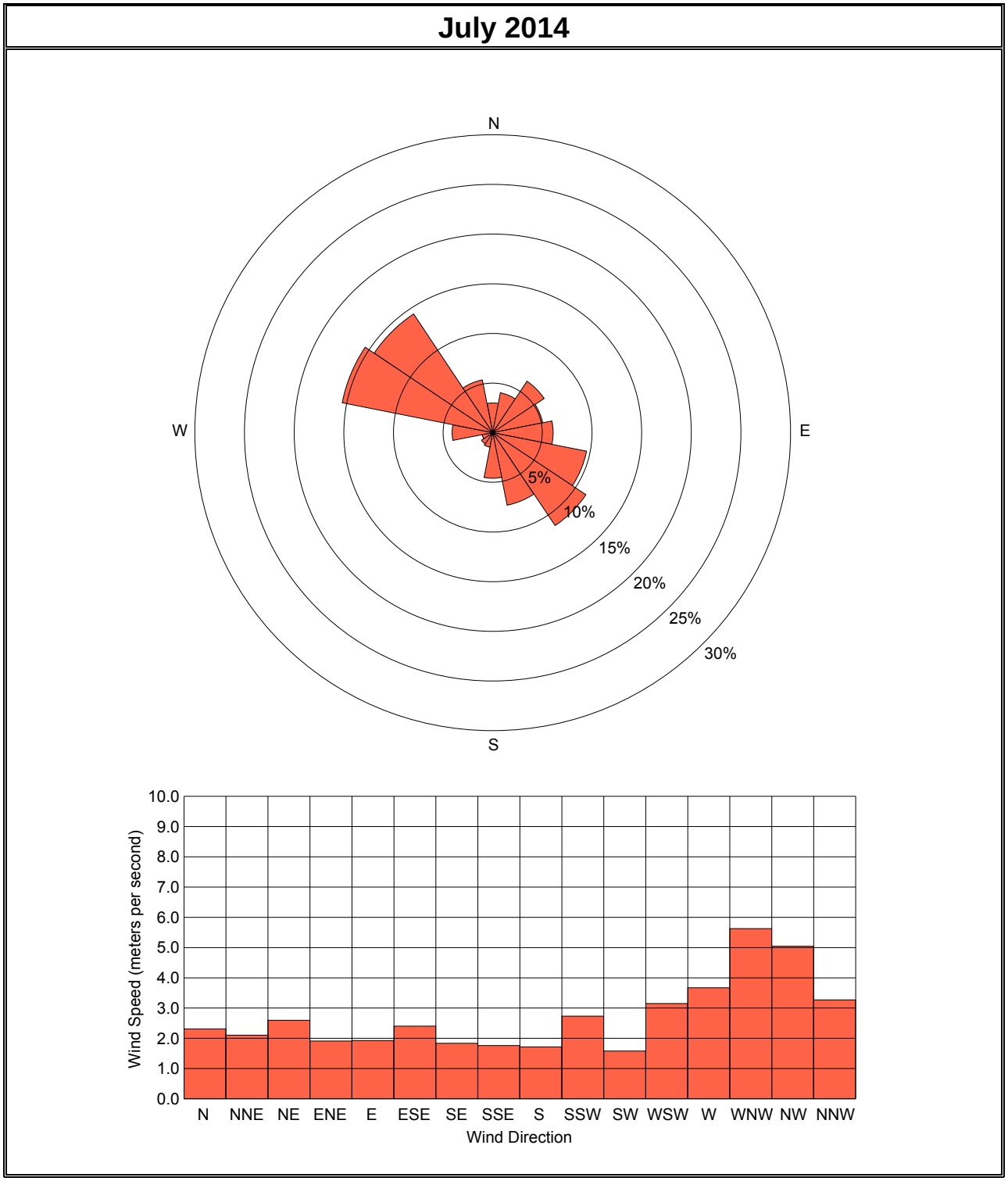


Figure 3. Monthly Wind Rose, Drummond Site

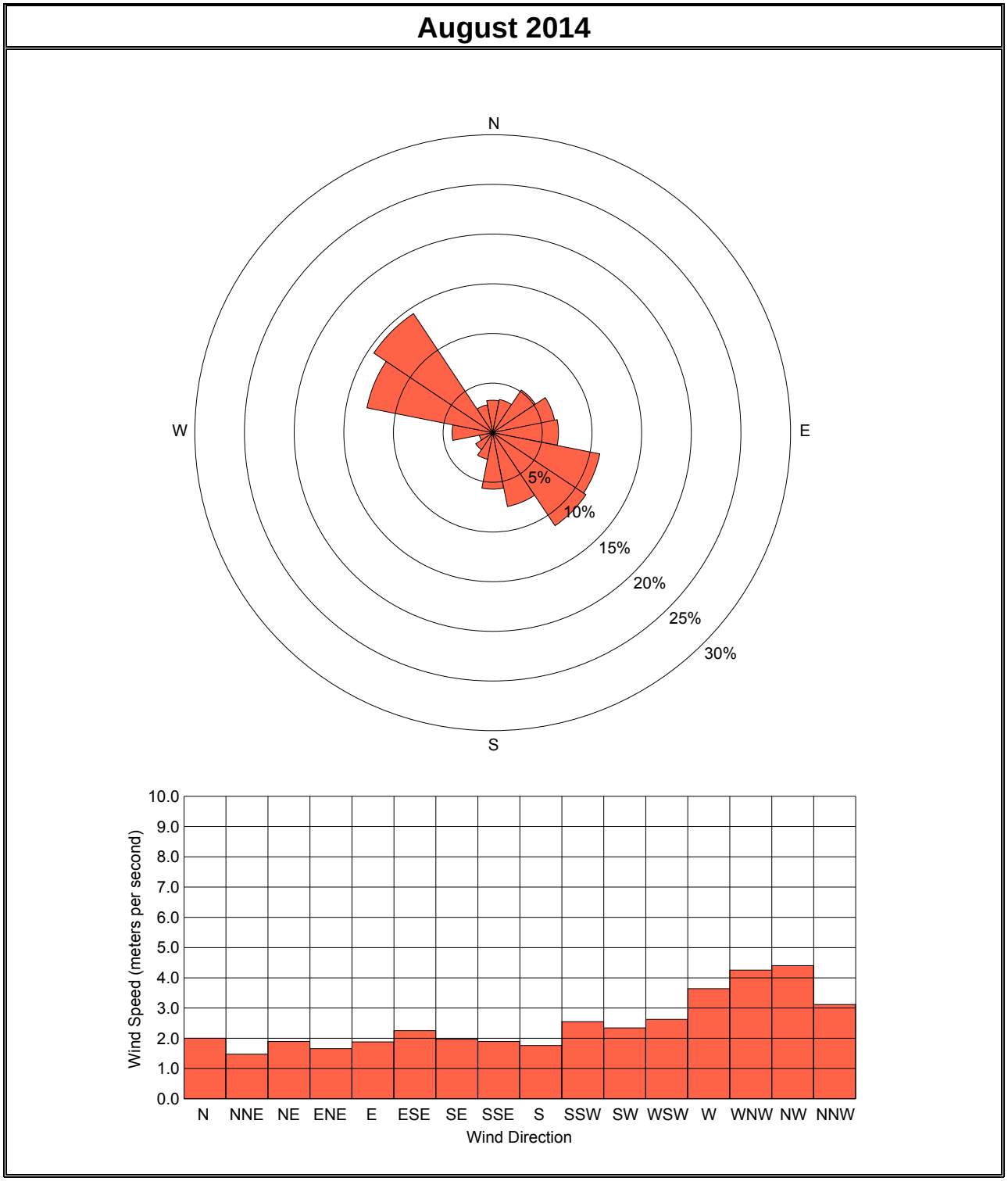


Figure 4. Monthly Wind Rose, Drummond Site

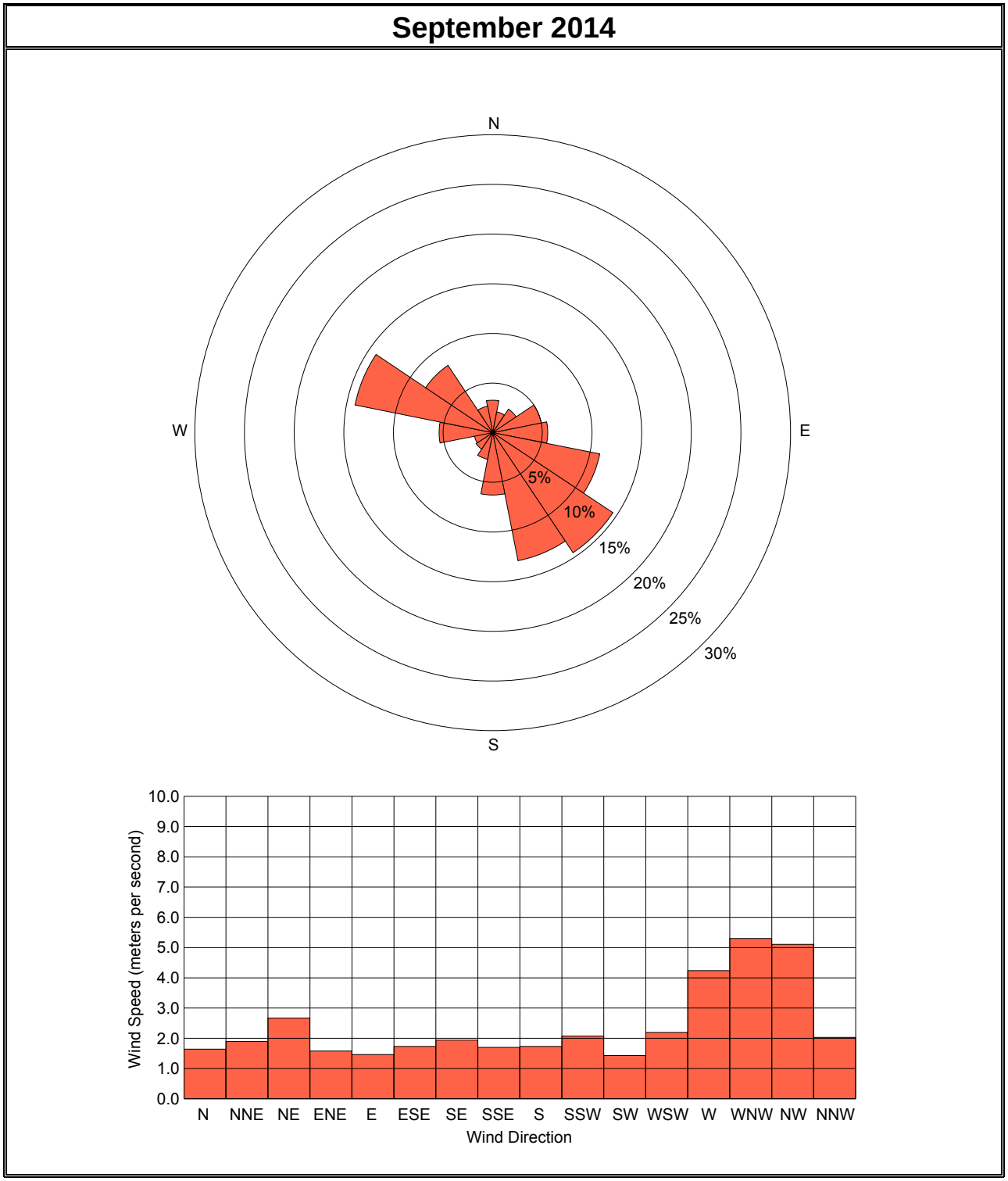
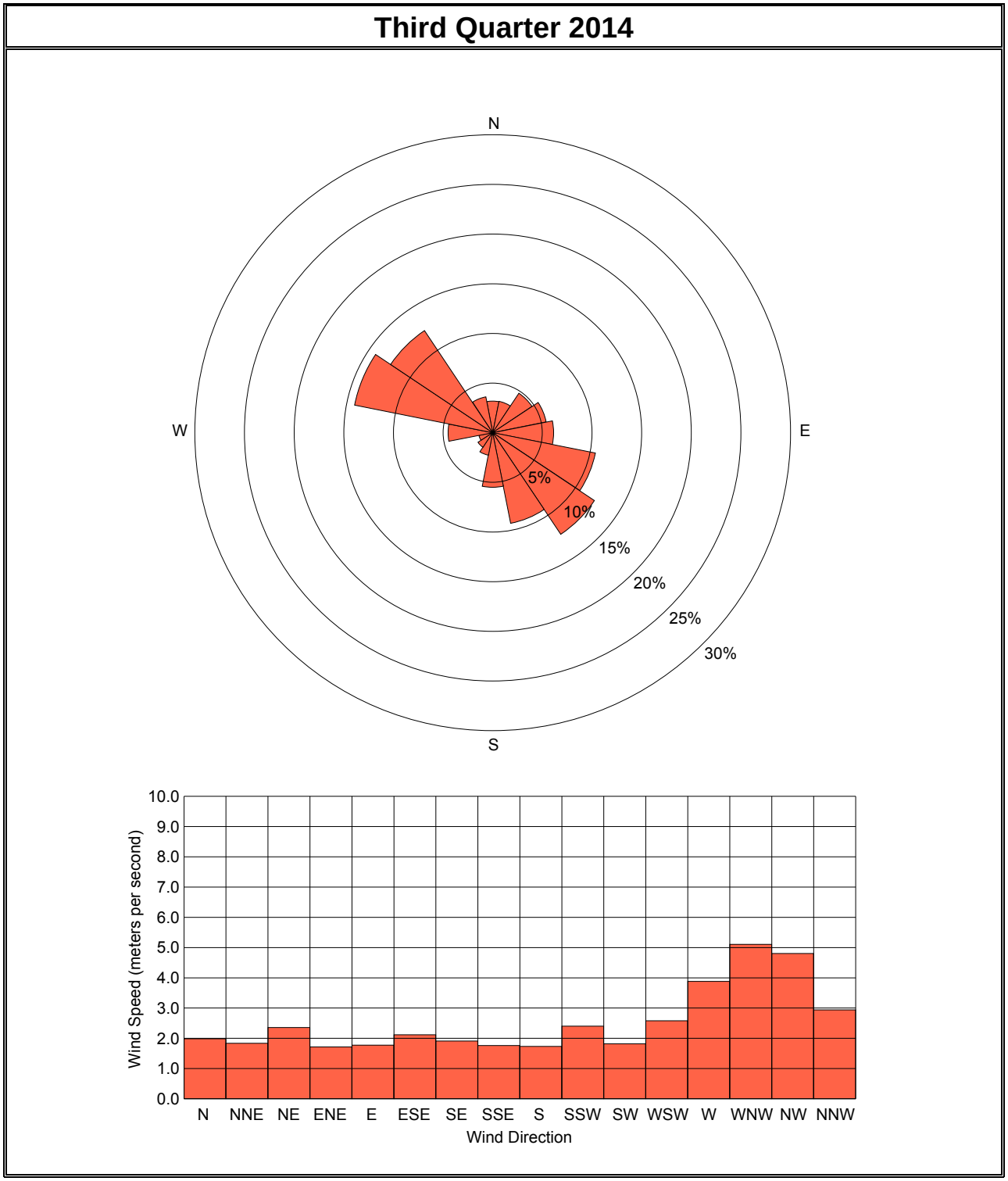


Figure 5. Quarterly Wind Rose, Drummond Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, THIRD QUARTER 2014

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.4	0.8	1.2	0.8	0.7	0.8	1.1	1.8	1.6	1.7	3.4	5.0	4.5	3.8	4.3	3.6	2.2	3.0	4.4	3.7	3.3	2.5	3.1	2.4	2.5	5.0	0.7
2	0.8	0.9	1.3	0.8	1.5	0.8	1.2	1.5	2.2	2.6	2.3	2.4	1.5	2.2	2.8	3.2	2.3	2.6	3.1	2.3	3.7	4.3	8.8	4.6	2.5	8.8	0.8
3	2.9	1.6	1.3	2.7	2.7	0.9	2.3	2.0	2.7	2.4	1.8	1.6	2.5	2.5	3.1	3.2	4.7	5.9	5.8	5.5	5.1	2.6	1.3	1.2	2.8	5.9	0.9
4	1.2	1.2	1.8	0.8	1.1	1.2	1.3	1.2	3.5	1.4	2.3	1.3	1.3	2.4	4.0	3.8	2.7	4.0	4.0	4.1	5.1	4.6	1.6	1.4	2.4	5.1	0.8
5	1.2	0.7	1.3	0.7	0.5	1.1	0.9	1.4	1.7	1.8	4.2	6.8	7.8	7.6	8.4	8.0	8.1	7.2	5.8	6.1	6.4	6.9	5.8	1.4	4.2	8.4	0.5
6	1.1	0.9	0.9	1.1	1.5	2.0	1.1	1.3	1.7	2.1	2.2	3.8	5.9	7.2	7.5	7.1	7.4	7.5	6.0	5.5	6.7	6.2	5.8	5.1	4.1	7.5	0.9
7	3.0	2.8	2.8	1.8	0.8	0.6	0.9	1.3	1.5	2.3	2.8	2.7	3.2	3.3	3.1	2.5	2.9	3.3	4.9	2.9	2.9	2.9	1.6	1.2	2.4	4.9	0.6
8	1.3	1.4	1.1	1.0	0.5	0.6	1.2	1.4	1.5	1.7	2.7	3.1	2.1	3.1	3.2	2.8	4.1	3.1	3.8	4.6	2.9	3.7	3.0	1.2	2.3	4.6	0.5
9	1.2	0.9	1.1	1.0	0.9	1.0	1.2	1.3	1.5	1.4	2.2	3.6	6.2	8.0	8.4	8.1	7.0	5.5	4.6	4.5	2.4	2.4	1.2	1.0	3.2	8.4	0.9
10	0.8	1.2	1.0	1.3	0.9	0.8	0.8	1.2	1.3	1.8	2.6	2.8	2.8	4.6	5.5	5.8	7.3	6.8	6.8	7.0	6.4	6.6	4.4	1.4	3.4	7.3	0.8
11	2.1	1.2	1.0	1.5	1.7	1.5	3.7	4.9	4.7	5.1	3.4	2.7	4.3	2.7	3.0	4.2	2.8	4.4	5.7	4.6	3.2	1.7	1.0	1.8	3.0	5.7	1.0
12	1.7	1.6	0.8	0.9	0.8	0.8	0.9	1.2	1.5	1.9	2.3	2.1	2.5	2.9	2.9	3.9	3.6	3.9	3.8	2.2	1.9	3.1	1.2	1.0	2.1	3.9	0.8
13	0.9	0.8	0.9	0.9	0.9	0.8	0.8	1.5	1.6	1.7	1.9	1.9	2.8	3.5	4.7	3.4	3.5	3.0	3.8	5.4	5.0	5.0	2.6	3.5	2.5	5.4	0.8
14	2.7	1.7	2.4	2.1	3.1	0.8	1.2	0.9	1.7	1.7	2.9	6.5	8.8	8.1	8.3	6.9	6.8	5.2	4.1	6.4	5.7	4.3	4.2	4.2	4.2	8.8	0.8
15	2.4	1.7	1.0	1.2	1.0	1.7	0.8	1.2	0.8	1.4	2.0	2.9	4.1	6.7	4.7	3.7	4.9	4.6	2.1	0.9	0.9	1.4	2.4	2.5	2.4	6.7	0.8
16	0.6	1.1	0.8	1.7	1.6	0.5	0.6	1.1	1.2	1.8	2.0	2.1	2.1	3.3	4.7	5.3	5.1	4.8	3.4	2.7	2.6	2.8	0.9	0.9	2.2	5.3	0.5
17	1.0	1.3	0.9	1.2	1.4	1.4	1.1	1.6	2.0	1.9	2.0	2.1	2.6	2.8	3.5	6.1	6.7	7.9	9.1	8.1	6.8	5.6	4.2	3.3	3.5	9.1	0.9
18	2.6	0.9	1.0	0.8	0.8	1.0	1.1	0.9	0.9	1.0	2.9	6.6	8.3	7.5	8.6	6.3	7.0	6.1	4.8	3.8	2.9	4.3	2.9	1.6	3.5	8.6	0.8
19	3.7	3.1	3.0	1.1	1.6	1.3	1.2	0.8	1.1	1.9	6.2	7.9	7.7	8.9	8.2	8.3	8.6	8.1	6.7	5.5	2.9	2.3	2.9	2.7	4.4	8.9	0.8
20	1.8	0.9	0.8	1.8	3.9	3.0	2.2	3.3	4.6	6.6	6.2	6.2	5.7	7.2	8.3	8.0	6.9	7.1	7.1	6.8	6.0	5.6	3.1	1.8	4.8	8.3	0.8
21	1.2	2.9	4.7	1.8	1.8	1.3	1.7	1.4	2.9	3.0	2.8	4.0	3.5	7.1	6.9	8.7	7.9	7.6	9.2	5.7	3.2	3.9	2.9	2.4	4.1	9.2	1.2
22	0.9	0.9	0.6	0.6	0.9	0.8	1.7	1.2	1.1	1.7	2.4	2.5	2.5	3.1	3.5	3.1	3.1	3.4	2.6	3.1	4.8	2.5	1.3	1.4	2.1	4.8	0.6
23	1.9	1.2	8.9	4.7	4.7	1.7	1.4	3.5	2.0	3.8	2.5	1.4	2.2	2.8	3.0	2.6	2.5	3.6	7.1	6.3	4.5	2.8	3.1	4.4	3.4	8.9	1.2
24	10.0	10.4	9.8	9.4	8.7	8.5	6.0	4.7	4.5	7.6	10.2	8.5	7.0	6.8	7.1	7.8	8.6	8.0	8.5	7.0	6.3	5.7	4.4	5.9	7.6	10.4	4.4
25	6.5	7.0	4.7	2.3	1.1	1.2	1.3	1.4	6.8	7.7	7.6	7.2	7.8	8.9	8.8	7.4	7.5	7.2	7.5	6.6	5.4	3.8	3.8	2.8	5.5	8.9	1.1
26	1.3	1.1	1.0	0.8	0.8	0.8	1.0	1.2	1.5	1.7	2.9	3.2	4.2	5.6	5.5	4.5	4.2	4.1	4.3	3.1	1.7	2.5	1.3	1.0	2.5	5.6	0.8
27	1.0	1.4	0.6	1.6	1.0	1.1	1.7	1.3	1.7	2.2	1.9	1.6	1.9	3.3	3.5	3.4	3.0	4.7	3.7	2.1	1.9	3.3	1.7	1.3	2.1	4.7	0.6
28	1.5	0.9	1.0	0.9	1.0	0.6	1.3	1.2	1.6	1.5	2.1	1.9	2.2	2.8	2.3	4.3	2.9	1.7	1.9	2.1	4.3	4.9	3.0	1.3	2.0	4.9	0.6
29	0.8	1.3	0.9	1.3	1.0	0.8	0.8	1.5	2.4	2.3	2.1	2.6	2.4	2.8	3.6	6.2	5.7	4.6	5.0	2.8	3.4	1.4	1.0	1.6	2.4	6.2	0.8
30	0.9	0.6	1.3	1.1	0.8	1.3	0.8	1.1	1.8	1.9	2.4	2.0	2.8	4.7	3.9	4.0	3.9	3.8	4.8	5.7	3.5	3.6	2.1	1.5	2.5	5.7	0.6
31	1.3	1.1	1.2	1.1	1.9	1.8	1.2	1.4	1.6	1.7	2.5	2.6	3.2	3.1	5.9	3.3	2.6	6.5	9.7	5.3	1.9	2.0	1.5	1.5	2.7	9.7	1.1
Avg	2.0	1.8	2.0	1.6	1.7	1.4	1.4	1.7	2.2	2.6	3.2	3.6	4.1	4.8	5.2	5.1	5.0	5.1	5.3	4.6	4.0	3.7	2.8	2.2	3.2	7.0	0.9
Max	10.0	10.4	9.8	9.4	8.7	8.5	6.0	4.9	6.8	7.7	10.2	8.5	8.8	8.9	8.8	8.7	8.6	8.1	9.7	8.1	6.8	6.9	8.8	5.9	7.6	10.4	4.4
Min	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	1.0	1.8	1.3	1.3	2.2	2.3	2.5	2.2	1.7	1.9	0.9	0.9	1.4	0.9	0.9	2.0	3.9	0.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.9	1.1	0.8	1.2	1.5	1.0	1.1	0.9	2.0	2.0	1.8	1.9	3.8	3.9	3.5	5.6	5.3	11.3	7.2	3.8	2.6	3.4	2.5	2.0	3.0	11.3	0.8
2	1.5	1.6	1.3	0.8	0.7	1.0	0.8	1.1	1.5	1.3	1.8	1.8	1.6	3.3	4.2	4.1	3.5	2.8	2.1	1.7	1.9	1.1	1.9	1.2	1.9	4.2	0.7
3	2.4	2.2	4.6	3.7	2.2	1.1	1.5	1.8	1.3	1.2	1.6	1.7	2.1	2.6	3.0	2.5	4.2	4.8	3.6	3.5	4.2	3.0	1.3	1.6	2.6	4.8	1.1
4	1.2	0.9	1.1	0.7	1.0	0.6	1.0	0.6	1.0	2.0	2.0	2.5	3.1	6.9	7.1	8.6	4.3	3.9	2.9	3.2	3.3	4.0	2.0	1.5	2.7	8.6	0.6
5	1.0	1.2	0.9	0.7	1.3	0.8	0.6	1.2	1.5	1.5	1.7	1.9	2.2	3.6	2.1	2.7	4.1	3.3	2.8	2.9	3.0	2.4	1.6	1.0	1.9	4.1	0.6
6	0.9	0.9	1.4	1.0	0.5	0.6	0.6	1.6	1.2	2.1	1.8	2.6	2.7	2.6	3.1	3.9	4.2	5.0	3.8	3.6	3.8	4.2	1.6	1.3	2.3	5.0	0.5
7	1.6	1.2	0.8	0.9	0.6	0.9	1.5	1.3	2.1	1.5	2.1	2.4	2.7	3.2	3.6	3.2	4.4	4.4	5.1	5.1	4.9	6.0	2.4	1.1	2.6	6.0	0.6
8	1.0	0.8	1.2	1.8	1.6	1.0	0.8	1.1	1.2	3.3	3.0	2.4	3.3	3.2	4.2	3.3	5.3	8.5	4.8	2.2	2.1	1.7	1.8	2.8	2.6	8.5	0.8
9	1.4	1.0	1.2	0.7	0.6	0.9	1.8	1.6	1.4	1.5	1.5	1.6	1.9	2.6	2.0	2.3	2.6	2.5	1.7	2.6	1.4	1.4	1.4	1.3	1.6	2.6	0.6
10	1.4	0.7	1.3	0.8	0.8	0.6	0.7	1.0	1.3	2.0	1.7	2.1	2.9	5.2	5.6	5.1	5.3	5.1	3.5	3.6	4.0	2.9	1.3	1.5	2.5	5.6	0.6
11	1.4	0.6	1.1	1.2	0.8	0.7	1.0	1.4	1.6	1.5	1.8	2.4	2.5	2.1	2.3	3.0	3.0	2.0	1.2	2.9	4.1	3.0	2.1	2.1	1.9	4.1	0.6
12	1.5	1.5	1.1	0.9	0.7	0.9	0.8	1.1	1.3	1.7	1.5	2.5	6.0	5.6	4.9	3.5	3.2	3.0	2.0	0.8	2.3	2.0	4.0	7.7	2.5	7.7	0.7
13	5.9	3.4	1.9	2.1	1.1	1.1	0.8	0.9	1.9	1.6	2.6	2.8	2.6	4.2	4.1	5.4	9.5	9.8	4.1	2.0	1.3	1.3	1.4	0.7	3.0	9.8	0.7
14	2.5	1.3	1.0	1.3	0.9	0.7	0.5	1.1	2.9	2.8	2.4	2.0	2.5	2.8	2.3	2.8	2.6	3.2	9.5	3.6	2.8	1.4	2.8	4.1	2.5	9.5	0.5
15	2.2	3.0	2.9	2.4	1.9	1.3	0.9	1.2	2.3	3.0	4.8	2.7	1.8	2.4	2.4	2.3	5.9	7.6	8.3	6.0	4.8	5.1	3.4	2.3	3.4	8.3	0.9
16	1.5	1.6	0.8	0.8	1.1	0.8	0.9	1.0	1.4	1.7	4.3	6.7	6.4	6.8	6.0	5.6	5.8	6.2	6.0	5.3	4.3	3.7	2.6	1.8	3.5	6.8	0.8
17	1.0	1.3	2.1	0.9	0.8	1.2	0.6	1.1	1.3	1.7	5.4	6.0	5.5	6.0	5.7	5.1	5.2	5.0	4.2	4.2	4.8	4.1	1.7	1.0	3.2	6.0	0.6
18	1.2	1.4	1.1	0.7	1.9	1.1	1.1	1.2	1.8	2.2	1.7	1.8	3.1	4.3	5.9	6.9	6.0	6.1	5.0	3.8	3.2	2.9	1.0	0.8	2.8	6.9	0.7
19	0.7	1.0	1.1	0.7	0.9	1.1	1.0	1.5	1.7	1.5	2.0	3.4	5.0	5.9	6.1	5.9	5.3	5.3	8.0	9.3	5.0	2.6	1.6	1.5	3.3	9.3	0.7
20	1.0	1.6	3.8	5.6	2.3	2.1	1.1	1.1	1.5	1.8	3.9	4.8	5.6	7.3	6.5	4.3	2.9	5.7	6.9	4.9	5.0	6.5	5.8	2.9	4.0	7.3	1.0
21	1.2	2.1	2.0	1.0	1.3	1.4	1.4	1.0	1.5	1.9	2.6	2.5	2.3	2.5	3.0	3.9	8.0	5.1	3.1	2.9	1.6	1.7	1.0	3.4	2.4	8.0	1.0
22	3.4	2.5	4.4	2.5	2.0	1.0	1.0	1.9	1.2	0.9	1.2	1.5	2.6	5.3	5.6	3.8	6.3	6.3	5.6	6.0	4.2	3.5	2.2	2.6	3.2	6.3	0.9
23	2.8	1.8	0.8	0.6	0.8	0.8	1.5	2.3	4.8	5.3	5.7	5.9	5.5	5.1	4.0	4.7	3.9	3.3	2.5	1.5	1.8	1.6	1.8	0.6	2.9	5.9	0.6
24	1.2	1.3	0.8	0.7	0.8	0.5	0.7	1.0	1.0	1.2	1.2	1.4	1.4	1.5	1.2	1.3	1.4	2.3	5.6	4.6	4.7	3.2	2.8	2.6	1.9	5.6	0.5
25	2.4	2.5	2.1	1.3	1.7	0.7	1.0	1.9	2.1	1.7	2.9	2.9	2.2	2.4	2.4	2.4	2.2	2.2	2.5	1.0	1.0	1.0	0.7	1.2	1.9	2.9	0.7
26	1.1	0.9	0.9	1.0	0.9	0.6	0.4	1.0	1.1	1.8	2.0	1.7	2.6	2.8	3.2	3.6	4.2	5.3	5.1	5.0	3.9	1.0	1.1	0.7	2.2	5.3	0.4
27	0.6	1.0	0.8	1.1	0.6	1.1	0.8	0.8	1.3	1.4	1.9	1.9	4.1	3.7	4.4	5.5	5.7	3.7	3.3	3.1	2.1	1.0	0.8	1.0	2.2	5.7	0.6
28	0.9	0.8	1.6	1.2	1.2	0.8	0.8	0.7	1.3	1.5	1.3	1.8	4.6	6.0	6.4	7.1	6.7	6.6	5.8	5.8	6.3	6.3	5.7	3.8	3.5	7.1	0.7
29	3.0	1.2	1.3	1.8	1.5	1.0	1.1	1.8	1.3	1.7	1.4	1.5	1.8	2.4	2.4	2.3	4.7	4.6	5.0	5.0	5.1	2.3	1.5	3.3	2.5	5.1	1.0
30	1.4	1.3	7.1	6.6	4.2	2.7	1.6	1.9	3.2	4.7	5.5	5.3	6.5	6.6	7.9	7.5	6.4	6.2	5.6	4.8	3.1	3.1	2.2	1.2	4.4	7.9	1.2
31	2.7	5.0	2.9	3.9	4.6	5.2	2.4	2.3	3.3	5.9	5.7	4.7	5.4	7.1	7.6	7.4	6.3	7.3	4.9	5.3	4.7	4.3	3.3	3.0	4.8	7.6	2.3
Avg	1.7	1.6	1.8	1.6	1.4	1.1	1.0	1.3	1.8	2.1	2.6	2.8	3.4	4.2	4.3	4.4	4.8	5.1	4.6	3.9	3.5	3.0	2.2	2.1	2.8	6.6	0.8
Max	5.9	5.0	7.1	6.6	4.6	5.2	2.4	2.3	4.8	5.9	5.7	6.7	6.5	7.3	7.9	8.6	9.5	11.3	9.5	9.3	6.3	6.5	5.8	7.7	4.8	11.3	2.3
Min	0.6	0.6	0.8	0.6	0.5	0.5	0.4	0.6	1.0	0.9	1.2	1.4	1.4	1.5	1.2	1.3	1.4	2.0	1.2	0.8	1.0	1.0	0.7	0.6	1.6	2.6	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.6	2.0	3.2	2.0	1.3	2.5	1.6	1.1	2.0	6.0	5.7	5.4	5.6	6.0	6.1	6.0	6.4	5.8	4.9	5.2	7.0	7.1	6.0	2.9	4.4	7.1	1.1
2	0.9	0.8	1.0	0.9	0.7	1.1	0.6	0.7	1.9	1.4	1.6	2.2	3.0	4.0	7.2	6.9	6.3	5.3	5.2	5.4	5.3	1.5	0.9	0.8	2.7	7.2	0.6
3	1.1	0.7	1.2	0.8	2.6	4.9	9.2	8.9	8.9	8.9	6.2	5.3	6.4	6.9	8.4	9.7	7.7	7.9	10.0	6.3	5.9	5.5	3.5	1.4	5.8	10.0	0.7
4	1.7	2.5	1.9	1.2	2.8	1.3	1.1	1.3	1.0	1.3	2.3	1.9	2.0	2.2	2.9	2.7	2.1	2.3	2.6	2.5	3.1	1.3	0.9	0.8	1.9	3.1	0.8
5	0.8	0.8	0.6	0.6	0.9	1.0	1.2	1.4	1.3	2.2	1.9	1.6	2.1	2.1	2.0	2.1	2.8	2.5	2.1	0.7	1.4	1.1	0.8	0.9	1.5	2.8	0.6
6	1.1	0.9	0.6	0.8	0.8	0.8	0.4	1.4	1.4	1.8	1.6	1.9	1.8	1.6	1.5	1.9	2.1	3.0	1.7	0.7	1.4	0.9	1.1	1.2	1.3	3.0	0.4
7	0.8	0.7	1.3	0.9	1.3	1.5	1.3	1.3	1.9	2.1	1.8	1.6	2.0	4.4	6.3	6.4	5.8	7.6	5.1	3.8	2.7	1.5	0.9	0.9	2.7	7.6	0.7
8	0.6	0.9	1.7	1.4	0.6	0.9	0.5	0.9	1.3	1.3	1.5	1.8	3.2	5.0	7.0	6.4	6.6	6.6	5.7	4.1	4.8	1.7	1.1	1.0	2.8	7.0	0.5
9	1.6	2.5	3.3	2.6	2.9	2.9	2.5	3.2	2.8	1.6	1.7	2.0	3.1	3.3	5.4	7.4	7.1	6.7	7.5	3.3	1.7	6.2	5.1	4.1	3.8	7.5	1.6
10	3.2	3.0	2.8	2.0	1.4	1.4	1.5	1.7	1.3	1.9	1.9	2.8	6.9	6.3	5.7	6.3	6.4	4.1	2.7	4.7	4.9	3.4	1.9	2.2	3.4	6.9	1.3
11	1.4	2.6	1.5	1.1	1.2	1.0	1.3	1.2	2.8	2.6	3.2	3.9	2.8	2.7	2.7	2.3	2.2	1.9	1.8	1.6	1.8	1.4	1.4	1.0	2.0	3.9	1.0
12	0.9	0.6	1.0	0.9	0.6	0.7	0.9	0.7	1.2	1.9	2.1	2.0	1.6	2.1	1.8	2.2	2.6	3.6	1.8	3.6	3.9	2.0	1.1	2.5	1.8	3.9	0.6
13	1.7	1.7	2.2	2.5	1.3	1.8	1.4	1.3	2.4	2.3	2.1	2.5	1.9	2.4	2.0	1.8	2.2	1.4	1.5	1.5	1.9	1.0	1.2	0.9	1.8	2.5	0.9
14	0.6	0.6	0.7	0.8	0.6	1.1	0.6	0.8	1.5	1.8	1.6	1.5	1.8	3.0	3.7	4.6	4.5	4.1	2.7	1.6	1.9	1.6	1.8	1.1	1.9	4.6	0.6
15	0.8	1.1	0.8	0.8	0.8	0.9	0.6	1.0	1.2	1.3	1.7	1.7	2.2	2.1	1.6	5.0	5.4	4.8	3.7	2.8	1.7	1.5	0.9	0.8	1.9	5.4	0.6
16	0.8	1.4	2.0	0.8	1.0	1.4	1.2	1.0	1.1	1.2	1.1	2.0	1.2	1.7	1.6	2.9	2.8	3.3	5.4	1.7	1.0	1.4	1.0	0.8	1.7	5.4	0.8
17	0.7	0.6	1.3	0.4	0.6	1.1	1.8	1.3	1.3	1.5	1.9	2.4	2.3	1.5	2.1	2.2	1.0	1.3	1.5	1.6	1.0	1.1	1.3	0.7	1.4	2.4	0.4
18	0.6	0.7	1.1	1.0	1.8	1.7	1.3	1.6	1.8	1.9	1.4	2.4	1.7	1.8	1.8	2.6	4.1	3.7	4.9	6.7	7.0	7.5	6.4	4.5	2.9	7.5	0.6
19	4.6	2.9	3.2	4.7	4.3	4.2	4.3	3.9	4.9	5.2	5.1	4.7	6.6	6.4	5.4	5.0	6.2	5.6	3.7	2.8	2.5	1.7	2.2	2.0	4.3	6.6	1.7
20	1.4	2.3	1.3	1.7	1.0	0.8	1.5	1.5	1.5	2.3	1.9	1.5	2.1	2.2	2.0	2.1	1.9	2.0	1.0	1.1	2.0	0.9	1.3	0.7	1.6	2.3	0.7
21	0.5	0.4	0.6	0.6	0.7	0.7	0.7	1.0	1.3	1.7	2.1	2.5	2.9	3.5	2.0	2.0	2.0	1.5	2.6	1.8	0.9	0.7	0.6	1.0	1.4	3.5	0.4
22	0.9	1.2	0.8	1.0	0.8	1.1	0.5	0.5	1.5	1.7	1.5	1.6	2.2	2.2	2.2	2.8	4.3	4.9	4.1	4.7	1.8	0.9	1.4	0.8	1.9	4.9	0.5
23	0.9	0.8	1.4	1.4	0.4	0.6	1.2	1.1	1.7	1.7	2.0	1.8	1.8	3.2	3.5	5.3	4.0	3.5	4.1	3.6	2.3	2.1	2.1	0.7	2.1	5.3	0.4
24	0.7	0.5	1.1	0.4	0.4	0.4	0.3	0.7	1.1	1.4	Au	Au	Au	Au	Au	Au	Au	5.4	4.7	1.5	2.0	3.7	2.2	0.8	1.6	5.4	0.3
25	0.9	1.1	1.0	0.9	0.8	0.7	0.5	0.6	0.9	1.1	Ca	Ca	Ca	Ca	Ca	Ca	Ca	6.8	9.0	9.7	10.1	10.1	9.0	10.8	4.4	10.8	0.5
26	12.2	9.6	7.7	7.3	9.6	8.5	4.6	2.3	1.4	1.8	3.3	3.9	4.6	5.5	5.6	7.2	6.9	8.0	6.9	4.0	2.5	1.9	1.0	1.3	5.3	12.2	1.0
27	1.7	1.1	1.5	1.2	1.5	1.1	0.8	1.3	2.7	2.3	2.6	1.3	2.0	2.2	3.2	9.6	11.3	11.1	6.2	5.4	5.0	5.7	4.0	3.1	3.7	11.3	0.8
28	2.8	2.4	4.7	6.4	4.8	4.4	3.5	3.6	4.6	2.0	2.2	2.5	3.3	3.2	4.1	2.1	3.6	2.3	3.0	1.8	2.8	3.0	3.5	3.2	3.3	6.4	1.8
29	3.5	1.7	1.0	2.0	2.1	1.8	1.3	1.3	1.1	1.5	1.7	1.7	1.8	2.0	4.5	5.2	5.8	5.2	5.0	5.1	2.6	1.1	1.7	2.0	2.6	5.8	1.0
30	1.9	1.8	1.1	0.8	0.8	1.3	2.0	2.8	3.7	6.3	6.7	7.2	7.8	7.2	9.2	9.1	8.7	6.0	3.0	3.3	3.1	2.7	2.5	3.5	4.3	9.2	0.8
Avg	1.8	1.7	1.8	1.7	1.7	1.8	1.7	1.7	2.1	2.4	2.5	2.6	3.1	3.5	4.0	4.6	4.7	4.6	4.1	3.4	3.2	2.7	2.3	1.9	2.7	6.1	0.8
Max	12.2	9.6	7.7	7.3	9.6	8.5	9.2	8.9	8.9	8.9	6.7	7.2	7.8	7.2	9.2	9.7	11.3	11.1	10.0	9.7	10.1	10.1	9.0	10.8	5.8	12.2	1.8
Min	0.5	0.4	0.6	0.4	0.4	0.4	0.3	0.5	0.9	1.1	1.1	1.3	1.2	1.5	1.5	1.8	1.0	1.3	1.0	0.7	0.9	0.7	0.6	0.7	1.3	2.3	0.3

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
July 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	91	222	126	40	337	22	108	142	139	145	128	124	121	128	130	129	145	131	122	123	147	138	157	132	126
2	91	75	17	66	150	1	107	88	108	129	159	143	87	3	348	256	13	332	13	3	330	298	194	135	61
3	175	10	127	204	165	89	150	290	167	149	86	99	356	333	266	315	328	310	312	314	299	17	144	144	326
4	135	135	135	173	154	181	170	169	169	107	145	47	303	12	329	315	298	315	338	318	308	308	327	89	199
5	359	115	160	132	158	159	130	53	49	19	325	310	308	300	305	301	314	302	308	308	313	300	304	228	316
6	356	56	55	136	185	177	147	47	114	117	100	340	316	297	304	294	301	300	299	308	300	306	320	306	327
7	301	299	313	275	100	360	80	65	49	93	69	60	277	318	343	339	12	36	24	76	78	106	113	140	35
8	175	110	156	181	110	56	28	55	119	123	160	146	149	351	230	341	331	326	318	312	328	302	296	55	57
9	46	38	155	66	128	169	134	134	143	95	44	306	295	318	315	311	303	288	280	294	260	259	97	36	349
10	172	134	104	152	138	196	96	132	141	107	73	81	151	290	298	294	306	312	296	312	309	298	315	283	215
11	316	94	87	135	174	142	105	119	123	89	77	96	36	78	58	52	12	38	37	14	157	299	8	310	72
12	200	170	164	20	160	25	98	98	62	125	121	144	5	283	328	311	334	325	41	32	333	319	104	58	50
13	63	39	84	61	358	283	74	130	146	115	117	125	46	334	299	321	320	320	23	35	47	104	118	122	57
14	142	117	118	94	165	106	29	107	55	104	106	122	105	111	122	95	102	93	52	69	315	304	294	281	97
15	308	321	155	121	134	53	143	134	142	59	117	275	306	352	54	42	196	188	185	177	177	111	174	146	138
16	53	165	173	183	202	168	48	107	116	108	127	108	132	326	299	279	288	298	305	314	314	297	62	103	132
17	93	78	119	175	171	176	161	171	151	108	137	122	137	57	279	271	265	297	298	299	308	315	297	300	190
18	290	70	134	130	249	102	194	167	65	316	350	327	318	310	314	311	312	319	308	305	291	298	294	278	307
19	292	290	268	95	306	302	322	147	69	65	299	302	292	301	305	296	296	297	288	291	283	273	263	260	295
20	300	76	15	261	259	277	264	322	318	294	290	300	301	282	274	277	294	323	315	333	320	313	286	290	300
21	123	341	271	231	107	223	264	16	311	317	7	313	336	300	297	318	321	316	315	331	340	297	314	287	312
22	35	59	154	215	87	29	147	90	159	125	129	120	74	27	329	160	108	81	Co	340	268	208	30	78	95
23	343	225	283	241	247	323	37	136	85	94	106	119	109	91	176	115	91	200	305	324	310	136	309	283	127
24	294	300	300	296	295	298	302	289	300	297	307	292	287	287	297	301	297	312	317	314	309	305	286	291	299
25	298	291	268	316	40	92	96	75	291	296	300	302	291	299	291	304	301	295	300	300	302	286	282	293	303
26	293	46	33	108	205	139	135	81	87	73	34	246	240	310	313	330	324	331	332	325	324	260	359	17	349
27	123	151	336	159	148	180	149	132	134	147	125	138	44	353	353	358	358	27	13	334	209	278	112	341	94
28	151	21	159	216	116	346	166	162	134	26	71	131	154	171	100	320	315	297	109	6	311	303	24	166	110
29	130	56	53	61	132	245	78	127	154	150	121	136	70	343	52	54	71	51	38	74	122	147	227	110	95
30	174	143	145	31	174	159	136	117	139	137	135	158	155	181	249	290	270	233	156	98	135	159	125	93	152
31	82	158	85	82	173	185	169	143	138	116	121	133	110	331	330	325	350	340	41	41	125	310	335	160	98
Prev	74	81	122	138	158	144	120	113	117	102	98	115	17	330	313	317	323	321	337	340	305	292	318	348	24

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
August 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	119	24	149	185	150	116	131	137	140	114	122	120	105	135	131	143	110	210	249	112	119	77	170	313	132
2	271	192	5	79	52	150	66	52	59	117	112	14	149	183	183	178	107	147	162	146	132	124	111	180	125
3	169	17	319	280	298	154	294	153	97	90	99	132	53	77	295	337	329	339	357	349	315	313	34	268	353
4	94	324	123	72	43	113	21	28	103	129	163	107	110	124	120	167	170	131	137	48	263	115	128	3	105
5	86	23	67	133	171	180	105	47	124	91	119	130	113	73	359	337	342	350	316	327	328	323	58	97	61
6	72	143	185	133	40	72	75	142	64	138	114	125	122	319	317	310	314	307	291	313	298	307	20	81	51
7	33	72	191	176	75	144	163	141	161	130	107	112	5	356	301	264	316	308	317	313	305	294	44	36	36
8	119	109	227	308	78	139	216	207	94	154	148	136	122	132	111	112	181	208	170	246	314	120	291	186	157
9	97	165	44	318	252	112	166	163	155	123	130	123	126	74	91	314	311	355	37	345	316	44	103	65	86
10	41	83	147	192	35	28	71	117	115	111	117	110	311	317	317	333	318	320	318	328	323	268	46	18	21
11	19	45	73	32	34	254	162	164	133	130	131	130	130	151	43	96	100	93	280	2	305	344	130	177	98
12	20	9	10	77	61	14	198	136	65	103	118	49	269	285	255	300	95	124	145	163	163	107	111	123	95
13	109	161	173	181	186	187	234	95	133	141	152	122	104	122	128	148	214	315	291	269	305	144	158	245	166
14	137	78	216	184	131	204	188	152	90	217	133	141	84	97	46	112	106	37	280	288	311	309	286	314	142
15	330	279	292	283	217	198	127	68	339	256	303	321	1	95	40	292	297	297	309	308	307	314	301	275	304
16	275	245	355	296	277	138	161	91	91	41	303	295	319	303	293	297	317	321	315	315	308	282	293	297	304
17	155	295	302	154	334	175	43	129	110	73	299	300	313	307	284	275	295	285	295	313	335	331	354	247	304
18	131	161	155	175	234	167	138	118	136	121	111	96	350	318	321	309	302	310	312	319	305	320	119	157	166
19	65	103	124	39	103	165	170	140	138	73	60	14	306	302	305	299	291	299	307	316	227	271	6	284	342
20	13	265	310	280	326	284	77	96	99	64	324	304	311	313	319	323	328	79	121	165	193	Co	156	200	325
21	340	199	32	135	214	59	209	358	349	135	129	122	94	143	63	26	Co	124	155	192	22	331	53	90	93
22	100	162	100	179	227	233	181	213	11	313	298	309	47	45	48	74	40	51	58	60	91	109	154	220	89
23	202	193	192	355	273	22	286	281	288	293	292	289	291	287	284	299	302	295	293	304	128	187	206	128	275
24	164	191	181	76	176	60	128	150	46	29	49	91	57	22	22	24	137	120	136	132	123	101	110	94	101
25	90	115	113	235	163	111	34	134	135	108	140	127	147	159	99	153	139	183	225	126	155	76	113	59	129
26	99	83	185	168	180	55	138	126	119	123	124	86	60	274	319	315	308	309	312	316	306	83	82	293	80
27	91	127	89	119	94	165	159	150	95	99	104	79	309	331	311	303	296	272	290	306	294	66	122	152	99
28	117	210	171	193	178	188	188	152	131	127	110	69	321	287	290	282	291	292	313	310	309	308	302	299	248
29	293	23	134	188	171	175	150	117	126	120	138	75	60	65	8	107	245	308	311	314	300	1	40	324	76
30	4	66	308	293	330	287	292	282	321	324	317	290	302	287	306	287	286	306	302	305	304	290	291	49	308
31	295	288	276	314	298	305	273	294	285	289	279	279	272	278	276	278	282	317	297	302	299	292	315	302	291
Prev	83	119	146	177	164	148	153	130	102	110	118	93	40	357	340	309	302	315	295	314	302	348	78	277	84

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
September 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	262	251	249	278	304	281	205	50	274	289	287	280	288	295	292	294	296	305	298	309	296	300	301	285	287
2	351	70	107	202	200	153	214	87	132	113	80	52	357	253	289	276	275	294	311	323	318	359	353	122	342
3	167	46	153	125	318	286	308	301	313	313	302	282	295	297	316	308	304	303	296	307	314	297	283	300	301
4	282	302	241	321	291	228	148	138	145	98	130	290	47	65	1	5	349	325	316	332	313	341	110	146	336
5	134	112	159	160	132	161	185	135	79	144	109	126	110	86	79	131	176	168	182	163	91	68	25	148	130
6	137	129	123	127	160	114	83	131	133	132	123	123	142	70	112	153	148	174	159	133	73	125	138	162	130
7	102	336	166	176	194	177	179	154	147	138	104	137	61	283	287	276	286	295	288	276	275	32	123	138	188
8	87	134	175	188	103	163	329	159	141	116	119	82	336	278	259	279	287	293	304	310	288	16	41	30	331
9	47	161	169	174	157	179	212	158	140	133	137	139	126	123	303	305	304	317	323	122	146	118	125	123	148
10	153	130	109	123	222	154	159	95	184	139	136	233	316	285	297	315	334	318	37	117	152	170	150	166	158
11	240	266	331	304	17	35	298	1	116	143	129	129	128	148	197	90	133	179	166	143	136	68	120	152	133
12	178	164	160	222	1	169	192	74	69	123	133	163	177	161	129	343	294	307	350	324	313	253	138	136	163
13	114	124	113	135	119	147	115	119	111	123	138	126	108	151	144	141	160	163	105	265	138	131	123	115	131
14	84	70	97	81	118	158	166	72	120	124	114	98	126	323	354	326	319	320	329	317	148	141	162	184	101
15	108	5	47	65	357	3	41	132	98	115	112	120	143	131	75	297	313	315	318	319	63	107	33	103	61
16	69	204	195	188	164	177	135	250	102	132	80	149	129	63	24	335	225	6	197	144	166	69	120	63	134
17	221	119	174	107	189	176	187	167	123	94	120	161	177	157	155	144	137	189	203	157	59	141	142	159	154
18	166	189	154	21	151	229	189	327	212	272	161	186	72	106	113	172	290	283	298	300	298	306	308	291	233
19	290	281	283	289	287	266	269	293	295	277	290	285	288	284	279	276	277	270	273	275	276	287	279	287	282
20	257	293	252	183	195	359	195	159	77	144	117	96	121	175	78	193	177	170	219	90	165	345	145	16	159
21	337	57	75	151	103	101	167	72	99	121	91	143	155	163	155	179	174	147	138	146	75	78	118	34	118
22	37	349	31	160	253	150	149	83	126	125	136	148	139	148	149	148	280	298	287	294	333	100	168	2	133
23	143	151	160	216	219	100	164	117	146	133	138	131	111	130	122	125	128	104	175	142	159	162	167	56	141
24	121	175	159	132	110	147	185	150	103	119	Au	Au	Au	Au	Au	Au	Au	198	207	210	10	297	317	83	150
25	45	40	136	11	105	92	135	90	109	62	Ca	Ca	Ca	Ca	Ca	Ca	Ca	251	290	294	298	296	297	294	24
26	293	297	280	289	294	305	295	284	30	359	339	332	293	297	308	319	316	316	312	319	315	286	337	70	313
27	186	141	234	115	178	246	12	85	167	165	175	3	168	223	20	32	39	44	62	75	109	143	161	146	127
28	116	140	53	50	84	137	160	128	113	95	41	27	73	101	128	137	130	112	115	86	59	99	96	149	102
29	166	221	205	166	167	163	96	187	134	66	94	141	77	1	322	305	296	286	287	292	281	326	291	255	233
30	280	286	313	303	328	330	291	297	282	288	283	278	281	277	290	306	298	283	282	285	279	294	268	281	291
Prev	140	144	161	160	171	167	179	119	124	122	119	136	116	169	358	284	275	279	277	284	334	42	128	123	150

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	39	78	23	71	89	52	34	29	30	39	25	17	23	29	18	29	47	26	10	9	11	11	7	47	33	89	7
2	49	51	34	50	49	87	33	45	21	23	31	31	73	49	35	55	93	31	32	17	24	76	11	46	44	93	11
3	66	67	54	50	95	73	96	95	32	45	45	45	53	64	52	33	39	21	13	10	10	95	78	60	54	96	10
4	35	48	36	71	88	47	19	43	50	54	27	89	73	39	29	25	30	27	53	9	8	8	86	76	45	89	8
5	43	51	28	93	70	22	55	43	28	92	37	14	14	14	14	16	13	13	12	12	6	6	38	95	35	95	6
6	43	41	57	46	17	11	68	31	41	23	38	83	25	15	11	19	16	14	11	10	7	6	9	8	27	83	6
7	20	17	12	60	43	82	44	31	30	37	44	69	55	61	72	53	59	49	14	60	45	30	38	44	45	82	12
8	33	26	30	33	33	67	34	34	32	44	31	36	82	37	48	62	26	34	34	12	15	26	44	35	37	82	12
9	39	63	77	48	59	44	26	37	40	43	33	50	16	11	12	13	12	17	21	9	25	14	53	57	34	77	9
10	97	33	66	53	33	49	54	30	54	28	44	54	69	37	28	23	16	13	12	8	7	5	11	73	37	97	5
11	57	81	83	80	42	61	15	13	14	37	44	57	34	46	75	37	51	14	9	33	75	66	96	36	48	96	9
12	48	16	49	59	70	35	55	48	38	34	43	89	68	55	73	36	43	40	19	15	34	57	84	70	49	89	15
13	60	50	25	56	33	69	49	37	37	41	45	46	73	68	42	59	37	49	30	10	33	38	28	18	43	73	10
14	14	29	19	35	47	78	24	84	65	42	29	14	10	11	9	11	14	18	15	90	37	37	26	32	33	90	9
15	59	89	43	34	45	18	40	37	90	61	58	59	38	45	53	36	51	8	15	48	50	35	39	27	45	90	8
16	44	27	23	15	16	41	54	33	39	28	32	25	54	73	35	25	31	19	21	27	15	32	34	39	33	73	15
17	62	23	35	22	12	10	39	25	18	27	35	39	48	42	58	24	25	16	9	9	8	7	12	16	26	62	7
18	14	57	74	80	69	64	35	34	58	50	53	9	7	11	7	12	13	8	9	10	18	18	18	15	31	80	7
19	15	14	21	62	28	65	86	84	46	49	18	16	16	13	16	18	13	12	16	12	20	17	16	14	29	86	12
20	37	53	64	37	9	20	31	25	18	12	16	14	26	26	23	22	25	16	14	32	17	10	15	23	24	64	9
21	78	57	79	53	63	57	38	68	20	32	42	38	40	21	21	13	14	14	8	35	31	24	45	48	39	79	8
22	99	96	67	34	83	26	43	98	66	35	24	34	51	46	45	42	21	28	Co	83	80	73	42	80	56	99	21
23	65	72	29	61	76	94	82	38	47	23	38	86	63	23	35	47	54	66	18	18	57	69	33	29	51	94	18
24	7	6	6	6	6	7	7	12	15	12	11	18	20	23	16	13	13	14	8	9	8	7	23	13	12	23	6
25	4	5	22	47	31	39	60	67	14	11	15	17	16	15	14	16	17	14	11	9	6	19	18	21	21	67	4
26	79	58	33	91	95	45	46	38	42	47	58	57	41	39	22	32	30	34	30	39	62	23	64	72	49	95	22
27	82	29	74	17	19	20	19	23	20	23	42	58	65	40	44	67	42	22	30	40	78	27	83	71	43	83	17
28	77	71	50	87	40	98	22	58	59	73	77	42	37	57	62	30	31	58	61	32	11	25	79	33	53	98	11
29	76	60	99	45	52	83	49	43	15	20	27	31	53	51	40	17	17	18	13	18	26	30	74	71	43	99	13
30	41	37	58	26	24	26	33	41	22	23	22	46	35	12	88	62	24	22	51	9	29	38	40	23	35	88	9
31	43	58	54	54	30	24	35	26	22	33	21	25	45	56	36	41	50	46	12	47	60	48	83	26	41	83	12
Avg	49	47	46	51	47	49	43	44	36	37	36	42	43	36	37	32	31	25	20	25	29	32	43	43	38	84	11
Max	99	96	99	93	95	98	96	98	90	92	77	89	82	73	88	67	93	66	61	90	80	95	96	95	56	99	22
Min	4	5	6	6	6	7	7	12	14	11	11	9	7	11	7	11	12	8	8	8	6	5	7	8	12	23	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	88	51	60	53	30	44	32	82	20	29	38	34	17	30	36	14	13	20	38	53	83	61	48	48	43	88	13
2	60	48	94	53	63	54	42	30	40	67	34	90	96	20	34	25	24	19	9	24	20	39	40	68	46	96	9
3	28	84	81	24	50	70	67	25	83	59	39	42	33	57	75	86	37	37	37	38	24	51	92	86	54	92	24
4	55	71	45	45	53	69	29	62	62	30	41	29	35	11	8	47	75	66	30	93	67	50	60	29	48	93	8
5	60	72	81	95	53	52	69	28	43	54	45	49	49	48	46	49	40	45	30	33	16	33	51	81	51	95	16
6	57	42	15	49	59	48	87	18	59	27	33	34	70	62	58	61	38	16	15	12	11	50	47	69	43	87	11
7	34	64	60	35	74	32	12	21	17	43	34	51	63	51	48	72	32	23	25	9	11	4	87	47	40	87	4
8	50	80	81	73	87	45	40	55	98	21	13	24	16	24	18	32	77	63	29	93	65	64	70	43	53	98	13
9	79	37	78	69	72	32	15	15	44	31	39	41	41	42	87	54	76	51	29	30	57	84	44	56	50	87	15
10	25	44	37	86	36	90	54	33	30	26	28	39	69	33	26	24	24	12	24	33	18	47	76	54	40	90	12
11	42	53	52	44	61	89	33	48	24	36	30	30	28	37	91	31	22	23	46	52	19	15	87	22	42	91	15
12	55	28	40	43	63	46	54	75	63	43	78	60	33	17	51	87	32	55	36	53	53	88	31	30	51	88	17
13	12	22	13	19	47	52	51	48	22	41	36	34	45	29	24	14	53	7	28	22	40	62	54	66	35	66	7
14	35	101	30	24	85	54	87	88	69	60	25	42	29	34	69	81	42	32	39	55	57	70	51	47	54	101	24
15	55	58	20	13	70	64	62	50	80	70	14	58	85	39	38	39	12	8	8	7	7	8	23	38	39	85	7
16	57	76	55	86	87	58	54	48	60	56	25	15	13	17	14	21	16	9	7	6	6	12	33	42	36	87	6
17	60	52	52	55	79	25	90	34	31	48	30	19	26	26	22	25	20	19	16	7	14	11	94	86	39	94	7
18	90	16	47	35	21	37	33	38	29	26	48	67	57	44	25	16	17	16	11	11	13	46	42	65	35	90	11
19	66	40	38	34	65	20	36	22	66	55	34	97	28	18	16	16	18	12	24	6	42	72	47	78	40	97	6
20	57	70	54	66	53	78	93	59	44	43	32	19	15	12	19	30	44	64	12	12	47	Co	46	29	43	93	12
21	84	88	67	73	52	43	46	43	45	30	28	37	42	56	62	22	Co	52	31	22	41	41	96	35	49	96	22
22	22	50	13	59	33	97	30	17	39	100	62	84	55	13	12	41	11	12	20	18	41	38	98	66	43	100	11
23	69	39	34	62	36	37	38	29	8	6	6	6	6	7	14	6	15	14	13	34	55	15	7	70	26	70	6
24	21	15	34	64	51	59	60	54	66	27	46	86	57	42	44	60	62	18	7	8	9	14	8	10	38	86	7
25	8	20	54	38	44	85	40	28	30	41	23	32	42	40	51	45	44	20	51	42	83	54	72	42	43	85	8
26	39	39	56	63	23	75	81	37	48	23	24	51	59	88	49	32	21	13	7	5	37	56	48	69	43	88	5
27	52	52	78	51	63	19	21	58	50	35	29	69	31	27	21	23	13	22	14	6	46	45	60	41	39	78	6
28	49	67	11	36	22	28	26	34	28	34	48	49	54	23	22	20	15	11	9	12	7	7	8	19	27	67	7
29	15	82	40	29	18	16	39	37	39	36	61	46	54	37	39	76	55	18	8	5	7	94	41	66	40	94	5
30	62	58	18	14	16	17	37	31	14	14	17	21	20	19	17	19	19	15	11	9	10	13	47	54	24	62	9
31	59	15	31	24	15	10	23	31	23	16	20	22	23	18	22	21	19	12	11	8	7	9	21	20	20	59	7
Avg	50	53	47	49	51	50	48	41	44	40	34	44	42	33	37	38	33	26	22	26	33	42	53	51	41	87	11
Max	90	101	94	95	87	97	93	88	98	100	78	97	96	88	91	87	77	66	51	93	83	94	98	86	54	101	24
Min	8	15	11	13	15	10	12	15	8	6	6	6	6	7	8	6	11	7	7	5	6	4	7	10	20	59	4

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	13	12	8	30	29	25	81	64	47	13	17	23	24	18	17	18	15	14	9	9	6	6	6	9	21	81	6
2	51	85	42	52	42	17	48	38	21	40	43	39	77	60	16	22	23	14	11	5	14	56	40	71	39	85	5
3	44	74	25	101	51	13	12	6	10	13	21	24	20	21	10	13	19	12	9	17	10	15	21	50	25	101	6
4	31	10	73	47	15	103	44	44	48	49	52	66	70	83	40	55	61	26	20	20	15	38	51	44	46	103	10
5	39	35	75	56	17	43	34	27	54	25	31	61	52	61	56	56	37	15	13	58	89	32	61	47	45	89	13
6	51	49	74	28	30	42	61	21	22	24	45	38	37	81	82	68	34	18	19	56	47	56	43	49	45	82	18
7	60	41	60	21	28	29	31	29	15	23	29	43	66	50	22	23	21	11	15	18	13	51	69	68	35	69	11
8	80	40	29	17	59	25	66	41	20	31	38	54	83	30	25	26	22	11	9	16	6	74	97	69	40	97	6
9	64	14	17	9	12	18	20	15	17	44	54	40	29	34	40	15	17	23	15	96	45	9	11	12	28	96	9
10	18	26	10	27	54	17	26	31	48	30	29	93	20	20	33	30	43	36	77	30	8	15	21	36	32	93	8
11	72	20	23	64	27	49	31	51	38	20	42	34	52	34	43	38	44	25	15	10	24	56	23	35	36	72	10
12	40	64	25	65	66	44	76	53	34	32	33	34	71	32	75	41	26	17	32	17	27	81	34	43	44	81	17
13	29	31	30	16	42	29	25	26	18	32	41	46	72	40	59	59	25	28	73	57	26	32	30	28	37	73	16
14	46	23	56	57	49	21	44	42	36	24	35	44	74	38	34	21	18	16	20	58	52	47	12	22	37	74	12
15	35	17	28	44	49	23	59	24	38	42	31	44	29	26	57	38	14	9	7	31	34	79	63	76	37	79	7
16	67	18	18	72	49	16	71	53	56	54	73	27	65	45	33	30	63	18	56	46	67	63	62	77	50	77	16
17	90	34	18	51	24	36	12	20	27	51	39	24	19	37	19	26	70	56	40	62	32	31	21	65	38	90	12
18	31	73	36	56	79	100	84	63	57	90	33	59	90	58	42	30	27	17	11	7	6	9	8	12	45	100	6
19	17	22	18	13	15	22	23	12	14	23	21	19	19	17	22	21	21	21	21	27	22	31	19	66	22	66	12
20	75	83	56	46	60	71	64	36	62	22	40	48	41	52	54	31	27	13	32	75	39	63	74	69	51	83	13
21	90	90	85	39	53	37	97	53	50	45	35	24	19	18	44	34	23	36	19	37	29	48	83	41	47	97	18
22	33	23	39	71	78	44	56	62	21	21	33	24	13	13	18	18	70	9	12	12	43	35	28	81	36	81	9
23	26	56	35	51	69	91	43	72	18	30	25	39	79	79	22	19	12	18	25	38	9	10	11	53	39	91	9
24	37	55	18	82	62	59	79	25	48	50	Au	Au	Au	Au	Au	Au	Au	8	7	83	50	41	65	37	47	83	7
25	59	69	61	78	84	92	62	82	48	59	Ca	Ca	Ca	Ca	Ca	Ca	Ca	30	12	5	6	6	7	7	45	92	5
26	7	10	15	19	6	8	42	42	58	72	53	26	22	17	21	12	13	8	9	11	30	32	71	91	29	91	6
27	77	50	64	70	35	37	77	52	23	73	20	88	58	34	31	10	9	9	17	18	22	16	14	18	38	88	9
28	16	23	23	14	14	27	11	18	10	32	27	34	34	28	11	21	18	71	18	57	29	21	15	9	24	71	9
29	14	33	87	36	12	31	72	76	38	51	41	34	58	39	16	12	10	14	16	11	29	26	20	18	33	87	10
30	32	23	70	71	62	24	15	21	18	15	18	22	21	23	16	14	17	17	19	22	30	16	19	18	26	71	14
Avg	45	40	41	47	42	40	49	40	34	38	36	41	47	39	34	29	29	21	22	34	29	37	37	44	37	85	10
Max	90	90	87	101	84	103	97	82	62	90	73	93	90	83	82	68	70	71	77	96	89	81	97	91	51	103	18
Min	7	10	8	9	6	8	11	6	10	13	17	19	13	13	10	10	9	8	7	5	6	6	6	7	21	66	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.6	11.2	10.3	9.0	8.7	8.4	8.9	10.4	12.6	15.0	18.0	20.3	21.4	22.4	23.3	23.9	24.7	24.8	24.4	23.5	21.5	20.3	19.4	18.4	17.2	24.8	8.4
2	17.9	16.7	14.6	13.5	12.7	12.4	12.3	14.2	16.2	18.2	20.7	23.3	25.8	27.8	28.9	29.7	30.2	30.3	29.1	28.5	27.5	26.5	23.7	22.4	21.8	30.3	12.3
3	22.5	21.3	18.9	17.9	17.0	16.2	15.8	16.7	17.8	19.5	22.1	25.3	27.6	28.9	29.5	29.5	29.7	29.8	29.3	28.5	27.1	24.5	21.9	20.6	23.2	29.8	15.8
4	18.9	18.0	15.7	15.5	15.3	14.0	13.8	14.8	15.0	18.4	21.0	23.6	25.4	27.4	27.9	28.3	28.3	27.5	26.5	26.0	25.0	23.8	21.9	19.4	21.3	28.3	13.8
5	17.6	17.3	15.0	15.0	14.9	13.5	14.4	15.9	18.6	21.8	24.0	24.7	25.2	26.0	26.5	26.7	26.7	26.8	26.6	25.9	24.5	23.5	22.5	20.2	21.4	26.8	13.5
6	19.1	16.2	16.0	14.1	13.0	13.0	13.5	15.5	17.7	20.1	23.1	25.9	27.2	28.2	28.6	28.9	28.9	28.9	28.7	27.8	26.4	25.0	23.6	22.5	22.2	28.9	13.0
7	21.0	20.5	19.8	17.8	14.7	15.0	14.6	16.5	19.4	21.7	23.1	23.9	25.0	25.8	26.4	27.2	27.4	27.3	26.2	24.4	22.5	21.1	20.0	19.3	21.7	27.4	14.6
8	18.6	18.3	17.6	16.2	14.3	13.9	13.7	15.5	17.6	19.9	21.7	23.7	25.7	27.3	28.3	29.1	29.3	29.5	29.2	28.7	27.6	26.1	24.1	21.3	22.4	29.5	13.7
9	19.8	18.8	17.8	16.2	15.1	14.9	14.8	16.6	18.8	21.1	23.1	25.7	26.5	26.4	27.1	27.3	27.2	27.3	27.0	25.9	24.6	24.3	22.0	20.8	22.0	27.3	14.8
10	20.0	18.8	17.8	16.5	15.4	14.7	15.2	16.6	19.2	21.8	23.9	25.2	26.8	28.4	29.0	29.4	29.6	29.7	29.4	28.5	27.1	26.0	24.6	21.7	23.1	29.7	14.7
11	21.8	18.7	15.9	15.4	14.1	15.1	16.5	17.4	18.3	19.2	20.4	21.3	22.4	24.1	25.4	25.8	27.1	27.4	27.1	25.7	24.0	22.4	21.4	20.8	21.2	27.4	14.1
12	19.8	18.2	16.5	15.7	14.3	13.8	14.0	15.5	18.0	20.3	22.6	25.0	27.0	28.1	28.8	29.7	29.9	30.0	29.7	28.9	28.3	26.5	24.6	23.0	22.8	30.0	13.8
13	21.0	19.1	18.1	16.4	15.4	15.6	15.8	16.9	19.2	21.9	24.6	26.7	29.2	30.6	31.1	31.3	31.5	31.7	31.4	29.4	27.6	26.7	25.7	24.5	24.2	31.7	15.4
14	24.0	23.3	23.0	22.7	21.0	19.8	19.8	20.3	20.6	21.5	22.4	24.9	25.6	25.5	26.1	27.0	27.7	27.7	27.5	25.4	20.5	20.7	18.2	17.6	23.0	27.7	17.6
15	17.5	17.0	16.3	15.4	15.4	15.4	15.5	15.4	15.9	17.5	19.0	21.0	22.6	21.3	20.0	21.4	19.1	18.9	18.9	19.0	18.6	17.5	16.3	15.5	17.9	22.6	15.4
16	14.3	13.8	13.3	12.6	12.5	12.5	12.4	13.1	14.4	16.5	18.6	21.2	23.9	26.6	27.8	28.4	28.6	28.7	28.3	27.8	26.8	25.5	21.9	20.3	20.4	28.7	12.4
17	19.1	17.8	16.8	15.8	15.8	14.7	14.4	15.9	17.5	20.4	22.9	25.4	27.6	28.6	30.0	30.7	30.4	30.5	29.2	27.6	26.2	25.1	24.0	23.3	22.9	30.7	14.4
18	21.7	19.3	17.2	16.1	16.1	13.2	13.6	14.0	15.0	16.6	19.1	21.1	21.9	22.2	22.7	23.3	23.5	23.2	22.6	22.1	21.2	20.3	19.6	19.2	19.4	23.5	13.2
19	18.9	17.8	17.1	15.1	16.3	15.1	12.8	13.4	16.7	19.8	23.0	23.7	24.7	25.1	25.8	26.1	26.0	25.7	24.8	23.6	22.5	21.9	21.4	21.0	20.8	26.1	12.8
20	20.2	18.0	17.6	18.6	19.2	17.9	18.0	19.2	20.6	21.9	22.8	23.5	24.5	26.1	27.2	28.0	28.0	27.2	25.9	23.4	21.1	19.4	18.3	18.0	21.9	28.0	17.6
21	16.3	15.7	15.6	15.9	15.1	15.0	15.4	15.9	16.8	17.7	19.2	21.2	22.0	23.7	24.2	24.3	24.3	24.4	23.9	23.3	22.8	21.0	17.9	18.0	19.6	24.4	15.0
22	16.9	16.5	16.8	16.8	15.9	15.4	14.9	15.9	16.2	17.8	20.1	22.7	24.3	26.0	27.5	27.4	27.5	26.9	24.4	23.8	21.1	20.3	18.6	17.8	20.5	27.5	14.9
23	17.4	18.0	16.6	15.9	15.1	14.4	14.4	14.8	16.4	18.4	20.2	22.8	24.8	26.9	28.0	28.8	29.4	29.0	26.5	22.6	22.2	19.8	21.4	20.3	21.0	29.4	14.4
24	18.5	17.3	16.4	15.2	14.5	14.1	13.8	13.9	14.8	14.4	12.4	13.6	15.1	16.4	16.9	17.6	17.7	17.6	16.9	15.9	14.8	14.0	13.2	12.6	15.3	18.5	12.4
25	12.3	11.7	11.0	10.2	9.1	8.6	8.4	10.8	13.6	14.5	15.8	17.3	18.7	19.8	20.9	21.5	21.9	22.1	21.7	20.9	19.7	18.5	17.5	16.5	16.0	22.1	8.4
26	15.2	13.7	12.1	11.1	10.0	9.1	8.9	10.9	13.0	15.9	18.8	20.5	22.2	23.3	23.9	24.6	25.0	25.1	25.0	24.5	23.4	22.4	19.6	17.3	18.1	25.1	8.9
27	14.7	13.7	13.5	12.3	11.5	11.0	10.4	12.0	14.5	17.6	20.2	23.1	26.0	28.0	29.0	29.7	30.1	29.8	29.2	28.8	27.7	25.7	22.5	21.4	20.9	30.1	10.4
28	19.0	17.0	16.3	15.6	14.8	14.9	13.6	14.0	15.8	18.1	21.7	24.0	26.5	29.0	30.1	30.2	30.5	30.9	30.6	29.5	28.7	27.7	25.7	23.7	22.8	30.9	13.6
29	21.7	19.0	18.2	17.2	15.8	16.5	15.8	16.8	18.5	21.5	24.4	27.1	29.0	29.2	30.0	29.5	29.7	30.0	29.5	28.3	26.2	25.3	25.1	21.8	23.6	30.0	15.8
30	20.7	19.5	17.7	17.3	17.0	15.5	14.6	16.5	18.4	20.7	23.5	26.4	28.0	28.2	29.0	28.7	28.4	29.2	27.4	24.9	24.1	23.0	21.3	21.2	22.5	29.2	14.6
31	19.3	17.9	16.1	15.6	14.4	13.9	13.5	14.7	16.5	19.6	22.5	25.1	28.0	29.5	29.6	29.7	30.1	29.4	26.3	26.1	25.5	24.9	22.6	21.1	22.2	30.1	13.5
Avg	18.6	17.4	16.3	15.4	14.7	14.1	14.0	15.2	16.9	19.0	21.1	23.2	24.9	26.0	26.8	27.2	27.4	27.3	26.6	25.5	24.1	22.9	21.3	20.0	21.1	27.6	13.7
Max	24.0	23.3	23.0	22.7	21.0	19.8	19.8	20.3	20.6	21.9	24.6	27.1	29.2	30.6	31.1	31.3	31.5	31.7	31.4	29.5	28.7	27.7	25.7	24.5	24.2	31.7	17.6
Min	11.6	11.2	10.3	9.0	8.7	8.4	8.4	10.4	12.6	14.4	12.4	13.6	15.1	16.4	16.9	17.6	17.7	17.6	16.9	15.9	14.8	14.0	13.2	12.6	15.3	18.5	8.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	20.0	19.0	17.3	16.0	15.5	14.0	13.0	14.6	17.3	19.7	22.6	25.9	28.7	29.9	30.5	30.5	30.5	27.6	26.8	25.4	24.7	23.6	22.1	21.5	22.4	30.5	13.0
2	20.8	18.9	17.9	16.7	15.6	14.5	14.0	14.9	17.3	19.8	21.8	24.2	25.4	25.4	26.3	26.6	27.0	27.3	27.0	26.4	24.9	23.3	20.3	19.7	21.5	27.3	14.0
3	18.9	18.1	16.2	16.8	16.3	15.1	14.6	14.1	16.0	18.2	20.3	22.6	25.2	26.8	27.9	28.3	28.7	28.7	28.2	27.0	26.3	25.2	22.0	21.7	21.8	28.7	14.1
4	21.3	21.0	17.7	17.2	16.7	16.1	15.3	16.2	17.8	20.5	22.5	24.4	26.0	26.8	26.6	24.4	22.3	22.4	19.6	19.8	19.9	19.8	18.0	16.2	20.4	26.8	15.3
5	14.8	13.4	13.3	13.4	12.7	11.5	11.1	12.2	14.8	17.2	19.5	22.0	24.4	25.6	26.8	27.6	27.6	27.8	27.8	27.3	26.3	24.7	20.5	19.5	20.1	27.8	11.1
6	18.8	16.9	16.6	16.1	14.9	14.2	13.8	14.4	16.6	19.6	22.2	25.2	27.1	28.4	28.9	29.3	29.5	29.5	29.2	28.4	27.0	25.0	22.4	21.0	22.3	29.5	13.8
7	19.4	17.4	17.2	16.2	14.5	14.4	12.8	13.8	16.4	19.1	21.9	24.5	26.1	27.1	27.8	28.4	28.7	28.6	28.1	27.5	26.5	25.6	22.9	21.3	21.9	28.7	12.8
8	20.0	18.5	18.6	18.0	15.2	14.9	14.6	15.2	16.1	17.6	18.3	19.9	22.2	24.0	25.4	26.3	24.8	18.5	16.4	15.9	16.4	15.3	16.5	15.1	18.5	26.3	14.6
9	14.6	14.1	12.0	11.9	11.8	10.3	9.4	10.9	13.0	14.9	17.1	19.6	22.0	23.5	24.7	25.8	26.3	26.5	26.1	24.8	24.6	22.4	19.0	18.1	18.5	26.5	9.4
10	17.4	15.9	14.3	13.4	12.9	12.1	11.7	12.0	14.5	17.5	20.3	23.5	26.7	28.3	28.6	29.2	29.5	29.3	29.0	28.3	27.4	25.4	21.6	18.9	21.2	29.5	11.7
11	17.8	17.9	16.2	14.4	14.0	13.1	13.3	14.2	16.0	18.5	21.5	24.4	27.0	29.9	31.4	31.8	31.9	31.9	31.7	30.5	29.3	28.4	26.9	25.3	23.2	31.9	13.1
12	21.1	20.0	19.2	17.5	17.3	17.0	16.6	16.5	18.8	21.8	23.7	25.9	27.0	25.7	25.3	22.3	23.6	24.6	24.4	24.3	23.1	22.0	21.4	18.7	21.6	27.0	16.5
13	18.0	17.6	17.1	16.6	16.3	15.8	15.4	14.9	16.6	19.1	21.6	23.4	25.8	27.0	28.0	27.4	19.5	16.5	17.3	16.6	16.2	16.0	15.7	15.3	18.9	28.0	14.9
14	15.0	15.1	15.2	15.2	14.8	14.4	14.6	14.7	14.9	16.8	17.8	19.7	21.3	23.0	24.2	24.9	24.9	24.2	18.5	17.9	17.3	16.7	16.5	15.5	18.0	24.9	14.4
15	15.7	16.3	14.9	14.3	13.6	12.5	12.4	12.8	13.9	15.2	15.7	16.2	17.4	18.8	20.1	21.1	20.4	19.5	19.1	18.0	17.0	16.6	15.3	14.5	16.3	21.1	12.4
16	13.7	13.1	12.1	12.4	11.8	10.8	10.6	11.3	13.1	15.5	18.5	19.4	19.5	20.1	20.5	21.0	21.1	20.5	20.2	19.1	18.3	17.6	16.8	16.0	16.4	21.1	10.6
17	14.1	14.7	14.2	11.6	11.9	10.5	11.1	11.6	14.0	17.2	20.4	21.5	22.7	23.5	24.5	25.1	25.0	25.1	24.7	23.8	22.7	21.8	20.5	18.2	18.8	25.1	10.5
18	16.9	14.8	14.3	12.8	13.2	13.0	12.4	12.5	14.6	17.2	19.9	22.5	24.8	25.9	26.4	26.9	27.0	26.8	26.3	25.7	24.4	22.6	19.4	18.5	19.9	27.0	12.4
19	17.3	15.9	14.9	14.4	13.1	12.4	11.6	12.9	15.1	18.3	21.2	24.3	25.6	26.4	27.0	27.0	26.8	26.3	24.0	21.6	20.6	20.1	19.3	18.5	19.8	27.0	11.6
20	16.6	16.2	15.2	15.3	14.7	14.4	13.2	14.1	15.7	18.3	20.0	20.2	20.5	20.3	20.7	21.3	21.9	21.0	19.1	17.4	16.3	14.2	12.1	12.2	17.1	21.9	12.1
21	12.5	12.2	11.7	11.1	11.7	11.0	11.1	11.4	12.4	13.4	14.7	16.2	18.0	19.4	20.6	20.4	17.9	13.1	11.9	12.3	12.3	12.5	12.6	12.9	13.9	20.6	11.0
22	13.0	12.8	11.8	11.7	11.8	11.0	11.0	11.3	10.9	10.9	12.0	13.4	14.1	15.0	15.3	15.7	15.8	15.5	15.1	14.6	13.9	13.1	12.6	11.9	13.1	15.8	10.9
23	11.2	10.5	9.6	9.1	9.1	8.8	8.6	8.2	8.2	8.4	8.5	8.7	9.1	9.3	9.8	10.4	10.7	10.8	10.7	10.5	10.1	9.7	9.7	9.4	9.5	11.2	8.2
24	8.9	8.7	8.6	8.5	8.5	8.4	8.3	8.3	9.0	9.8	10.9	11.7	12.6	12.9	13.3	13.7	14.0	14.2	12.9	12.1	11.7	11.2	10.8	10.5	10.8	14.2	8.3
25	10.1	9.9	9.5	9.5	7.8	7.8	8.2	8.4	9.0	10.7	12.7	14.2	15.3	16.4	17.2	18.0	18.5	18.9	18.6	18.0	17.1	14.1	13.5	12.4	13.2	18.9	7.8
26	11.7	10.9	9.9	9.4	8.5	8.4	8.2	8.4	10.4	12.5	14.8	17.3	19.8	21.3	22.1	22.3	22.8	22.7	22.2	21.4	20.3	16.7	14.8	14.6	15.5	22.8	8.2
27	13.3	12.0	11.4	10.9	10.1	9.4	9.4	9.9	12.2	14.1	16.8	20.0	22.4	23.7	24.6	25.2	25.5	25.6	25.2	24.1	22.4	18.6	17.8	16.3	17.5	25.6	9.4
28	15.6	14.7	13.3	12.5	12.2	11.8	10.9	11.7	13.7	16.1	19.2	22.2	24.7	25.8	26.4	26.4	25.9	25.1	24.0	23.0	22.2	21.4	20.6	19.6	19.1	26.4	10.9
29	17.5	15.5	13.7	12.9	12.7	11.7	11.2	10.8	12.4	14.8	17.1	19.8	22.0	23.3	24.3	25.3	26.3	25.9	25.1	24.2	23.3	20.8	17.8	18.9	18.6	26.3	10.8
30	16.8	15.8	18.2	17.3	14.0	14.0	13.7	14.0	14.6	15.9	16.6	17.7	18.5	18.8	19.0	19.1	18.7	18.5	17.9	16.7	15.6	15.0	13.8	11.8	16.3	19.1	11.8
31	12.2	12.6	12.1	11.3	10.8	11.0	10.8	11.5	12.6	12.4	12.3	12.9	14.4	14.1	15.0	15.7	15.6	15.5	14.9	14.1	13.1	12.3	11.7	11.4	12.9	15.7	10.8
Avg	16.0	15.2	14.3	13.7	13.0	12.4	12.0	12.5	14.1	16.2	18.1	20.1	21.8	22.8	23.5	23.8	23.5	22.9	22.0	21.2	20.4	19.1	17.6	16.6	18.0	24.3	11.8
Max	21.3	21.0	19.2	18.0	17.3	17.0	16.6	16.5	18.8	21.8	23.7	25.9	28.7	29.9	31.4	31.8	31.9	31.9	31.7	30.5	29.3	28.4	26.9	25.3	23.2	31.9	16.5
Min	8.9	8.7	8.6	8.5	7.8	7.8	8.2	8.2	8.2	8.4	8.5	8.7	9.1	9.3	9.8	10.4	10.7	10.8	10.7	10.5	10.1	9.7	9.7	9.4	9.5	11.2	7.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.1	11.2	11.0	10.4	9.1	8.5	8.0	7.5	10.3	12.4	13.8	14.6	15.4	16.2	17.0	17.6	18.1	18.0	17.6	16.5	15.3	14.6	14.0	13.2	13.4	18.1	7.5
2	10.7	9.6	8.9	8.2	8.2	6.4	6.5	7.1	8.4	10.9	14.2	17.3	18.9	20.7	22.3	22.9	23.0	22.8	21.9	21.1	20.3	16.9	16.0	14.0	14.9	23.0	6.4
3	12.7	12.9	11.8	10.9	12.1	13.3	11.6	10.0	10.6	11.5	11.8	12.5	13.3	13.4	12.9	12.1	12.7	11.7	10.5	9.9	9.6	9.1	7.9	7.5	11.3	13.4	7.5
4	7.6	7.2	6.6	6.2	6.3	5.9	4.6	4.6	6.5	8.4	10.6	12.0	13.2	14.4	15.6	16.4	17.1	17.2	16.7	15.8	14.5	12.4	10.5	9.0	10.8	17.2	4.6
5	7.8	6.7	6.0	5.7	4.8	3.9	4.0	3.7	6.3	8.7	11.4	14.2	16.4	17.5	18.4	19.3	20.1	19.8	19.2	18.9	15.9	13.3	12.5	10.6	11.9	20.1	3.7
6	9.3	8.2	8.1	6.8	6.0	4.7	4.3	4.5	6.8	9.4	12.4	15.1	17.9	20.6	22.5	23.4	23.6	23.1	22.6	22.1	17.6	16.1	13.9	13.2	13.8	23.6	4.3
7	12.1	11.3	10.2	8.7	8.3	6.9	6.9	7.5	8.5	11.6	14.8	17.7	21.3	24.4	25.6	25.9	26.0	25.8	25.0	23.6	22.3	17.7	16.1	14.7	16.4	26.0	6.9
8	14.0	13.1	11.6	11.3	10.0	8.0	8.4	7.4	8.7	11.9	15.8	19.8	23.1	24.7	25.0	25.0	24.9	24.4	22.6	21.4	20.2	18.7	17.0	15.2	16.8	25.0	7.4
9	14.4	12.7	10.9	8.4	7.3	5.9	5.7	6.0	7.0	8.8	10.9	12.5	15.0	16.5	17.8	18.4	17.9	16.0	14.3	11.6	9.3	7.4	6.5	6.2	11.1	18.4	5.7
10	5.8	5.4	5.3	5.0	4.9	4.4	4.4	4.4	5.4	7.0	8.3	10.8	9.7	9.6	10.8	10.4	7.6	7.0	5.2	3.1	1.5	1.2	1.5	1.5	5.8	10.8	1.2
11	1.7	1.7	1.9	1.7	1.6	1.8	1.4	1.6	2.2	2.5	3.3	4.2	5.1	6.1	7.0	7.8	8.2	8.3	8.0	7.4	6.1	3.7	2.8	2.1	4.1	8.3	1.4
12	1.3	1.1	-0.1	-0.5	-0.5	-1.1	-2.2	-1.9	0.3	2.4	4.8	7.6	10.6	13.0	15.4	17.1	17.7	17.9	17.1	15.8	14.5	12.1	10.2	8.7	7.6	17.9	-2.2
13	9.0	8.1	6.9	5.6	4.9	3.7	3.5	3.5	4.4	5.9	7.4	9.1	10.9	12.5	13.9	15.3	16.2	16.3	15.6	14.4	12.4	11.3	9.6	8.1	9.5	16.3	3.5
14	7.3	6.6	5.8	4.7	3.5	2.5	2.4	2.9	4.7	7.1	9.9	12.9	16.1	19.2	20.5	21.5	21.8	21.7	21.3	19.6	16.3	14.9	13.2	12.0	12.0	21.8	2.4
15	11.0	9.7	8.6	6.8	6.2	5.4	4.9	4.4	6.0	9.0	11.8	14.7	17.4	20.1	23.0	25.6	25.6	25.2	24.7	23.1	18.3	16.2	15.9	14.2	14.5	25.6	4.4
16	13.5	12.7	11.9	11.6	10.9	8.7	7.6	8.7	8.9	11.3	13.8	15.6	17.9	21.0	23.9	25.7	25.0	24.8	22.2	19.1	17.9	15.1	14.9	14.4	15.7	25.7	7.6
17	14.1	13.4	11.9	10.9	10.7	9.9	9.0	9.3	10.0	12.6	15.2	16.9	18.5	20.5	22.0	21.9	22.8	22.7	22.6	22.2	20.7	19.5	18.8	17.7	16.4	22.8	9.0
18	16.9	16.5	15.7	14.3	13.6	13.0	11.7	13.9	13.7	14.4	13.5	14.8	17.2	19.8	20.9	21.5	23.1	22.6	21.8	20.6	19.8	18.8	17.7	17.1	17.2	23.1	11.7
19	17.1	16.9	16.5	16.2	15.7	15.6	15.5	15.3	15.8	16.6	16.9	17.6	18.1	17.7	18.3	18.3	18.5	18.0	17.2	16.4	15.9	15.3	14.8	13.9	16.6	18.5	13.9
20	12.5	12.0	11.6	11.0	9.2	9.1	8.8	7.4	9.7	11.7	14.0	16.8	19.1	20.4	21.6	22.8	23.3	23.0	22.8	21.2	17.2	17.8	15.7	14.5	15.5	23.3	7.4
21	14.2	14.1	13.6	12.1	10.4	9.2	8.9	8.2	9.8	12.5	15.1	17.6	20.5	22.9	24.8	26.1	26.6	26.4	25.1	22.8	21.8	19.4	17.9	16.4	17.3	26.6	8.2
22	15.2	14.5	13.1	13.0	12.2	10.6	10.5	9.9	10.9	13.5	15.3	17.5	18.4	19.2	21.2	22.8	25.1	25.1	24.1	23.1	21.0	17.8	16.0	14.9	16.9	25.1	9.9
23	14.6	14.0	12.5	12.0	12.0	11.1	9.5	9.3	10.8	13.4	15.7	18.4	20.6	20.3	21.8	21.8	21.1	20.5	20.0	18.9	18.2	16.8	16.3	15.4	16.0	21.8	9.3
24	15.4	14.9	13.7	13.2	12.7	11.9	11.3	11.1	12.4	15.2	Au	Au	Au	Au	Au	Au	Au	29.4	28.8	26.7	24.2	23.4	22.1	19.6	18.0	29.4	11.1
25	17.7	16.4	15.5	14.3	14.3	12.4	11.7	11.8	13.1	16.6	Ca	Ca	Ca	Ca	Ca	Ca	Ca	28.7	25.1	23.3	22.0	20.7	19.2	18.6	17.7	28.7	11.7
26	17.0	15.2	12.1	10.7	10.3	10.2	10.4	10.5	11.2	12.5	13.7	15.3	16.4	16.9	17.5	17.5	17.4	16.8	15.6	14.4	13.3	12.5	11.1	9.8	13.7	17.5	9.8
27	10.3	9.1	10.1	9.6	9.5	10.5	10.2	10.7	9.3	9.1	9.3	9.6	10.2	10.5	10.3	10.3	10.4	10.7	11.1	11.7	11.6	11.0	10.3	9.9	10.2	11.7	9.1
28	10.1	10.1	10.2	10.2	10.3	10.1	9.4	9.6	9.7	9.8	9.6	9.5	10.1	10.7	10.7	10.9	11.1	10.9	10.9	10.7	10.5	10.5	10.1	9.3	10.2	11.1	9.3
29	8.8	9.0	9.2	8.3	7.2	7.2	6.5	6.2	6.8	8.4	9.3	10.8	12.3	13.6	14.4	14.4	14.1	13.1	12.2	11.6	10.0	9.6	9.8	9.8	10.1	14.4	6.2
30	9.7	9.7	9.5	9.4	9.2	9.4	9.5	8.7	9.2	10.1	10.7	11.6	11.5	11.6	11.5	10.7	9.4	8.3	7.7	7.4	7.1	7.0	7.0	6.8	9.3	11.6	6.8
Avg	11.4	10.8	10.0	9.2	8.7	8.0	7.5	7.5	8.6	10.5	11.9	13.8	15.5	16.9	18.1	18.7	18.9	19.2	18.3	17.1	15.5	14.0	13.0	11.9	13.1	19.9	6.9
Max	17.7	16.9	16.5	16.2	15.7	15.6	15.5	15.3	15.8	16.6	16.9	19.8	23.1	24.7	25.6	26.1	26.6	29.4	28.8	26.7	24.2	23.4	22.1	19.6	18.0	29.4	13.9
Min	1.3	1.1	-0.1	-0.5	-0.5	-1.1	-2.2	-1.9	0.3	2.4	3.3	4.2	5.1	6.1	7.0	7.8	7.6	7.0	5.2	3.1	1.5	1.2	1.5	1.5	4.1	8.3	-2.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.1	10.8	9.8	8.6	8.4	8.3	9.4	11.3	13.5	16.1	19.7	22.3	23.4	24.3	25.1	25.5	25.6	25.7	24.8	23.1	20.1	19.0	17.4	17.0	17.5	25.7	8.3
2	17.7	16.2	14.0	12.9	11.6	11.8	12.8	15.0	17.2	19.5	22.0	24.7	27.0	29.0	30.1	30.8	31.3	31.1	29.0	27.7	26.0	25.1	23.5	22.0	22.0	31.3	11.6
3	21.7	20.2	18.6	17.0	15.9	15.8	15.9	17.0	18.6	20.6	23.2	26.5	29.0	30.1	30.7	30.5	30.7	30.6	29.3	28.2	26.2	23.8	21.2	20.0	23.4	30.7	15.8
4	18.3	16.9	15.2	14.8	14.2	13.5	13.9	15.2	15.6	19.4	22.3	24.4	26.0	28.5	28.9	29.5	29.1	28.0	26.6	25.7	24.5	22.8	21.1	18.8	21.4	29.5	13.5
5	17.2	16.8	14.3	14.6	14.4	13.1	14.8	16.7	19.6	22.8	25.3	26.2	26.7	27.7	28.1	28.0	27.9	27.7	27.1	25.8	23.9	22.9	21.8	19.1	21.8	28.1	13.1
6	18.5	15.6	15.5	13.1	12.2	12.5	14.0	16.2	18.7	21.3	24.5	27.3	29.0	29.9	30.4	30.1	30.1	29.8	29.2	27.5	25.9	24.3	22.8	21.5	22.5	30.4	12.2
7	20.2	19.4	18.3	16.1	14.2	14.6	15.0	17.3	20.3	23.0	24.5	25.1	26.3	27.4	28.1	28.5	28.7	28.3	26.3	24.2	22.0	20.5	19.1	18.4	21.9	28.7	14.2
8	17.6	17.5	16.8	15.5	14.0	13.6	14.3	16.3	18.6	21.0	23.2	25.6	27.0	28.8	29.7	30.5	30.7	30.3	29.7	28.5	26.6	24.4	22.9	20.7	22.7	30.7	13.6
9	19.5	18.4	17.1	15.7	14.7	14.5	15.4	17.3	19.5	22.0	24.4	27.0	27.7	28.4	28.8	28.3	27.9	27.7	27.2	25.9	24.2	22.3	21.3	20.4	22.3	28.8	14.5
10	19.4	17.9	16.7	15.6	14.9	14.4	15.7	17.4	20.1	23.0	25.5	26.8	28.4	30.0	30.6	30.9	30.9	30.6	29.9	28.3	26.4	25.2	22.8	20.4	23.4	30.9	14.4
11	20.1	17.1	14.9	13.9	13.2	14.6	17.0	18.6	20.0	20.8	22.1	22.9	24.6	25.9	27.1	27.4	28.4	28.3	27.6	25.7	23.6	21.7	21.0	19.8	21.5	28.4	13.2
12	18.2	17.5	15.9	15.2	13.9	13.6	14.4	16.3	19.0	21.5	24.0	26.5	28.6	29.7	30.4	31.1	31.2	30.9	30.1	28.5	27.3	25.6	23.9	22.3	23.2	31.2	13.6
13	20.2	18.6	17.7	16.1	15.0	15.0	16.2	17.7	20.1	23.0	25.9	28.1	31.0	32.3	33.0	32.7	32.9	32.6	31.6	29.2	27.5	26.1	24.9	23.1	24.6	33.0	15.0
14	22.6	22.5	22.0	21.7	19.3	19.4	19.6	20.7	21.1	22.0	23.6	26.6	26.8	26.5	27.9	28.7	29.0	28.3	27.5	25.1	19.9	20.2	17.7	17.1	23.2	29.0	17.1
15	16.5	16.5	16.0	15.3	15.1	15.1	15.8	15.9	16.3	18.4	20.1	22.1	23.9	21.6	21.0	22.0	19.8	19.8	19.2	18.9	18.0	17.2	15.5	14.7	18.1	23.9	14.7
16	14.2	13.6	13.1	12.2	12.0	12.4	12.7	13.6	15.2	17.5	19.7	22.5	25.1	27.9	29.1	29.3	29.4	29.1	28.4	27.5	25.5	23.7	21.5	19.8	20.6	29.4	12.0
17	18.8	17.5	16.6	15.3	15.1	14.3	14.6	16.5	18.4	21.4	24.2	26.8	29.1	30.1	31.0	31.5	31.2	31.1	29.4	27.5	25.8	24.3	23.2	22.1	23.2	31.5	14.3
18	20.4	18.5	16.5	15.4	15.4	12.6	13.3	13.8	15.4	16.9	19.9	21.9	22.8	23.1	23.6	24.3	24.2	23.5	22.6	21.9	20.5	19.5	18.7	18.2	19.3	24.3	12.6
19	17.7	17.0	16.1	13.8	14.9	13.7	11.7	13.7	17.4	20.9	24.3	25.3	26.2	26.6	27.5	27.4	27.1	26.5	25.3	23.7	22.2	20.8	20.5	19.7	20.8	27.5	11.7
20	17.9	17.2	16.6	17.0	17.2	17.2	18.0	20.0	21.9	23.1	24.1	25.2	26.0	27.8	28.4	29.0	29.1	28.1	26.4	23.3	20.9	19.3	17.8	17.4	22.0	29.1	16.6
21	15.8	15.1	15.1	15.0	14.7	14.9	15.5	16.4	17.3	18.3	20.1	22.8	23.5	25.4	26.0	26.0	25.6	25.4	24.4	23.4	22.6	20.3	16.8	17.3	19.9	26.0	14.7
22	16.5	16.2	16.4	16.2	15.4	15.2	14.9	16.1	16.7	18.7	21.5	24.2	25.9	27.6	29.0	28.7	28.3	27.5	23.8	21.9	19.4	18.0	18.1	16.8	20.5	29.0	14.9
23	16.2	16.8	16.0	15.3	14.5	14.1	14.3	15.4	17.3	19.6	21.4	23.7	25.9	28.2	29.3	29.8	30.1	28.7	26.1	20.4	20.3	19.0	20.1	19.2	20.9	30.1	14.1
24	18.2	17.1	16.3	15.0	14.4	14.1	14.0	14.3	15.5	14.6	13.0	14.5	16.3	17.7	18.4	19.0	18.9	18.5	17.4	15.9	14.6	13.6	12.9	12.3	15.7	19.0	12.3
25	11.9	11.2	10.7	9.3	8.7	8.1	8.6	11.4	14.4	15.7	17.2	18.9	20.3	21.4	22.4	23.0	23.2	23.0	22.2	20.8	19.3	18.0	17.1	16.1	16.4	23.2	8.1
26	14.4	13.0	11.8	10.4	9.1	8.7	9.2	11.6	14.0	17.0	20.2	21.7	23.7	25.0	25.5	26.0	26.3	26.0	25.3	24.4	22.5	20.3	18.7	16.4	18.4	26.3	8.7
27	14.1	13.0	12.9	11.3	11.1	10.3	10.3	12.6	15.4	18.8	21.5	24.3	27.3	29.5	30.5	31.1	31.3	30.4	29.2	28.6	26.1	24.1	21.0	20.1	21.0	31.3	10.3
28	18.1	16.7	15.7	15.2	14.3	14.4	12.9	14.4	16.6	18.9	23.0	25.4	27.9	30.5	31.4	31.4	31.3	31.5	30.7	29.0	27.5	26.9	24.7	22.4	22.9	31.5	12.9
29	20.8	18.4	17.8	16.9	15.5	16.0	15.7	17.5	19.5	22.7	25.6	28.8	30.5	30.2	31.3	30.5	30.8	30.7	29.7	28.0	25.0	24.0	23.8	20.9	23.8	31.3	15.5
30	19.8	19.1	17.1	16.8	16.2	14.8	14.9	17.2	19.5	21.9	24.9	27.7	29.0	29.1	29.9	29.4	29.0	29.9	27.6	24.9	23.7	22.4	20.6	20.9	22.8	29.9	14.8
31	18.8	17.4	15.7	15.3	13.3	13.2	13.4	15.3	17.5	20.8	23.8	26.8	29.7	31.0	31.3	31.1	31.2	30.2	26.5	26.1	24.9	23.7	21.5	20.4	22.5	31.3	13.2
Avg	17.8	16.8	15.7	14.7	14.0	13.7	14.1	15.8	17.7	20.0	22.4	24.6	26.3	27.5	28.2	28.5	28.4	28.1	26.8	25.1	23.3	21.9	20.4	19.2	21.3	28.7	13.3
Max	22.6	22.5	22.0	21.7	19.3	19.4	19.6	20.7	21.9	23.1	25.9	28.8	31.0	32.3	33.0	32.7	32.9	32.6	31.6	29.2	27.5	26.9	24.9	23.1	24.6	33.0	17.1
Min	11.1	10.8	9.8	8.6	8.4	8.1	8.6	11.3	13.5	14.6	13.0	14.5	16.3	17.7	18.4	19.0	18.9	18.5	17.4	15.9	14.6	13.6	12.9	12.3	15.7	19.0	8.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	19.7	18.5	16.5	15.1	14.4	13.6	13.0	15.1	18.3	20.9	23.8	27.2	30.7	31.8	32.2	32.0	31.7	27.8	26.9	24.9	23.9	23.6	21.0	20.5	22.6	32.2	13.0
2	20.0	18.0	16.8	16.1	15.0	14.0	14.2	15.6	18.1	20.7	22.9	25.3	26.4	26.3	27.4	27.8	28.1	28.2	26.8	25.6	23.8	22.5	19.7	18.9	21.6	28.2	14.0
3	17.9	17.8	14.8	15.4	15.6	14.3	14.1	14.6	16.6	18.9	21.3	23.6	26.3	28.2	29.2	29.4	29.6	29.4	28.5	26.7	25.5	24.2	21.3	20.6	21.8	29.6	14.1
4	20.8	19.6	16.6	16.8	16.1	15.5	14.9	16.5	18.4	21.5	23.7	25.9	27.5	28.5	27.4	24.8	22.7	22.6	19.9	19.7	19.7	19.3	17.2	15.6	20.5	28.5	14.9
5	14.5	13.2	13.0	13.2	11.9	11.2	11.2	12.8	15.6	18.1	20.7	23.4	25.9	26.9	28.0	28.8	28.7	28.7	28.1	27.0	25.4	23.0	19.6	19.0	20.3	28.8	11.2
6	18.3	16.0	15.6	15.4	14.6	13.8	13.8	15.0	17.4	20.7	23.4	26.6	28.6	29.6	30.2	30.7	30.6	30.3	29.5	27.5	25.6	23.7	21.6	20.4	22.5	30.7	13.8
7	18.8	17.1	16.5	14.9	13.7	13.3	12.6	14.4	17.4	20.1	23.2	25.8	27.5	28.8	29.3	29.7	29.8	29.4	28.4	27.0	25.3	24.6	22.0	20.8	22.1	29.8	12.6
8	18.8	17.8	17.5	16.8	14.3	14.2	14.2	15.4	16.6	19.0	19.6	21.1	23.7	25.6	27.1	27.5	24.5	17.4	15.9	15.6	15.6	14.7	15.6	13.9	18.4	27.5	13.9
9	14.1	13.4	11.5	11.5	10.8	9.7	9.6	11.4	13.6	15.7	18.1	20.6	23.1	24.8	25.8	26.9	27.2	27.2	26.2	23.8	23.6	21.5	18.5	17.7	18.6	27.2	9.6
10	16.7	15.0	13.8	12.9	12.3	11.6	11.6	12.5	15.3	18.6	21.3	24.8	27.9	29.7	30.0	30.5	30.4	29.7	29.0	27.4	26.4	23.4	20.8	18.4	21.2	30.5	11.6
11	17.3	17.4	15.7	14.0	13.4	12.6	13.0	14.7	16.9	19.4	22.8	25.8	28.6	31.3	32.8	33.1	33.1	32.1	31.2	30.2	28.4	27.2	25.6	23.7	23.3	33.1	12.6
12	20.2	19.4	18.4	17.2	17.1	16.4	15.8	16.3	19.6	22.9	24.7	27.0	27.6	26.2	25.9	22.6	24.8	25.2	24.1	23.6	21.9	21.0	21.0	18.6	21.6	27.6	15.8
13	18.0	17.4	16.4	15.6	15.4	14.8	14.7	15.1	17.5	20.2	22.9	24.9	27.3	29.1	29.8	28.0	19.5	16.6	17.4	16.7	16.2	15.9	15.5	15.3	19.2	29.8	14.7
14	15.1	15.1	14.9	14.7	14.6	14.3	14.7	15.0	15.4	17.6	18.9	20.8	22.7	24.5	25.5	26.2	25.6	24.4	17.9	17.8	17.2	16.6	16.2	15.4	18.4	26.2	14.3
15	15.4	14.9	14.3	13.7	12.8	11.7	12.4	13.4	14.8	15.8	16.5	16.5	18.2	19.8	21.2	22.0	20.9	20.0	19.5	17.9	16.6	16.1	14.6	13.7	16.4	22.0	11.7
16	13.0	12.1	11.7	11.8	10.8	10.4	10.5	11.9	13.8	16.4	19.7	20.5	20.7	21.8	21.6	22.2	22.1	21.4	20.6	18.8	17.7	17.0	16.0	15.5	16.6	22.2	10.4
17	13.5	13.5	13.2	11.0	11.3	10.0	11.1	12.2	14.8	18.2	21.8	23.1	24.5	25.3	26.0	26.4	26.2	25.9	25.1	23.3	22.2	20.8	19.5	17.1	19.0	26.4	10.0
18	15.8	14.0	13.7	12.6	12.2	12.3	12.0	13.1	15.6	18.3	21.1	23.7	26.4	27.6	28.0	28.5	28.3	27.7	26.6	25.0	22.7	21.3	18.5	17.8	20.1	28.5	12.0
19	16.9	15.2	14.4	13.9	12.8	11.8	11.5	13.6	16.0	19.3	22.6	25.8	27.2	28.3	28.8	28.4	27.6	26.8	24.3	21.5	20.2	19.6	18.5	17.0	20.1	28.8	11.5
20	16.1	15.3	14.8	15.1	14.1	13.8	13.0	14.6	16.6	19.3	21.5	21.6	22.1	22.1	22.2	22.6	22.9	21.8	19.6	16.9	16.0	13.5	12.0	11.9	17.5	22.9	11.9
21	12.3	12.0	11.6	11.1	11.2	10.9	11.0	11.7	12.9	14.3	15.9	17.5	19.3	20.7	22.0	21.4	17.9	12.9	12.0	11.9	11.9	12.1	12.4	12.7	14.1	22.0	10.9
22	12.7	12.3	11.7	11.1	10.7	10.5	11.0	11.6	10.9	11.0	12.4	13.9	14.8	15.7	15.7	16.2	16.2	15.7	15.2	14.6	14.0	13.0	12.5	11.4	13.1	16.2	10.5
23	10.8	10.3	9.5	9.2	9.2	8.8	8.7	8.4	8.4	8.5	8.7	8.9	9.3	9.6	10.1	10.6	10.9	11.0	10.8	10.5	10.1	9.7	9.6	9.4	9.6	11.0	8.4
24	8.9	8.8	8.6	8.6	8.6	8.5	8.4	8.7	9.5	10.4	11.5	12.4	13.1	13.5	13.8	14.2	14.5	14.7	13.1	12.2	11.8	11.2	10.8	10.3	11.1	14.7	8.4
25	9.8	9.6	8.9	8.2	7.1	7.6	8.1	9.0	9.8	11.5	13.8	15.5	16.4	17.4	18.4	19.1	19.4	19.6	17.9	17.5	16.3	13.7	12.9	12.0	13.3	19.6	7.1
26	11.4	10.5	9.4	8.9	8.1	7.9	7.7	8.9	11.1	13.3	15.8	18.3	21.0	22.3	23.3	23.2	23.7	23.2	21.9	20.2	18.9	16.1	14.5	14.2	15.6	23.7	7.7
27	12.8	11.6	11.2	10.3	9.9	8.8	9.4	10.4	12.9	14.8	17.9	21.0	23.6	25.0	25.9	26.3	26.3	26.0	25.1	22.6	20.7	18.2	17.1	15.5	17.6	26.3	8.8
28	15.3	13.8	12.5	11.9	11.5	11.4	10.0	11.8	14.4	16.9	20.0	23.2	26.0	27.2	27.4	27.0	26.2	25.2	23.7	22.6	21.7	21.0	20.1	19.0	19.2	27.4	10.0
29	16.7	14.7	13.4	11.9	11.9	11.0	11.1	11.5	13.1	15.8	18.1	20.9	23.1	24.5	25.6	26.3	27.0	26.3	24.6	23.0	22.2	19.9	17.3	18.4	18.7	27.0	11.0
30	15.5	14.8	18.0	17.2	13.7	13.7	13.4	14.3	15.3	16.8	17.8	18.9	20.0	20.2	20.5	20.3	19.4	19.1	18.1	16.4	14.6	14.0	13.0	11.3	16.5	20.5	11.3
31	11.9	12.7	12.2	11.2	10.9	11.0	10.9	11.9	13.3	13.0	13.1	13.8	15.5	14.8	15.9	16.5	16.2	16.2	15.1	13.9	12.8	12.0	11.3	10.8	13.2	16.5	10.8
Avg	15.5	14.6	13.8	13.1	12.5	11.9	11.9	12.9	14.8	17.0	19.2	21.2	23.1	24.1	24.7	24.8	24.3	23.3	22.0	20.7	19.6	18.4	17.0	16.0	18.2	25.3	11.6
Max	20.8	19.6	18.4	17.2	17.1	16.4	15.8	16.5	19.6	22.9	24.7	27.2	30.7	31.8	32.8	33.1	33.1	32.1	31.2	30.2	28.4	27.2	25.6	23.7	23.3	33.1	15.8
Min	8.9	8.8	8.6	8.2	7.1	7.6	7.7	8.4	8.4	8.5	8.7	8.9	9.3	9.6	10.1	10.6	10.9	11.0	10.8	10.5	10.1	9.7	9.6	9.4	9.6	11.0	7.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	9.7	9.7	9.6	9.0	8.4	8.0	7.1	7.5	10.8	13.4	14.9	15.8	16.9	17.8	18.5	18.9	19.1	18.6	17.6	15.9	15.0	14.3	13.6	12.5	13.4	19.1	7.1
2	9.8	9.2	8.5	7.7	7.2	5.9	6.1	7.6	9.4	11.8	15.3	18.4	20.2	22.0	23.6	23.8	23.6	23.2	21.5	20.0	19.2	16.2	15.2	13.2	14.9	23.8	5.9
3	12.3	12.2	11.3	10.4	11.0	13.3	11.7	10.2	11.3	12.7	12.9	13.1	14.2	14.3	14.0	13.4	13.8	12.2	10.8	10.0	9.6	9.1	7.8	7.1	11.6	14.3	7.1
4	6.7	6.9	6.3	5.8	5.8	5.3	4.5	5.0	7.0	9.3	11.8	13.0	14.2	15.6	16.9	17.6	17.9	17.7	16.5	15.2	13.1	11.5	9.9	8.5	10.9	17.9	4.5
5	7.4	6.5	5.9	5.5	4.3	3.6	3.8	4.3	7.1	9.9	12.6	15.4	17.8	18.7	19.6	20.3	21.2	20.4	17.6	17.7	15.0	12.7	12.0	9.8	12.0	21.2	3.6
6	8.8	7.9	7.8	6.3	5.8	4.3	4.3	5.2	7.6	10.4	13.4	16.3	19.1	21.7	23.6	24.3	24.6	23.6	21.3	21.4	17.0	15.3	13.1	12.5	14.0	24.6	4.3
7	11.4	10.8	9.5	8.3	7.5	6.0	6.4	7.8	9.5	12.7	15.8	18.8	22.4	25.6	26.8	26.7	26.7	26.1	24.6	22.1	20.7	16.8	15.7	14.4	16.4	26.8	6.0
8	13.5	12.2	10.1	9.9	8.7	7.0	7.5	7.4	9.4	12.8	16.9	20.9	24.4	25.9	26.0	26.0	25.6	24.7	22.1	20.7	19.4	18.1	16.0	15.0	16.7	26.0	7.0
9	13.8	11.7	10.2	7.3	6.4	5.3	5.3	6.6	8.1	9.8	12.0	13.9	16.5	18.0	18.5	19.5	18.5	16.3	14.4	11.6	9.0	7.4	6.7	6.4	11.4	19.5	5.3
10	5.9	5.5	5.4	4.7	4.4	4.4	4.5	4.9	5.9	8.0	9.3	11.8	10.5	10.2	11.8	11.4	8.1	7.3	5.4	3.3	1.7	1.5	1.6	1.5	6.2	11.8	1.5
11	1.5	1.4	1.5	1.3	1.4	1.7	1.0	1.7	3.1	3.3	4.3	5.9	6.4	7.6	8.3	8.9	9.1	8.9	7.0	6.5	5.3	3.4	2.4	1.5	4.3	9.1	1.0
12	0.8	0.6	-0.6	-0.9	-1.3	-1.7	-2.7	-1.5	1.1	3.3	6.0	8.8	11.5	14.3	16.5	18.1	18.5	18.2	16.7	14.8	13.8	11.4	9.7	7.9	7.6	18.5	-2.7
13	8.4	7.7	6.1	4.8	4.3	2.8	3.2	3.9	5.1	6.8	8.5	10.5	12.3	13.9	15.2	16.4	17.2	16.7	15.0	13.5	11.5	11.0	9.1	7.8	9.7	17.2	2.8
14	7.1	6.4	5.3	4.2	3.2	1.9	2.2	3.4	5.5	8.1	10.9	14.0	17.3	20.5	21.9	22.6	22.5	21.8	20.5	18.7	15.3	14.4	12.2	11.3	12.1	22.6	1.9
15	10.3	8.9	8.2	6.5	5.9	4.3	4.3	4.8	6.7	9.8	12.8	15.8	18.8	21.3	24.1	26.6	26.3	25.2	23.4	21.1	17.6	15.7	15.3	13.7	14.5	26.6	4.3
16	13.0	11.5	10.5	10.8	9.7	7.7	7.1	8.6	9.2	12.0	14.5	16.5	18.8	22.1	24.8	26.6	25.3	24.7	22.0	18.4	17.3	14.6	14.6	13.9	15.6	26.6	7.1
17	13.4	12.8	11.1	10.5	10.0	9.1	8.5	9.2	10.8	13.5	16.2	18.0	19.5	21.4	22.8	22.6	23.1	22.6	21.3	21.3	20.1	18.7	17.7	17.1	16.3	23.1	8.5
18	16.3	15.9	14.5	13.0	12.4	11.8	11.1	12.8	12.9	13.9	13.5	14.8	18.0	20.8	21.8	22.2	23.6	22.7	21.3	20.2	19.5	18.6	17.4	17.0	16.9	23.6	11.1
19	17.0	16.9	16.5	16.3	15.8	15.7	15.6	15.5	16.4	17.3	17.7	18.4	19.5	18.4	19.1	18.7	19.0	18.3	17.2	16.3	15.5	14.6	13.8	12.6	16.8	19.5	12.6
20	11.1	11.0	10.4	9.9	8.7	8.6	7.8	7.6	10.4	12.8	14.9	17.9	20.4	21.8	22.7	23.9	24.1	22.6	21.3	20.1	16.1	16.7	14.4	13.8	15.4	24.1	7.6
21	13.2	13.1	12.8	10.5	9.4	8.7	8.1	8.4	10.6	13.4	16.3	18.9	22.0	24.5	25.9	27.0	27.3	26.5	23.9	21.5	21.3	18.2	17.3	15.8	17.3	27.3	8.1
22	14.9	13.9	12.6	11.9	11.6	9.8	9.7	9.6	11.8	14.5	16.2	18.3	19.5	20.3	22.5	24.1	25.7	25.2	23.9	22.5	20.1	17.2	15.5	14.5	16.9	25.7	9.6
23	14.1	13.5	11.5	11.0	11.2	9.7	8.7	9.2	11.6	14.2	16.8	19.6	21.4	20.7	23.0	23.1	21.7	20.7	19.7	17.8	17.1	16.0	15.9	15.3	16.0	23.1	8.7
24	15.3	14.6	13.2	12.7	12.2	11.1	10.5	10.7	13.1	16.1	Au	Au	Au	Au	Au	Au	Au	29.1	27.1	25.8	23.5	22.8	21.0	18.8	17.5	29.1	10.5
25	17.0	16.0	14.5	13.6	12.7	10.7	11.1	11.6	13.7	17.5	Ca	Ca	Ca	Ca	Ca	Ca	Ca	28.9	25.0	23.1	21.7	20.5	19.0	18.6	17.4	28.9	10.7
26	17.0	15.3	12.0	10.7	10.4	10.3	10.4	10.7	11.7	13.2	14.9	16.6	17.4	17.4	18.5	18.5	18.0	16.7	15.3	13.8	12.5	12.0	10.3	9.2	13.9	18.5	9.2
27	9.6	8.7	9.5	9.4	9.3	9.8	9.6	10.2	9.1	9.1	9.5	9.8	10.5	10.8	10.4	10.4	10.5	10.8	11.1	11.7	11.5	10.9	10.2	9.8	10.1	11.7	8.7
28	9.9	10.0	10.3	10.2	10.4	10.0	9.4	9.6	9.7	9.9	9.8	9.8	10.6	11.0	11.1	11.2	11.3	11.1	10.9	10.7	10.5	10.5	10.1	9.3	10.3	11.3	9.3
29	8.9	9.0	9.1	7.5	6.5	6.4	6.1	6.0	7.2	9.0	10.1	11.8	13.2	14.3	15.4	15.1	14.4	13.3	12.4	11.7	10.1	9.6	9.7	9.7	10.3	15.4	6.0
30	9.6	9.5	9.3	9.1	8.9	8.9	8.8	8.8	9.4	10.4	11.1	12.2	12.2	12.5	12.5	11.4	9.8	8.5	7.8	7.5	7.0	6.5	7.0	6.8	9.4	12.5	6.5
Avg	10.9	10.3	9.4	8.6	8.1	7.3	7.1	7.6	9.2	11.3	12.8	14.8	16.6	18.0	19.1	19.6	19.5	19.4	17.8	16.5	14.9	13.5	12.5	11.5	13.1	20.6	6.5
Max	17.0	16.9	16.5	16.3	15.8	15.7	15.6	15.5	16.4	17.5	17.7	20.9	24.4	25.9	26.8	27.0	27.3	29.1	27.1	25.8	23.5	22.8	21.0	18.8	17.5	29.1	12.6
Min	0.8	0.6	-0.6	-0.9	-1.3	-1.7	-2.7	-1.5	1.1	3.3	4.3	5.9	6.4	7.6	8.3	8.9	8.1	7.3	5.4	3.3	1.7	1.5	1.6	1.5	4.3	9.1	-2.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.55	0.35	0.46	0.35	0.30	0.05	-0.52	-0.91	-0.90	-1.05	-1.63	-2.01	-1.96	-1.88	-1.85	-1.55	-0.97	-0.95	-0.45	0.34	1.43	1.32	1.98	1.42	-0.34	1.98	-2.01
2	0.28	0.47	0.56	0.56	1.11	0.57	-0.47	-0.76	-1.01	-1.33	-1.23	-1.38	-1.13	-1.19	-1.19	-1.06	-1.07	-0.77	0.15	0.81	1.51	1.39	0.16	0.43	-0.19	1.51	-1.38
3	0.76	1.05	0.34	0.97	1.12	0.36	-0.16	-0.36	-0.80	-1.02	-1.08	-1.17	-1.36	-1.23	-1.16	-1.04	-0.97	-0.74	-0.07	0.33	0.90	0.71	0.75	0.57	-0.14	1.12	-1.36
4	0.66	1.09	0.49	0.62	1.02	0.50	-0.09	-0.47	-0.60	-0.95	-1.25	-0.88	-0.68	-1.17	-0.98	-1.17	-0.78	-0.54	-0.17	0.24	0.55	1.05	0.83	0.63	-0.09	1.09	-1.25
5	0.40	0.54	0.71	0.41	0.45	0.45	-0.34	-0.75	-0.98	-0.96	-1.34	-1.43	-1.55	-1.67	-1.63	-1.22	-1.26	-0.93	-0.45	0.18	0.65	0.64	0.77	1.10	-0.34	1.10	-1.67
6	0.60	0.67	0.53	0.98	0.79	0.53	-0.43	-0.73	-1.05	-1.27	-1.38	-1.47	-1.83	-1.67	-1.78	-1.19	-1.18	-0.87	-0.42	0.22	0.48	0.76	0.74	0.98	-0.33	0.98	-1.83
7	0.86	1.08	1.43	1.67	0.52	0.36	-0.43	-0.75	-0.86	-1.35	-1.46	-1.19	-1.31	-1.65	-1.68	-1.24	-1.34	-0.93	-0.08	0.29	0.53	0.64	0.91	0.94	-0.21	1.67	-1.68
8	0.98	0.78	0.75	0.67	0.36	0.27	-0.52	-0.81	-1.00	-1.12	-1.51	-1.86	-1.31	-1.57	-1.37	-1.40	-1.31	-0.89	-0.46	0.17	0.96	1.67	1.23	0.63	-0.28	1.67	-1.86
9	0.32	0.40	0.68	0.44	0.39	0.39	-0.61	-0.69	-0.74	-0.95	-1.24	-1.36	-1.16	-1.93	-1.74	-0.95	-0.72	-0.42	-0.18	0.04	0.36	1.94	0.68	0.38	-0.28	1.94	-1.93
10	0.59	0.85	1.07	0.84	0.58	0.27	-0.46	-0.77	-0.88	-1.26	-1.57	-1.52	-1.59	-1.62	-1.57	-1.48	-1.30	-0.97	-0.42	0.17	0.68	0.89	1.83	1.30	-0.26	1.83	-1.62
11	1.62	1.60	1.02	1.46	0.93	0.43	-0.54	-1.17	-1.69	-1.55	-1.70	-1.56	-2.19	-1.82	-1.69	-1.58	-1.23	-0.90	-0.45	0.07	0.46	0.68	0.44	1.03	-0.35	1.62	-2.19
12	1.52	0.69	0.59	0.49	0.42	0.28	-0.37	-0.75	-0.99	-1.21	-1.37	-1.54	-1.53	-1.60	-1.58	-1.39	-1.27	-0.92	-0.33	0.43	0.97	0.95	0.72	0.63	-0.30	1.52	-1.60
13	0.82	0.55	0.42	0.32	0.35	0.60	-0.40	-0.84	-0.96	-1.08	-1.34	-1.36	-1.80	-1.70	-1.90	-1.41	-1.35	-0.88	-0.24	0.18	0.16	0.60	0.76	1.40	-0.38	1.40	-1.90
14	1.38	0.84	0.97	0.95	1.72	0.36	0.17	-0.40	-0.49	-0.55	-1.19	-1.66	-1.14	-1.02	-1.75	-1.69	-1.29	-0.53	-0.07	0.32	0.67	0.48	0.53	0.48	-0.12	1.72	-1.75
15	0.97	0.48	0.32	0.14	0.34	0.31	-0.31	-0.53	-0.39	-0.84	-1.05	-1.05	-1.31	-0.32	-0.99	-0.59	-0.69	-0.85	-0.31	0.12	0.57	0.29	0.75	0.85	-0.17	0.97	-1.31
16	0.07	0.22	0.16	0.38	0.59	0.08	-0.30	-0.52	-0.76	-1.02	-1.10	-1.24	-1.22	-1.28	-1.26	-0.91	-0.79	-0.48	-0.14	0.24	1.34	1.86	0.47	0.52	-0.21	1.86	-1.28
17	0.33	0.23	0.22	0.49	0.65	0.47	-0.11	-0.59	-0.89	-1.04	-1.27	-1.41	-1.48	-1.51	-1.00	-0.87	-0.77	-0.62	-0.16	0.08	0.36	0.74	0.81	1.15	-0.26	1.15	-1.51
18	1.26	0.82	0.75	0.72	0.75	0.59	0.26	0.22	-0.42	-0.26	-0.81	-0.83	-0.85	-0.85	-0.91	-1.04	-0.68	-0.26	0.01	0.21	0.65	0.81	0.95	1.04	0.09	1.26	-1.04
19	1.23	0.79	1.00	1.27	1.40	1.33	1.11	-0.24	-0.72	-1.14	-1.36	-1.56	-1.51	-1.50	-1.64	-1.34	-1.13	-0.79	-0.47	-0.07	0.26	1.13	0.91	1.23	-0.08	1.40	-1.64
20	2.31	0.78	0.98	1.68	1.99	0.68	0.00	-0.83	-1.28	-1.25	-1.35	-1.73	-1.57	-1.60	-1.15	-1.01	-1.13	-0.93	-0.45	0.03	0.19	0.11	0.50	0.53	-0.19	2.31	-1.73
21	0.44	0.56	0.50	0.82	0.39	0.10	-0.17	-0.48	-0.55	-0.63	-0.94	-1.60	-1.50	-1.70	-1.78	-1.72	-1.35	-1.02	-0.47	-0.06	0.19	0.68	1.04	0.72	-0.36	1.04	-1.78
22	0.42	0.37	0.37	0.59	0.55	0.27	0.01	-0.12	-0.45	-0.89	-1.37	-1.57	-1.51	-1.57	-1.59	-1.21	-0.81	-0.60	0.67	1.91	1.74	2.26	0.55	0.96	-0.04	2.26	-1.59
23	1.15	1.16	0.65	0.61	0.52	0.30	0.06	-0.57	-0.80	-1.15	-1.25	-0.93	-1.14	-1.38	-1.32	-0.99	-0.67	0.22	0.42	2.25	1.92	0.81	1.26	1.10	0.09	2.25	-1.38
24	0.35	0.22	0.17	0.15	0.00	-0.02	-0.14	-0.42	-0.67	-0.23	-0.66	-0.84	-1.12	-1.26	-1.48	-1.43	-1.15	-0.89	-0.47	-0.02	0.24	0.33	0.31	0.33	-0.36	0.35	-1.48
25	0.46	0.51	0.29	0.91	0.38	0.52	-0.26	-0.62	-0.81	-1.21	-1.47	-1.62	-1.54	-1.63	-1.47	-1.47	-1.27	-0.86	-0.47	0.04	0.41	0.43	0.38	0.48	-0.41	0.91	-1.63
26	0.80	0.72	0.24	0.63	0.92	0.32	-0.31	-0.73	-0.95	-1.11	-1.41	-1.21	-1.47	-1.68	-1.57	-1.41	-1.23	-0.89	-0.36	0.10	0.91	2.06	0.91	0.97	-0.24	2.06	-1.68
27	0.61	0.70	0.61	0.96	0.33	0.69	0.10	-0.67	-0.89	-1.26	-1.26	-1.20	-1.25	-1.57	-1.47	-1.35	-1.12	-0.64	0.08	0.19	1.54	1.57	1.50	1.29	-0.10	1.57	-1.57
28	0.96	0.27	0.69	0.42	0.44	0.45	0.71	-0.39	-0.74	-0.83	-1.24	-1.42	-1.36	-1.52	-1.29	-1.20	-0.83	-0.61	-0.07	0.55	1.17	0.81	1.00	1.26	-0.12	1.26	-1.52
29	0.89	0.62	0.43	0.37	0.31	0.50	0.07	-0.74	-1.07	-1.26	-1.18	-1.69	-1.48	-0.95	-1.26	-0.99	-1.11	-0.75	-0.15	0.28	1.23	1.28	1.28	0.88	-0.19	1.28	-1.69
30	0.91	0.45	0.66	0.50	0.76	0.72	-0.22	-0.64	-1.04	-1.23	-1.41	-1.31	-1.01	-0.88	-0.95	-0.72	-0.65	-0.70	-0.20	0.01	0.39	0.54	0.73	0.38	-0.20	0.91	-1.41
31	0.49	0.55	0.42	0.29	1.11	0.77	0.09	-0.64	-0.95	-1.17	-1.35	-1.67	-1.67	-1.49	-1.76	-1.37	-1.09	-0.82	-0.15	0.03	0.60	1.22	1.10	0.70	-0.28	1.22	-1.76
Avg	0.81	0.66	0.60	0.70	0.69	0.44	-0.15	-0.60	-0.85	-1.04	-1.28	-1.40	-1.40	-1.43	-1.44	-1.23	-1.05	-0.73	-0.20	0.31	0.77	0.99	0.86	0.85	-0.21	1.46	-1.61
Max	2.31	1.60	1.43	1.68	1.99	1.33	1.11	0.22	-0.39	-0.23	-0.66	-0.83	-0.68	-0.32	-0.91	-0.59	-0.65	0.22	0.67	2.25	1.92	2.26	1.98	1.42	0.09	2.31	-1.04
Min	0.07	0.22	0.16	0.14	0.00	-0.02	-0.61	-1.17	-1.69	-1.55	-1.70	-2.01	-2.19	-1.93	-1.90	-1.72	-1.35	-1.02	-0.47	-0.07	0.16	0.11	0.16	0.33	-0.41	0.35	-2.19

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.27	0.56	0.83	0.93	1.08	0.37	0.01	-0.52	-1.04	-1.19	-1.17	-1.31	-2.02	-1.93	-1.75	-1.42	-1.28	-0.22	-0.02	0.49	0.87	0.00	1.18	1.01	-0.26	1.18	-2.02
2	0.85	0.89	1.10	0.58	0.61	0.50	-0.25	-0.64	-0.78	-0.90	-1.11	-1.06	-0.95	-0.92	-1.15	-1.21	-1.16	-0.87	0.17	0.84	1.10	0.74	0.60	0.76	-0.09	1.10	-1.21
3	1.02	0.23	1.37	1.40	0.70	0.79	0.53	-0.48	-0.59	-0.72	-0.93	-0.93	-1.11	-1.38	-1.29	-1.12	-0.83	-0.68	-0.27	0.31	0.80	1.03	0.74	1.14	-0.01	1.40	-1.38
4	0.53	1.42	1.06	0.44	0.54	0.53	0.37	-0.26	-0.57	-0.99	-1.15	-1.48	-1.55	-1.69	-0.78	-0.36	-0.46	-0.19	-0.31	0.13	0.14	0.49	0.80	0.65	-0.11	1.42	-1.69
5	0.24	0.27	0.26	0.26	0.73	0.28	-0.14	-0.55	-0.78	-0.91	-1.15	-1.36	-1.45	-1.27	-1.19	-1.15	-1.02	-0.88	-0.37	0.24	0.90	1.68	0.88	0.45	-0.25	1.68	-1.45
6	0.52	0.92	1.00	0.68	0.30	0.44	0.02	-0.64	-0.77	-1.13	-1.23	-1.48	-1.52	-1.26	-1.35	-1.34	-1.12	-0.85	-0.28	0.84	1.40	1.26	0.84	0.57	-0.17	1.40	-1.52
7	0.61	0.33	0.75	1.24	0.84	1.03	0.18	-0.58	-0.98	-0.98	-1.29	-1.37	-1.43	-1.66	-1.52	-1.29	-1.12	-0.81	-0.25	0.48	1.15	0.94	0.90	0.51	-0.18	1.24	-1.66
8	1.28	0.68	1.12	1.28	0.92	0.73	0.33	-0.17	-0.49	-1.40	-1.30	-1.19	-1.51	-1.56	-1.70	-1.17	0.26	1.07	0.51	0.30	0.80	0.62	0.90	1.19	0.06	1.28	-1.70
9	0.49	0.67	0.54	0.40	0.98	0.60	-0.13	-0.46	-0.60	-0.79	-0.95	-1.02	-1.15	-1.28	-1.10	-1.03	-0.94	-0.64	-0.10	0.97	1.03	0.94	0.52	0.40	-0.11	1.03	-1.28
10	0.71	0.85	0.53	0.49	0.62	0.51	0.07	-0.52	-0.74	-1.03	-1.04	-1.24	-1.27	-1.44	-1.38	-1.24	-0.91	-0.41	0.01	0.88	1.04	1.95	0.81	0.48	-0.09	1.95	-1.44
11	0.54	0.47	0.52	0.38	0.68	0.51	0.31	-0.52	-0.89	-0.91	-1.28	-1.38	-1.63	-1.39	-1.33	-1.36	-1.22	-0.18	0.48	0.35	0.88	1.24	1.29	1.63	-0.12	1.63	-1.63
12	0.91	0.62	0.77	0.28	0.18	0.62	0.82	0.15	-0.76	-1.03	-0.94	-1.02	-0.56	-0.54	-0.65	-0.32	-1.20	-0.57	0.36	0.75	1.14	1.01	0.41	0.09	0.02	1.14	-1.20
13	0.05	0.18	0.64	0.94	0.88	0.99	0.65	-0.12	-0.95	-1.04	-1.35	-1.52	-1.45	-2.12	-1.84	-0.65	-0.03	-0.15	-0.04	-0.07	0.04	0.10	0.16	-0.02	-0.28	0.99	-2.12
14	-0.15	0.00	0.37	0.46	0.18	0.10	-0.11	-0.28	-0.47	-0.84	-1.08	-1.13	-1.33	-1.53	-1.34	-1.29	-0.70	-0.11	0.51	0.08	0.07	0.08	0.32	0.04	-0.34	0.51	-1.53
15	0.32	1.44	0.54	0.61	0.82	0.72	-0.03	-0.60	-0.82	-0.60	-0.80	-0.35	-0.76	-1.01	-1.11	-0.83	-0.55	-0.55	-0.41	0.09	0.39	0.49	0.68	0.77	-0.06	1.44	-1.11
16	0.78	1.04	0.41	0.61	0.97	0.44	0.12	-0.59	-0.77	-0.87	-1.19	-1.07	-1.23	-1.66	-1.06	-1.26	-1.05	-0.85	-0.43	0.32	0.60	0.58	0.82	0.54	-0.20	1.04	-1.66
17	0.67	1.26	0.98	0.64	0.53	0.52	0.02	-0.58	-0.85	-1.03	-1.45	-1.56	-1.83	-1.79	-1.46	-1.30	-1.23	-0.80	-0.34	0.48	0.60	1.00	0.98	1.12	-0.23	1.26	-1.83
18	1.08	0.76	0.60	0.23	1.02	0.68	0.40	-0.63	-0.97	-1.15	-1.20	-1.22	-1.61	-1.66	-1.61	-1.61	-1.25	-0.88	-0.24	0.70	1.69	1.33	0.86	0.64	-0.17	1.69	-1.66
19	0.38	0.64	0.51	0.43	0.38	0.53	0.12	-0.72	-0.84	-0.95	-1.40	-1.48	-1.52	-1.88	-1.82	-1.38	-0.80	-0.50	-0.29	0.08	0.46	0.47	0.88	1.50	-0.30	1.50	-1.88
20	0.51	0.89	0.44	0.16	0.58	0.59	0.20	-0.51	-0.88	-1.01	-1.47	-1.39	-1.58	-1.78	-1.49	-1.29	-1.01	-0.83	-0.48	0.50	0.25	0.66	0.11	0.34	-0.35	0.89	-1.78
21	0.25	0.27	0.16	0.00	0.46	0.14	0.06	-0.27	-0.57	-0.92	-1.15	-1.33	-1.36	-1.29	-1.46	-0.99	-0.01	0.12	-0.11	0.34	0.42	0.40	0.29	0.19	-0.26	0.46	-1.46
22	0.29	0.56	0.14	0.65	1.16	0.47	0.00	-0.28	-0.07	-0.06	-0.45	-0.53	-0.65	-0.69	-0.33	-0.50	-0.36	-0.17	-0.09	-0.03	-0.03	0.04	0.08	0.54	-0.01	1.16	-0.69
23	0.38	0.20	0.05	-0.10	-0.07	-0.02	-0.12	-0.15	-0.11	-0.11	-0.12	-0.18	-0.22	-0.26	-0.26	-0.23	-0.27	-0.21	-0.13	-0.07	-0.05	-0.02	0.07	-0.06	-0.09	0.38	-0.27
24	0.02	-0.10	-0.01	-0.05	-0.15	-0.08	-0.06	-0.32	-0.46	-0.54	-0.59	-0.66	-0.57	-0.57	-0.46	-0.50	-0.48	-0.48	-0.20	-0.06	-0.02	-0.02	0.01	0.18	-0.26	0.18	-0.66
25	0.33	0.25	0.56	1.27	0.71	0.28	0.13	-0.58	-0.87	-0.85	-1.15	-1.32	-1.08	-1.03	-1.19	-1.12	-0.85	-0.70	0.71	0.57	0.80	0.39	0.62	0.45	-0.15	1.27	-1.32
26	0.31	0.36	0.48	0.46	0.35	0.46	0.41	-0.53	-0.62	-0.79	-0.99	-1.01	-1.22	-0.99	-1.19	-0.85	-0.87	-0.50	0.22	1.18	1.35	0.61	0.29	0.35	-0.11	1.35	-1.22
27	0.47	0.41	0.23	0.67	0.19	0.61	0.01	-0.48	-0.68	-0.77	-1.07	-1.00	-1.23	-1.34	-1.33	-1.19	-0.85	-0.41	0.15	1.45	1.72	0.45	0.69	0.86	-0.10	1.72	-1.34
28	0.23	0.93	0.79	0.57	0.70	0.38	0.82	-0.10	-0.72	-0.86	-0.82	-1.05	-1.27	-1.30	-1.05	-0.60	-0.24	-0.09	0.24	0.33	0.50	0.39	0.53	0.58	-0.05	0.93	-1.30
29	0.74	0.85	0.28	0.96	0.81	0.67	0.18	-0.66	-0.72	-0.98	-0.97	-1.06	-1.07	-1.27	-1.22	-1.03	-0.69	-0.30	0.54	1.20	1.13	0.94	0.45	0.57	-0.03	1.20	-1.27
30	1.26	0.96	0.24	0.01	0.34	0.26	0.30	-0.21	-0.68	-0.92	-1.23	-1.27	-1.53	-1.33	-1.50	-1.14	-0.69	-0.60	-0.17	0.31	0.98	1.01	0.86	0.55	-0.17	1.26	-1.53
31	0.33	-0.03	-0.10	0.10	-0.05	0.00	-0.09	-0.40	-0.75	-0.60	-0.84	-0.93	-1.06	-0.66	-0.88	-0.88	-0.62	-0.68	-0.15	0.19	0.35	0.28	0.39	0.61	-0.27	0.61	-1.06
Avg	0.52	0.61	0.55	0.55	0.58	0.47	0.17	-0.43	-0.70	-0.87	-1.06	-1.13	-1.25	-1.31	-1.22	-1.02	-0.76	-0.45	-0.03	0.46	0.73	0.68	0.61	0.60	-0.15	1.17	-1.42
Max	1.28	1.44	1.37	1.40	1.16	1.03	0.82	0.15	-0.07	-0.06	-0.12	-0.18	-0.22	-0.26	-0.26	-0.23	0.26	1.07	0.71	1.45	1.72	1.95	1.29	1.63	0.06	1.95	-0.27
Min	-0.15	-0.10	-0.10	-0.10	-0.15	-0.08	-0.25	-0.72	-1.04	-1.40	-1.47	-1.56	-2.02	-2.12	-1.84	-1.61	-1.28	-0.88	-0.48	-0.07	-0.05	-0.02	0.01	-0.06	-0.35	0.18	-2.12

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.40	1.57	1.36	1.44	0.73	0.50	0.82	-0.05	-0.48	-0.94	-1.08	-1.18	-1.55	-1.55	-1.43	-1.28	-1.03	-0.56	-0.02	0.56	0.29	0.28	0.41	0.71	-0.04	1.57	-1.55
2	0.83	0.49	0.39	0.52	0.99	0.55	0.40	-0.52	-0.99	-0.95	-1.05	-1.14	-1.33	-1.31	-1.27	-0.82	-0.61	-0.44	0.39	1.02	1.10	0.74	0.78	0.86	-0.06	1.10	-1.33
3	0.41	0.69	0.50	0.50	1.00	-0.01	-0.12	-0.26	-0.71	-1.24	-1.12	-0.64	-0.85	-0.95	-1.11	-1.29	-1.05	-0.47	-0.26	-0.07	-0.01	0.02	0.07	0.42	-0.27	1.00	-1.29
4	0.90	0.37	0.27	0.37	0.50	0.60	0.13	-0.36	-0.50	-0.82	-1.19	-0.99	-0.98	-1.20	-1.31	-1.15	-0.88	-0.50	0.17	0.67	1.44	0.90	0.59	0.45	-0.10	1.44	-1.31
5	0.49	0.20	0.15	0.20	0.48	0.33	0.26	-0.56	-0.81	-1.22	-1.16	-1.19	-1.34	-1.29	-1.18	-1.00	-1.04	-0.62	1.68	1.15	0.91	0.51	0.56	0.74	-0.16	1.68	-1.34
6	0.42	0.33	0.26	0.52	0.28	0.44	0.06	-0.66	-0.81	-0.93	-1.02	-1.15	-1.16	-1.12	-1.10	-0.98	-0.95	-0.52	1.23	0.75	0.60	0.80	0.81	0.67	-0.13	1.23	-1.16
7	0.71	0.49	0.74	0.43	0.77	0.91	0.53	-0.36	-0.95	-1.11	-1.00	-1.10	-1.12	-1.21	-1.18	-0.81	-0.65	-0.27	0.37	1.51	1.60	0.96	0.33	0.33	-0.00	1.60	-1.21
8	0.55	0.92	1.55	1.38	1.31	0.99	0.95	-0.08	-0.73	-0.83	-1.07	-1.14	-1.28	-1.24	-1.03	-0.92	-0.64	-0.23	0.52	0.76	0.77	0.66	0.96	0.24	0.10	1.55	-1.28
9	0.59	1.02	0.77	1.02	0.89	0.68	0.44	-0.67	-1.06	-0.97	-1.08	-1.34	-1.57	-1.49	-0.73	-1.07	-0.66	-0.28	-0.13	0.00	0.26	-0.02	-0.16	-0.20	-0.24	1.02	-1.57
10	-0.14	-0.11	-0.07	0.36	0.51	0.07	-0.08	-0.42	-0.50	-0.98	-0.97	-0.95	-0.73	-0.57	-0.97	-0.96	-0.43	-0.28	-0.19	-0.18	-0.20	-0.23	-0.10	0.01	-0.34	0.51	-0.98
11	0.20	0.22	0.34	0.42	0.23	0.07	0.44	-0.14	-0.92	-0.78	-0.98	-1.64	-1.33	-1.45	-1.27	-1.16	-0.91	-0.54	1.02	0.88	0.83	0.31	0.34	0.54	-0.22	1.02	-1.64
12	0.52	0.55	0.54	0.44	0.82	0.57	0.48	-0.43	-0.75	-0.93	-1.20	-1.15	-0.98	-1.23	-1.12	-1.01	-0.85	-0.35	0.34	1.05	0.70	0.73	0.54	0.83	-0.08	1.05	-1.23
13	0.60	0.41	0.70	0.77	0.57	0.85	0.28	-0.31	-0.70	-0.99	-1.07	-1.39	-1.36	-1.42	-1.26	-1.02	-0.97	-0.38	0.61	0.96	0.85	0.28	0.53	0.28	-0.13	0.96	-1.42
14	0.17	0.22	0.44	0.46	0.34	0.64	0.20	-0.47	-0.85	-1.00	-1.04	-1.12	-1.18	-1.27	-1.32	-1.09	-0.74	-0.11	0.85	0.97	1.08	0.53	1.05	0.77	-0.10	1.08	-1.32
15	0.75	0.81	0.38	0.33	0.38	1.05	0.54	-0.47	-0.66	-0.80	-0.95	-1.09	-1.35	-1.28	-1.01	-1.03	-0.67	0.04	1.26	2.02	0.72	0.47	0.67	0.49	0.03	2.02	-1.35
16	0.47	1.22	1.34	0.77	1.13	0.99	0.52	0.17	-0.35	-0.71	-0.67	-0.90	-0.90	-1.05	-0.94	-0.93	-0.37	0.08	0.16	0.71	0.58	0.50	0.34	0.53	0.11	1.34	-1.05
17	0.75	0.55	0.78	0.46	0.63	0.81	0.53	0.11	-0.73	-0.90	-1.02	-1.16	-1.00	-0.82	-0.81	-0.72	-0.36	0.07	1.25	0.89	0.59	0.80	1.11	0.54	0.10	1.25	-1.16
18	0.66	0.60	1.21	1.24	1.14	1.26	0.59	1.03	0.77	0.48	0.02	0.01	-0.86	-0.95	-0.89	-0.74	-0.46	-0.10	0.44	0.38	0.23	0.25	0.36	0.16	0.28	1.26	-0.95
19	0.09	-0.03	0.00	-0.06	-0.08	-0.07	-0.10	-0.20	-0.63	-0.72	-0.80	-0.85	-1.36	-0.70	-0.80	-0.43	-0.44	-0.31	0.00	0.06	0.34	0.69	1.07	1.31	-0.17	1.31	-1.36
20	1.39	0.97	1.20	1.01	0.53	0.58	0.99	-0.25	-0.76	-1.08	-0.94	-1.07	-1.31	-1.41	-1.12	-1.05	-0.78	0.34	1.51	1.12	1.03	1.07	1.33	0.65	0.16	1.51	-1.41
21	1.00	0.99	0.78	1.59	1.02	0.53	0.72	-0.21	-0.78	-0.94	-1.13	-1.29	-1.46	-1.54	-1.07	-0.91	-0.72	-0.12	1.26	1.24	0.56	1.12	0.54	0.56	0.07	1.59	-1.54
22	0.28	0.63	0.56	1.12	0.63	0.77	0.82	0.29	-0.86	-0.96	-0.90	-0.81	-1.10	-1.11	-1.28	-1.31	-0.64	-0.10	0.25	0.60	0.88	0.60	0.44	0.37	-0.03	1.12	-1.31
23	0.49	0.48	1.07	0.99	0.78	1.49	0.82	0.10	-0.79	-0.80	-1.15	-1.17	-0.81	-0.40	-1.23	-1.26	-0.56	-0.24	0.31	1.08	1.13	0.80	0.45	0.15	0.07	1.49	-1.26
24	0.12	0.37	0.56	0.50	0.49	0.84	0.84	0.45	-0.68	-0.88	Au	Au	Au	Au	Au	Au	Au	0.30	1.74	0.89	0.74	0.59	1.10	0.80	0.52	1.74	-0.88
25	0.70	0.43	0.99	0.77	1.56	1.73	0.58	0.23	-0.55	-0.88	Ca	Ca	Ca	Ca	Ca	Ca	Ca	-0.12	0.15	0.25	0.28	0.17	0.20	-0.05	0.38	1.73	-0.88
26	0.02	-0.10	0.03	-0.04	-0.04	-0.04	-0.04	-0.13	-0.47	-0.70	-1.11	-1.32	-0.93	-0.48	-1.00	-1.02	-0.63	0.00	0.32	0.64	0.83	0.49	0.81	0.56	-0.18	0.83	-1.32
27	0.69	0.36	0.61	0.22	0.28	0.76	0.57	0.49	0.20	0.02	-0.15	-0.24	-0.33	-0.21	-0.06	-0.07	-0.08	-0.06	-0.03	0.03	0.05	0.03	0.06	0.09	0.13	0.76	-0.33
28	0.14	0.11	-0.02	-0.07	-0.01	0.07	0.02	-0.03	-0.07	-0.13	-0.18	-0.25	-0.47	-0.38	-0.39	-0.34	-0.24	-0.14	0.01	-0.01	0.00	0.01	0.06	0.03	-0.10	0.14	-0.47
29	-0.06	0.03	0.19	0.79	0.78	0.83	0.44	0.19	-0.42	-0.54	-0.77	-0.90	-0.92	-0.72	-0.90	-0.66	-0.30	-0.18	-0.14	-0.09	-0.06	0.00	0.14	0.12	-0.13	0.83	-0.92
30	0.08	0.17	0.20	0.22	0.23	0.47	0.63	-0.09	-0.17	-0.37	-0.42	-0.60	-0.75	-0.87	-1.02	-0.78	-0.39	-0.21	-0.10	-0.01	0.09	0.44	-0.01	0.01	-0.14	0.63	-1.02
Avg	0.51	0.50	0.59	0.62	0.63	0.64	0.44	-0.12	-0.59	-0.79	-0.90	-0.99	-1.08	-1.04	-1.03	-0.92	-0.64	-0.21	0.50	0.66	0.61	0.48	0.51	0.43	-0.03	1.21	-1.19
Max	1.40	1.57	1.55	1.59	1.56	1.73	0.99	1.03	0.77	0.48	0.02	0.01	-0.33	-0.21	-0.06	-0.07	-0.08	0.34	1.74	2.02	1.60	1.12	1.33	1.31	0.52	2.02	-0.33
Min	-0.14	-0.11	-0.07	-0.07	-0.08	-0.07	-0.12	-0.67	-1.06	-1.24	-1.20	-1.64	-1.57	-1.55	-1.43	-1.31	-1.05	-0.62	-0.26	-0.18	-0.20	-0.23	-0.16	-0.20	-0.34	0.14	-1.64

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	3	69	218	381	545	691	818	892	921	904	842	739	595	432	259	100	5	0	0	0	351	921	0
2	0	0	0	0	3	68	203	380	543	687	811	884	917	870	791	639	636	463	165	102	5	0	0	0	340	917	0
3	0	0	0	0	2	62	122	177	396	604	770	872	900	798	742	572	542	433	313	113	7	0	0	0	309	900	0
4	0	0	0	0	2	18	69	212	305	659	762	532	479	631	516	603	410	274	152	47	13	0	0	0	237	762	0
5	0	0	0	0	2	73	229	375	552	677	790	630	749	863	765	621	573	427	258	103	5	1	1	0	321	863	0
6	0	0	0	0	3	59	217	370	537	680	800	876	899	858	790	622	580	417	255	97	6	1	1	0	336	899	0
7	0	0	0	0	2	61	207	371	538	686	643	698	804	919	855	705	626	429	148	57	5	1	1	1	323	919	0
8	1	1	0	0	2	59	203	367	531	674	784	872	906	887	825	727	574	413	246	96	6	1	0	0	341	906	0
9	0	1	1	1	3	58	230	309	422	535	684	871	539	925	667	324	257	195	105	38	10	0	0	0	257	925	0
10	0	0	0	0	3	56	201	366	532	667	794	866	867	885	824	722	584	426	258	98	5	0	0	0	340	885	0
11	0	0	1	0	2	50	189	356	546	527	806	862	840	816	787	651	548	371	236	83	8	0	0	0	320	862	0
12	0	1	1	1	3	51	190	354	520	665	785	873	905	887	824	726	577	418	251	95	8	0	0	0	339	905	0
13	0	1	1	1	3	49	185	348	509	658	780	862	898	835	811	676	541	376	204	58	4	1	1	1	325	898	0
14	0	0	0	0	3	35	119	210	141	243	492	568	363	432	636	660	445	147	46	13	4	0	0	0	190	660	0
15	0	0	1	1	2	27	141	195	138	642	725	782	817	346	530	233	294	312	94	84	5	0	1	1	224	817	0
16	1	1	1	1	2	48	150	288	447	609	707	787	830	791	672	617	489	316	167	56	5	0	0	0	291	830	0
17	0	0	1	1	2	26	130	320	455	633	760	841	871	735	692	619	498	396	163	75	9	1	0	0	301	871	0
18	0	1	1	1	2	28	81	160	243	251	476	383	405	386	415	449	301	143	52	63	3	0	0	0	160	476	0
19	0	0	1	1	2	23	75	259	479	612	737	785	827	732	790	688	509	352	226	53	3	0	0	0	298	827	0
20	0	1	1	1	2	38	178	344	516	612	713	804	781	915	838	741	576	407	235	38	3	1	1	0	323	915	0
21	0	0	0	0	1	9	48	146	162	185	380	804	742	805	832	700	560	400	222	69	4	1	0	0	253	832	0
22	0	0	0	0	1	22	47	115	186	491	713	841	677	706	664	389	358	216	157	55	2	0	0	0	235	841	0
23	0	0	0	0	1	36	83	264	450	623	823	494	646	803	668	439	340	111	49	74	4	0	0	0	246	823	0
24	0	0	0	0	1	11	67	276	314	248	365	582	898	865	805	711	566	401	231	71	3	0	0	0	267	898	0
25	0	0	0	0	1	29	172	342	507	661	785	864	896	881	819	708	565	399	230	70	3	0	0	0	331	896	0
26	0	0	0	0	1	33	174	340	508	662	785	838	788	820	822	709	563	397	228	68	3	0	0	0	322	838	0
27	0	0	0	0	1	31	171	337	505	658	686	845	895	875	816	702	567	324	165	63	2	0	0	0	318	895	0
28	0	0	0	0	0	10	58	157	332	376	667	661	830	864	583	490	373	307	172	48	4	1	0	0	247	864	0
29	0	0	0	0	1	11	153	308	445	634	755	819	872	333	684	468	487	361	148	23	3	0	0	0	271	872	0
30	0	0	0	0	1	23	153	314	478	631	643	752	290	357	507	346	351	349	124	36	2	0	0	0	223	752	0
31	0	0	0	0	0	27	87	299	475	629	748	743	758	721	803	673	497	333	53	18	2	0	0	0	286	803	0
Avg	0	0	0	0	2	39	147	292	428	575	709	767	768	756	730	602	496	347	181	67	5	0	0	0	288	847	0
Max	1	1	1	1	3	73	230	381	552	691	823	892	921	925	855	741	636	463	313	113	13	1	1	1	351	925	0
Min	0	0	0	0	0	9	47	115	138	185	365	383	290	333	415	233	257	111	46	13	2	0	0	0	160	476	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	18	87	306	470	623	742	794	835	848	742	429	425	35	15	16	1	0	0	0	266	848	0
2	0	0	0	0	0	11	120	281	432	516	587	501	323	323	479	519	453	270	108	37	1	0	0	0	207	587	0
3	0	0	0	0	0	22	79	224	398	530	641	759	618	753	724	530	470	367	223	39	2	0	0	0	266	759	0
4	0	0	0	0	0	16	68	196	349	525	649	649	617	514	179	121	132	74	51	14	1	0	0	0	173	649	0
5	0	0	0	0	0	14	96	251	426	582	659	528	870	538	767	499	398	353	170	41	2	0	0	0	258	870	0
6	0	0	0	0	0	12	109	210	425	579	711	788	693	810	726	647	490	328	168	34	2	0	0	0	281	810	0
7	0	0	0	0	0	13	107	263	420	578	696	719	816	807	739	524	481	320	157	33	1	0	0	0	278	816	0
8	0	0	0	0	0	14	65	110	267	577	433	451	509	622	564	386	73	5	25	29	0	0	0	0	172	622	0
9	0	0	0	0	0	13	129	281	440	578	690	791	821	806	737	601	483	314	143	15	1	0	0	0	285	821	0
10	0	0	0	0	0	11	114	279	449	605	745	770	856	805	721	635	456	246	134	20	1	0	0	0	285	856	0
11	0	0	0	0	0	9	91	252	421	575	698	781	822	799	722	628	478	157	50	3	1	0	0	0	270	822	0
12	0	0	0	0	0	11	50	231	434	536	483	382	298	277	236	278	493	188	54	14	0	0	0	0	165	536	0
13	0	0	0	0	0	9	46	228	444	572	695	689	725	827	639	78	15	139	34	11	0	0	0	0	215	827	0
14	0	0	0	0	0	2	21	50	186	518	602	785	823	808	751	553	180	25	36	17	0	0	0	0	223	823	0
15	0	0	0	0	0	9	115	274	349	153	314	139	439	511	640	368	200	212	149	21	0	0	0	0	162	640	0
16	0	0	0	0	0	6	57	232	397	438	565	463	434	669	406	512	348	278	145	12	0	0	0	0	207	669	0
17	0	0	0	0	0	4	102	262	422	577	706	706	825	798	778	657	483	317	144	15	0	0	0	0	283	825	0
18	0	0	0	0	0	6	97	256	421	573	698	784	818	800	729	621	472	300	133	12	0	0	0	0	280	818	0
19	0	0	0	0	0	5	95	250	412	563	685	731	717	793	720	531	295	178	128	17	0	0	0	0	255	793	0
20	0	0	0	0	0	3	72	236	404	510	640	465	561	642	483	451	420	203	47	5	0	0	0	0	214	642	0
21	0	0	0	0	0	4	41	169	252	527	687	768	625	798	714	281	39	4	58	8	0	0	0	0	207	798	0
22	0	0	0	0	0	3	78	58	16	69	300	272	232	276	108	180	141	69	45	3	0	0	0	0	77	300	0
23	0	0	0	0	0	0	6	17	34	42	67	114	130	179	163	171	134	62	22	3	0	0	0	0	48	179	0
24	0	0	0	0	0	1	29	90	198	244	371	305	260	263	214	219	203	158	26	2	0	0	0	0	108	371	0
25	0	0	0	0	0	3	60	268	408	558	679	758	736	768	697	584	435	272	52	4	0	0	0	0	262	768	0
26	0	0	0	0	0	3	71	239	402	556	678	756	784	766	712	461	436	270	104	5	0	0	0	0	260	784	0
27	0	0	0	0	0	2	78	236	397	549	666	750	782	761	688	553	430	265	97	4	0	0	0	0	261	782	0
28	0	0	0	0	0	2	72	229	384	542	594	734	775	761	620	407	166	93	40	3	0	0	0	0	226	775	0
29	0	0	0	0	0	2	73	231	394	549	673	727	789	760	672	563	425	248	54	4	0	0	0	0	257	789	0
30	0	0	0	0	0	1	23	165	268	382	527	694	792	691	707	585	338	241	90	3	0	0	0	0	229	792	0
31	0	0	0	0	0	1	32	190	319	272	524	621	619	413	539	588	263	289	53	2	0	0	0	0	197	621	0
Avg	0	0	0	0	0	7	74	212	356	484	594	619	643	651	591	457	331	203	89	14	0	0	0	0	222	709	0
Max	0	0	0	0	0	22	129	306	470	623	745	794	870	848	778	657	493	367	223	41	2	0	0	0	285	870	0
Min	0	0	0	0	0	0	6	17	16	42	67	114	130	179	108	78	15	4	15	2	0	0	0	0	48	179	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	1	28	94	314	545	639	755	792	755	676	559	411	213	75	3	0	0	0	0	244	792	0
2	0	0	0	0	0	1	33	215	381	538	657	737	763	743	675	557	405	231	67	2	0	0	0	0	250	763	0
3	0	0	0	0	0	1	30	55	291	552	489	290	375	447	390	548	428	143	33	1	0	0	0	0	170	552	0
4	0	0	0	0	0	1	30	95	205	506	642	584	615	745	671	554	380	224	61	2	0	0	0	0	221	745	0
5	0	0	0	0	0	1	55	212	376	530	651	731	763	740	664	547	400	226	56	1	0	0	0	0	248	763	0
6	0	0	0	0	0	1	54	213	377	531	652	729	760	736	662	540	387	220	52	1	0	0	0	0	246	760	0
7	0	0	0	0	0	1	50	206	370	526	635	706	745	713	649	523	367	203	46	1	0	0	0	0	239	745	0
8	0	0	0	0	0	1	42	180	359	519	636	714	734	707	634	514	365	182	18	1	0	0	0	0	234	734	0
9	0	0	0	0	0	1	39	195	362	482	495	633	739	483	311	440	237	101	35	1	0	0	0	0	190	739	0
10	0	0	0	0	0	0	12	84	202	443	405	428	263	271	554	368	160	42	6	0	0	0	0	0	135	554	0
11	0	0	0	0	0	0	12	149	312	209	375	742	728	743	659	521	367	197	31	1	0	0	0	0	210	743	0
12	0	0	0	0	0	0	45	202	360	513	634	712	737	707	630	508	352	186	26	1	0	0	0	0	234	737	0
13	0	0	0	0	0	0	22	135	247	430	520	655	744	664	629	498	334	160	23	1	0	0	0	0	211	744	0
14	0	0	0	0	0	0	33	182	342	492	611	686	713	689	613	494	338	173	20	0	0	0	0	0	224	713	0
15	0	0	0	0	0	0	31	182	345	497	598	686	715	684	603	476	318	151	17	0	0	0	0	0	221	715	0
16	0	0	0	0	0	0	28	121	287	325	381	407	460	563	588	349	130	102	23	0	0	0	0	0	157	588	0
17	0	0	0	0	0	0	17	135	302	444	556	468	364	352	304	213	150	74	7	0	0	0	0	0	141	556	0
18	0	0	0	0	0	0	4	19	27	77	55	118	522	487	374	223	190	77	11	0	0	0	0	0	91	522	0
19	0	0	0	0	0	0	7	87	247	383	332	385	654	227	390	157	204	151	8	0	0	0	0	0	135	654	0
20	0	0	0	0	0	0	22	160	318	468	583	659	684	657	581	460	306	137	7	0	0	0	0	0	210	684	0
21	0	0	0	0	0	0	21	159	318	466	582	655	681	631	536	382	277	134	8	0	0	0	0	0	202	681	0
22	0	0	0	0	0	0	7	110	330	442	391	316	351	367	507	438	252	97	8	0	0	0	0	0	151	507	0
23	0	0	0	0	0	0	16	112	291	346	526	604	314	289	516	352	122	81	4	0	0	0	0	0	149	604	0
24	0	0	0	0	0	0	11	124	294	439	Au	Au	Au	Au	Au	Au	Au	88	6	0	0	0	0	0	57	439	0
25	0	0	0	0	0	0	15	141	303	452	Ca	Ca	Ca	Ca	Ca	Ca	Ca	99	4	0	0	0	0	0	60	452	0
26	0	0	0	0	0	0	2	30	245	414	527	567	387	162	445	393	233	67	3	0	0	0	0	0	145	567	0
27	0	0	0	0	0	0	2	20	38	53	65	61	87	32	24	35	33	17	1	0	0	0	0	0	20	87	0
28	0	0	0	0	0	0	1	4	12	25	33	60	122	70	68	61	35	20	1	0	0	0	0	0	21	122	0
29	0	0	0	0	0	0	6	63	223	258	352	423	474	248	196	119	37	5	1	0	0	0	0	0	100	474	0
30	0	0	0	0	0	0	3	24	93	260	328	460	514	573	518	269	87	64	2	0	0	0	0	0	133	573	0
Avg	0	0	0	0	0	0	23	124	272	406	477	535	564	517	502	396	261	129	22	1	0	0	0	0	170	610	0
Max	0	0	0	0	0	1	55	215	381	552	657	755	792	755	676	559	428	231	75	3	0	0	0	0	250	792	0
Min	0	0	0	0	0	0	1	4	12	25	33	60	87	32	24	35	33	5	1	0	0	0	0	0	20	87	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	67.0	66.9	72.2	77.9	79.6	75.1	68.3	62.5	52.8	47.2	42.0	32.0	28.1	27.5	26.1	22.4	17.0	20.5	26.1	30.9	39.1	39.6	40.6	42.8	46.0	79.6	17.0
2	42.0	45.9	55.9	62.3	67.4	64.6	57.4	49.9	43.2	40.4	35.9	31.4	26.8	21.8	20.0	19.4	17.7	18.1	25.6	25.8	27.6	27.9	35.3	40.5	37.6	67.4	17.7
3	40.9	47.1	54.2	59.2	65.8	66.2	65.2	64.7	57.3	48.3	41.0	29.3	23.0	22.0	21.7	21.7	21.3	20.9	24.0	24.3	26.2	32.3	43.3	50.6	40.4	66.2	20.9
4	58.7	62.6	72.3	73.0	74.5	78.9	76.3	67.5	70.2	48.7	39.5	31.1	28.8	27.3	27.3	25.1	26.0	29.8	33.0	30.9	31.2	33.3	43.3	50.1	47.5	78.9	25.1
5	63.0	65.3	74.8	72.6	72.8	75.6	64.3	61.0	50.2	31.5	22.1	21.8	20.4	18.6	18.0	18.0	18.0	17.8	18.7	20.6	20.9	23.0	25.5	32.0	38.6	75.6	17.8
6	34.3	46.4	48.3	57.8	59.8	58.9	48.7	46.8	39.7	34.4	29.3	22.9	19.8	19.4	18.4	18.0	18.0	18.6	18.2	19.2	20.2	23.9	29.2	32.6	32.6	59.8	18.0
7	35.1	38.6	42.4	49.7	59.8	55.5	52.7	46.3	39.4	35.6	31.9	28.4	25.1	23.0	21.3	19.4	20.3	23.2	30.2	36.7	45.3	49.9	55.2	57.5	38.4	59.8	19.4
8	59.6	59.5	60.4	64.9	73.4	70.5	65.1	57.3	46.8	39.7	36.6	33.0	29.8	24.2	23.7	22.5	21.3	21.1	23.9	26.0	28.6	32.2	34.5	45.9	41.7	73.4	21.1
9	51.8	55.8	60.8	66.2	71.1	66.2	58.7	53.5	46.5	39.9	35.2	25.7	23.7	23.4	23.1	24.5	25.9	26.7	24.0	26.4	30.9	33.8	37.4	39.7	40.5	71.1	23.1
10	45.2	50.7	57.7	62.2	68.2	67.5	58.1	53.1	44.3	39.0	33.2	28.6	24.4	17.4	16.4	16.2	14.7	11.9	11.5	15.1	15.8	15.8	20.2	25.7	33.9	68.2	11.5
11	25.2	32.9	42.5	44.9	48.3	46.4	55.5	59.1	54.4	49.6	43.5	39.8	37.7	34.1	31.3	31.2	27.1	26.2	25.3	29.8	36.9	40.8	42.6	44.2	39.6	59.1	25.2
12	48.0	52.7	60.5	62.6	69.9	68.8	59.5	53.9	46.5	40.6	38.3	32.1	22.2	21.7	17.5	12.7	13.4	13.4	14.2	16.3	17.9	21.0	26.2	29.7	35.8	69.9	12.7
13	35.4	41.7	44.6	50.8	54.6	53.7	47.0	45.0	38.9	32.3	28.2	27.2	20.9	16.6	15.0	15.3	15.0	13.6	14.4	21.0	24.3	26.4	28.8	32.3	31.0	54.6	13.6
14	33.4	34.1	34.6	35.5	40.8	40.7	41.5	36.2	38.2	38.6	35.6	30.9	29.5	31.5	30.6	28.7	27.7	27.7	28.2	38.8	75.3	66.0	82.1	83.1	41.2	83.1	27.7
15	87.2	85.9	88.5	92.7	94.0	89.6	80.0	83.4	83.8	69.6	63.5	56.4	48.9	58.4	54.6	48.9	62.9	62.2	64.5	63.2	73.9	78.3	88.8	91.0	73.8	94.0	48.9
16	94.1	94.3	95.3	95.8	95.5	92.0	84.6	82.9	73.5	68.2	61.0	54.6	47.4	35.3	27.7	24.4	22.9	22.2	26.3	28.0	33.3	38.5	49.8	57.7	58.6	95.8	22.2
17	60.6	64.5	68.1	72.2	72.4	75.4	71.9	60.9	54.6	45.6	36.9	32.6	26.8	23.4	19.2	16.9	17.7	13.3	15.1	18.0	20.1	23.8	27.0	30.2	40.3	75.4	13.3
18	33.7	40.2	47.5	52.0	51.0	62.3	60.5	62.3	54.2	49.6	40.0	30.4	26.6	27.5	26.7	27.3	28.0	28.4	30.3	32.5	33.8	33.5	35.5	36.7	39.6	62.3	26.6
19	36.0	38.2	41.7	51.9	44.5	47.5	58.2	52.3	41.0	31.2	29.3	29.1	28.4	28.5	27.7	27.0	27.6	27.9	31.2	35.1	38.4	42.5	43.2	44.6	37.6	58.2	27.0
20	50.9	55.4	57.4	54.1	51.5	51.8	48.7	45.1	38.9	34.4	31.4	30.1	28.8	21.9	16.3	14.1	16.1	20.8	26.7	36.2	44.9	52.0	58.0	59.3	39.4	59.3	14.1
21	66.8	71.0	74.0	74.8	77.2	78.7	75.7	67.2	64.1	60.1	51.7	37.7	36.0	31.3	28.9	26.2	26.6	25.9	24.9	24.3	21.7	30.8	49.7	45.2	48.8	78.7	21.7
22	51.7	54.1	51.3	52.7	57.8	59.3	66.0	59.6	56.7	46.0	39.4	33.3	29.8	27.1	23.0	24.1	26.9	28.6	45.6	52.3	66.9	69.5	68.0	73.8	48.5	73.8	23.0
23	75.6	70.2	75.7	84.7	90.0	92.9	91.5	83.8	72.3	64.5	54.0	40.0	35.2	30.1	27.8	25.8	22.4	26.8	33.6	59.6	53.9	66.2	53.7	54.7	57.7	92.9	22.4
24	60.0	67.5	69.7	64.7	63.1	63.2	63.1	60.4	57.7	64.9	69.6	55.3	44.1	34.6	31.5	28.8	28.3	29.0	32.4	37.2	42.3	45.8	48.8	51.3	50.6	69.7	28.3
25	53.0	55.8	58.2	65.7	69.6	71.9	66.6	55.2	47.5	42.8	38.6	35.5	30.0	28.1	25.7	24.8	24.8	24.0	24.4	26.2	30.6	33.6	36.2	40.1	42.0	71.9	24.0
26	47.2	52.8	55.8	62.2	69.1	70.7	61.2	54.9	47.2	40.7	32.4	25.3	22.0	17.6	16.2	16.4	16.6	17.3	18.5	19.9	23.9	28.3	32.9	39.7	37.0	70.7	16.2
27	49.2	51.6	51.1	56.2	58.0	58.1	56.2	47.0	39.6	30.6	26.6	23.4	18.3	14.7	13.1	11.7	12.0	13.4	13.8	14.7	19.4	22.9	30.5	32.0	31.8	58.1	11.7
28	37.4	42.2	42.7	43.9	46.9	45.3	53.5	49.0	41.8	35.9	27.1	24.4	22.8	18.0	15.6	15.9	14.8	14.1	15.6	19.3	21.9	24.0	29.0	33.0	30.6	53.5	14.1
29	36.6	43.6	46.0	48.3	53.9	52.6	49.9	45.0	40.2	32.5	27.9	23.4	18.9	17.1	14.7	19.0	16.8	14.4	16.3	21.4	28.2	31.7	31.0	38.4	32.0	53.9	14.4
30	42.2	45.3	51.3	51.8	55.0	59.4	52.5	45.0	41.3	35.3	31.1	25.7	22.8	22.2	17.5	19.3	19.7	16.1	22.2	30.8	33.1	35.6	45.6	44.4	36.1	59.4	16.1
31	51.1	53.6	59.4	61.3	66.4	69.4	67.5	56.7	48.4	37.9	32.6	28.1	23.2	15.0	14.7	13.5	13.0	15.2	23.3	23.5	26.0	28.4	32.7	37.0	37.4	69.4	13.0
Avg	50.7	54.4	58.5	62.1	65.2	65.4	62.1	57.0	50.7	43.7	38.2	32.2	28.1	25.1	22.9	21.9	22.0	22.2	25.2	29.2	34.0	37.1	42.1	45.7	41.5	69.8	20.3
Max	94.1	94.3	95.3	95.8	95.5	92.9	91.5	83.8	83.8	69.6	69.6	56.4	48.9	58.4	54.6	48.9	62.9	62.2	64.5	63.2	75.3	78.3	88.8	91.0	73.8	95.8	48.9
Min	25.2	32.9	34.6	35.5	40.8	40.7	41.5	36.2	38.2	30.6	22.1	21.8	18.3	14.7	13.1	11.7	12.0	11.9	11.5	14.7	15.8	15.8	20.2	25.7	30.6	53.5	11.5

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	39.9	42.8	50.2	54.5	56.1	58.5	59.1	47.8	39.8	35.0	29.1	22.3	16.1	Co	Co	12.2	13.7	20.8	21.4	27.8	29.6	32.2	40.1	42.6	36.0	59.1	12.2
2	44.6	51.3	57.3	61.2	65.4	65.9	61.6	56.2	48.3	39.5	34.0	28.3	27.4	30.4	22.7	20.7	20.0	19.5	22.9	23.4	29.9	34.3	42.9	47.1	39.8	65.9	19.5
3	51.6	52.9	81.6	76.2	72.3	80.3	83.9	82.1	68.5	57.3	47.8	38.1	31.3	27.8	23.6	21.3	18.8	19.0	20.2	22.5	25.0	27.4	34.7	37.9	45.9	83.9	18.8
4	38.7	45.4	55.8	53.3	53.5	56.2	60.5	55.5	49.9	41.6	36.2	33.6	30.9	30.0	32.9	36.5	39.7	39.9	56.4	54.4	49.9	53.5	61.8	68.5	47.3	68.5	30.0
5	75.7	81.3	82.4	81.6	86.6	89.2	84.6	76.2	63.6	55.6	47.7	41.2	33.5	27.4	21.6	20.1	20.7	20.1	22.1	24.2	28.2	32.4	44.4	44.7	50.2	89.2	20.1
6	48.3	55.3	54.8	56.1	59.7	63.1	59.6	54.5	48.0	36.9	32.5	27.6	20.9	15.1	13.3	13.6	12.0	11.8	11.9	16.1	20.9	24.0	28.6	33.1	34.1	63.1	11.8
7	36.6	41.8	45.4	52.2	57.9	58.7	59.4	51.6	42.7	35.2	32.2	26.3	22.4	19.9	19.4	17.9	17.7	17.2	17.3	18.4	21.3	22.4	28.0	31.2	33.0	59.4	17.2
8	35.0	38.3	38.3	40.1	50.6	50.7	51.4	47.3	42.1	35.9	38.3	38.0	33.9	28.3	25.4	22.7	31.9	66.1	80.0	83.3	78.7	87.4	74.2	80.0	49.9	87.4	22.7
9	81.2	83.0	94.5	95.1	96.7	99.3	93.6	82.0	72.1	67.5	57.7	46.7	36.1	30.5	26.0	23.0	23.2	22.4	25.0	30.6	29.5	34.5	48.6	51.3	56.3	99.3	22.4
10	54.2	62.5	65.5	69.9	71.0	74.0	69.6	63.6	51.6	42.0	34.3	27.6	15.3	12.7	12.7	12.0	11.9	13.1	13.7	14.2	14.4	19.0	27.5	35.0	37.0	74.0	11.9
11	37.0	36.6	41.5	45.6	48.9	52.5	48.4	42.4	37.1	30.4	25.3	21.2	19.2	16.3	14.8	13.8	14.4	16.4	18.5	19.5	22.3	25.2	27.8	31.8	29.5	52.5	13.8
12	40.4	42.0	45.3	51.0	50.8	52.2	53.5	52.3	39.8	31.0	28.8	26.1	27.0	30.2	31.3	44.4	35.7	33.1	36.5	37.8	43.7	49.4	50.4	60.7	41.4	60.7	26.1
13	62.8	65.9	72.1	76.5	78.3	80.8	78.4	72.5	61.7	48.7	39.9	36.4	25.7	22.0	19.2	24.5	66.8	86.0	78.0	83.0	85.1	88.5	93.3	96.5	64.3	96.5	19.2
14	99.1	97.8	96.1	95.9	96.3	99.1	98.5	96.8	95.7	79.7	72.9	55.4	42.6	35.5	32.5	30.5	34.2	40.7	67.8	69.3	76.0	80.2	79.7	87.9	73.3	99.1	30.5
15	86.5	84.2	86.6	88.8	92.7	98.6	90.2	82.9	83.3	79.8	77.6	76.6	67.1	55.9	45.6	43.9	48.7	50.4	52.6	54.2	56.6	57.4	66.4	71.4	70.8	98.6	43.9
16	76.2	79.3	83.8	81.4	85.3	88.8	87.9	79.0	69.7	62.3	46.6	43.2	42.8	39.3	39.8	37.7	37.5	41.5	45.6	53.5	58.5	62.0	65.9	68.2	61.5	88.8	37.5
17	78.1	77.8	78.3	88.9	88.7	94.0	82.1	72.9	63.1	54.3	41.7	36.1	33.5	30.6	27.9	26.6	27.1	27.1	28.7	34.2	38.7	44.8	50.2	57.7	53.5	94.0	26.6
18	63.6	69.9	70.9	76.2	75.8	78.6	70.9	64.2	56.6	49.3	40.6	34.8	26.4	23.0	21.8	20.3	21.6	24.0	26.9	28.5	32.5	37.1	46.7	50.6	46.3	78.6	20.3
19	54.3	59.5	61.7	62.8	70.5	71.9	67.9	59.0	50.1	40.3	34.2	27.9	24.9	22.3	19.6	19.5	20.0	20.7	27.0	34.4	37.6	39.7	45.3	48.3	42.5	71.9	19.5
20	55.3	56.6	59.3	62.6	66.2	67.8	71.0	60.7	54.3	45.2	36.9	37.0	37.2	35.8	34.6	34.0	32.3	36.8	45.6	62.7	67.4	80.9	88.8	88.2	54.9	88.8	32.3
21	83.8	87.4	92.2	96.2	92.7	96.5	95.7	88.1	81.4	69.7	62.2	56.7	47.1	39.8	35.2	37.1	57.1	86.8	89.7	88.3	88.0	85.6	82.6	79.4	75.8	96.5	35.2
22	77.3	80.7	84.7	85.3	87.0	87.8	84.7	81.3	90.4	92.4	82.2	71.3	66.5	63.4	60.6	59.6	57.2	57.4	58.4	60.3	62.0	66.3	67.7	76.8	73.4	92.4	57.2
23	79.3	83.0	91.7	93.0	93.7	96.0	94.9	93.5	93.4	93.4	92.7	91.2	90.1	89.3	88.7	83.3	79.3	81.8	82.9	84.9	89.9	93.1	90.8	93.9	89.3	96.0	79.3
24	97.5	96.9	96.7	96.5	95.4	96.8	96.7	91.5	85.9	81.9	72.3	65.4	59.3	58.9	52.2	51.8	50.8	50.7	68.4	70.7	70.5	72.3	73.8	73.6	76.1	97.5	50.7
25	75.6	76.0	78.1	79.5	85.0	83.6	76.8	69.9	68.9	62.7	54.0	45.4	43.4	40.3	39.0	36.9	35.8	35.7	47.3	50.0	54.0	70.2	73.1	76.4	60.7	85.0	35.7
26	79.2	82.0	85.2	88.9	92.6	94.6	89.3	80.1	69.9	63.7	56.9	48.2	35.6	30.5	27.5	26.4	25.4	26.5	30.1	34.2	37.1	52.1	61.0	60.6	57.4	94.6	25.4
27	67.4	72.1	73.6	77.6	82.1	84.6	77.6	70.4	60.2	54.0	48.2	39.1	30.9	28.6	26.8	26.2	25.0	24.4	26.8	34.0	39.2	52.5	56.3	62.1	51.7	84.6	24.4
28	61.9	68.5	74.5	77.7	79.4	81.0	81.1	67.6	58.5	49.3	37.8	33.2	28.6	24.7	22.2	21.3	20.3	19.1	24.3	25.9	26.2	29.8	32.7	35.8	45.1	81.1	19.1
29	43.5	53.1	58.3	65.0	70.7	74.9	70.7	67.7	60.1	50.1	41.7	32.6	26.3	23.6	21.6	20.0	15.3	15.9	19.8	21.3	24.4	30.7	41.9	37.5	41.1	74.9	15.3
30	48.8	52.5	35.5	40.4	66.1	64.1	66.6	62.8	60.8	52.0	48.2	42.6	38.6	36.7	35.1	33.6	33.3	32.3	33.3	39.4	46.0	48.2	52.0	61.0	47.1	66.6	32.3
31	59.7	59.1	64.4	71.5	78.6	74.0	75.7	69.6	62.4	66.6	67.0	65.6	51.3	50.2	44.7	38.5	38.3	39.0	42.0	48.5	54.2	58.8	61.5	62.2	58.5	78.6	38.3
Avg	62.4	65.7	69.6	72.3	75.7	77.9	75.5	69.1	62.3	54.9	48.3	42.4	36.5	34.0	31.3	30.0	31.8	35.4	40.0	43.5	46.4	51.4	56.1	59.7	53.1	81.5	28.0
Max	99.1	97.8	96.7	96.5	96.7	99.3	98.5	96.8	95.7	93.4	92.7	91.2	90.1	89.3	88.7	83.3	79.3	86.8	89.7	88.3	89.9	93.1	93.3	96.5	89.3	99.3	79.3
Min	35.0	36.6	35.5	40.1	48.9	50.7	48.4	42.4	37.1	30.4	25.3	21.2	15.3	12.7	12.7	12.0	11.9	11.8	11.9	14.2	14.4	19.0	27.5	31.2	29.5	52.5	11.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	67.2	68.0	67.8	70.5	73.3	74.7	78.7	79.2	62.5	47.7	39.4	35.6	34.6	33.7	31.7	30.9	30.7	31.8	34.3	40.2	43.8	46.2	48.9	53.2	51.0	79.2	30.7
2	64.5	68.7	71.8	74.4	76.2	83.3	82.2	70.0	64.3	54.6	44.3	35.2	31.6	26.8	20.3	18.8	19.6	21.7	24.7	26.3	28.4	36.6	40.5	49.1	47.2	83.3	18.8
3	53.9	54.0	56.4	61.8	59.9	50.8	61.1	65.8	52.7	41.8	36.9	35.3	33.1	34.9	39.9	45.1	42.0	48.3	53.8	58.6	62.8	68.3	78.4	81.1	53.2	81.1	33.1
4	82.8	82.4	83.2	86.6	85.3	86.7	89.4	84.7	72.6	62.0	51.5	44.8	40.3	35.9	32.1	29.7	27.8	27.9	30.8	32.9	38.5	47.8	57.0	64.7	57.4	89.4	27.8
5	70.5	73.3	76.0	76.8	82.7	85.1	80.7	71.1	62.0	54.6	46.3	37.4	30.3	27.1	25.4	21.4	19.1	22.9	29.9	29.4	37.5	50.5	49.8	59.5	50.8	85.1	19.1
6	59.0	64.8	65.7	71.3	74.1	78.1	74.1	66.2	56.3	48.1	38.3	32.6	28.3	22.4	17.3	16.8	17.8	22.1	25.6	25.5	36.3	42.2	47.9	48.6	45.0	78.1	16.8
7	53.2	55.5	59.9	64.6	66.1	70.6	68.7	57.3	53.7	42.7	33.7	28.3	25.0	14.4	10.9	11.2	12.3	11.7	12.5	15.6	17.9	27.4	32.4	34.9	36.7	70.6	10.9
8	36.8	40.8	47.1	48.5	52.3	61.0	56.5	53.9	47.4	37.2	31.0	22.6	15.3	11.2	10.1	Co	Co	Co	11.8	15.6	17.4	20.1	24.4	27.7	32.8	61.0	10.1
9	29.9	43.0	53.5	64.8	70.0	73.6	72.9	64.0	57.7	51.1	44.9	41.6	37.7	35.7	32.5	28.6	31.1	40.9	47.2	53.1	75.7	71.3	68.7	70.5	52.5	75.7	28.6
10	72.4	74.8	75.0	78.2	80.5	81.2	80.6	77.9	71.0	61.0	59.2	48.8	59.0	58.8	47.0	45.7	62.9	61.7	64.9	81.1	95.4	95.6	93.2	92.2	71.6	95.6	45.7
11	91.3	90.6	82.1	79.1	74.3	68.1	77.0	68.1	62.0	62.8	59.6	51.7	48.0	42.1	35.6	32.9	31.3	32.4	41.9	53.2	62.0	71.8	76.2	79.3	61.4	91.3	31.3
12	82.4	82.8	88.7	89.7	89.9	91.2	93.1	79.9	72.1	61.6	52.2	41.5	32.4	27.7	24.3	20.3	19.5	19.5	22.3	25.9	27.2	35.4	45.2	49.9	53.1	93.1	19.5
13	43.6	42.2	47.0	51.9	59.6	67.4	68.6	64.8	66.0	56.5	50.5	44.8	39.8	35.1	30.8	26.7	26.1	27.4	34.8	39.3	48.2	51.6	58.3	63.6	47.7	68.6	26.1
14	67.0	69.8	73.2	79.4	82.2	86.2	82.4	70.1	63.9	55.7	45.5	37.1	31.9	23.4	18.9	14.2	15.1	15.9	15.8	20.1	30.3	38.5	45.6	49.1	47.1	86.2	14.2
15	52.4	55.9	59.0	64.5	66.6	71.9	70.2	60.7	54.0	45.4	38.8	32.4	27.1	22.8	18.4	12.4	13.0	14.5	17.1	20.2	29.8	35.9	36.6	41.3	40.0	71.9	12.4
16	42.2	46.3	49.6	49.5	53.6	61.8	63.3	57.3	54.2	46.2	36.6	32.2	28.2	25.4	23.4	22.0	26.5	25.6	35.2	51.2	57.1	72.7	76.2	77.3	46.4	77.3	22.0
17	78.0	81.7	87.5	94.7	91.4	92.0	91.7	83.4	73.7	63.0	52.1	48.9	46.4	41.5	39.0	41.6	37.5	41.7	44.9	47.3	54.7	58.5	60.1	57.0	62.8	94.7	37.5
18	56.4	51.7	55.5	62.7	64.3	68.5	71.5	63.2	64.0	61.1	64.6	60.0	46.4	36.1	33.4	33.9	29.6	31.6	34.4	34.8	34.8	37.6	41.3	43.5	49.2	71.5	29.6
19	44.7	46.1	48.8	52.5	56.7	56.1	55.4	56.4	52.5	47.3	45.1	42.0	38.6	42.2	39.7	40.1	38.1	40.8	45.3	48.2	51.4	56.6	59.4	63.8	48.7	63.8	38.1
20	69.6	70.1	74.9	74.4	82.1	82.2	81.3	77.5	65.3	58.1	50.7	41.1	32.3	29.3	25.8	21.0	20.4	23.2	28.0	30.8	41.7	36.7	44.0	47.7	50.3	82.2	20.4
21	49.5	51.5	54.4	62.0	67.1	67.9	67.4	61.4	53.9	47.4	41.9	36.1	30.9	26.5	22.0	18.5	16.4	18.2	25.9	36.9	38.1	45.6	45.5	46.5	43.0	67.9	16.4
22	49.5	52.9	58.4	61.3	64.6	71.8	75.2	70.7	58.1	49.7	46.1	40.9	41.7	39.0	32.4	29.7	22.6	23.4	26.5	28.0	34.2	45.6	56.4	64.6	47.6	75.2	22.6
23	64.4	65.3	71.8	74.4	75.8	80.0	82.0	77.5	65.0	56.7	48.8	38.3	34.5	47.2	37.4	39.3	45.4	48.4	52.5	59.5	62.8	68.1	69.5	72.7	59.9	82.0	34.5
24	72.2	74.9	80.9	83.9	83.7	89.4	92.8	81.6	69.0	58.9	Au	Au	Au	Au	Au	Au	Au	18.7	21.3	23.2	25.9	26.4	29.6	36.9	57.0	92.8	18.7
25	42.3	45.9	50.6	55.3	56.9	66.5	64.0	55.8	48.5	40.3	Ca	Ca	Ca	Ca	Ca	Ca	Ca	13.8	23.9	27.7	29.4	32.1	36.6	40.2	42.9	66.5	13.8
26	45.5	53.3	77.6	87.0	82.4	77.9	74.2	72.6	64.6	58.0	56.7	51.4	41.5	38.1	36.4	35.2	33.9	34.9	39.8	48.3	53.4	55.4	63.1	70.0	56.3	87.0	33.9
27	67.2	74.1	69.1	70.1	72.7	67.3	69.2	69.6	84.3	86.3	84.5	84.6	79.3	78.7	80.9	71.6	67.5	66.2	65.6	62.7	64.5	71.1	77.6	82.3	73.6	86.3	62.7
28	82.9	80.1	73.9	73.2	71.3	75.0	80.5	77.6	76.2	75.2	75.9	76.1	72.5	70.6	70.4	69.1	68.9	69.6	70.3	70.9	71.7	72.7	75.2	81.2	74.2	82.9	68.9
29	84.4	83.3	81.6	88.4	94.1	94.2	95.0	93.7	85.3	75.4	71.4	62.6	59.3	56.3	54.3	55.1	57.4	63.2	69.8	73.8	89.8	95.7	93.5	92.3	77.9	95.7	54.3
30	91.6	90.9	91.4	92.7	95.4	95.1	93.6	95.0	87.4	76.7	63.2	54.0	51.4	47.9	44.6	47.9	56.6	64.4	68.5	71.1	69.2	70.2	67.7	69.2	73.2	95.4	44.6
Avg	62.2	64.5	67.7	71.5	73.5	75.9	76.4	70.9	64.0	56.1	50.3	44.2	39.9	36.8	33.4	32.6	32.9	33.9	37.3	41.7	47.7	52.8	56.6	60.3	53.9	81.0	28.8
Max	91.6	90.9	91.4	94.7	95.4	95.1	95.0	95.0	87.4	86.3	84.5	84.6	79.3	78.7	80.9	71.6	68.9	69.6	70.3	81.1	95.4	95.7	93.5	92.3	77.9	95.7	68.9
Min	29.9	40.8	47.0	48.5	52.3	50.8	55.4	53.9	47.4	37.2	31.0	22.6	15.3	11.2	10.1	11.2	12.3	11.7	11.8	15.6	17.4	20.1	24.4	27.7	32.8	61.0	10.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	Ca	Ca	Ca	Ca	Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Co	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Co	Co	Co	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
July 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.19	26.19	26.19	26.20	26.21	26.21	26.22	26.21	26.20	26.18	26.16	26.14	26.13	26.11	26.10	26.08	26.07	26.06	26.06	26.05	26.05	26.07	26.07	26.07	26.13	26.22	26.05
2	26.07	26.07	26.07	26.07	26.07	26.07	26.07	26.06	26.05	26.03	26.01	25.99	25.98	25.96	25.94	25.93	25.92	25.91	25.91	25.91	25.92	25.95	25.99	25.98	26.00	26.07	25.91
3	25.96	25.96	25.97	25.98	25.99	26.00	26.00	26.01	26.00	25.99	25.97	25.96	25.94	25.93	25.91	25.90	25.89	25.89	25.89	25.90	25.91	25.95	25.97	25.99	25.95	26.01	25.89
4	26.00	26.00	26.01	26.01	26.02	26.03	26.03	26.04	26.02	26.01	26.00	25.97	25.96	25.94	25.93	25.93	25.93	25.93	25.94	25.94	25.95	25.97	25.99	26.00	25.98	26.04	25.93
5	26.00	26.01	26.02	26.03	26.04	26.05	26.06	26.07	26.08	26.07	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.07	26.07	26.09	26.11	26.12	26.14	26.06	26.14	26.00
6	26.14	26.15	26.15	26.15	26.16	26.17	26.18	26.17	26.16	26.14	26.12	26.10	26.08	26.06	26.05	26.04	26.03	26.02	26.01	26.02	26.02	26.04	26.05	26.07	26.09	26.18	26.01
7	26.08	26.09	26.10	26.11	26.13	26.14	26.14	26.14	26.14	26.13	26.12	26.12	26.11	26.09	26.08	26.06	26.06	26.05	26.04	26.05	26.07	26.09	26.09	26.10	26.10	26.14	26.04
8	26.11	26.11	26.11	26.12	26.11	26.12	26.12	26.11	26.10	26.08	26.07	26.05	26.03	26.01	25.99	25.97	25.97	25.96	25.95	25.95	25.96	25.97	25.98	25.99	26.04	26.12	25.95
9	26.00	26.00	26.00	26.00	26.01	26.02	26.02	26.02	26.01	25.99	25.98	25.96	25.94	25.93	25.91	25.90	25.90	25.89	25.89	25.89	25.89	25.90	25.91	25.91	25.95	26.02	25.89
10	25.92	25.92	25.93	25.93	25.94	25.96	25.96	25.97	25.96	25.95	25.93	25.91	25.89	25.87	25.85	25.85	25.85	25.85	25.86	25.87	25.90	25.92	25.94	25.97	25.91	25.97	25.85
11	25.98	25.99	26.00	26.02	26.05	26.07	26.09	26.09	26.10	26.09	26.09	26.08	26.06	26.04	26.03	26.01	26.00	26.00	26.01	26.02	26.05	26.09	26.10	26.11	26.05	26.11	25.98
12	26.13	26.14	26.15	26.16	26.18	26.19	26.20	26.21	26.21	26.20	26.19	26.18	26.17	26.15	26.14	26.13	26.13	26.12	26.12	26.13	26.14	26.16	26.17	26.18	26.16	26.21	26.12
13	26.19	26.20	26.21	26.22	26.23	26.23	26.24	26.24	26.23	26.21	26.19	26.17	26.15	26.13	26.11	26.11	26.10	26.10	26.10	26.10	26.13	26.16	26.17	26.17	26.17	26.24	26.10
14	26.17	26.17	26.18	26.17	26.18	26.19	26.20	26.20	26.20	26.19	26.17	26.14	26.11	26.11	26.09	26.07	26.05	26.03	26.02	26.03	26.06	26.07	26.09	26.10	26.12	26.20	26.02
15	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.09	26.08	26.06	26.04	26.04	26.05	26.04	26.07	26.07	26.07	26.07	26.08	26.08	26.08	26.09	26.08	26.10	26.04
16	26.09	26.09	26.09	26.10	26.10	26.11	26.10	26.10	26.10	26.09	26.08	26.06	26.03	26.01	25.99	25.98	25.97	25.96	25.96	25.96	25.96	25.97	25.98	25.98	26.04	26.11	25.96
17	25.99	25.99	25.99	25.99	25.99	25.99	26.00	25.99	25.99	25.97	25.95	25.92	25.89	25.87	25.84	25.82	25.81	25.80	25.81	25.83	25.84	25.87	25.89	25.90	25.91	26.00	25.80
18	25.92	25.92	25.93	25.93	25.94	25.95	25.96	25.96	25.96	25.96	25.95	25.94	25.94	25.94	25.93	25.92	25.93	25.94	25.94	25.94	25.95	25.96	25.98	25.98	25.94	25.98	25.92
19	25.98	25.97	25.97	25.97	25.96	25.97	25.98	25.97	25.95	25.94	25.92	25.91	25.91	25.90	25.89	25.89	25.89	25.89	25.90	25.90	25.90	25.90	25.90	25.90	25.93	25.98	25.89
20	25.90	25.90	25.89	25.89	25.91	25.91	25.91	25.91	25.90	25.89	25.88	25.87	25.86	25.84	25.83	25.81	25.81	25.80	25.79	25.82	25.85	25.87	25.88	25.88	25.87	25.91	25.79
21	25.89	25.89	25.91	25.90	25.91	25.91	25.92	25.94	25.95	25.96	25.97	25.97	25.97	25.95	25.95	25.96	25.96	25.96	25.98	26.01	26.04	26.08	26.10	26.10	25.97	26.10	25.89
22	26.11	26.11	26.12	26.12	26.12	26.14	26.15	26.16	26.16	26.16	26.15	26.13	26.11	26.10	26.09	26.08	26.08	26.08	26.08	26.09	26.12	26.13	26.13	26.12	26.12	26.16	26.08
23	26.11	26.11	26.14	26.23	26.19	26.19	26.18	26.14	26.13	26.11	26.09	26.07	26.04	26.00	25.98	25.95	25.92	25.89	25.87	25.91	25.92	25.94	25.91	25.92	26.04	26.23	25.87
24	25.93	25.94	25.96	25.98	25.99	25.99	26.00	26.00	25.99	26.00	26.03	26.06	26.05	26.05	26.05	26.04	26.03	26.03	26.03	26.04	26.06	26.08	26.09	26.09	26.02	26.09	25.93
25	26.08	26.07	26.08	26.08	26.08	26.09	26.09	26.08	26.07	26.06	26.04	26.02	26.01	25.99	25.99	25.98	Co	26.00	26.01	26.02	26.04	26.06	26.07	26.09	26.05	26.09	25.98
26	26.10	26.11	26.12	26.14	26.15	26.17	26.18	26.19	26.19	26.18	26.18	26.17	26.15	26.14	26.13	26.12	26.12	26.12	26.12	26.13	26.15	26.17	26.19	26.20	26.15	26.20	26.10
27	26.21	26.22	26.23	26.24	26.25	26.26	26.26	26.26	26.25	26.24	26.22	26.20	26.18	26.17	26.15	26.13	26.12	26.12	26.12	26.13	26.14	26.15	26.17	26.18	26.19	26.26	26.12
28	26.18	26.19	26.19	26.20	26.20	26.21	26.21	26.22	26.21	26.20	26.19	26.17	26.15	26.13	26.12	26.11	26.10	26.09	26.08	26.08	26.09	26.11	26.12	26.13	26.15	26.22	26.08
29	26.15	26.15	26.15	26.16	26.17	26.18	26.19	26.19	26.19	26.18	26.16	26.14	26.12	26.11	26.09	26.09	26.09	26.08	26.07	26.08	26.10	26.12	26.12	26.13	26.13	26.19	26.07
30	26.14	26.14	26.15	26.16	26.17	26.18	26.18	26.18	26.17	26.16	26.14	26.12	26.10	26.10	26.09	26.08	26.09	26.08	26.09	26.10	26.12	26.14	26.14	26.15	26.13	26.18	26.08
31	26.15	26.16	26.17	26.17	26.17	26.18	26.19	26.19	26.19	26.17	26.16	26.14	26.11	26.09	26.08	26.07	26.06	26.06	26.08	26.10	26.11	26.11	26.12	26.12	26.13	26.19	26.06
Avg	26.06	26.07	26.07	26.08	26.09	26.10	26.10	26.10	26.10	26.08	26.07	26.06	26.04	26.03	26.01	26.00	26.00	25.99	26.00	26.00	26.02	26.04	26.05	26.06	26.05	26.12	25.98
Max	26.21	26.22	26.23	26.24	26.25	26.26	26.26	26.26	26.25	26.24	26.22	26.20	26.18	26.17	26.15	26.13	26.13	26.12	26.12	26.13	26.15	26.17	26.19	26.20	26.19	26.26	26.12
Min	25.89	25.89	25.89	25.89	25.91	25.91	25.91	25.91	25.90	25.89	25.88	25.87	25.86	25.84	25.83	25.81	25.81	25.80	25.79	25.82	25.84	25.87	25.88	25.88	25.87	25.91	25.79

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
August 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.13	26.14	26.15	26.15	26.16	26.16	26.17	26.18	26.18	26.17	26.15	26.13	26.10	26.08	26.05	26.04	26.04	26.05	26.08	26.10	26.11	26.13	26.12	26.11	26.12	26.18	26.04
2	26.12	26.13	26.13	26.14	26.14	26.15	26.15	26.15	26.15	26.14	26.13	26.12	26.11	26.11	26.09	26.08	26.07	26.06	26.04	26.04	26.05	26.07	26.07	26.08	26.11	26.15	26.04
3	26.09	26.10	26.13	26.13	26.14	26.14	26.14	26.14	26.14	26.13	26.12	26.10	26.08	26.07	26.05	26.03	26.02	26.02	26.02	26.03	26.04	26.05	26.07	26.07	26.09	26.14	26.02
4	26.08	26.08	26.08	26.08	26.08	26.09	26.10	26.10	26.09	26.08	26.06	26.03	26.01	26.00	25.98	25.99	26.01	26.01	26.02	26.02	26.04	26.06	26.07	26.07	26.05	26.10	25.98
5	26.06	26.07	26.07	26.07	26.08	26.09	26.10	26.10	26.09	26.08	26.07	26.05	26.03	26.01	25.99	25.97	25.97	25.97	25.97	25.97	25.98	25.99	26.00	26.02	26.03	26.10	25.97
6	26.02	26.03	26.04	26.04	26.06	26.06	26.07	26.07	26.07	26.06	26.04	26.02	26.00	25.98	25.96	25.95	25.94	25.93	25.93	25.94	25.95	25.97	25.99	26.00	26.01	26.07	25.93
7	26.02	26.02	26.03	26.04	26.05	26.06	26.07	26.07	26.07	26.06	26.04	26.02	25.99	25.97	25.95	25.93	25.92	25.91	25.92	25.93	25.94	25.96	25.97	25.98	26.00	26.07	25.91
8	25.99	26.00	26.00	26.00	26.02	26.02	26.03	26.04	26.03	26.04	26.04	26.02	26.00	25.97	25.95	25.93	25.93	26.01	26.05	26.04	26.05	26.07	26.07	26.07	26.02	26.07	25.93
9	26.09	26.10	26.10	26.11	26.12	26.14	26.15	26.17	26.17	26.18	26.17	26.15	26.14	26.12	26.11	26.09	26.08	26.08	26.08	26.09	26.10	26.13	26.14	26.14	26.12	26.18	26.08
10	26.16	26.17	26.17	26.19	26.19	26.21	26.22	26.22	26.23	26.22	26.21	26.19	26.17	26.15	26.13	26.12	26.12	26.11	26.11	26.11	26.12	26.14	26.16	26.18	26.17	26.23	26.11
11	26.19	26.19	26.19	26.20	26.20	26.21	26.22	26.22	26.22	26.20	26.18	26.15	26.13	26.10	26.08	26.06	26.05	26.04	26.02	26.03	26.05	26.05	26.05	26.06	26.13	26.22	26.02
12	26.07	26.07	26.07	26.07	26.08	26.08	26.08	26.08	26.06	26.04	26.03	26.04	26.05	26.05	26.06	26.05	26.02	26.01	26.00	25.99	26.00	26.02	26.02	26.03	26.04	26.08	25.99
13	26.05	26.04	26.04	26.05	26.05	26.06	26.06	26.07	26.07	26.05	26.03	26.01	25.98	25.96	25.93	25.91	26.03	26.03	26.04	26.03	26.04	26.05	26.05	26.04	26.03	26.07	25.91
14	26.04	26.02	26.00	26.00	26.01	26.02	26.04	26.05	26.05	26.04	26.03	26.02	26.01	25.99	25.97	25.95	25.95	25.95	25.97	25.98	25.99	26.00	26.01	26.03	26.00	26.05	25.95
15	26.05	26.03	26.03	26.05	26.06	26.06	26.06	26.06	26.08	26.06	26.08	26.10	26.07	26.06	26.04	26.01	26.01	Co	Co	Co	26.08	26.08	26.08	26.09	26.06	26.10	26.01
16	26.09	26.08	26.09	26.09	26.09	26.10	26.11	26.11	26.11	26.10	26.09	26.08	26.07	26.07	26.07	26.06	26.06	26.06	26.06	26.06	26.08	26.09	26.10	26.10	26.08	26.11	26.06
17	26.10	26.09	26.10	26.10	26.11	26.12	26.13	26.13	26.13	26.13	26.11	26.10	26.08	26.08	26.07	26.06	26.06	26.05	26.04	26.05	26.06	26.07	26.09	26.09	26.09	26.13	26.04
18	26.08	26.09	26.09	26.09	26.09	26.09	26.09	26.08	26.08	26.06	26.04	26.01	25.98	25.96	25.93	25.92	25.91	25.90	25.89	25.88	25.89	25.90	25.90	25.90	25.99	26.09	25.88
19	25.90	25.89	25.90	25.90	25.90	25.90	25.90	25.89	25.89	25.87	25.85	25.82	25.79	25.77	25.75	25.74	25.74	25.74	25.76	25.78	25.81	25.82	25.81	25.82	25.83	25.90	25.74
20	25.83	25.82	25.85	25.85	25.85	25.86	25.88	25.88	25.89	25.89	25.88	25.87	25.86	25.86	25.85	25.85	25.85	25.86	25.88	25.89	25.91	25.95	25.97	25.97	25.88	25.97	25.82
21	25.97	25.99	26.00	26.00	26.00	26.01	26.02	26.03	26.03	26.03	26.03	26.02	26.00	25.98	25.96	25.95	25.96	26.03	26.04	26.04	26.06	26.07	26.07	26.06	26.01	26.07	25.95
22	26.04	26.03	26.04	26.04	26.04	26.04	26.05	26.05	26.06	26.06	26.05	26.04	26.03	26.02	26.01	26.01	26.01	26.02	26.03	26.04	26.05	26.07	26.07	26.09	26.04	26.09	26.01
23	26.08	26.08	26.08	26.08	26.08	26.09	26.09	26.10	26.11	26.12	26.13	26.14	26.14	26.13	26.13	26.13	26.13	26.14	26.14	26.14	26.14	26.14	26.13	26.12	26.12	26.14	26.08
24	26.11	26.10	26.09	26.09	26.08	26.08	26.09	26.08	26.08	26.08	26.07	26.07	26.06	26.06	26.05	26.05	26.05	26.05	26.06	26.07	26.09	26.10	26.11	26.11	26.08	26.11	26.05
25	26.11	26.11	26.11	26.11	26.11	26.12	26.13	26.13	26.12	26.11	26.09	26.07	26.05	26.04	26.02	26.01	26.00	25.99	25.99	26.00	26.02	26.04	26.05	26.07	26.07	26.13	25.99
26	26.08	26.09	26.10	26.10	26.12	26.13	26.15	26.15	26.15	26.15	26.14	26.12	26.10	26.09	26.07	26.06	26.06	26.05	26.05	26.06	26.08	26.10	26.11	26.11	26.10	26.15	26.05
27	26.12	26.12	26.13	26.13	26.13	26.15	26.16	26.16	26.15	26.14	26.13	26.11	26.08	26.07	26.05	26.03	26.04	26.03	26.03	26.03	26.05	26.06	26.06	26.06	26.09	26.16	26.03
28	26.07	26.07	26.07	26.07	26.08	26.09	26.09	26.09	26.08	26.07	26.05	26.02	25.98	25.96	25.95	25.94	25.95	25.96	25.96	25.98	25.98	25.99	26.01	26.02	26.02	26.09	25.94
29	26.03	26.04	26.04	26.05	26.05	26.06	26.06	26.06	26.05	26.03	26.01	25.98	25.94	25.92	25.89	25.87	25.86	25.85	25.83	25.83	25.85	25.86	25.86	25.85	25.95	26.06	25.83
30	25.86	25.87	25.88	25.91	25.91	25.89	25.88	25.87	25.87	25.87	25.86	25.85	25.83	25.82	25.81	25.81	25.82	25.83	25.83	25.85	25.86	25.86	25.87	25.87	25.86	25.91	25.81
31	25.88	25.89	25.89	25.89	25.91	25.92	25.93	25.93	25.93	25.94	25.95	25.95	25.94	25.94	25.93	25.93	25.93	25.94	25.94	25.96	25.97	25.98	25.99	26.00	25.94	26.00	25.88
Avg	26.05	26.05	26.05	26.06	26.06	26.07	26.08	26.08	26.08	26.07	26.06	26.05	26.03	26.01	26.00	25.98	25.99	25.99	25.99	26.00	26.01	26.03	26.03	26.04	26.04	26.09	25.97
Max	26.19	26.19	26.19	26.20	26.20	26.21	26.22	26.22	26.23	26.22	26.21	26.19	26.17	26.15	26.13	26.13	26.13	26.14	26.14	26.14	26.14	26.14	26.16	26.18	26.17	26.23	26.11
Min	25.83	25.82	25.85	25.85	25.85	25.86	25.88	25.87	25.87	25.87	25.85	25.82	25.79	25.77	25.75	25.74	25.74	25.74	25.76	25.78	25.81	25.82	25.81	25.82	25.83	25.90	25.74

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
September 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.00	26.01	26.01	26.02	26.02	26.02	26.03	26.04	26.04	26.03	26.02	26.01	26.00	25.99	25.97	25.96	25.96	25.96	25.95	25.96	25.98	25.99	26.00	26.00	26.00	26.04	25.95
2	25.99	25.99	25.99	25.98	25.98	25.98	25.98	25.97	25.95	25.93	25.90	25.86	25.83	25.80	25.77	25.75	25.74	25.74	25.72	25.72	25.73	25.74	25.73	25.73	25.85	25.99	25.72
3	25.72	25.72	25.73	25.73	25.73	25.74	25.77	25.79	25.82	25.84	25.87	25.87	25.88	25.89	25.91	25.93	25.95	25.98	26.01	26.03	26.04	26.05	26.08	26.08	25.88	26.08	25.72
4	26.09	26.10	26.11	26.11	26.12	26.13	26.14	26.15	26.16	26.16	26.16	26.14	26.13	26.11	26.10	26.09	26.08	26.09	26.09	26.10	26.12	26.14	26.15	26.17	26.12	26.17	26.08
5	26.18	26.19	26.20	26.22	26.23	26.24	26.26	26.27	26.27	26.26	26.25	26.23	26.21	26.19	26.17	26.15	26.15	26.14	26.14	26.15	26.18	26.19	26.20	26.21	26.20	26.27	26.14
6	26.22	26.23	26.23	26.24	26.25	26.25	26.25	26.26	26.24	26.23	26.21	26.18	26.14	26.12	26.09	26.06	26.05	26.03	26.02	26.02	26.03	26.04	26.04	26.04	26.14	26.26	26.02
7	26.05	26.04	26.04	26.03	26.03	26.03	26.04	26.03	26.02	26.01	25.99	25.96	25.93	25.91	25.89	25.87	25.87	25.86	25.85	25.85	25.87	25.88	25.89	25.89	25.95	26.05	25.85
8	25.89	25.90	25.90	25.90	25.90	25.90	25.91	25.91	25.90	25.89	25.87	25.84	25.81	25.80	25.78	25.77	25.78	25.78	25.79	25.80	25.82	25.84	25.85	25.86	25.85	25.91	25.77
9	25.87	25.88	25.89	25.90	25.92	25.93	25.95	25.96	25.96	25.96	25.95	25.94	25.92	25.91	25.90	25.90	25.92	25.94	25.97	26.02	26.05	26.06	26.07	26.07	25.95	26.07	25.87
10	26.07	26.07	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.04	26.05	26.06	26.06	26.08	26.12	26.16	26.21	26.26	26.30	26.32	26.32	26.32	26.12	26.32	26.04
11	26.33	26.33	26.34	26.34	26.35	26.36	26.38	26.39	26.39	26.40	26.40	26.39	26.38	26.37	26.35	26.34	26.33	26.33	26.32	26.32	26.33	26.33	26.33	26.33	26.35	26.40	26.32
12	26.32	26.32	26.31	26.30	26.30	26.29	26.29	26.28	26.26	26.24	26.20	26.17	26.13	26.09	26.06	26.03	26.02	26.01	26.01	26.02	26.04	26.06	26.07	26.10	26.16	26.32	26.01
13	26.11	26.13	26.14	26.15	26.16	26.17	26.18	26.19	26.18	26.17	26.14	26.12	26.09	26.06	26.04	26.01	26.00	25.99	25.99	26.00	26.01	26.01	26.02	26.02	26.09	26.19	25.99
14	26.03	26.03	26.04	26.04	26.05	26.07	26.08	26.09	26.09	26.09	26.08	26.06	26.04	26.02	26.01	26.00	26.00	26.01	26.01	26.02	26.05	26.06	26.08	26.10	26.05	26.10	26.00
15	26.11	26.11	26.12	26.12	26.12	26.13	26.14	26.15	26.14	26.13	26.11	26.09	26.07	26.05	26.02	26.00	26.00	26.00	26.00	26.01	26.02	26.03	26.04	26.05	26.07	26.15	26.00
16	26.06	26.06	26.06	26.07	26.07	26.07	26.08	26.07	26.06	26.05	26.04	26.02	26.00	25.98	25.95	25.92	25.92	25.91	25.94	25.95	25.96	25.97	25.97	25.98	26.01	26.08	25.91
17	25.98	25.98	25.97	25.97	25.97	25.97	25.98	25.98	25.97	25.96	25.94	25.91	25.89	25.88	25.86	25.85	25.84	25.83	25.82	25.82	25.83	25.83	25.83	25.84	25.90	25.98	25.82
18	25.83	25.82	25.81	25.81	25.80	25.80	25.80	25.82	25.83	25.85	25.87	25.86	25.83	25.81	25.77	25.76	25.76	25.77	25.78	25.80	25.83	25.84	25.86	25.87	25.82	25.87	25.76
19	25.89	25.90	25.91	25.92	25.94	25.94	25.96	25.98	25.99	26.00	26.01	26.01	26.01	26.02	26.02	26.03	26.04	26.05	26.06	26.07	26.09	26.11	26.13	26.14	26.01	26.14	25.89
20	26.15	26.16	26.17	26.18	26.20	26.21	26.23	26.24	26.24	26.24	26.23	26.21	26.19	26.17	26.14	26.13	26.12	26.12	26.11	26.13	26.16	26.16	26.18	26.18	26.18	26.24	26.11
21	26.19	26.19	26.19	26.20	26.20	26.19	26.19	26.19	26.18	26.17	26.15	26.12	26.08	26.05	26.02	25.99	25.99	25.98	25.98	25.99	25.99	26.00	26.00	26.00	26.09	26.20	25.98
22	26.00	26.00	26.00	26.00	26.01	26.01	26.02	26.02	26.02	26.01	26.00	25.99	25.98	25.96	25.94	25.93	25.92	25.93	25.94	25.96	25.98	25.98	25.99	26.01	25.98	26.02	25.92
23	26.02	26.03	26.04	26.04	26.05	26.06	26.07	26.07	26.07	26.06	26.05	26.02	26.00	25.99	25.97	25.96	25.96	25.96	25.97	25.98	25.99	26.00	26.00	25.99	26.01	26.07	25.96
24	25.99	25.99	25.98	25.99	25.99	25.99	25.99	26.00	25.99	25.98	25.96	25.93	Au	25.88	25.86	25.85	25.84	25.84	25.83	25.84	25.87	25.88	25.90	25.91	25.93	26.00	25.83
25	25.93	25.93	25.93	25.93	25.93	25.93	25.93	25.94	25.93	25.92	25.89	25.85	25.82	25.79	25.76	25.74	Ca	25.73	25.74	25.77	25.79	25.80	25.81	25.84	25.85	25.94	25.73
26	25.85	25.86	25.92	25.94	25.95	25.97	26.00	26.01	26.00	26.00	26.01	26.00	25.99	25.98	25.99	25.99	26.00	26.01	26.02	26.04	26.05	26.05	26.06	26.06	25.99	26.06	25.85
27	26.05	26.05	26.04	26.03	26.02	26.02	26.04	26.05	26.06	26.06	26.06	26.07	26.06	26.07	26.08	26.08	26.09	26.11	26.12	26.12	26.12	26.13	26.13	26.13	26.07	26.13	26.02
28	26.13	26.12	26.12	26.12	26.11	26.10	26.11	26.12	26.12	26.12	26.12	26.11	26.09	26.08	26.06	26.05	26.04	26.04	26.03	26.02	26.01	26.01	26.01	25.99	26.08	26.13	25.99
29	25.98	25.98	25.97	25.95	25.95	25.96	25.94	25.94	25.93	25.91	25.90	25.88	25.86	25.83	25.81	25.79	25.79	25.81	25.82	25.82	25.83	25.84	25.84	25.84	25.88	25.98	25.79
30	25.84	25.83	25.83	25.82	25.81	25.80	25.80	25.81	25.82	25.82	25.83	25.83	25.83	25.84	25.84	25.86	25.88	25.90	25.92	25.94	25.95	25.96	25.96	25.95	25.86	25.96	25.80
Avg	26.03	26.03	26.04	26.04	26.04	26.04	26.05	26.06	26.06	26.05	26.04	26.02	26.01	25.99	25.97	25.96	25.97	25.97	25.97	25.98	26.00	26.01	26.02	26.02	26.02	26.10	25.93
Max	26.33	26.33	26.34	26.34	26.35	26.36	26.38	26.39	26.39	26.40	26.40	26.39	26.38	26.37	26.35	26.34	26.33	26.33	26.32	26.32	26.33	26.33	26.33	26.33	26.35	26.40	26.32
Min	25.72	25.72	25.73	25.73	25.73	25.74	25.77	25.79	25.82	25.82	25.83	25.83	25.81	25.79	25.76	25.74	25.74	25.73	25.72	25.72	25.73	25.74	25.73	25.73	25.82	25.87	25.72

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
July 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.160	0.050	0.000	0.050	0.010	0.270	0.160
15	0.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.130
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.010	0.000	0.050	0.000	0.000	0.000	0.100	0.050
23	0.000	0.000	0.010	0.060	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.070	0.000	0.000	0.000	0.000	0.280	0.100
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Co	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.130	0.000	0.010	0.060	0.040	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.040	0.110	0.230	0.100	0.000	0.050	0.010	0.800	0.000
Max	0.130	0.000	0.010	0.060	0.040	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.040	0.100	0.160	0.050	0.000	0.050	0.010	0.280	0.160

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
August 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.040
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.060	0.030
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.010	0.000	0.000	0.000	0.010	0.030	0.020	0.140	0.070
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
15	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	Co	Co	Co	0.000	0.000	0.000	0.000	0.050	0.040
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.070	0.000	0.130	0.070
21	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.380	0.060	0.000	0.000	0.000	0.000	0.000	0.480	0.380
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.130	0.090
23	0.010	0.020	0.020	0.010	0.010	0.040	0.080	0.100	0.070	0.090	0.080	0.030	0.030	0.030	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.630	0.100
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.050	0.020	0.070	0.010	0.010	0.040	0.080	0.100	0.120	0.180	0.080	0.030	0.040	0.030	0.000	0.010	0.100	0.420	0.090	0.000	0.000	0.070	0.100	0.030	1.680	0.000
Max	0.040	0.020	0.040	0.010	0.010	0.040	0.080	0.100	0.070	0.090	0.080	0.030	0.030	0.030	0.000	0.010	0.070	0.380	0.060	0.000	0.000	0.060	0.070	0.020	0.630	0.380

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
September 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.000	0.000	0.000	0.040	0.030
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.050	0.050
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.050	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.050
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.050
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.020	0.020	0.000	0.080	0.040
30	0.010	0.000	0.000	0.010	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.010
Tot	0.010	0.000	0.050	0.030	0.010	0.000	0.010	0.030	0.050	0.000	0.000	0.000	0.000	0.030	0.000	0.010	0.000	0.000	0.000	0.010	0.070	0.070	0.020	0.000	0.400	0.000
Max	0.010	0.000	0.050	0.020	0.010	0.000	0.010	0.030	0.050	0.000	0.000	0.000	0.000	0.030	0.000	0.010	0.000	0.000	0.000	0.010	0.040	0.050	0.020	0.000	0.090	0.050

APPENDIX B: PERFORMANCE AUDIT REPORTS THIRD QUARTER 2014

Figure 6.6-1

PRECIPITATION PERFORMANCE AUDIT

Location M L R Drummond Date September 24, 2014

Performed By Don Milmine System Down Time: Off N/A 1210 On N/A 1230

A. Site Sensor Information		
Manufacturer	**Model**	**Serial No.**
Met One	375	R12869
Gauge Diameter (inches)	**Precipitation per Tip** (Circle one below)	
	0.01 inches 0.25 mm Other	

B. Water Volume per Tip		
Precipitation per Tip	**Gauge Diameter (inches)**	
	6	**8**
0.01 inches	4.63 ml/tip	8.24 ml/tip
0.25 mm	4.56 ml/tip	8.11 ml/tip

C. Expected Number of Tips for Test Volume		
Cylinder or Buret Volume (ml)	**ml/tip (from Part B)**	**Expected No. of Tips**
250	~~30~~ 8.24	30

A. Volumetric Tests				
Time (MST)	**Expected Tips**	**Actual Sensor Tips**	**Error (Tips)**	**Error (percent)**
1220	30	29	-0.01	-3.3
Error Limit: +/- 10%				

B. Audit Cylinder or Buret Description	
Manufacturer Fisher Scientific	Model PP
Volume 250 ml	Type graduated cylinder

D. Signature
Site Operator : [signature]
Auditor : Don U. Milmine

Figure 5.6-1

BAROMETRIC PRESSURE PERFORMANCE AUDIT

Location MLR Drummond Date September 24, 2014

Performed By Don Milmine System Down Time: Off_____ On_____ N/A X

A. Site Sensor Information		
Manufacturer Met One	Model 092	Serial No. P22256

B. Collocated Tests			
Units (circle one): Millibars (mb) mmHg inches Hg			
Time (MST)	**Audit Sensor**	**Site Sensor**	**Error**
11:58	657.2mm/25.873	25.919	0.046
1207	657.2mm/25.873	25.916	0.043
Error Limit: +/- 3 mb OR +/- 2.3 mmHg OR +/- 0.09 inches Hg			

C. Audit Sensor Description	
Manufacturer Vaisala	Model PTB 330(50-1100)
Serial No. D4310002	Certification Date March 19, 2014
Certified Against NIST Traceable (Princo Primary Standard Model 453 S/N W 12537	

D. Signature
Site Operator :
Auditor : Don V. Milmine

Figure 3.6-1
WIND SPEED PERFORMANCE AUDIT

Location MLR Date 9-24, 2014

Performed By DVM System Down Time: Off _____ On _____

A. Site Sensor Information		
Manufacturer Climatronics	Model WM III 102083	Serial No. P1336C

B. Indicated Wind Speed Prior to Lowering Tower	
Estimated (m/s) 5	DAS Reading (m/s) 4.1

C. Synchronous Motor Tests			
Motor RPM	Known Wind Speed m/s	Indicated Wind Speed	Error
0	0.223	0.223	0.0
300	6.66	6.65	-0.01
600	13.09	13.09	0.00
950	20.47	20.52	0.05

D. Torque Check			
Type (circle) Disk	Watch	Measured 0.2	< 0.35 g-cm OR 0.005 oz.-in?

E. Audit Equipment Description	
300 RPM Motor RM Young	Torque Disk
600 RPM Motor	Torque Watch
Other Model 18811 Variable speed S.N CA02929	

F. Signature
Site Operator : [signature]
Auditor : Don V. Milburne

Figure 4.6-1
Relative Humidity Performance Audit Form

RELATIVE HUMIDITY PERFORMANCE AUDIT

Location MLR - Met Date September 24, 2014

Performed By Don Milmine System Down Time: Off_____ On_____ N/A X

A. Site Sensor Information		
Manufacturer Met One	Model 083E-0-35	Serial No. P19247

B. Collocated Tests						
Time (MST)	Audit Sensor				Site Sensor RH	Error %RH
	Dry Bub Temperature	Wet Bulb Temperature	Barometric Pressure	Calculated RH		
1445	90°F	60°F	25.828	17.1	14.5	-2.6
Error Limit: +/- 7% RH						

C. Audit Sensor Description	
Manufacturer Taylor Hygrometer	Model Part #5P-377/tool#T66978
Serial No. none	Certification Date primary Standard
Certified Against	

D. Signature
Site Operator :
Auditor : Don V. Milmine

Figure 1.6-1
TEMPERATURE / DELTA TEMPERATURE PERFORMANCE AUDIT

Location MLR Date 9-29-2014

Performed By DVM + CPH wrote System Down Time: Off 3:30 PM On 5:25 PM

A. Site Sensor Information			
Manufacturer	Climatronics	Model	100093
Serial No. (Upper)	N1893C	Serial No. (Lower)	N1889C

B. Indicated Temperatures Prior to Removing Sensors for Tests			
Upper (deg. C)	28°C	Lower (deg. C)	30°C

C. Tests (read responses to 0.01 deg. C)					
Known (deg. C)	Upper (DAS)	Lower (DAS)	Error Upper - Known	Error Lower - Known	Delta T (Upper – Lower)
29.31	29.36	29.38	0.05	0.07	-0.02
16.20	16.15	16.18	-0.05	-0.02	-0.03
~~0.00~~ 0.01	0.13	0.15	0.03	0.05	-0.02
Limits: +/- 0.5 deg. C for individual temperatures, 0.10 deg. C for Delta T					

D. Audit Temperature Standard Description			
Manufacturer	Control Company	Model	4000
Serial No.	140251289	Certification Date	4/10/14 exp 4/10/16
Other			

E. Signature
Site Operator : [signature]
Auditor : Don V. Milburn

Figure 2.6-1
Wind Direction Performance Audit Form

WIND DIRECTION PERFORMANCE AUDIT

Location MLR Drummond Date September 24, 2014

Performed By Don Milburne System Down Time: Off 3:30 On 5:26

A. Site Sensor Information		
Manufacturer Climatronics	Model 102083	Serial No. P1336C

B. Indicated Wind Direction Prior to Lowering Tower			
Estimated (deg.)		DAS Reading (deg.)	
C. Orientation of Sensor Crossarm (In Raised Position on Tower) (+/- 2 deg.)			
Orientation Method (circle)	Transit-Sunshot	Transit-Magnetic	GPS
Target (circle) 90/270 0/180	As-Found	Error (deg.)	
D. Indicated Wind Direction Aligned With Crossarm (Prior to Linearity Checks) (+/- 2 deg.)			
Target 270 / 271.5	DAS As-Found 273	Error (deg.) 1.5	

E. Linearity Checks (+/- 3 deg.)					
Clockwise			Counterclockwise		
Direction	DAS	Error	Direction	DAS	Error
0/360	2.3	2.3	0/360	0.8	0.8
30	32.4	2.4	30	30.7	0.7
60	61.3	1.3	60	61.2	1.2
90	91.0	1.0	90	90.7	0.7
120	120.1	0.1	120	119.8	-0.2
150	149.9	-0.1	150	149.8	-0.2
180	179.5	-0.5	180	179.3	-0.7
210	209.3	-0.7	210	209.4	-0.6
240	239.4	-0.6	240	239.2	-0.8
270	269.4	-0.6	270	268.7	-1.3
300	299.1	-0.9	300	298.8	-1.2
330	329.3	-0.7	330	328.6	-1.4
0/360	1.0	1.0	0/360	1.0	1.0

F. Torque Check			
Type (circle) Disk Watch	Measured 2.8	<7.45 g-cm OR 0.10 oz.-in?	

G. Indicated Wind Direction Aligned With Crossarm (After Re-installation) (+/- 2 deg.)		
Target (circle) 270	DAS As-Left 270.4	Error (deg.) 0.4

H. Audit Equipment Description	
Transit	Torque Disk / Watch
GPS Unit	Linearity Wheel
Site Lat. / Long. 46° 41' / 113° 13'	Current Mag. Declination

I. Signature	
~~Site Operator~~ Auditor: Don V. Milburne	~~Auditor~~ Site Operator:

Figure 7.6-1

SOLAR RADIATION PERFORMANCE AUDIT

Location MLR Drummond Date September 25, 2014

Performed By Don Milmine System Down Time: Off N/A On N/A

A. Site Sensor Information		
Manufacturer PYR LI-200	Model Li Cor	Serial No. PY8 2228

B. Collocated Tests				
Time (MST)	Audit Sensor (w/m^2)	Site Sensor (w/m^2)	Error (w/m^2)	Error (percent)
1000	533	519	-14	-2.6
1003	534	526	-8	-1.5
1008	535	532	-3	-0.6
Error Limit: +/- 5%				

C. Audit Sensor Description	
Manufacturer PYR LI-200S	Model LiCOR
Serial No. PY61543	Certification Date
Datalogger (note whether site or external) external	

D. Signature
Site Operator : [signature]
Auditor : Don V. Milmine

Don V. Milmine / Auditor

Figure 8.6-1

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): (PM2.5) PM10		Sampler Serial Number: 1036	
Sampler Site Designation: Duplicate			
Auditor: Don Milmine		Site Operator: Chris Hiltunen	
Barometric Pressure Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Vaisala	Model: PTB 330 (50-1100)	Serial Number: D43 10002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	655	655.7	-0.7
Thermocouple Temperature Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	30.6	29.3	
Filter thermocouple	30.3	31.0	
Flow Rate Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: BGI Inc.	Model: deltaCal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.74	-0.24
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.74	16.67	0.42
Leak Check			
Vacuum Readings (cm H_2O)	Start 95	End 95	(Pass) / Fail?

Don V. Milmine / Auditor

Figure 8.6-1

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): PM2.5 PM10		Sampler Serial Number: 1549	
Sampler Site Designation: Reporting			
Auditor: Don Milmine		Site Operator: Chris Hiltunen	
Barometric Pressure Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Vaisala	Model: PTB 330(50-1100)	Serial Number: D4310002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	656	656.2	-0.2
Thermocouple Temperature Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	30.4	28.6	
Filter thermocouple	29.4	30.2	
Flow Rate Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: BGI Inc.	Model: DeltaCal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.72	16.81	-0.54
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.81	16.67	0.84
Leak Check			
Vacuum Readings (cm H_2O)	Start 100	End 100	Pass / Fail?

Don V. Milmine / Auditor

Figure 8.6-1

Performance Audit Data Sheet

BGI Inc. PQ200 Low Volume Sampler - Performance Audit Data Sheet			
Sampler Type (circle): $PM_{2.5}$ PM_{10}		Sampler Serial Number: 1548	
Sampler Site Designation: PM10 Reporting			
Auditor: Don Milmine		Site Operator: Chris Hiltunen	
Barometric Pressure Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Vaisala	Model: PTB 330(50-1100)	Serial Number: D4310002	
Reading (mm Hg)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) mmHg (must be ≤ ±10)
Ambient P	655	655.7	-0.7
Thermocouple Temperature Sensor Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: Ever-Safe	Model:	Serial Number: 016076	
Reading (degrees Celsius)	Sampler Indicated (a)	Audit Transfer Standard (b)	Difference (a - b) (must be ≤ ± 2°C)
Ambient thermocouple	30.5	30.2	-0.3
Filter thermocouple	30.9	31.2	-0.3
Flow Rate Audit			
Date: September 24, 2014		Date standard last verified: March 19, 2014	
Audit Standard Mfr.: BGI Inc.	Model: delta cal	Serial Number: 999	
Reading (liters per minute)	Sampler Indicated (a)	Audit Transfer Standard (b)	% Difference= 100*(a – b)/b (must be ≤ ± 4%)
Audit standard flow rate check	16.70	16.79	-0.54
Reading (liters per minute)	Audit Transfer Standard (b)	Design Flow Rate Standard (c)	% Difference= 100*(b– c)/c (must be ≤ ± 5%)
Design flow rate check	16.79	16.67	0.72
Leak Check			
Vacuum Readings (cm H_2O)	Start 102	End 101	Pass / Fail?

DESCRIPTION OF SO_2 ANALYZER AUDIT PROCEDURE

A performance audit of the Thermo Environmental Instruments SO_2 analyzer operated by Bison Engineering, Inc., Helena, for Montana Limestone Resources at their Drummond PSD monitoring station, was conducted on February 11, 2014. Audit results are presented by comparing known SO_2 concentrations (x) delivered by the audit device with concentrations (y) reported by the analyzer. Sulfur dioxide concentrations were generated by a Thermo Environmental Instruments Model 146 span gas calibrator (S/N 146t-43359-269) and a Thermo Environmental Instruments Model 111 zero air supply. The sulfur dioxide standard used for the audit was certified gas cylinder #FF19675. It has an SO_2 concentration of 4.028 ppm in nitrogen. The certification was performed by Airgas on February 19, 2013, and will expire on February 19, 2017. The analysis is traceable to NIST by comparison through GMIS cylinder CC280989 that has an SO_2 concentration of 4.877 and a certification expiration date of September 14, 2014. The analysis conforms to EPA Protocol Section No. 2.2, Procedure G-1. The cylinder is required to meet the quality assurance requirements of 40 CFR Part 58 Appendix A (October 2006).

The audit results for the Drummond Station are presented on page B-5. The table shows the percent differences between x and y for each concentration, the slope, intercept, and percent differences at full scale, and a summary of audit results. EPA's recommended linear regression criteria are listed on page B-6. Graphs of station concentrations versus audit concentrations also appear on the tables. A dashed unity line, which indicates perfect agreement between audit and station concentrations, is shown on each figure.

An examination of the audit results indicates that the SO_2 audits produced results considered excellent according to EPA's criteria for evaluating performance audits.

Figure 11.6-1

BISON ENGINEERING INC.

SO_2 ANALYZER AUDIT REPORT FORM

Site: MLR Drummond **Date:** September 24, 2014

Performed By: Don Milmine

Analyzer Model: Thermo Fisher 43i **Serial No.:** 904834740

Audit Calibrator Model / Ser. No.: Sabio model 2010 S/N 03020806A

Audit Cylinder No. FA01008 **Cylinder Supplier:** Air Gas Corporation

Cylinder Conc. (ppm) 4.028 **Cylinder Expir. Date:** February 19, 2017

Analyzer Coefficients: Background 3.12 **Span** 0.980

Date of Last Analyzer Calibration: July 15, 2014

Audit Start Time: 0925 MST **Audit End Time:** 1116 MST

AUDIT RESULTS

Audit Standard			Results (ppb)		Percent Error
Gas Flow (SCCM)	Dilution Flow (SCCM)	Audit Conc. (ppb)	Analyzer Display	DAS	DAS
99.0	867	0.413	0.416	0.416	0.73
72.0	893	0.301	0.307	0.307	1.99
19.2	944	0.080	0.081	0.081	1.25
5.4	2363	0.009	0.0097	0.0097	7.78
5.4	6913	0.003	0.0033	0.0033	10.00
0.0	900	0.000	0.0003	0.0003	—

Regression Analysis (Y = mX + b)
where Y = analyzer response, X = known concentration) Pearson

	m	b	~~r-squared~~
DAS	1.01013	0.52284	0.99997

Signatures

Auditor Don V. Milmine **Site Operator**

EPA's Suggested Linear Regression Criteria		
Slope		
Excellent	≤ ±5%	Between analyzer response and audit concentration
Satisfactory	> ±5 to ±15%	Between analyzer response and audit concentration
Unsatisfactory	≥ ±15%	Between analyzer response and audit concentration
Individual Audit Concentration Difference		
9 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
3 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
0 PPB concentration, +/- 1.5 PPB		
Intercept		
Satisfactory	≤ ±3%	of the analyzer range
Unsatisfactory	> ±3%	of the analyzer range
Correlation Coefficient		
Satisfactory	0.9950 to 1.0000	Linear analyzer response to audit concentration
Unsatisfactory	< 0.9950	Nonlinear analyzer response to audit concentration

MONTANA LIMESTONE RESOURCES, LLP DRUMMOND, MONTANA AMBIENT AIR MONITORING PROGRAM Quarterly Data Report

Fourth Quarter 2014

Prepared for:

Montana Limestone Resources, LLP
Butte, Montana 59701

Prepared by:

Bison Engineering, Inc.
1111 Maggie Lane
Billings, MT 59101
(406) 896-1716
http://www.bison-eng.com

February 3, 2015

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Drummond air monitoring sites. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume I, A Field Guide to Environmental Quality Assurance (April 1994), Volume II, Ambient Air Quality Program (May 2013), and Volume IV, Meteorological Measurements (March 2008).*

Preparer: Jeffrey S. Bell

Signature: Jeffrey S Bell

Title: Senior Field Technician

Date: 1/22/15

Reviewer: Rebecca L. Picchioni, P.E.

Signature: Rebecca Picchioni

Title: Project Engineer

Date: 1/30/15

TABLE OF CONTENTS

CERTIFICATION OF DATA INTEGRITY ii

1.0 INTRODUCTION 1

2.0 MONITORING SYSTEM OPERATIONS 3

3.0 SULFUR DIOXIDE PRECISION CHECK DATA 4

4.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA 5

5.0 CALIBRATION DATA 6

6.0 PERFORMANCE AUDIT DATA 10

7.0 DATA COMPLETENESS 11

8.0 MONITORING DATA 17

LIST OF TABLES

Table 1. SO_2 Precision Check Data 4
Table 2. SO_2 Zero/Span Check Data 5
Table 3. Meteorological Calibration 7
Table 4. SO_2 Calibration 9
Table 5. Monthly Data Completeness 12
Table 6. Quarterly Data Completeness 15
Table 7. Periods of Missing Data 16
Table 8. Missing Data Codes 18
Table 9. SO_2 Data Summary for MLR Drummond Site 19
Table 10. Monthly Wind Rose Summary, Drummond 20
Table 11. Monthly Wind Rose Summary, Drummond 21
Table 12. Monthly Wind Rose Summary, Drummond 22
Table 13. Quarterly Wind Rose Summary, Drummond 23

LIST OF FIGURES

Figure 1. Monitoring Site Locations 2
Figure 2. Monthly Wind Rose, Drummond Site 24
Figure 3. Monthly Wind Rose, Drummond Site 25
Figure 4. Monthly Wind Rose, Drummond Site 26
Figure 5. Quarterly Wind Rose, Drummond Site 27

APPENDICES

Appendix A: Hourly Air Quality and Meteorological Data
Appendix B: Performance Audit Report

1.0 INTRODUCTION

Montana Limestone Resources, LLP (MLR) has established three ambient monitoring sites near Drummond, Montana, to measure baseline air quality and meteorology near a proposed mine.

- In August 2013, a particulate monitoring system was installed to measure particulate matter having an aerodynamic diameter of a nominal 2.5 microns (micrometers) or less ($PM_{2.5}$), and particulate matter having an aerodynamic diameter of a nominal 10 microns (micrometers) or less (PM_{10}). Sampling was discontinued on August 31 after one full year of data was collected.

- In September 2013, a 20-meter meteorological tower was installed to monitor wind speed, wind direction, standard deviation of wind direction, temperature at 20 meters and 2 meters, delta temperature, and solar radiation.

- In January 2014, a sulfur dioxide (SO_2) monitoring station was installed. A barometric pressure sensor was added to that site in February 2014.

- In April 2014, a relative humidity sensor was added to the meteorological tower site.

- In May 2014, a precipitation sensor was added to the sulfur dioxide (SO_2) monitoring station site.

The sites are operated by Bison Engineering, Inc. (Bison), of Helena and Billings. Figure 1 shows the locations of the monitoring sites.

This report presents the data collected during the fourth quarter (October through December) of 2014. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations, and performance audits. Tabular summaries of the data completeness achieved and the periods of missing data also are presented.

Figure 1. Monitoring Site Locations

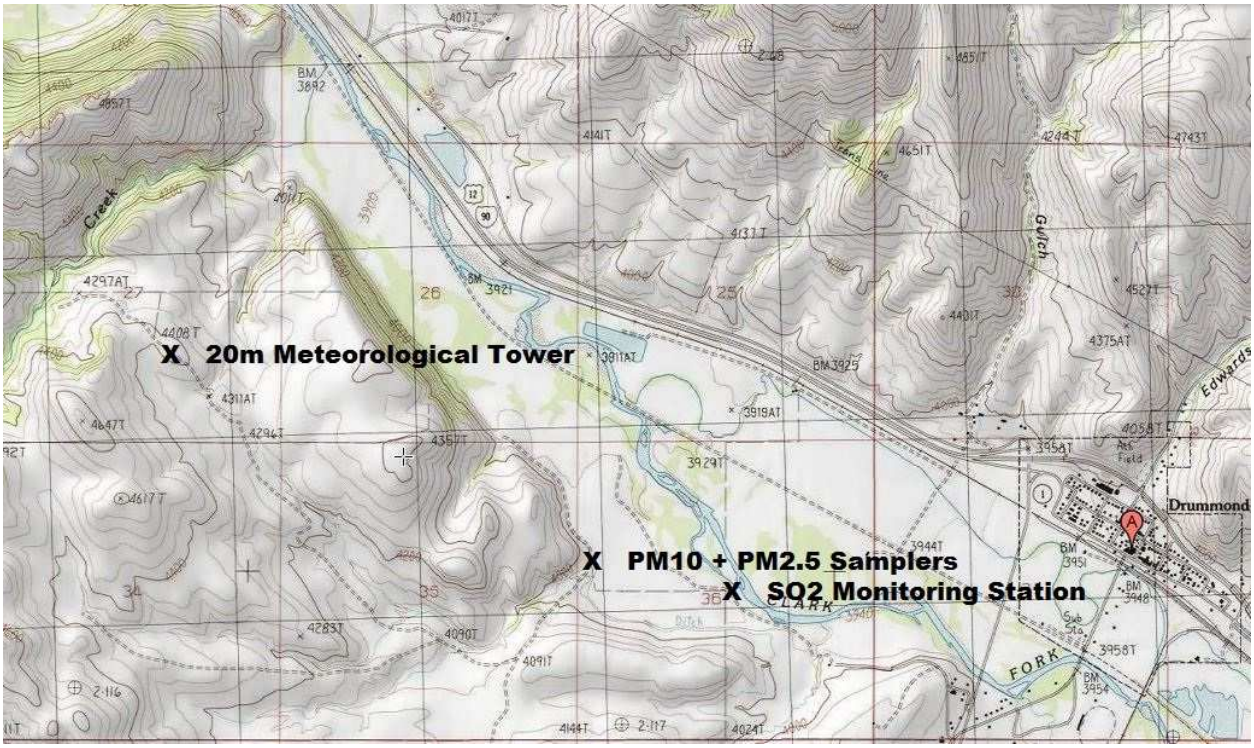


Figure taken from USGS 7.5 minute topographic quadrangle: Drummond, Montana.

2.0 MONITORING SYSTEM OPERATIONS

The installation of the meteorological monitoring system equipment took place in September 2013, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about three weeks to complete. The meteorological instruments on the tower were in full operation and producing valid data by September 23, 2013.

The installation of the SO_2 monitor took place on January 9, 2014, and the barometric pressure sensor was added on February 3, 2014. The SO_2 monitor is a Thermo Scientific Model 43i-TL and was designated as an equivalent automated method (#EQSA-0486-060) by EPA in September 2005. The range of this instrument is set to 0 – 500 ppb. The system automatically performs a zero-span check every 23 hours.

All meteorological instruments operated with no problems during the quarter, as did the SO_2 monitor. However, wind direction and wind direction standard deviation (sigma) data collection errors occurred for a total of 88 hours during the quarter, primarily in December. The behavior indicates a problem with the datalogger, and not the wind direction sensor. The datalogger will be replaced with a new unit during the first quarter of 2015.

Don Milmine of Bison Engineering, Inc. (Bison), conducted performance audits of the sulfur dioxide analyzer and the meteorological system on December 17-18. The sulfur dioxide audits produced satisfactory to excellent results. The meteorological system audits generally produced results within the recommended tolerance limits. The Bison report of the audits is presented in Appendix B.

3.0 SULFUR DIOXIDE PRECISION CHECK DATA

Precision checks of the sulfur dioxide analyzers are manually performed every two weeks. Results for the fourth quarter are presented in Table 1. In addition, the quarterly summary statistics, as described in EPA's *Guideline on the Meaning and Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A,* are presented.

The precision checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration (between 0.08 and 0.10 parts per million) of sulfur dioxide. The differences between the analyzer responses and the known concentrations of the test gas represent the precision of the monitoring data.

Table 1. SO_2 Precision Check Data

Drummond SO2 Site - Fourth Quarter 2014			
Date	Reference Concentration (ppm)	Analyzer Response (ppm)	Percentage Difference
Oct 7	0.090	0.090	0.000
21	0.090	0.090	0.000
27	0.090	0.090	0.000
Nov 4	0.090	0.090	0.000
18	0.090	0.089	-1.111
Dec 2	0.090	0.090	0.000
16	0.090	0.090	0.000
30	0.090	0.090	0.000
Quarterly Summary Statistics			
		n =	8
		S_d =	0.393
		S_{d2} =	0.436
		$\Sigma\|d\|$ =	1.111
		Σd =	-1.111
		Σd^2 =	1.235
		AB =	0.139
		AS =	0.393
		CV (%) =	0.62
		Signed Bias =	+0.40
		25th Percentile =	0.000
		75th Percentile =	0.000
		Upper 95 Percent Probability Limit =	0.63
		Lower 95 Percent Probability Limit =	-0.91

4.0 SULFUR DIOXIDE ZERO/SPAN CHECK DATA

Level 1 zero/span checks are manually conducted every two weeks and results for the fourth quarter of 2014 are given in Table 2. The zero/span checks are made by challenging the analyzer with an artificial test atmosphere containing a known concentration of sulfur dioxide between 70 and 90 percent of the full scale of the analyzer. The analyzer response is noted and the percentage difference between the analyzer response and the concentration of the test gas is calculated. Test gas containing no sulfur dioxide also is presented to the analyzer and the analyzer's response to this "zero air" is noted.

Additionally, an automatically triggered zero/span check occurs every 23 hours.

Table 2. SO_2 Zero/Span Check Data

Fourth Quarter 2014					
Drummond SO_2 Site					
Date	Reference Concentration (ppm)	Zero Response (ppm)	Span Response (ppm)	Zero Drift (percent of full scale)	Span Drift (percent)
Oct 7	0.400	0.0001	0.400	0.020	0.00
21	0.400	0.0001	0.399	0.020	-0.25
27	0.400	0.0001	0.401	0.020	0.25
Nov 4	0.400	0.0002	0.399	0.040	-0.25
18	0.400	0.0004	0.393	0.080	-1.75
Dec 2	0.400	0.0004	0.395	0.080	-1.25
16	0.400	0.0003	0.396	0.060	-1.00
30	0.400	0.0004	0.398	0.080	-0.50

5.0 CALIBRATION DATA

5.1 Meteorological System

The meteorological system is calibrated upon initial installation, and at least once per quarter thereafter: Results of the meteorological system calibrations performed during the fourth quarter of 2014 are given in Table 3.

- The temperature system is calibrated using water baths of at least three known NIST-traceable temperatures;
- The wind direction sensor is calibrated by subjecting it to an artificial test simulating at least four known wind directions. The sensor orientation is established based on a solar sighting, magnetic sighting, or GPS measurements;
- The wind speed sensor is tested using at least two synchronous motors;
- The condition of the wind speed and wind direction sensor bearings is checked using a torque watch or torque disk;
- The solar radiation sensor is certified by the manufacturer, and is verified by taking collocated measurements with a certified sensor.
- The calibration of the barometric pressure sensor (at the sulfur dioxide monitoring site) is checked against a certified standard.
- The calibration of the precipitation gauge is checked by slowly introducing a known volume of water from a laboratory buret.

5.2 Sulfur Dioxide Monitor

Results of the sulfur dioxide calibrations performed during the fourth quarter of 2014 are given in Table 4. Analyzer calibrations are carried out at the field monitoring sites by allowing the analyzer to sample an artificial test atmosphere of known concentration. During calibration, the analyzer is operated in its normal sampling mode, and the test atmosphere is passed through all filters, scrubbers, and conditioners used during normal ambient sampling. All operational adjustments to the analyzer are completed prior to calibration. All calibrations include a zero concentration and at least four upscale points spaced approximately equally over the range of the analyzer.

Calibrations are performed:

- Once per quarter;
- After an interruption of more than a few days in analyzer operation;
- Following any repairs which might affect analyzer calibration;
- Following a physical relocation of the analyzer; or
- After any other indication of significant inaccuracy of the analyzer, such as excessive zero drift or seven points in an upward or downward trend.

Table 3. Meteorological Calibration

BISON
ENGINEERING, INC.

Bison Engineering

Meteorological Calibration Results: Qtr 4, 2014

Client: Montana Limestone Resources
Site: Drummond
Date: December 18, 2014
Performed By: Steve Heck, Bison Engineering Inc.
Tower lowered at 0950 MST Tower back up at 1255 MST

Temperature

Sensor Model: Climatronics 100093
Serial Numbers N1893C (19 meters), N1889C (2 meters)
Calibration Device: Control Company - digital thermometer Model 4000
Serial Number : 91255639
Last certified: April 2014

Temperature bath results

Calibration Value °C	19m DAS Value °C	19m DAS Diff. °C	2m DAS Value °C	2m DAS Diff. °C	19m - 2m DAS Diff. °C
0.00	0.14	0.14	0.14	0.14	0.00
14.19	14.16	-0.03	14.18	-0.01	-0.02
32.45	32.56	0.11	32.58	0.13	-0.02

Wind Direction

Sensor height: 20 Meters
Sensor (Make/model number): Climatronics 102083S
Serial Number : R16302
Crossarm orientation (from GPS sighting): 90 / 270
GPS coordinates of wind vane:
Lat 46 deg 40.611 min N, Long 113 deg 12.8475 min W
GPS coordinates of sighting point:
Lat 46 deg 40.611 min N, Long 113 deg 12.8915 min W
Sensor reading aligned with crossarm (as-found): 91.3

Threshold Torque: 0.03 oz.-in.
(Waters Model 366-1 torque watch)

Linearity Audit Device: Climatronics 101966, SN 70

Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.9	0.8	0.9	0.8
30	30.5	30.3	0.5	0.3
60	60.9	60.4	0.9	0.4
90	90.8	90.5	0.8	0.5
120	120.9	120.6	0.9	0.6
150	151.1	150.8	1.1	0.8
180	181.2	181.0	1.2	1.0
210	210.9	210.6	0.9	0.6
240	240.6	240.3	0.6	0.3
270	270.2	270.0	0.2	0.0
300	300.7	300.3	0.7	0.3
330	330.8	330.5	0.8	0.5
0	1.1	1.1	1.1	1.1
		Max Diff	**1.2**	**1.1**

Wind Speed

Sensor height:: 20 Meters
Sensor (Make/model number): Climatronics 102083S
Serial Number : R16302
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Synchronous motor checks

Known Value RPM	Known Value m/s	DAS Value m/s	DAS Diff. m/s
0	0.22	0.22	0.00
300	6.66	6.66	0.00
600	13.09	13.09	0.00

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Table 3. Meteorological Calibration (Continued)

Barometric Pressure

(Performed 12-17-2014: Sensor located at SO2 monitoring building)

Sensor (Make/model number): Met One 092
Serial Number : P22256
Calibration standard: Wallace and Tiernan aneroid barometer, Model FA185260, SN LL03297

Known Value in. Hg	Sensor Response in. Hg	Difference in. Hg
25.97	25.97	0.00

Relative Humidity

Sensor (Make/model number): Met One 083E-0-35
Serial Number : P19247
Calibration Check Device: Assmann Psychrometer, thermometer calibrations checked November 2014

Dry-Bulb Temp.: -3.2 deg C BP = 25.44 in. Hg
Wet-Bulb Temp.: -3.9 deg C
Calculated RH: 86.8 %RH
Station RH: 81.4 %RH
Diff: -5.4 %RH

Solar Radiation

Sensor (Make/model number): LiCor LI-200
Serial Number : PY61543
CTS: Eppley Pyranometer, SN 16166F3 (certified by Eppley September 2014)

Time (MST)	CTS Value (W/m^2)	Site Value (W/m^2)	Diff. (%)	Diff. (% FS)
1055	178	176	-1.1	-0.2
1059	151	152	0.7	0.1
1232	116	114	-1.7	-0.2

Precipitation

Calibration Check Device: 500 mL Buret (559 mL when full)

Rain Gauge = Met One Model 375, Serial No. R12869
Level checked OK
Wind Screen in place
8" opening

559 ml water added
Calibration is 8.24 ml per tip
Known audit value is 559 / 8.24 = 67.8 tips (so 67 full tips expected)

Unit registered 66 tips
% difference from expected = -1.5%

Signature of Calibrator : Steven R Heck

Table 4. SO_2 Calibration

October 27, 2014			
Analyzer: Thermo Environmental Inc.43i-TL, S/N 904834740			
Background Setting Unadjusted: 3.09 Adjusted: 3.05		Span Coefficient Setting Unadjusted: 0.980 Adjusted: 0.963	
Calibration Flow Standard flow kit model : Gilibrator Flow Cell : all		Calibrator: Thermo Electron Inc. 146i S/N 904834743	
Reference Concentration (ppm)	Analyzer Response (ppm)	Chart Response (ppm)	Percentage Difference
0.000	0.0003	NA	0.1
0.400	0.400	NA	0.0
0.300	0.299	NA	-0.3
0.200	0.200	NA	0.0
0.080	0.080	NA	0.0
Linear Regression Analysis*			
Slope =	0.9984		
Intercept =	0.0002		
Correlation Coefficient =	0.99999		
* Least squares linear regression, given by y = ax + b, where y is the analyzer response, x is the reference concentration, a is the slope, and b is the intercept.			

6.0 PERFORMANCE AUDIT DATA

Don Milmine of Bison conducted performance audits of the sulfur dioxide analyzers and the meteorological system on December 17-18. The sulfur dioxide audits produced satisfactory to excellent results. The meteorological system audits generally produced results within the recommended tolerance limits. The Bison report of the audits is presented in Appendix B.

Audit criteria for the sulfur dioxide analyzer are detailed in a separate table in Appendix B. In general, the most significant are:

- The allowable error for audit concentrations ≥ 0.010 ppm is ≤ ±15% at each point.
- The allowable error for audit concentrations < 0.010 ppm, and at the zero point, is ≤ ±1.5 ppb.

7.0 DATA COMPLETENESS

The percentages of data recovery for meteorological parameters and the SO_2 monitor are given in Tables 5 and 6. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as precision checks, zero/span checks, calibrations, performance audits, and maintenance on the analyzers). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery. Missing data periods are summarized in Table 7.

During the fourth quarter the net percentage data recovery was 95.7 for wind direction and standard deviation. Those data losses were caused by the failure of the datalogger to correctly calculate final storage data values. The datalogger is being replaced during the first quarter of 2015.

The net percentage data recovery was 100.0 percent for all other parameters.

Table 5. Monthly Data Completeness

October 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
Temperature 19 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Sulfur Dioxide	744	701	94.2	43	100.0
Barometric Pressure	744	744	100.0	0	100.0
Precipitation	744	744	100.0	0	100.0
Total	8,184	8,141	99.5	43	100.0

Table 5. Monthly Data Completeness (Continued)

November 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	713	99.0	0	99.0
Standard Deviation	720	713	99.0	0	99.0
Temperature 19 Meters	720	720	100.0	0	100.0
Temperature 2 Meters	720	720	100.0	0	100.0
Temperature Delta T	720	720	100.0	0	100.0
Solar Radiation	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Sulfur Dioxide	720	685	95.1	35	100.0
Barometric Pressure	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,920	7,871	99.4	35	99.8

Table 5. Monthly Data Completeness (Continued)

December 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	744	740	99.5	4	100.0
Wind Direction	744	652	87.6	4	88.2
Standard Deviation	744	652	87.6	4	88.2
Temperature 19 Meters	744	740	99.5	4	100.0
Temperature 2 Meters	744	740	99.5	4	100.0
Temperature Delta T	744	740	99.5	4	100.0
Solar Radiation	744	740	99.5	4	100.0
Relative Humidity	744	740	99.5	4	100.0
Sulfur Dioxide	744	705	94.8	39	100.0
Barometric Pressure	744	743	99.9	1	100.0
Precipitation	744	742	99.7	2	100.0
Total	8,184	7,934	96.9	74	97.8

Table 6. Quarterly Data Completeness

Fourth Quarter 2014					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Drummond					
Wind Speed	2,208	2,204	99.8	4	100.0
Wind Direction	2,208	2,109	95.5	4	95.7
Standard Deviation	2,208	2,109	95.5	4	95.7
Temperature 19 Meters	2,208	2,204	99.8	4	100.0
Temperature 2 Meters	2,208	2,204	99.8	4	100.0
Temperature Delta T	2,208	2,204	99.8	4	100.0
Solar Radiation	2,208	2,204	99.8	4	100.0
Relative Humidity	2,208	2,204	99.8	4	100.0
Sulfur Dioxide	2,208	2,091	94.7	117	100.0
Barometric Pressure	2,208	2,207	100.0	1	100.0
Precipitation	2,208	2,206	99.9	2	100.0
Total	24,288	23,946	98.6	152	99.2

Table 7. Periods of Missing Data

Fourth Quarter 2014						
Starting Date/Hour	Ending Date/Hour	Site	Parameter	Total Hours	Percent of Quarter	Circumstance
Nov 26/4	Nov 26/10	Met tower	WD,SD	7	0.32	Datalogger Collection Error
Dec 8/15	Dec 8/15	Met tower	WD,SD	1	0.05	Datalogger Collection Error
Dec 8/17	Dec 8/17	Met tower	WD,SD	1	0.05	Datalogger Collection Error
Dec 8/20	Dec 9/1	Met tower	WD,SD	6	0.27	Datalogger Collection Error
Dec 9/4	Dec 9/8	Met tower	WD,SD	5	0.23	Datalogger Collection Error
Dec 9/10	Dec 11/13	Met tower	WD,SD	52	2.36	Datalogger Collection Error
Dec 11/24	Dec 11/24	Met tower	WD,SD	1	0.05	Datalogger Collection Error
Dec 12/11	Dec 12/15	Met tower	WD,SD	5	0.23	Datalogger Collection Error
Dec 13/8	Dec 13/20	Met tower	WD,SD	13	0.59	Datalogger Collection Error
Dec 27/13	Dec 27/16	Met tower	WD,SD	4	0.18	Datalogger Collection Error

8.0 MONITORING DATA

The hourly meteorological data values collected at the monitoring sites are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are defined in Table 8.

The SO_2 data collected during the fourth quarter are summarized in Table 9, with hourly values shown in Appendix A. All SO_2 concentrations measured during the quarter, and for the year to date, were well below applicable ambient standards.

Monthly and quarterly wind rose distributions from the meteorological tower are presented in Tables 10 through 13. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 through 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 8. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Un	Unable to reach site	9994
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 9. SO_2 Data Summary for MLR Drummond Site

Day	October 2014		November 2014		December 2014	
	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)	Daily Average (ppm)	One-Hour Maximum (ppm)
1	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000
11	0.000	0.000	0.000	0.001	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.001	0.000	0.000
15	0.000	0.000	0.000	0.001	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000*	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.001	0.001
30	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000			0.000	0.000
MONTH	0.000	0.000	0.000	0.000	0.000	0.000

*Indicates that average is based on less than 80% of possible data.

	Current Quarter	Year-to-Date
Average SO_2 Conc. (ppm)	0.000	0.000
Maximum 24-Hour SO_2 Conc. (ppm)	0.001	0.001
Maximum 1-Hour SO_2 Conc. (ppm)	0.001	0.028

Table 10. Monthly Wind Rose Summary, Drummond

October 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.8	1.2	1.2	1.5	1.6	2.4	3.0	3.8	2.8	0.9	0.8	0.5	0.4	0.3	0.4	0.5	22.2
1.1 - 2.0	1.5	1.6	1.2	2.2	2.4	2.3	5.0	3.8	3.8	1.2	0.8	1.5	0.5	1.9	0.8	0.7	31.0
2.1 - 3.0	0.1	0.4	0.3	0.3	0.1	0.3	0.0	0.7	0.3	0.3	0.1	0.9	4.7	2.2	1.1	0.4	12.1
3.1 - 4.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.7	4.2	2.3	1.5	0.3	9.4
4.1 - 5.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.5	1.2	2.7	1.2	0.0	6.3
5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.8	0.0	0.0	1.9	3.8	0.9	0.0	7.7
6.1 - 7.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.4	0.0	0.0	1.5	2.8	1.6	0.0	6.7
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.7	2.0	0.0	0.0	3.1
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.1	0.0	0.9
9.1 - 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	0.0	0.5	0.0	0.0	0.5
10.1 - 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	0.0	0.0	0.0	0.0	0.0
11.1 - 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	0.0	0.0	0.0	0.0	0.0
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.6	3.2	2.8	3.9	4.4	5.2	8.2	8.3	7.1	4.3	2.0	4.2	15.1	19.1	7.7	1.9	100.0
Average Speed	1.4	1.3	1.4	1.2	1.4	1.4	1.3	1.2	1.3	3.3	1.8	2.5	3.9	5.0	4.2	1.8	2.8

Table 11. Monthly Wind Rose Summary, Drummond

November 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	0.7	1.0	0.6	0.8	1.7	1.3	3.6	4.6	4.1	2.7	0.3	0.8	0.4	1.1	1.3	0.7	25.7
1.1 - 2.0	1.1	0.3	0.8	0.7	0.8	1.7	5.3	5.6	4.9	1.5	0.4	0.3	1.4	1.5	2.0	0.8	29.3
2.1 - 3.0	0.1	0.0	0.0	0.0	1.5	1.0	0.8	0.8	0.7	0.3	0.0	1.4	2.8	2.9	1.1	0.3	13.9
3.1 - 4.0	0.0	0.0	0.0	0.0	0.6	1.0	0.4	0.3	0.6	0.7	0.3	0.4	2.0	2.5	1.4	0.0	10.1
4.1 - 5.0	0.0	0.0	0.0	0.0	0.3	0.7	0.1	0.3	0.1	0.7	0.6	0.0	2.1	3.2	0.1	0.1	8.4
5.1 - 6.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.0	0.4	0.1	0.0	0.3	3.1	0.6	0.0	5.3
6.1 - 7.0	0.0	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.1	0.7	0.1	0.0	0.3	1.8	0.1	0.0	3.8
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	0.8	0.0	2.0
8.1 - 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	0.0	0.7	0.3	0.0	1.0
9.1 - 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	0.0	0.3	0.1	0.0	0.4
10.1 - 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	0.0	0.1	0.0	0.0	0.1
11.1 - 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	0.0	0.0	0.0	0.0	0.0
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.0	1.4	1.4	1.7	5.2	6.2	10.7	11.6	10.5	7.2	1.8	2.9	9.3	18.4	7.9	2.0	100.0
Average Speed	1.2	1.4	1.1	1.4	2.2	2.5	1.6	1.3	1.5	2.6	3.2	2.0	3.2	4.4	3.4	1.5	2.5

Table 12. Monthly Wind Rose Summary, Drummond

December 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	1.5	2.3	1.5	1.4	3.4	3.5	4.9	7.1	5.5	4.4	1.5	1.5	0.6	1.7	1.2	0.5	42.6
1.1 - 2.0	1.2	2.0	0.3	0.6	0.8	1.4	3.1	6.7	4.0	1.5	0.5	0.5	2.3	2.5	0.9	0.9	29.1
2.1 - 3.0	0.0	0.0	0.2	0.0	0.0	0.3	0.0	0.5	0.2	0.3	0.0	1.4	1.8	1.5	0.9	0.6	7.7
3.1 - 4.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	2.6	1.8	0.5	0.2	5.4
4.1 - 5.0	0.2	0.0	0.0	0.0	0.3	1.1	0.5	0.0	0.2	0.0	0.0	0.2	1.7	1.2	0.8	0.0	6.0
5.1 - 6.0	0.0	0.0	0.0	0.0	0.2	2.3	0.3	0.0	0.0	0.0	0.0	0.0	1.4	0.5	0.2	0.0	4.8
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.3	0.0	2.3
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.9
8.1 - 9.0	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	0.2	0.0	0.3
9.1 - 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	0.3	0.2	0.0	0.0	0.5
10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.3
11.1 - 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	0.2	0.0	0.0	0.0	0.2
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.9	4.3	2.0	2.0	4.6	9.4	9.0	14.3	10.0	6.4	2.1	3.5	11.8	10.6	4.9	2.1	100.0
Average Speed	1.3	1.1	1.0	0.8	1.3	2.9	1.5	1.1	1.1	1.2	1.6	1.7	3.8	3.2	2.8	1.7	2.0

Table 13. Quarterly Wind Rose Summary, Drummond

Fourth Quarter 2014																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)																	
0.1 - 1.0	1.0	1.5	1.1	1.2	2.2	2.4	3.8	5.1	4.1	2.6	0.9	0.9	0.5	1.0	0.9	0.6	29.7
1.1 - 2.0	1.3	1.3	0.8	1.2	1.4	1.8	4.5	5.3	4.2	1.4	0.6	0.8	1.4	1.9	1.2	0.8	29.9
2.1 - 3.0	0.1	0.1	0.1	0.1	0.6	0.5	0.3	0.7	0.4	0.3	0.0	1.2	3.2	2.2	1.0	0.4	11.3
3.1 - 4.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.1	0.2	0.3	0.1	0.4	2.9	2.2	1.1	0.1	8.4
4.1 - 5.0	0.0	0.0	0.0	0.0	0.2	0.6	0.2	0.1	0.1	0.3	0.2	0.2	1.7	2.4	0.7	0.0	6.9
5.1 - 6.0	0.0	0.0	0.0	0.0	0.1	0.9	0.2	0.0	0.0	0.4	0.0	0.0	1.2	2.5	0.6	0.0	6.0
6.1 - 7.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.1	0.4	0.0	0.0	0.8	1.8	0.7	0.0	4.4
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.2	0.3	0.0	2.0
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.2	0.0	0.8
9.1 - 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	0.1	0.3	0.0	0.0	0.5
10.1 - 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	0.0	0.0	0.0	0.0	0.1
11.1 - 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	0.0	0.0	0.0	0.0	0.0
12.1 - 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	0.0	0.0	0.0	0.0	0.0
13.1 - 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	0.0	0.0	0.0	0.0	0.0
14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1 - 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	0.0	0.0	0.0	0.0	0.0
16.1 - 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	0.0	0.0	0.0	0.0	0.0
17.1 - 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	0.0	0.0	0.0	0.0	0.0
18.1 - 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	0.0	0.0	0.0	0.0	0.0
19.1 - 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	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	0.0	0.0	0.0	0.0	0.0
Calm																	0.0
Total	2.5	2.9	2.1	2.6	4.7	6.8	9.3	11.3	9.2	5.9	2.0	3.6	12.1	16.2	6.9	2.0	100.0
Average Speed	1.3	1.2	1.2	1.2	1.7	2.4	1.5	1.2	1.3	2.3	2.2	2.1	3.7	4.4	3.6	1.7	2.4

Figure 2. Monthly Wind Rose, Drummond Site

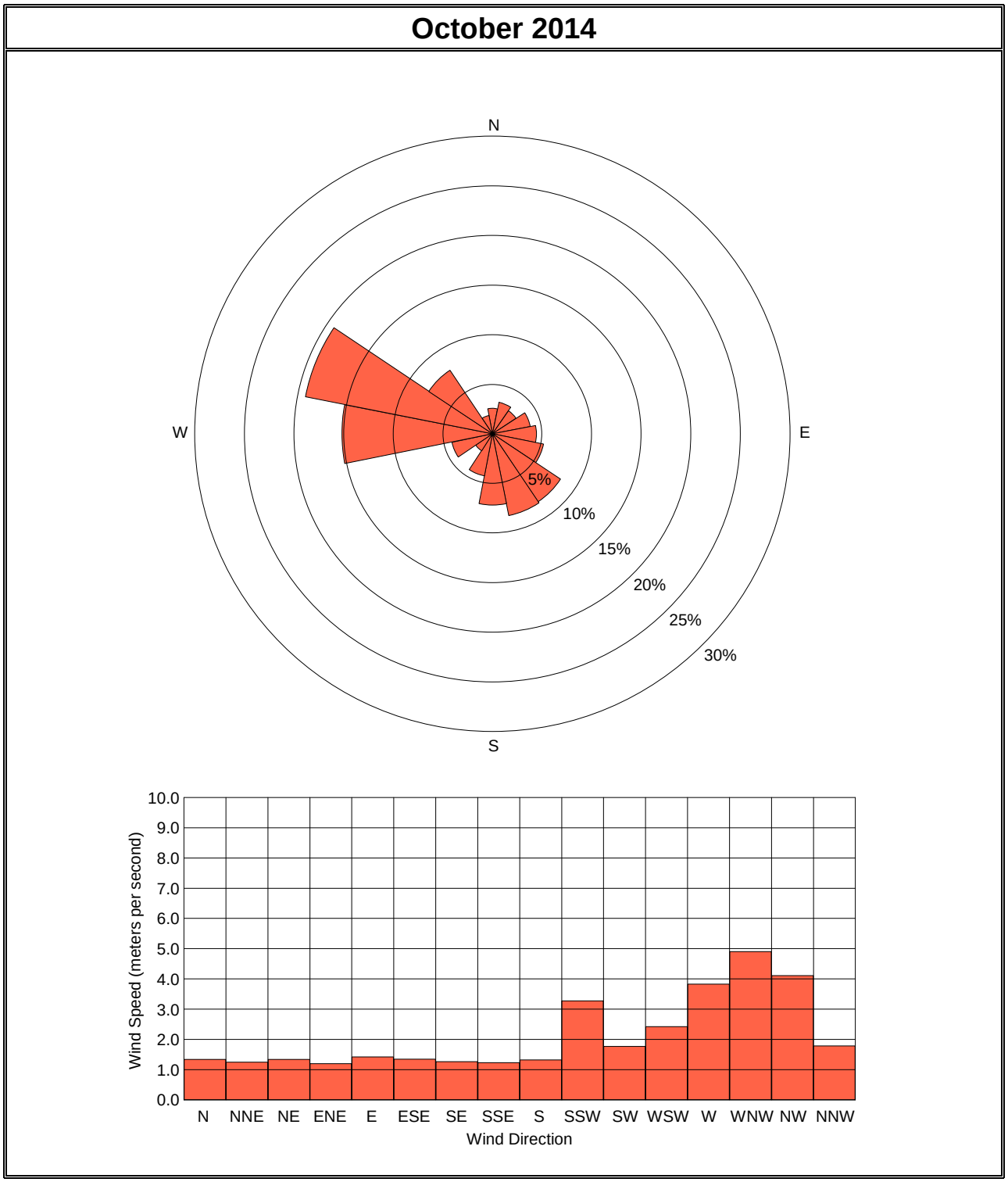


Figure 3. Monthly Wind Rose, Drummond Site

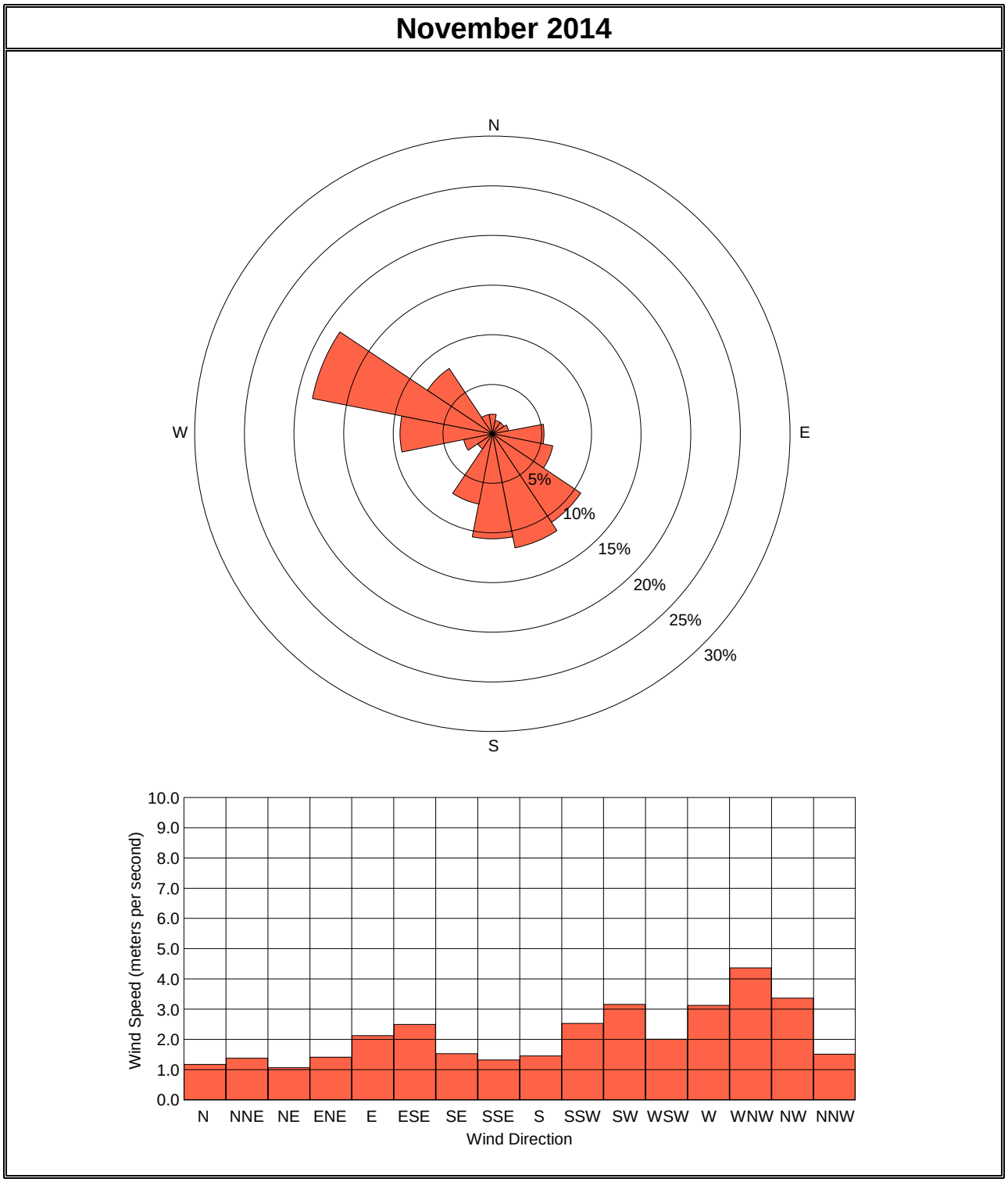


Figure 4. Monthly Wind Rose, Drummond Site

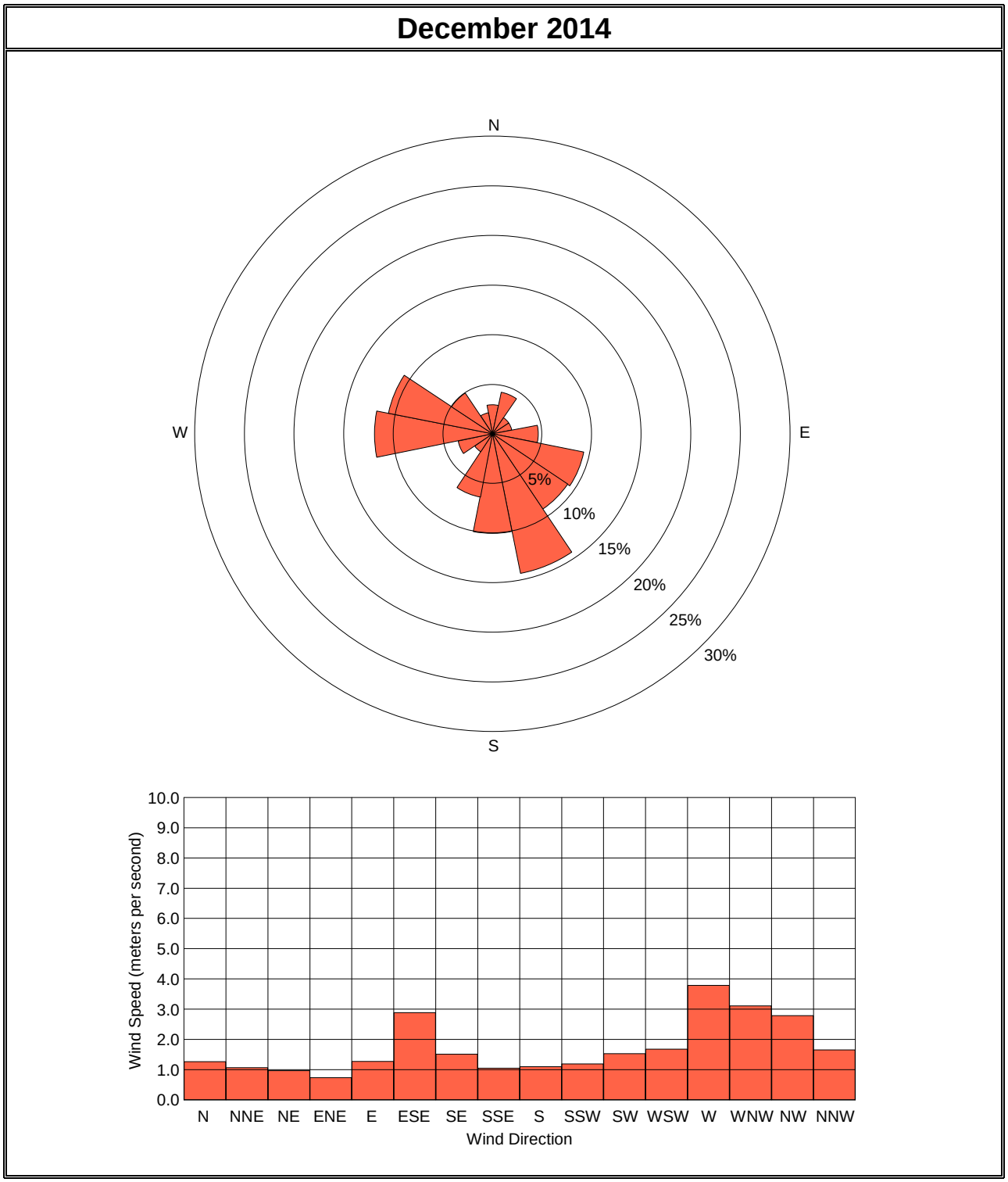
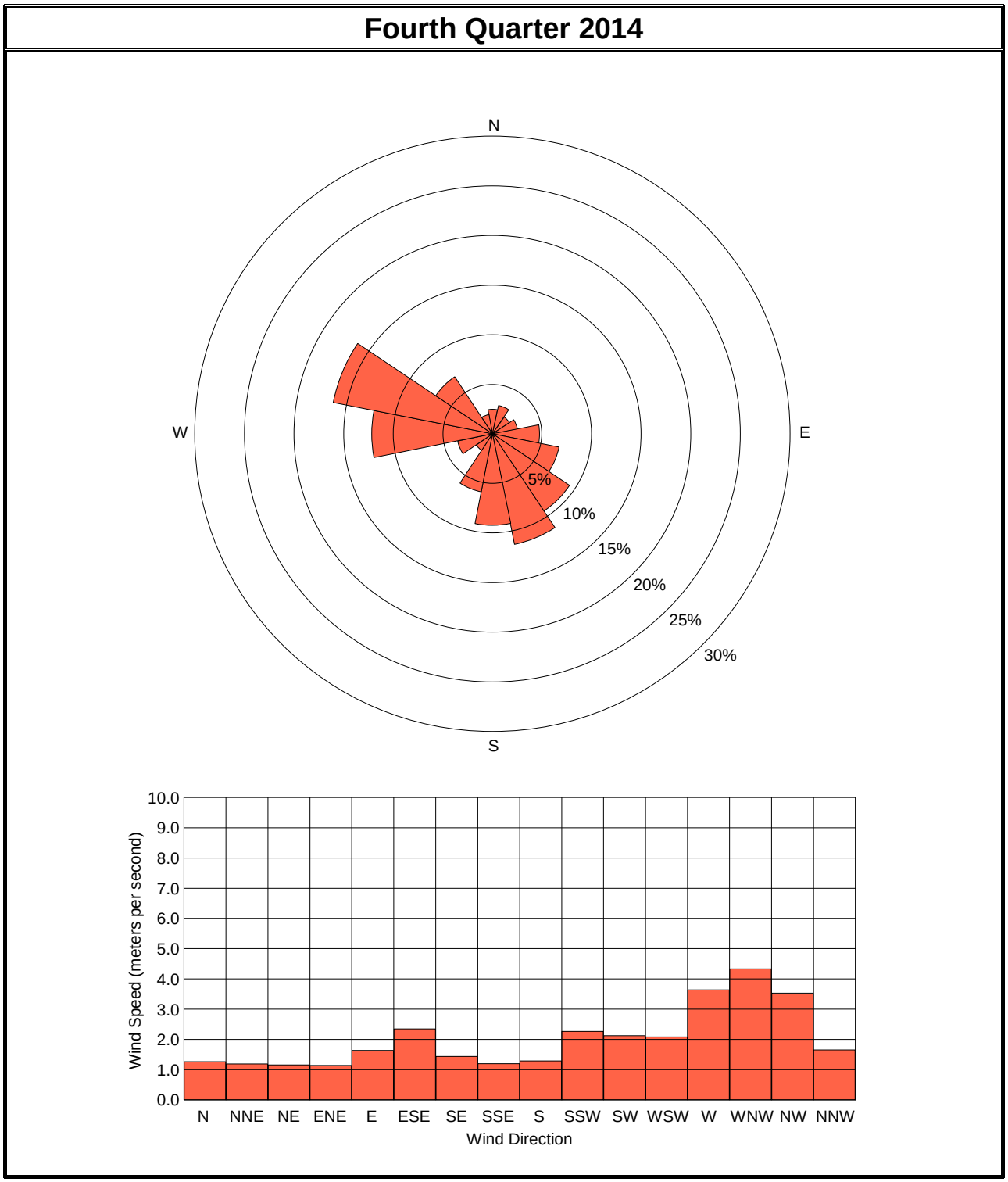


Figure 5. Quarterly Wind Rose, Drummond Site



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, FOURTH QUARTER 2014

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	3.6	4.9	6.2	6.6	5.3	5.6	4.0	3.8	5.3	5.1	5.8	6.0	7.0	7.0	7.2	6.1	7.0	6.2	4.1	3.2	2.8	3.5	2.6	2.1	5.0	7.2	2.1
2	3.0	1.1	2.1	3.5	2.8	2.0	3.4	5.6	7.1	9.4	7.8	7.1	7.6	7.3	7.6	7.0	4.8	4.8	6.4	5.4	3.2	1.4	1.6	1.5	4.7	9.4	1.1
3	0.7	1.1	0.5	0.4	0.7	0.9	1.1	0.9	1.5	1.4	1.2	1.7	2.1	1.8	5.0	6.8	6.5	5.7	5.8	4.1	3.1	3.3	2.4	2.0	2.5	6.8	0.4
4	1.0	1.4	0.9	0.7	0.7	0.8	1.0	1.5	1.6	1.4	3.9	7.7	7.4	8.6	7.9	6.7	7.4	6.1	4.0	3.9	5.7	4.5	5.5	2.5	3.9	8.6	0.7
5	2.1	1.3	2.4	1.4	1.1	2.0	2.4	2.7	1.9	4.0	6.2	6.9	6.1	5.9	5.1	5.7	6.1	5.3	5.0	5.8	4.0	3.9	5.0	4.6	4.0	6.9	1.1
6	4.2	4.0	3.3	3.4	3.3	3.0	2.9	3.3	2.0	2.2	4.0	7.0	7.7	6.5	7.1	7.8	6.4	5.5	2.2	3.2	4.0	3.7	2.0	3.8	4.3	7.8	2.0
7	2.7	4.5	4.9	1.4	1.2	1.4	1.2	1.6	0.8	1.4	1.6	2.3	6.0	6.9	6.6	5.9	5.5	4.1	3.0	3.0	2.6	0.9	0.9	0.8	3.0	6.9	0.8
8	1.5	1.7	2.1	1.8	1.0	1.1	1.0	1.0	1.5	1.2	0.8	1.4	1.8	1.6	2.2	2.3	4.2	4.7	4.1	3.9	2.1	1.1	1.2	0.9	1.9	4.7	0.8
9	0.8	0.8	0.6	0.9	1.3	1.3	0.6	1.3	0.9	1.3	1.3	1.2	1.6	1.8	1.8	1.6	4.0	2.5	2.4	2.1	2.1	0.9	0.7	0.7	1.4	4.0	0.6
10	0.8	1.0	0.8	0.8	0.7	0.7	0.6	1.2	1.1	1.5	1.6	1.5	1.5	1.7	2.9	4.9	5.8	4.6	3.6	2.6	3.0	2.7	3.1	2.3	2.1	5.8	0.6
11	1.0	2.8	3.0	2.4	1.3	0.7	0.9	0.7	1.0	0.8	2.0	4.5	3.7	5.7	5.6	7.8	5.3	1.9	5.2	8.0	6.7	3.4	1.6	2.2	3.3	8.0	0.7
12	4.1	3.7	4.2	1.2	3.8	6.9	5.4	5.4	5.6	6.3	7.3	7.3	6.5	5.7	7.9	7.0	6.3	6.3	3.8	3.3	2.3	1.4	1.0	0.8	4.7	7.9	0.8
13	0.8	0.7	0.6	0.9	1.2	1.0	0.9	0.7	0.9	1.3	1.9	1.7	1.5	2.7	2.2	1.7	2.3	1.7	1.5	1.5	1.2	0.6	1.0	1.1	1.3	2.7	0.6
14	1.1	1.6	1.7	1.2	0.8	1.1	1.3	1.0	1.0	1.8	0.9	1.3	3.8	4.3	5.1	6.1	6.9	6.9	5.7	3.3	2.5	1.0	2.2	1.1	2.7	6.9	0.8
15	1.2	0.7	0.6	0.6	0.9	1.0	0.8	1.0	0.7	0.9	1.1	0.8	6.2	3.8	7.6	8.6	5.9	3.8	6.4	4.4	3.6	3.3	2.5	3.4	2.9	8.6	0.6
16	3.7	3.4	2.9	3.1	2.9	1.8	2.3	3.3	1.5	2.1	2.3	2.6	2.0	2.4	2.5	1.7	1.6	2.2	2.3	1.7	0.8	0.8	0.9	1.1	2.2	3.7	0.8
17	0.8	0.7	0.7	1.2	0.8	1.2	0.7	0.6	1.1	1.4	1.2	1.2	1.6	1.3	0.9	1.9	1.6	2.1	1.4	1.1	0.9	1.0	0.7	0.7	1.1	2.1	0.6
18	1.2	1.3	1.1	1.3	1.4	1.5	0.7	0.7	0.7	1.2	1.4	3.4	6.1	6.2	6.0	5.6	4.8	5.1	5.6	6.3	6.7	4.3	1.5	1.5	3.1	6.7	0.7
19	1.7	1.1	1.1	1.0	1.4	1.2	1.2	1.0	1.2	1.3	1.5	1.4	1.7	1.2	1.3	1.6	1.2	1.1	1.1	1.4	1.1	0.8	0.9	0.9	1.2	1.7	0.8
20	0.5	0.7	0.5	0.6	0.9	0.7	0.7	0.7	1.1	1.2	1.2	1.3	1.0	1.3	1.1	1.3	0.6	1.1	1.2	1.1	2.0	1.8	1.1	1.2	1.0	2.0	0.5
21	2.6	1.9	2.5	2.2	2.8	9.5	8.9	9.8	9.0	6.3	7.7	6.4	8.1	5.8	3.6	2.7	2.9	2.4	3.0	2.9	2.4	2.4	1.4	0.8	4.5	9.8	0.8
22	1.6	1.9	2.7	2.6	1.3	0.9	0.8	1.2	1.7	1.1	1.2	1.7	1.7	1.6	2.0	5.7	5.5	5.6	5.1	3.6	2.3	2.3	1.5	1.3	2.4	5.7	0.8
23	1.3	1.0	1.2	1.2	1.3	1.6	7.3	7.8	6.2	4.3	5.5	6.5	6.6	5.8	8.1	6.4	4.3	4.9	4.8	4.5	4.6	3.6	2.7	2.8	4.3	8.1	1.0
24	2.6	4.3	6.8	8.3	6.7	4.9	4.5	1.7	1.7	0.8	1.3	1.1	1.4	1.4	0.9	1.0	1.4	1.5	1.4	1.7	0.7	0.6	1.2	0.9	2.5	8.3	0.6
25	0.9	0.8	0.5	1.5	1.0	1.5	1.3	1.3	1.4	1.2	1.0	0.9	0.9	1.0	1.2	0.9	1.1	2.2	1.8	1.1	1.5	1.6	1.3	1.6	1.2	2.2	0.5
26	1.5	5.4	9.5	6.4	6.7	5.1	4.2	3.6	3.0	5.5	5.7	5.8	5.2	5.7	6.5	7.0	5.3	5.0	5.1	3.2	3.0	3.0	2.3	3.4	4.9	9.5	1.5
27	2.6	2.4	3.3	1.7	2.6	2.4	2.3	2.6	4.0	3.6	3.3	5.2	5.6	5.4	5.0	5.0	4.9	4.1	5.0	3.4	5.2	4.6	2.3	2.4	3.7	5.6	1.7
28	1.9	1.1	0.9	0.8	0.6	0.6	1.3	0.7	1.4	0.8	1.7	1.2	1.6	1.0	1.0	1.3	0.7	0.6	1.2	2.6	2.8	1.4	1.3	1.3	1.2	2.8	0.6
29	1.2	1.1	1.3	1.1	1.2	4.1	3.3	3.2	3.4	3.5	3.7	4.1	3.3	4.4	4.2	3.2	3.9	3.4	3.3	3.8	1.9	1.2	1.0	1.0	2.7	4.4	1.0
30	0.7	0.8	1.6	0.7	1.3	1.7	0.9	1.0	0.9	0.9	0.8	1.3	1.5	1.8	1.0	0.8	0.6	0.7	0.5	0.6	0.7	0.8	0.7	0.8	1.0	1.8	0.5
31	0.7	0.7	0.6	0.7	0.5	0.6	0.7	0.6	0.9	0.8	0.9	1.3	1.3	1.0	1.1	1.8	1.7	1.2	1.2	1.4	1.4	0.7	0.9	1.2	1.0	1.8	0.5
Avg	1.7	1.9	2.3	2.0	1.9	2.2	2.2	2.3	2.3	2.5	2.8	3.3	3.9	3.8	4.1	4.3	4.1	3.7	3.5	3.2	2.8	2.1	1.8	1.7	2.8	5.8	0.9
Max	4.2	5.4	9.5	8.3	6.7	9.5	8.9	9.8	9.0	9.4	7.8	7.7	8.1	8.6	8.1	8.6	7.4	6.9	6.4	8.0	6.7	4.6	5.5	4.6	5.0	9.8	2.1
Min	0.5	0.7	0.5	0.4	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.9	1.0	0.9	0.8	0.6	0.6	0.5	0.6	0.7	0.6	0.7	0.7	1.0	1.7	0.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.2	1.0	0.7	0.9	0.8	0.8	0.8	0.7	0.9	1.0	1.1	1.2	1.2	1.2	1.4	3.2	7.7	6.9	4.1	4.6	2.4	3.2	1.6	2.6	2.1	7.7	0.7
2	4.8	4.0	2.2	1.0	1.6	2.6	2.5	2.4	2.5	3.6	4.7	3.1	2.4	2.5	3.5	4.5	4.6	5.0	3.8	1.9	2.6	2.7	1.1	2.1	3.0	5.0	1.0
3	1.8	2.2	4.0	2.3	1.0	1.8	1.6	1.2	1.0	1.3	2.2	2.9	3.5	3.7	4.1	4.9	3.8	3.9	3.0	2.3	2.1	2.1	3.1	1.9	2.6	4.9	1.0
4	0.9	1.1	1.1	1.2	1.0	1.2	0.9	2.6	2.2	2.2	2.0	2.8	2.7	5.5	4.2	2.9	2.3	1.1	1.2	1.3	2.4	3.4	6.4	6.8	2.5	6.8	0.9
5	4.7	3.8	3.9	3.7	3.4	1.9	2.5	2.9	2.3	1.3	2.3	3.2	2.9	2.5	3.2	3.7	4.1	3.7	2.9	2.2	1.4	2.5	2.3	1.8	2.9	4.7	1.3
6	1.3	0.9	1.1	1.0	1.3	0.8	0.6	0.8	0.6	1.1	1.3	1.0	1.8	1.4	0.9	0.8	0.8	1.3	2.4	2.2	7.6	7.7	6.5	6.3	2.1	7.7	0.6
7	4.2	4.6	5.9	9.0	5.7	5.2	2.6	2.4	2.5	2.2	4.2	4.6	4.1	4.2	4.9	4.3	4.7	6.0	7.4	6.9	5.4	1.3	1.2	0.9	4.4	9.0	0.9
8	1.1	1.0	1.1	0.8	0.7	0.5	0.9	0.7	0.9	1.3	1.1	1.2	1.3	1.3	1.4	1.7	1.4	1.5	1.4	0.6	1.4	1.8	1.4	1.2	1.2	1.8	0.5
9	1.0	1.2	1.4	2.7	2.0	1.8	1.5	1.1	1.4	1.0	6.0	6.2	9.8	7.8	5.9	5.5	3.9	3.4	4.6	5.4	6.7	3.9	6.5	6.7	4.1	9.8	1.0
10	5.6	5.3	5.5	3.7	2.8	2.2	1.1	1.4	1.4	1.2	1.5	1.5	1.7	2.4	2.0	4.3	6.7	5.5	6.0	4.5	4.4	6.2	5.8	3.6	3.6	6.7	1.1
11	4.8	3.9	3.1	2.6	3.1	3.2	3.8	3.9	4.2	3.0	2.6	2.3	2.0	1.4	1.7	2.6	4.5	3.9	4.1	3.2	3.8	2.8	2.5	2.1	3.1	4.8	1.4
12	2.0	1.2	0.9	2.7	1.3	1.9	0.9	0.7	0.8	1.1	1.0	1.1	1.4	1.2	1.1	1.5	0.9	1.1	1.1	0.8	1.0	0.8	0.6	0.5	1.2	2.7	0.5
13	0.4	1.0	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.2	1.5	1.8	1.5	1.2	1.4	0.9	0.5	0.7	0.5	1.1	0.8	0.5	0.9	0.8	1.8	0.4
14	0.9	0.8	0.8	0.8	0.8	0.8	0.5	0.6	0.7	0.7	0.8	1.2	1.9	1.7	2.2	3.8	2.2	2.7	2.6	2.8	2.5	1.9	2.5	1.5	1.6	3.8	0.5
15	1.4	0.9	1.2	0.7	0.8	0.9	0.7	0.9	1.2	0.9	1.2	1.9	2.6	2.2	1.7	1.5	1.0	0.7	0.4	0.6	0.7	1.2	1.2	0.9	1.1	2.6	0.4
16	1.3	1.0	1.1	1.8	1.2	1.6	1.1	2.3	1.4	1.9	1.6	1.7	1.9	1.6	2.1	1.5	0.9	0.9	0.8	0.6	1.1	1.1	1.7	0.7	1.4	2.3	0.6
17	0.8	1.4	0.7	0.8	0.6	0.8	0.9	0.9	0.9	1.2	0.9	1.7	1.9	2.1	1.5	1.2	0.9	0.6	1.0	0.6	0.9	0.7	0.6	1.1	1.0	2.1	0.6
18	0.7	0.8	0.7	1.3	1.1	1.5	0.8	1.2	0.7	0.7	1.0	1.6	1.3	1.5	1.3	0.8	1.1	0.8	1.1	0.8	1.3	1.1	0.6	0.8	1.0	1.6	0.6
19	0.7	0.6	0.6	0.5	1.6	1.1	1.0	1.3	0.7	1.0	1.5	1.4	1.5	1.4	1.8	1.4	1.2	0.8	0.6	0.8	0.4	0.4	1.1	0.5	1.0	1.8	0.4
20	0.7	0.6	0.7	1.2	0.8	1.1	0.8	1.0	0.9	0.9	1.3	1.1	1.1	1.1	0.9	0.7	1.1	1.2	1.3	2.3	2.0	3.3	5.2	4.3	1.5	5.2	0.6
21	2.1	1.4	0.9	1.0	1.4	1.1	1.0	1.0	0.9	1.0	1.1	1.0	1.0	1.2	0.9	0.9	0.6	1.7	0.9	1.0	0.8	0.7	2.3	4.3	1.3	4.3	0.6
22	4.7	4.5	3.0	3.6	5.1	3.4	2.3	3.9	4.7	4.9	6.0	6.8	9.3	8.5	10.3	7.9	6.0	6.6	5.9	5.0	4.6	4.6	3.3	4.5	5.4	10.3	2.3
23	4.1	3.7	5.5	6.3	5.3	6.3	4.8	4.1	2.9	4.0	5.8	4.5	5.1	4.9	3.6	1.8	2.8	1.7	2.8	2.9	3.6	2.0	4.0	4.7	4.0	6.3	1.7
24	5.9	8.8	7.7	8.5	7.9	6.2	6.8	5.2	2.6	4.5	5.5	5.7	6.7	6.0	3.9	3.1	3.8	4.2	2.7	2.2	1.2	1.8	3.0	2.6	4.9	8.8	1.2
25	2.6	2.2	2.6	3.1	3.2	4.7	5.1	7.2	7.4	7.4	6.0	6.0	4.2	5.1	5.3	4.1	3.3	3.4	1.8	1.2	0.5	0.5	0.3	0.3	3.6	7.4	0.3
26	0.4	0.6	0.3	0.4	0.2	0.2	0.3	0.6	0.3	0.3	0.4	0.7	2.9	3.4	2.5	3.5	3.5	3.5	2.2	1.3	1.9	1.2	1.0	0.9	1.4	3.5	0.2
27	1.3	0.9	0.7	0.7	0.7	0.9	1.0	1.0	1.5	6.5	6.8	1.7	1.3	1.5	1.0	1.1	3.3	1.7	2.4	2.0	3.5	2.9	4.0	7.1	2.3	7.1	0.7
28	4.5	2.9	3.2	4.8	3.2	1.9	2.1	3.7	3.2	3.2	6.0	6.6	4.6	4.4	6.7	6.9	6.1	6.3	5.9	4.4	4.5	5.3	3.7	3.2	4.5	6.9	1.9
29	1.6	2.3	2.7	1.9	3.4	2.0	5.0	9.6	8.3	7.8	9.0	8.8	7.6	6.8	3.2	2.0	3.3	4.3	4.6	2.5	5.0	2.5	1.7	3.2	4.5	9.6	1.6
30	2.8	1.6	1.7	1.3	1.5	1.0	1.3	1.5	1.4	1.6	2.0	2.3	1.5	1.8	1.3	1.5	1.2	0.7	0.6	0.5	1.1	1.3	1.1	1.6	1.4	2.8	0.5
Avg	2.3	2.2	2.2	2.4	2.1	2.0	1.9	2.2	2.0	2.3	2.9	2.9	3.1	3.1	2.9	2.8	3.0	2.9	2.7	2.3	2.6	2.4	2.6	2.7	2.5	5.3	0.9
Max	5.9	8.8	7.7	9.0	7.9	6.3	6.8	9.6	8.3	7.8	9.0	8.8	9.8	8.5	10.3	7.9	7.7	6.9	7.4	6.9	7.6	7.7	6.5	7.1	5.4	10.3	2.3
Min	0.4	0.6	0.3	0.4	0.2	0.2	0.3	0.5	0.3	0.3	0.4	0.7	1.0	1.1	0.9	0.7	0.6	0.5	0.4	0.5	0.4	0.4	0.3	0.3	0.8	1.6	0.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Speed (meters per second)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.8	0.4	0.7	0.5	0.6	0.6	0.7	0.3	0.7	0.5	0.4	0.5	0.8	1.0	1.6	1.2	1.4	1.5	1.0	0.9	1.1	0.9	1.5	2.5	0.9	2.5	0.3
2	1.2	1.5	2.1	3.0	3.5	3.7	3.3	3.5	4.8	3.4	3.3	3.1	4.1	4.8	4.8	5.6	6.2	1.6	1.0	0.8	1.9	1.1	1.3	1.3	3.0	6.2	0.8
3	1.2	0.8	0.8	0.9	1.2	0.6	0.4	1.2	0.9	1.1	1.1	1.6	1.5	1.5	1.6	1.1	1.2	1.5	0.9	0.9	1.1	0.8	1.1	0.7	1.1	1.6	0.4
4	0.7	0.8	0.6	0.6	0.6	0.6	0.9	0.6	0.6	0.5	0.8	1.3	0.8	0.6	0.6	1.5	1.3	1.1	0.7	1.1	0.8	0.9	0.8	1.2	0.8	1.5	0.5
5	0.9	1.2	1.2	1.0	0.9	0.9	0.7	0.5	0.6	0.8	1.0	0.7	0.8	1.2	1.1	0.8	0.9	1.1	1.0	0.8	0.7	0.9	1.1	0.9	0.9	1.2	0.5
6	1.2	1.3	0.8	0.6	0.8	0.9	0.9	1.0	0.9	0.8	0.7	0.8	1.2	4.0	2.3	1.4	2.9	1.4	1.2	1.2	4.3	4.5	2.6	2.5	1.7	4.5	0.6
7	4.4	3.8	3.7	2.7	3.4	2.5	3.3	3.6	3.6	3.4	1.8	1.3	1.0	1.5	1.7	1.3	1.1	0.9	0.8	1.6	0.8	0.7	1.0	1.5	2.1	4.4	0.7
8	1.1	0.7	0.5	1.1	1.0	0.4	1.3	1.2	0.6	0.8	1.0	1.1	1.5	0.8	1.2	1.5	1.0	0.7	0.6	0.5	0.8	0.9	1.1	0.9	0.9	1.5	0.4
9	1.3	1.4	0.7	0.7	1.1	0.8	0.9	0.8	0.9	0.7	0.9	1.1	1.0	0.9	1.1	1.0	1.2	0.8	1.0	0.7	0.9	1.0	1.1	1.2	1.0	1.4	0.7
10	1.9	1.0	1.5	1.0	1.1	1.1	0.9	1.1	0.9	0.8	0.8	0.5	1.0	1.3	1.2	0.9	1.1	1.1	1.4	2.2	2.1	1.8	1.2	1.6	1.2	2.2	0.5
11	1.1	1.4	1.9	2.5	2.6	1.8	1.5	1.0	1.2	1.3	0.9	1.0	1.3	0.9	0.8	0.8	1.1	0.9	1.1	1.3	0.9	1.0	1.5	2.2	1.3	2.6	0.8
12	1.7	0.8	1.1	0.8	0.9	0.8	1.2	0.8	0.8	0.8	0.3	0.2	0.2	0.6	0.8	1.8	0.9	0.7	0.9	0.9	0.8	0.9	0.9	0.3	0.8	1.8	0.2
13	0.2	0.3	3.4	0.2	4.8	10.4	8.8	5.0	5.1	5.1	3.8	5.2	6.3	6.6	6.7	3.4	1.6	4.0	4.5	4.5	4.9	5.6	3.9	4.2	4.5	10.4	0.2
14	5.8	4.6	1.9	2.5	1.0	3.1	1.7	2.2	1.3	0.8	1.1	1.0	1.6	1.1	0.5	0.2	1.5	0.8	0.7	0.5	1.0	1.7	2.1	1.9	1.7	5.8	0.2
15	0.6	1.1	0.7	0.7	0.9	1.2	0.8	0.8	1.0	1.1	1.4	1.5	1.1	0.6	0.4	0.9	1.2	1.2	0.9	1.2	0.7	0.6	0.5	0.7	0.9	1.5	0.4
16	0.5	0.6	0.7	0.8	1.0	0.8	0.9	1.0	0.9	1.1	0.8	1.5	1.1	0.7	0.8	1.3	1.1	0.8	1.1	1.0	0.5	0.7	0.5	0.5	0.9	1.5	0.5
17	0.5	1.0	0.6	0.5	1.0	1.0	0.6	0.9	1.2	0.9	0.6	1.0	0.9	0.8	1.0	1.7	1.5	0.6	0.5	0.8	1.3	0.9	1.1	1.4	0.9	1.7	0.5
18	0.5	0.7	0.6	0.7	1.1	0.9	0.8	0.7	1.0	Au	Au	Ca	Ca	0.7	0.8	0.8	1.5	1.0	1.3	1.2	0.7	1.1	1.4	0.7	0.9	1.5	0.5
19	1.1	0.9	0.6	0.5	0.5	0.4	0.7	0.5	0.7	1.0	0.9	0.7	1.1	1.2	0.8	0.8	0.7	0.7	3.1	5.0	2.9	1.9	3.3	2.5	1.4	5.0	0.4
20	3.2	1.9	1.7	1.5	2.2	1.9	0.9	1.0	1.3	1.2	0.7	0.8	0.7	1.1	0.9	1.0	0.9	0.7	0.7	0.8	1.2	1.4	1.2	0.8	1.2	3.2	0.7
21	1.0	1.4	1.5	1.5	1.4	2.2	2.8	2.1	4.6	6.1	6.7	7.6	6.7	8.1	9.1	6.6	6.9	5.5	4.7	4.8	4.3	4.9	4.4	4.8	4.6	9.1	1.0
22	5.0	5.3	7.4	8.0	6.2	5.5	5.5	5.8	5.8	5.3	6.0	7.7	11.1	10.9	9.5	9.4	6.9	5.3	2.9	2.8	4.4	3.8	2.2	1.9	6.0	11.1	1.9
23	1.9	2.7	3.9	3.1	2.3	2.5	1.0	1.2	0.7	0.5	0.5	0.8	1.3	0.5	1.3	1.4	2.3	2.3	1.9	1.7	1.3	0.8	0.8	2.0	1.6	3.9	0.5
24	1.2	1.0	1.3	1.5	2.0	1.8	3.0	1.3	1.7	3.3	2.5	1.7	3.2	6.1	7.7	6.0	4.9	4.8	4.8	6.4	4.9	2.9	1.5	1.5	3.2	7.7	1.0
25	1.8	1.9	2.7	2.0	1.7	2.0	1.8	2.4	2.1	1.5	0.8	1.2	1.2	0.7	0.7	0.9	0.4	0.6	0.6	0.5	0.6	0.6	1.6	1.0	1.3	2.7	0.4
26	1.9	1.7	1.8	1.5	2.8	3.8	1.9	0.7	0.9	1.2	0.7	2.6	3.8	4.1	4.3	3.9	3.5	3.2	2.3	1.2	1.0	1.2	2.6	2.7	2.3	4.3	0.7
27	2.4	2.1	1.9	3.0	2.7	2.3	3.2	3.1	3.2	1.7	1.2	1.6	1.4	2.3	2.7	1.9	1.4	1.0	1.9	2.0	1.5	1.9	2.1	1.4	2.1	3.2	1.0
28	1.1	0.9	1.1	1.4	2.0	1.0	1.3	2.1	2.6	2.2	0.9	1.3	2.8	4.3	5.1	4.6	5.2	4.9	5.5	4.7	5.6	4.8	5.0	4.6	3.1	5.6	0.9
29	5.8	5.3	5.1	5.1	4.8	5.7	6.0	6.2	6.0	6.5	7.5	6.4	5.9	6.0	5.7	5.2	5.6	4.8	6.4	4.8	4.5	5.2	6.3	5.8	5.7	7.5	4.5
30	4.3	3.3	2.3	0.8	0.6	1.3	0.9	0.8	0.9	1.4	1.5	1.5	0.9	2.3	1.7	1.8	1.3	0.7	0.9	0.6	0.7	0.6	0.8	1.0	1.4	4.3	0.6
31	0.5	0.5	0.6	0.5	0.8	0.6	0.8	1.0	0.9	1.0	1.1	1.4	1.3	1.7	2.2	1.4	1.0	1.0	0.8	1.0	0.6	0.4	0.6	0.7	0.9	2.2	0.4
Avg	1.8	1.7	1.8	1.7	1.9	2.0	1.9	1.8	1.9	1.9	1.7	2.0	2.3	2.5	2.6	2.3	2.2	1.8	1.8	1.9	1.9	1.8	1.8	1.8	2.0	4.0	0.7
Max	5.8	5.3	7.4	8.0	6.2	10.4	8.8	6.2	6.0	6.5	7.5	7.7	11.1	10.9	9.5	9.4	6.9	5.5	6.4	6.4	5.6	5.6	6.3	5.8	6.0	11.1	4.5
Min	0.2	0.3	0.5	0.2	0.5	0.4	0.4	0.3	0.6	0.5	0.3	0.2	0.2	0.5	0.4	0.2	0.4	0.6	0.5	0.5	0.5	0.4	0.5	0.3	0.8	1.2	0.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
October 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	308	290	309	295	300	298	295	286	281	281	282	283	279	283	288	265	271	278	271	258	253	257	271	279	282
2	265	349	283	272	261	253	259	274	289	293	283	272	287	288	212	101	89	111	126	123	125	125	74	118	252
3	35	138	183	227	155	165	165	159	144	121	60	138	73	19	308	310	302	305	295	302	296	294	259	178	212
4	178	192	98	104	48	22	166	281	326	359	346	287	279	287	291	283	278	279	269	279	287	288	299	310	293
5	345	346	310	45	234	270	274	277	256	277	278	279	274	276	269	292	299	285	285	288	284	269	257	249	283
6	254	261	263	266	271	268	282	271	293	307	280	287	275	267	287	295	282	288	268	279	279	256	283	273	276
7	314	310	294	83	299	149	155	163	149	76	118	59	286	281	299	293	282	284	271	265	308	42	142	133	279
8	167	176	185	189	196	178	227	154	146	96	86	118	122	126	164	260	287	317	319	305	257	27	88	70	164
9	147	114	110	207	210	176	142	177	151	83	59	36	30	102	11	5	36	12	166	203	191	136	114	82	117
10	117	73	119	173	321	170	166	173	137	113	118	107	139	98	332	305	302	296	281	269	289	292	266	260	196
11	169	242	261	273	352	254	80	209	342	7	346	296	303	275	283	294	298	286	274	296	290	298	242	220	284
12	275	316	281	129	266	288	291	292	282	290	288	293	287	275	289	288	289	303	289	276	270	322	58	348	292
13	269	122	190	130	207	240	216	119	59	59	57	83	3	17	43	74	120	136	162	134	143	227	11	84	112
14	93	123	151	145	13	58	130	104	111	146	138	39	266	305	298	316	316	309	309	294	289	98	162	173	102
15	185	155	159	33	179	165	96	142	100	146	71	346	289	358	301	301	305	325	304	291	282	271	307	271	283
16	285	265	294	332	291	241	293	283	159	18	46	112	63	288	244	248	282	313	325	289	171	141	117	137	280
17	128	22	16	167	202	177	130	188	144	134	71	101	133	142	89	302	287	287	101	26	131	110	161	92	124
18	184	198	230	213	216	216	42	17	163	90	13	317	316	298	295	303	306	313	315	316	303	276	37	173	288
19	283	171	161	134	190	179	186	188	167	125	134	125	153	94	114	170	181	178	61	68	146	147	77	55	145
20	78	117	77	158	165	172	184	134	146	130	86	96	153	11	26	102	2	33	179	113	309	275	37	220	114
21	290	208	289	200	356	291	297	299	292	288	265	282	297	284	275	261	259	262	267	257	280	267	338	314	280
22	298	302	292	263	197	1	238	174	155	175	68	64	52	84	38	201	209	201	200	198	153	99	151	353	180
23	28	26	101	53	233	136	200	196	173	168	190	196	199	210	219	212	205	218	269	243	302	285	284	259	215
24	237	284	306	315	313	302	301	85	191	164	147	117	138	29	45	288	159	251	317	309	162	109	68	67	284
25	123	201	123	151	181	161	126	109	137	166	198	297	29	41	137	103	359	158	254	9	254	180	26	17	136
26	253	204	287	306	274	270	263	256	244	260	278	312	288	288	306	297	263	265	291	275	263	281	266	258	273
27	274	268	277	253	282	261	266	293	290	309	310	287	278	266	272	282	293	303	311	317	315	305	280	266	286
28	273	22	156	252	269	216	164	194	149	151	129	128	160	82	46	166	135	307	303	347	279	187	158	177	178
29	165	188	336	37	320	296	279	286	262	310	280	285	280	271	286	278	299	300	305	304	294	90	175	170	284
30	143	161	170	215	192	242	128	179	168	147	107	114	151	164	180	180	78	170	158	132	359	337	43	149	154
31	100	66	101	145	138	76	172	358	183	278	140	133	119	28	145	140	202	284	351	343	144	157	142	161	130
Prev	226	204	229	197	245	225	205	207	180	135	74	26	273	316	296	275	283	284	281	289	265	253	81	195	252

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
November 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	163	149	57	4	39	166	156	316	178	84	41	70	139	42	100	304	290	287	299	190	94	134	54	288	88
2	286	281	309	308	298	311	303	289	295	295	302	303	314	298	288	271	267	283	297	248	249	261	333	268	290
3	288	278	253	264	303	284	307	330	319	34	80	255	325	316	303	291	303	300	282	251	253	278	284	277	293
4	340	3	305	264	294	31	359	278	249	239	278	297	273	297	286	207	281	310	120	320	307	304	290	281	295
5	283	270	272	263	262	266	284	284	322	4	354	306	321	318	311	307	299	302	276	284	128	159	171	158	287
6	169	177	158	198	135	92	252	276	243	272	152	145	174	356	2	43	178	282	256	283	322	310	302	312	240
7	299	280	296	297	271	291	297	278	290	271	297	280	265	274	287	299	316	318	313	302	295	57	11	103	297
8	139	254	195	176	131	317	177	312	160	155	87	144	107	65	124	138	139	140	155	95	160	131	162	141	144
9	145	162	278	278	298	310	306	306	334	260	301	292	316	312	316	315	314	297	290	289	290	307	22	119	300
10	126	132	115	102	101	109	183	227	198	193	133	154	117	106	134	107	85	78	84	87	103	118	122	112	123
11	107	100	94	97	93	91	103	110	102	138	101	131	127	103	119	98	95	104	108	103	115	127	105	116	108
12	145	144	58	125	173	180	138	166	117	125	130	117	128	124	123	231	134	171	156	110	170	165	53	192	141
13	92	145	71	133	251	133	169	128	131	158	119	135	147	126	147	154	178	84	170	165	177	159	142	149	143
14	166	150	153	176	181	194	139	242	131	153	31	89	132	125	110	129	108	119	101	85	83	85	95	73	125
15	143	93	159	190	117	158	154	125	173	136	116	177	175	168	156	160	166	166	151	150	68	101	173	193	150
16	171	344	2	343	331	12	356	344	157	156	145	169	158	142	168	195	193	173	166	21	150	195	185	203	166
17	167	189	206	176	246	191	167	170	166	160	128	136	143	148	168	160	193	222	162	20	133	1	41	202	167
18	113	213	170	172	228	186	31	171	203	183	136	143	149	134	176	155	165	95	244	139	182	299	17	169	166
19	303	196	97	181	170	169	180	164	178	181	154	139	139	135	153	173	169	143	111	187	167	177	160	152	162
20	137	175	121	194	168	170	231	169	203	163	158	140	133	120	86	106	136	309	360	298	285	281	301	298	174
21	275	160	145	290	296	284	12	321	285	144	132	265	161	193	176	290	201	174	209	192	83	297	169	160	212
22	153	138	150	165	196	198	285	253	259	271	288	289	291	284	292	282	283	275	283	297	302	281	263	269	262
23	272	280	303	296	281	286	278	260	257	269	286	273	284	299	292	266	295	318	262	319	292	310	286	286	285
24	288	287	283	286	285	286	288	292	279	293	294	295	293	303	311	291	287	262	277	299	339	319	288	251	291
25	286	281	267	267	296	297	288	290	286	295	296	306	303	288	287	285	300	288	283	304	288	164	32	330	292
26	197	190	97	Co	Co	Co	Co	Co	Co	Co	85	196	301	261	278	272	256	287	252	293	308	279	110	143	248
27	162	323	316	340	349	345	310	60	78	198	206	3	48	39	71	315	273	111	101	84	176	161	131	204	49
28	223	185	235	207	222	189	134	205	194	196	198	209	205	204	184	201	221	207	211	224	218	233	188	191	204
29	115	132	300	261	197	140	334	303	307	307	299	311	307	298	274	274	160	198	197	334	219	263	165	179	257
30	194	170	184	180	205	207	162	190	165	167	170	174	151	172	201	163	175	133	160	202	165	175	198	183	177
Prev	183	193	200	226	239	218	249	256	216	197	140	201	183	203	201	233	218	233	214	266	201	226	136	194	212

Montana Limestone Resources
Drummond Air Monitoring Summary
Wind Direction (degrees)
December 2014

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	185	193	164	185	242	181	199	18	186	151	127	146	142	144	164	322	164	179	181	155	148	104	183	311	169
2	237	285	287	277	283	272	299	264	264	265	282	334	315	302	324	320	319	148	129	171	162	211	173	169	266
3	189	117	205	211	169	350	140	168	203	152	160	154	156	146	167	168	203	169	274	286	153	222	203	154	178
4	147	228	158	231	172	208	157	200	130	311	138	141	144	105	56	145	187	214	248	197	203	11	199	166	175
5	186	287	171	303	203	152	248	282	86	100	158	166	146	68	177	211	309	109	194	82	224	169	190	208	181
6	164	174	158	188	182	186	202	172	224	163	125	100	135	321	196	18	285	159	279	357	292	294	298	271	203
7	279	263	264	254	281	313	265	280	296	285	272	112	159	158	158	202	259	324	304	275	200	246	147	188	250
8	191	209	89	160	167	188	171	174	190	97	164	134	148	149	Co	166	Co	112	108	Co	Co	Co	Co	Co	155
9	Co	133	163	Co	Co	Co	Co	Co	192	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	163
10	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	
11	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	120	118	90	107	122	62	33	22	27	24	Co	73
12	25	26	14	157	27	161	298	109	154	28	Co	Co	Co	Co	Co	9	87	73	85	29	47	48	4	162	57
13	129	78	270	158	170	202	232	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	353	293	300	305	241
14	298	315	350	318	32	316	24	331	20	90	355	176	130	156	165	151	169	117	125	42	126	93	121	142	85
15	97	167	173	120	31	177	167	330	31	162	141	126	131	101	172	146	160	158	161	163	165	135	95	39	136
16	106	95	311	171	352	173	306	178	185	167	169	140	150	126	131	157	162	188	169	166	200	195	251	287	171
17	321	172	170	60	161	156	175	265	21	166	113	119	126	95	134	153	168	302	132	139	165	197	167	175	152
18	229	205	147	156	162	286	192	205	209	Au	Au	Ca	Ca	100	249	116	163	239	332	135	209	164	177	160	185
19	174	180	213	21	145	107	175	299	119	139	235	289	141	149	129	306	130	286	286	271	267	267	259	253	212
20	279	263	288	270	289	230	164	229	171	170	250	127	266	27	115	166	275	162	172	118	305	198	341	22	226
21	257	56	100	98	29	341	276	298	293	281	299	287	308	313	297	290	288	280	274	274	258	275	277	270	294
22	266	263	273	272	268	263	269	267	278	280	273	284	275	278	273	275	276	275	276	277	281	287	248	259	272
23	265	277	268	266	248	247	226	168	68	159	5	74	140	55	336	273	286	274	230	247	158	129	172	301	242
24	278	256	1	22	21	35	197	107	181	188	187	7	294	286	295	296	299	302	303	287	322	336	295	287	301
25	301	331	337	326	281	274	303	308	318	211	38	116	72	142	33	84	162	65	335	342	98	134	295	163	350
26	281	293	314	323	319	308	269	69	216	211	54	290	290	280	287	280	285	279	290	296	292	294	254	270	288
27	257	256	257	251	264	259	269	280	286	326	16	11	Co	Co	Co	Co	292	9	89	139	126	125	151	102	273
28	59	7	8	337	285	14	297	285	303	268	300	341	41	100	121	138	119	103	109	110	116	106	106	107	56
29	110	117	120	124	125	122	119	118	118	122	126	124	123	123	123	108	100	99	117	111	112	128	119	119	118
30	133	123	120	84	5	153	97	47	147	93	152	134	97	162	192	154	193	203	358	105	113	3	128	155	124
31	122	98	151	51	111	205	185	160	157	146	120	122	117	146	167	187	178	170	178	184	67	58	24	200	143
Prev	214	215	211	223	240	221	221	240	193	170	156	123	140	123	164	175	206	177	202	165	173	174	201	202	187

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8	14	13	9	12	9	10	19	22	18	21	22	21	23	28	23	23	21	27	20	11	13	19	21	18	28	8
2	24	28	16	18	22	51	20	24	15	14	19	22	23	23	81	9	15	22	8	7	13	29	25	19	23	81	7
3	35	23	61	94	49	21	11	46	27	34	57	36	51	56	22	13	11	7	5	10	12	28	84	14	34	94	5
4	80	43	69	94	89	70	74	66	77	41	75	18	22	15	13	21	20	23	24	25	14	19	14	32	43	94	13
5	43	69	44	65	44	30	13	20	66	24	21	21	25	22	21	24	15	21	19	15	16	22	10	6	28	69	6
6	9	11	13	14	13	19	21	14	37	41	25	18	21	23	21	15	19	18	42	26	22	13	21	16	21	42	9
7	35	11	13	62	64	82	75	20	41	49	26	56	19	21	18	13	17	20	26	19	60	46	70	58	38	82	11
8	32	20	14	14	28	24	101	39	15	42	74	38	40	57	90	42	25	8	9	55	35	41	56	78	41	101	8
9	67	66	72	49	41	28	56	17	47	58	52	55	53	42	59	64	13	62	18	23	25	74	87	47	49	87	13
10	52	50	59	20	76	37	28	8	27	37	30	36	52	60	33	19	13	9	17	14	20	25	19	40	33	76	8
11	59	41	41	36	75	80	84	75	50	77	89	12	28	24	24	12	15	51	27	15	24	63	61	16	45	89	12
12	33	24	37	62	24	12	12	9	20	15	16	14	18	23	15	16	19	13	14	24	24	59	83	85	28	85	9
13	77	80	55	78	57	39	89	83	68	31	23	42	49	21	20	41	21	15	23	42	46	82	27	68	49	89	15
14	50	30	28	63	76	56	55	73	53	28	70	58	52	20	11	10	8	8	10	15	25	65	36	65	40	76	8
15	26	67	84	63	39	32	71	39	95	44	89	81	29	86	13	18	17	25	13	13	15	12	24	22	42	95	12
16	29	23	38	17	22	50	64	30	94	66	23	40	34	62	16	24	21	11	14	24	86	53	44	38	38	94	11
17	53	47	33	25	47	25	92	52	24	29	45	55	36	51	87	50	21	54	76	70	56	86	54	62	51	92	21
18	28	24	62	64	93	47	79	97	84	35	55	22	12	14	20	19	11	6	6	9	5	78	92	93	44	97	5
19	93	77	68	59	32	28	41	54	40	44	33	58	35	50	49	27	20	26	41	65	49	88	65	70	51	93	20
20	40	65	79	43	31	57	35	26	16	28	35	48	70	51	47	84	53	54	38	64	34	79	50	83	50	84	16
21	29	71	29	69	50	11	16	9	10	13	21	20	10	17	25	24	17	19	25	16	15	27	71	52	28	71	9
22	50	20	11	33	71	96	87	59	16	38	44	37	49	45	37	15	16	5	5	19	37	56	46	63	40	96	5
23	52	66	73	38	71	93	9	9	6	13	13	7	8	18	13	18	8	14	21	24	11	16	20	16	27	93	6
24	28	15	13	6	5	8	9	86	25	49	33	45	40	31	53	96	8	51	34	68	70	46	36	66	38	96	5
25	54	58	78	25	29	18	15	31	39	35	50	77	55	81	58	70	87	48	64	92	98	49	77	37	55	98	15
26	73	9	34	11	23	19	17	13	32	21	19	15	16	21	18	19	24	29	16	24	26	27	22	22	23	73	9
27	25	22	21	27	20	22	20	15	12	13	17	19	23	25	22	19	12	11	7	9	6	9	19	21	17	27	6
28	23	91	72	30	77	46	18	67	22	56	24	56	45	51	48	53	90	92	71	34	61	81	59	58	55	92	18
29	58	49	57	70	37	14	15	24	16	14	19	20	20	22	18	23	8	8	16	5	41	59	89	70	32	89	5
30	74	38	29	90	28	30	89	22	58	34	92	34	35	33	52	80	71	21	73	77	56	55	84	74	55	92	21
31	84	60	102	23	86	50	42	95	31	93	30	53	69	61	57	32	30	38	85	38	77	81	66	45	60	102	23
Avg	46	42	46	44	46	39	44	40	38	37	40	37	34	37	35	32	24	26	28	31	35	48	49	47	39	83	11
Max	93	91	102	94	93	96	101	97	95	93	92	81	70	86	90	96	90	92	85	92	98	88	92	93	60	102	23
Min	8	9	11	6	5	8	9	8	6	13	13	7	8	14	11	9	8	5	5	5	5	9	10	6	17	27	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	28	66	85	65	93	39	34	67	79	70	74	68	56	36	88	57	18	14	78	63	85	22	28	46	57	93	14
2	22	24	36	80	16	11	12	23	27	13	10	13	15	18	16	25	23	19	19	34	10	26	67	31	25	80	10
3	43	35	13	25	38	31	16	32	60	29	102	40	18	17	20	15	14	12	21	21	15	23	15	60	30	102	12
4	88	40	74	62	65	90	42	48	22	26	27	15	30	11	21	41	72	40	83	73	18	13	16	20	43	90	11
5	20	24	27	25	28	26	18	22	22	37	40	18	17	19	14	12	11	8	19	19	57	21	13	35	23	57	8
6	32	77	50	78	55	79	80	43	88	29	49	93	61	65	80	81	93	78	22	40	10	6	6	13	55	93	6
7	24	20	13	12	28	20	27	24	21	30	13	21	23	22	14	19	8	6	5	6	7	44	64	67	22	67	5
8	63	31	47	61	58	71	42	81	67	14	31	33	38	39	55	56	29	53	47	75	43	23	33	46	47	81	14
9	31	46	74	28	50	47	64	52	84	92	18	25	9	9	7	7	10	10	10	9	13	40	80	26	35	92	7
10	12	10	6	10	11	30	49	21	13	30	28	19	23	12	16	28	15	22	15	20	21	9	11	10	18	49	6
11	11	9	7	14	13	8	7	9	10	38	16	26	29	31	36	12	6	10	8	7	13	12	12	20	15	38	6
12	25	39	52	18	17	9	37	51	25	25	50	34	36	44	31	71	51	18	30	67	43	72	91	90	43	91	9
13	82	65	59	64	78	54	65	48	65	61	22	32	27	27	31	14	61	70	40	73	12	34	67	45	50	82	12
14	52	73	39	53	30	55	57	68	66	91	77	56	18	20	13	12	14	12	10	10	9	11	9	59	38	91	9
15	21	34	21	51	68	55	33	61	19	34	19	26	13	12	14	20	18	36	48	24	82	95	38	47	37	95	12
16	88	71	79	53	85	37	50	27	44	12	18	27	16	31	13	14	18	17	47	77	33	57	17	36	40	88	12
17	31	9	12	24	46	35	21	12	18	11	20	17	15	14	17	22	20	67	52	55	55	80	65	56	32	80	9
18	52	74	54	17	48	45	65	52	43	54	29	17	32	23	30	50	66	92	76	48	53	67	42	32	48	92	17
19	74	83	48	57	8	18	13	12	32	16	13	20	17	16	21	22	17	53	58	25	47	43	30	63	34	83	8
20	100	92	72	26	47	34	84	26	41	40	15	35	22	39	51	49	53	80	63	55	47	25	5	24	47	100	5
21	49	27	52	93	81	97	94	78	81	86	52	81	40	29	49	58	69	32	62	59	65	85	68	20	63	97	20
22	21	17	12	23	13	12	54	17	24	27	16	15	14	20	11	19	18	22	21	13	11	21	23	27	20	54	11
23	24	23	14	11	20	16	22	21	20	23	19	25	19	10	19	33	33	18	47	44	20	40	19	17	23	47	10
24	18	10	15	12	13	15	12	11	28	16	13	15	15	15	19	10	19	24	21	14	34	36	10	18	17	36	10
25	16	20	21	26	18	13	8	7	12	8	8	12	7	9	11	10	23	16	21	34	68	20	86	56	22	86	7
26	50	20	14	Co	Co	Co	Co	Co	Co	Co	11	79	25	14	20	15	11	15	81	47	25	69	65	73	37	81	11
27	54	78	53	90	71	44	93	59	48	13	8	72	73	41	81	85	23	62	61	39	44	57	51	8	55	93	8
28	23	58	39	31	21	53	72	38	21	25	8	11	12	17	17	7	10	11	10	20	14	19	18	27	24	72	7
29	27	43	68	28	20	84	20	9	9	11	11	9	10	12	25	53	13	13	23	97	19	51	38	15	30	97	9
30	11	18	18	19	19	39	25	13	22	17	14	11	27	14	19	25	10	51	25	56	15	13	12	10	21	56	10
Avg	40	41	39	40	40	40	42	36	38	34	28	32	25	23	29	31	28	33	37	41	33	38	37	37	35	79	10
Max	100	92	85	93	93	97	94	81	88	92	102	93	73	65	88	85	93	92	83	97	85	95	91	90	63	102	20
Min	11	9	6	10	8	8	7	7	9	8	8	9	7	9	7	7	6	6	5	6	7	6	5	8	15	36	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	30	61	21	49	79	35	51	99	28	45	55	28	18	19	22	50	76	45	93	67	57	49	59	66	50	99	18
2	68	33	17	22	21	24	12	20	21	22	30	29	15	13	11	5	10	62	65	52	19	33	36	14	27	68	5
3	21	66	49	52	46	80	86	32	37	30	23	13	16	34	16	37	36	38	79	95	41	77	40	54	46	95	13
4	35	50	80	74	74	67	44	48	47	82	71	17	42	59	90	36	13	18	63	50	65	41	91	16	53	91	13
5	30	37	66	56	74	60	97	89	100	73	31	74	79	73	41	47	46	58	58	90	76	47	34	63	62	100	30
6	36	15	46	34	30	23	41	28	40	55	73	82	76	34	76	76	52	33	58	97	26	21	24	19	46	97	15
7	14	20	21	33	30	35	11	19	16	10	72	93	92	22	22	28	22	43	94	91	61	46	74	25	41	94	10
8	76	32	80	27	53	77	23	60	87	84	60	45	26	62	Co	12	Co	56	53	Co	Co	Co	Co	Co	54	87	12
9	Co	22	37	Co	Co	Co	Co	Co	64	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	41	64	22
10	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co			
11	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	72	27	57	41	46	51	44	48	57	21	Co	46	72	21
12	7	19	20	49	87	62	75	78	67	74	Co	Co	Co	Co	Co	69	69	56	36	65	46	17	58	46	53	87	7
13	56	46	75	11	10	45	93	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	38	7	11	7	36	93	7
14	6	32	40	26	48	21	68	35	45	35	22	77	15	18	15	15	21	51	70	36	26	24	10	13	32	77	6
15	91	29	25	30	68	18	24	80	34	21	29	47	41	66	26	23	27	48	25	12	63	64	70	83	44	91	12
16	89	73	70	74	63	59	67	80	70	33	58	69	44	39	42	15	20	63	10	14	56	24	87	86	54	89	10
17	91	41	63	93	55	64	64	77	67	26	67	38	41	38	33	9	9	92	64	30	30	45	23	43	50	93	9
18	86	39	88	38	38	93	48	101	80	Au	Au	Ca	Ca	59	72	55	11	66	47	68	59	36	13	40	57	101	11
19	67	46	76	88	69	51	24	88	72	80	94	90	89	49	58	86	73	66	57	23	39	60	21	24	62	94	21
20	56	91	61	35	34	85	51	33	23	21	46	55	78	39	88	49	75	89	78	103	37	90	67	76	61	103	21
21	97	48	36	72	54	30	30	29	17	25	12	15	16	17	13	13	11	14	22	22	23	18	21	23	28	97	11
22	22	21	17	18	20	21	20	23	14	13	15	15	10	12	11	9	12	9	19	12	10	11	20	15	15	23	9
23	18	16	19	22	14	7	70	54	70	57	74	62	28	69	58	88	38	23	88	75	31	93	50	19	48	93	7
24	50	65	51	41	52	57	43	70	57	14	22	73	32	17	5	5	13	12	12	8	27	37	88	30	37	88	5
25	29	40	26	35	17	9	11	11	35	64	49	35	15	48	36	31	79	64	65	58	81	64	43	66	42	81	9
26	19	16	23	16	13	5	101	90	94	47	50	64	15	21	15	20	16	23	24	45	44	37	15	14	34	101	5
27	10	14	24	10	11	9	8	11	9	66	29	18	Co	Co	Co	Co	32	17	66	20	29	53	24	61	26	66	8
28	35	47	24	23	19	84	50	34	26	18	84	35	38	14	16	10	8	10	10	10	8	9	8	8	26	84	8
29	8	8	7	7	6	7	6	6	9	7	6	8	9	9	10	13	9	18	9	12	19	9	8	8	9	19	6
30	14	11	25	46	87	33	48	25	26	14	23	33	36	19	19	45	39	46	94	87	78	58	45	26	41	94	11
31	77	86	50	44	48	60	48	18	27	47	32	20	19	22	19	28	24	53	55	76	78	90	38	77	47	90	18
Avg	44	39	43	40	44	44	47	50	46	41	45	45	37	36	34	34	33	44	52	50	43	43	39	38	42	84	12
Max	97	91	88	93	87	93	101	101	100	84	94	93	92	73	90	88	79	92	94	103	81	93	91	86	62	103	30
Min	6	8	7	7	6	5	6	6	9	7	6	8	9	9	5	5	8	9	9	8	8	7	8	7	9	19	5

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.3	6.1	6.4	6.4	6.3	6.3	6.3	6.3	7.1	7.6	8.3	8.8	9.3	9.8	10.4	10.0	9.5	8.9	8.2	7.9	7.6	7.1	6.9	7.1	7.7	10.4	6.1
2	6.8	6.1	6.1	6.5	7.3	6.4	7.6	8.0	8.8	9.1	9.4	10.0	10.7	11.3	9.7	7.0	6.5	5.5	3.5	2.3	1.7	1.3	1.1	0.7	6.4	11.3	0.7
3	-0.2	-0.8	-1.4	-1.5	-2.3	-3.1	-3.5	-3.5	-2.2	-0.2	2.6	5.9	9.0	12.0	14.4	15.2	15.3	14.7	13.6	12.8	11.7	10.8	8.9	6.3	5.6	15.3	-3.5
4	6.3	5.9	5.1	4.2	3.9	4.4	4.4	6.7	7.5	11.4	14.1	16.8	17.8	18.4	19.0	19.3	19.0	18.4	17.6	17.0	16.4	15.8	15.4	14.7	12.5	19.3	3.9
5	14.1	13.8	13.7	13.0	13.0	12.9	12.5	12.6	13.4	15.0	16.5	17.4	18.2	19.0	19.4	19.8	20.1	19.6	18.6	17.7	16.7	15.8	15.2	15.1	16.0	20.1	12.5
6	14.8	14.2	13.6	14.0	14.1	13.9	12.8	13.1	14.1	15.8	16.8	18.8	20.0	21.0	21.4	21.6	21.6	21.0	19.9	19.2	18.8	18.2	17.9	17.6	17.3	21.6	12.8
7	17.1	16.9	16.4	13.6	14.4	13.6	11.1	10.5	12.1	14.2	16.7	19.0	21.0	21.9	21.8	21.7	21.9	21.3	20.3	19.5	18.0	14.9	13.5	12.3	16.8	21.9	10.5
8	11.1	9.3	9.5	8.7	8.3	7.9	6.5	5.5	6.3	8.9	10.8	13.7	16.0	18.2	20.6	21.3	21.0	20.2	19.4	18.3	16.9	15.0	12.9	11.9	13.3	21.3	5.5
9	11.4	10.1	9.2	9.3	9.6	8.1	8.0	7.1	8.0	10.3	12.5	14.6	16.2	17.3	18.1	18.7	18.4	17.3	15.8	14.8	13.2	12.3	10.9	10.1	12.6	18.7	7.1
10	8.9	7.9	6.9	6.1	5.7	5.1	4.7	4.3	4.7	7.2	9.5	12.1	14.6	17.1	18.8	19.6	19.3	18.4	17.3	16.5	14.9	13.9	13.9	13.2	11.7	19.6	4.3
11	11.3	12.4	11.9	11.0	9.7	10.9	8.5	8.7	9.8	11.2	13.3	14.7	15.1	15.4	14.9	11.1	8.9	9.2	8.8	6.2	6.3	6.4	6.4	6.4	10.4	15.4	6.2
12	6.2	4.8	4.7	5.0	5.5	5.5	5.9	6.1	6.4	6.6	7.5	7.7	8.7	8.9	8.7	8.7	8.9	8.3	7.8	7.3	6.7	6.1	5.0	5.2	6.8	8.9	4.7
13	5.7	5.0	4.1	3.1	3.3	3.9	3.4	3.0	3.6	5.0	8.2	10.8	12.1	13.3	14.2	14.9	14.8	14.4	14.0	13.2	12.1	11.6	11.4	11.4	9.0	14.9	3.0
14	11.1	10.8	10.0	10.2	10.2	10.3	10.5	10.3	10.7	12.6	15.2	17.7	22.1	21.6	21.5	20.5	19.6	18.3	16.8	15.6	15.1	13.2	11.4	11.1	14.4	22.1	10.0
15	10.1	10.0	9.3	8.1	7.6	7.2	6.6	6.6	6.0	6.3	7.7	11.7	14.0	14.6	12.2	10.1	7.5	7.8	6.7	6.0	5.0	5.5	5.3	5.7	8.2	14.6	5.0
16	5.5	5.1	5.0	5.6	5.9	5.3	5.1	4.9	5.7	6.8	8.1	9.1	9.7	10.6	10.7	11.0	11.0	10.8	9.9	9.0	6.9	5.3	4.2	3.2	7.3	11.0	3.2
17	2.3	1.6	0.9	1.1	0.4	-0.8	-0.8	-0.9	-0.9	0.5	3.0	5.8	8.3	10.5	12.9	14.3	15.0	13.8	12.2	10.9	9.3	8.0	8.3	7.2	6.0	15.0	-0.9
18	6.4	6.7	5.8	6.3	5.6	4.4	4.8	4.5	4.7	6.8	9.9	13.8	15.5	16.1	16.5	16.4	15.8	14.7	13.9	13.1	13.1	10.7	9.5	8.3	10.1	16.5	4.4
19	7.9	6.8	5.6	4.8	4.2	3.9	3.4	2.5	3.0	5.0	7.3	9.5	12.0	14.4	16.4	17.5	17.7	17.2	15.6	12.5	11.3	9.7	8.5	7.9	9.4	17.7	2.5
20	7.1	6.2	5.2	5.0	4.1	3.5	2.9	2.6	2.8	5.1	8.4	11.5	15.2	18.2	21.2	21.4	21.9	21.5	19.8	18.3	17.4	16.2	13.6	13.4	11.8	21.9	2.6
21	13.5	11.3	12.5	10.1	9.4	10.6	9.9	8.9	7.3	6.9	6.4	5.4	5.4	5.2	5.3	5.9	6.5	6.6	6.8	6.8	6.5	6.4	5.8	5.9	7.7	13.5	5.2
22	5.9	5.4	5.8	4.8	3.6	3.1	2.7	1.0	1.7	2.8	5.2	7.4	9.2	10.7	11.8	13.2	13.1	11.9	11.2	10.8	10.3	9.7	9.5	9.5	7.5	13.2	1.0
23	9.1	8.7	10.3	9.6	11.0	11.1	11.1	10.9	10.4	10.7	11.6	12.5	13.7	14.3	14.3	12.6	12.2	11.9	9.2	9.6	8.7	7.8	8.0	8.7	10.8	14.3	7.8
24	8.8	7.5	6.4	6.1	5.7	5.8	5.8	5.5	5.1	5.2	5.6	6.1	6.7	7.7	8.3	8.4	8.0	7.8	7.5	7.2	6.9	6.6	5.7	5.1	6.6	8.8	5.1
25	4.1	3.8	4.0	4.0	3.8	3.8	3.7	3.7	3.6	3.5	3.6	3.9	4.4	5.1	6.2	6.8	7.1	7.0	7.1	7.0	7.2	6.2	7.1	10.6	5.3	10.6	3.5
26	12.4	12.1	9.4	8.1	6.1	6.2	5.7	5.3	5.0	4.6	4.6	4.6	5.5	6.2	6.4	6.1	4.7	3.9	4.3	4.1	3.8	3.6	3.7	3.6	5.8	12.4	3.6
27	3.4	3.3	3.0	2.7	2.8	2.3	2.6	2.7	3.1	3.6	4.1	4.9	4.2	4.6	5.5	5.6	5.5	4.8	4.2	3.6	3.0	2.5	1.4	1.0	3.5	5.6	1.0
28	0.9	0.2	-1.7	-1.8	-1.6	-2.2	-3.7	-3.2	-3.2	-2.1	-0.3	1.8	4.1	5.8	7.0	7.3	7.4	7.4	7.0	6.7	7.0	5.8	4.2	3.4	2.3	7.4	-3.7
29	4.1	4.1	5.2	5.6	6.0	6.3	6.3	5.9	7.1	6.5	7.3	7.7	8.8	10.0	10.1	9.9	9.6	9.1	8.6	8.3	7.1	5.5	5.2	3.9	7.0	10.1	3.9
30	4.0	3.1	2.6	2.7	2.5	2.6	2.4	2.2	2.0	2.9	4.2	6.0	7.7	9.3	10.1	10.6	10.3	10.1	9.8	9.1	8.3	8.2	7.1	6.4	6.0	10.6	2.0
31	6.3	6.1	5.2	4.7	4.4	4.1	3.4	3.2	2.4	3.4	4.5	7.6	10.4	13.2	14.5	14.3	13.7	14.3	13.3	11.8	8.4	8.3	7.7	5.7	8.0	14.5	2.4
Avg	7.8	7.2	6.8	6.4	6.1	5.9	5.5	5.3	5.7	6.9	8.5	10.2	11.8	13.0	13.6	13.6	13.3	12.8	11.9	11.1	10.2	9.3	8.6	8.1	9.1	14.8	4.3
Max	17.1	16.9	16.4	14.0	14.4	13.9	12.8	13.1	14.1	15.8	16.8	19.0	22.1	21.9	21.8	21.7	21.9	21.5	20.3	19.5	18.8	18.2	17.9	17.6	17.3	22.1	12.8
Min	-0.2	-0.8	-1.7	-1.8	-2.3	-3.1	-3.7	-3.5	-3.2	-2.1	-0.3	1.8	4.1	4.6	5.3	5.6	4.7	3.9	3.5	2.3	1.7	1.3	1.1	0.7	2.3	5.6	-3.7

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.0	4.5	3.9	3.8	2.7	2.8	2.3	2.4	2.2	3.3	4.3	6.2	6.8	7.7	8.0	8.7	7.8	6.6	6.4	6.6	7.1	6.5	6.2	6.0	5.3	8.7	2.2
2	4.4	3.0	2.7	2.7	2.7	2.4	2.1	1.6	1.5	1.6	1.8	2.1	2.2	2.3	2.6	3.3	3.1	2.5	2.1	1.9	1.7	1.7	1.5	2.0	2.3	4.4	1.5
3	1.7	1.8	2.1	2.0	1.8	2.1	1.9	1.7	1.9	2.2	3.8	4.8	5.2	6.0	6.8	7.0	6.3	5.9	5.3	5.1	5.2	5.3	5.5	5.4	4.0	7.0	1.7
4	5.3	4.9	5.6	5.8	5.6	4.5	4.4	5.8	6.6	7.3	7.7	7.8	8.3	9.0	7.8	7.2	7.5	7.5	7.6	7.6	7.3	7.1	6.6	6.8	6.7	9.0	4.4
5	6.7	7.0	7.3	7.2	7.1	7.1	7.0	6.8	6.7	7.0	7.9	8.8	9.3	9.4	9.5	9.4	9.1	8.9	8.9	9.5	8.0	7.4	6.9	6.9	7.9	9.5	6.7
6	6.6	5.9	5.5	5.3	5.5	5.4	5.4	5.4	5.4	6.2	7.1	7.9	9.5	11.2	13.8	15.0	15.5	15.6	15.9	15.6	12.5	10.0	8.8	8.1	9.3	15.9	5.3
7	8.2	7.8	8.1	7.9	7.3	6.9	6.6	6.3	6.4	6.4	6.8	7.1	7.5	7.9	7.9	7.9	7.4	6.8	6.2	5.5	4.8	3.5	2.5	1.4	6.5	8.2	1.4
8	0.5	1.0	0.2	-1.4	-1.2	-1.2	-1.9	-1.9	-2.8	-2.4	-1.2	0.7	3.3	5.2	7.6	8.3	8.3	8.4	7.0	6.4	4.3	3.6	2.3	2.4	2.3	8.4	-2.8
9	1.3	1.2	3.4	6.9	6.8	7.3	7.6	8.6	5.5	7.2	11.2	10.1	7.9	6.4	5.3	4.5	4.5	4.7	4.4	4.3	3.9	2.7	-3.5	-7.4	4.8	11.2	-7.4
10	-9.0	-9.5	-9.9	-10.6	-11.2	-11.3	-11.2	-11.1	-11.0	-10.9	-10.7	-10.2	-9.6	-9.0	-8.5	-8.0	-8.1	-9.1	-9.7	-10.5	-11.4	-12.8	-13.7	-14.8	-10.5	-8.0	-14.8
11	-15.7	-16.6	-17.2	-17.5	-17.7	-18.1	-18.7	-19.4	-19.6	-19.2	-18.2	-17.5	-16.8	-16.0	-15.3	-15.0	-15.0	-15.9	-16.8	-17.0	-17.3	-17.9	-17.9	-18.3	-17.3	-15.0	-19.6
12	-18.9	-18.8	-18.4	-18.8	-20.6	-21.1	-21.8	-22.5	-22.5	-22.2	-20.9	-19.7	-18.4	-17.3	-16.5	-16.0	-16.5	-16.8	-17.6	-18.1	-19.0	-20.1	-20.4	-20.1	-19.3	-16.0	-22.5
13	-20.7	-21.8	-21.9	-22.1	-22.3	-23.2	-23.5	-23.8	-23.8	-23.0	-21.8	-20.6	-19.1	-18.0	-17.1	-16.7	-17.0	-17.1	-17.9	-17.8	-18.3	-19.0	-19.3	-19.7	-20.2	-16.7	-23.8
14	-20.0	-19.2	-18.9	-18.2	-18.1	-17.6	-16.7	-16.2	-15.6	-15.0	-13.6	-11.7	-10.9	-10.5	-10.2	-10.5	-10.7	-10.6	-10.9	-11.6	-12.1	-12.5	-12.8	-13.5	-14.1	-10.2	-20.0
15	-14.2	-14.5	-15.7	-17.5	-17.8	-18.8	-19.5	-20.0	-21.0	-20.4	-19.2	-17.4	-16.4	-15.7	-14.8	-14.4	-14.3	-14.5	-14.8	-15.4	-16.1	-16.9	-18.1	-18.0	-16.9	-14.2	-21.0
16	-17.7	-17.2	-15.9	-15.1	-13.3	-13.6	-12.8	-12.6	-14.7	-14.5	-13.4	-12.2	-11.3	-10.5	-9.8	-9.4	-9.1	-9.1	-9.5	-10.2	-12.3	-12.7	-13.3	-12.8	-12.6	-9.1	-17.7
17	-13.8	-15.0	-14.5	-15.6	-16.7	-16.9	-17.8	-18.1	-18.2	-17.4	-16.5	-14.9	-13.2	-12.1	-11.3	-10.5	-10.3	-10.4	-10.8	-11.2	-12.1	-12.5	-13.0	-13.9	-14.0	-10.3	-18.2
18	-14.0	-14.1	-14.2	-14.7	-13.4	-14.2	-14.3	-14.5	-13.8	-13.0	-13.1	-11.7	-10.2	-9.2	-8.4	-7.4	-8.0	-7.6	-7.6	-7.3	-7.8	-6.7	-7.1	-7.3	-10.8	-6.7	-14.7
19	-7.1	-7.8	-8.4	-8.8	-10.2	-9.9	-9.8	-11.2	-11.6	-11.3	-10.3	-9.1	-7.7	-6.1	-5.2	-4.8	-4.6	-4.7	-5.1	-5.9	-6.0	-6.5	-7.8	-7.5	-7.8	-4.6	-11.6
20	-7.3	-7.6	-8.3	-8.4	-8.0	-8.3	-8.1	-9.1	-7.8	-8.1	-7.5	-6.7	-5.3	-4.1	-3.6	-3.3	-2.8	0.0	0.4	0.5	1.2	1.1	1.9	1.5	-4.5	1.9	-9.1
21	1.9	-1.4	-0.4	0.1	0.0	0.0	0.0	0.5	0.7	0.4	-0.8	0.7	1.2	1.7	2.5	3.3	4.1	2.6	3.2	3.1	2.8	3.4	3.9	4.5	1.6	4.5	-1.4
22	4.3	4.5	4.3	4.9	4.7	4.7	4.4	4.5	4.2	4.9	4.5	3.7	3.6	3.2	3.0	2.5	1.8	1.1	0.7	1.3	1.3	0.1	-0.2	0.3	3.0	4.9	-0.2
23	0.5	0.2	0.6	0.6	0.4	0.2	0.3	0.0	-0.1	0.5	1.3	1.5	1.8	2.0	2.3	2.3	2.2	1.7	1.3	-0.3	-0.6	-0.3	0.3	0.5	0.8	2.3	-0.6
24	0.2	-0.5	-0.4	-0.1	0.0	0.0	0.0	-0.2	-0.2	0.1	0.5	1.1	1.8	2.0	1.8	1.8	1.3	0.5	-1.1	-0.9	-0.5	0.0	0.7	-0.1	0.3	2.0	-1.1
25	-0.1	0.3	0.1	0.5	1.1	1.4	1.3	1.5	2.0	2.0	1.7	1.3	0.8	0.8	0.8	0.4	0.1	0.0	-0.5	-0.7	-0.9	-1.1	-1.2	-1.2	0.4	2.0	-1.2
26	-1.3	-1.4	-1.4	-1.2	-1.3	-1.3	-1.4	-1.4	-1.3	-1.0	-0.8	-0.5	2.1	4.1	4.3	6.5	6.9	5.7	5.0	4.5	4.7	3.9	2.6	1.4	1.6	6.9	-1.4
27	0.2	1.1	2.6	3.1	4.5	4.7	6.2	6.1	6.5	7.5	8.1	8.4	8.2	8.5	9.3	10.0	9.3	7.4	7.1	7.3	7.3	7.3	7.0	7.6	6.5	10.0	0.2
28	7.5	7.4	8.2	7.1	7.4	6.8	6.5	6.0	5.4	6.0	6.4	6.9	7.5	7.7	7.8	7.8	6.9	6.1	6.0	5.9	6.1	6.2	5.4	4.9	6.7	8.2	4.9
29	4.3	4.4	5.2	6.0	5.9	4.9	3.6	1.0	1.3	0.5	-0.3	-0.7	-0.9	-1.1	-1.0	-0.6	-3.9	-7.8	-11.0	-10.5	-12.5	-12.3	-12.7	-14.3	-2.2	6.0	-14.3
30	-14.6	-14.8	-14.9	-14.8	-14.6	-14.7	-14.7	-15.0	-14.9	-14.7	-14.3	-13.8	-13.1	-12.3	-10.8	-11.0	-11.7	-11.7	-12.4	-12.9	-14.7	-14.9	-14.7	-15.6	-13.8	-10.8	-15.6
Avg	-3.9	-4.2	-4.0	-4.0	-4.1	-4.3	-4.4	-4.6	-4.8	-4.3	-3.6	-2.9	-2.2	-1.6	-1.0	-0.7	-1.0	-1.4	-1.9	-2.2	-2.8	-3.2	-3.8	-4.2	-3.1	0.3	-7.0
Max	8.2	7.8	8.2	7.9	7.4	7.3	7.6	8.6	6.7	7.5	11.2	10.1	9.5	11.2	13.8	15.0	15.5	15.6	15.9	15.6	12.5	10.0	8.8	8.1	9.3	15.9	6.7
Min	-20.7	-21.8	-21.9	-22.1	-22.3	-23.2	-23.5	-23.8	-23.8	-23.0	-21.8	-20.6	-19.1	-18.0	-17.1	-16.7	-17.0	-17.1	-17.9	-18.1	-19.0	-20.1	-20.4	-20.1	-20.2	-16.7	-23.8

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 19 Meters (degrees Celsius)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-16.8	-16.4	-17.7	-18.1	-18.2	-18.5	-18.6	-19.2	-20.2	-19.2	-17.4	-16.3	-15.4	-14.5	-13.8	-12.3	-10.9	-11.4	-11.2	-10.7	-10.4	-9.8	-9.7	-6.3	-14.7	-6.3	-20.2
2	-6.6	-4.6	-4.1	-3.9	-4.2	-4.3	-4.9	-5.1	-5.2	-4.5	-4.0	-3.7	-2.6	-0.9	-0.4	-0.5	-0.6	-3.2	-3.9	-5.1	-6.9	-7.4	-8.0	-9.1	-4.3	-0.4	-9.1
3	-9.2	-9.7	-10.3	-10.4	-11.6	-11.2	-11.1	-11.5	-11.6	-12.0	-11.2	-9.9	-8.8	-7.6	-7.4	-6.7	-6.3	-6.3	-6.1	-5.8	-6.4	-6.2	-5.7	-5.8	-8.7	-5.7	-12.0
4	-5.7	-5.4	-5.3	-5.6	-5.8	-5.5	-5.2	-5.0	-4.9	-4.6	-4.1	-3.6	-3.1	-2.1	-1.9	-1.9	-2.1	-1.8	-0.9	-0.8	-1.1	-1.0	-0.6	-1.5	-3.3	-0.6	-5.8
5	-1.5	-0.5	-0.8	-1.2	-1.2	-1.6	-1.5	-1.5	-1.5	-1.7	-1.4	-0.6	-0.3	0.6	0.5	1.4	1.9	1.3	1.3	0.5	0.4	-0.3	-1.1	-0.6	-0.4	1.9	-1.7
6	-2.3	-2.5	-2.6	-2.7	-3.0	-3.5	-3.9	-4.2	-4.5	-3.9	-3.6	-3.2	-2.8	-0.7	1.7	0.6	2.6	0.7	2.5	1.1	2.6	1.7	1.9	3.3	-1.0	3.3	-4.5
7	3.4	3.4	3.5	2.9	3.4	2.9	3.3	3.3	3.0	3.1	3.6	3.9	3.9	3.4	3.8	3.9	4.1	4.0	2.6	1.3	-0.9	0.1	-0.9	-1.6	2.6	4.1	-1.6
8	-0.9	-1.1	-1.9	-2.5	-2.7	-3.6	-4.0	-4.1	-3.9	-3.4	-3.4	-2.5	-2.2	-1.1	-0.6	-0.3	0.0	0.3	-0.1	-0.6	-1.0	-1.8	-1.8	-1.8	-1.9	0.3	-4.1
9	-2.8	-2.8	-3.3	-3.2	-3.8	-3.7	-3.8	-4.5	-4.1	-3.7	-3.0	-0.4	0.4	0.5	0.0	0.4	0.5	1.1	1.5	1.4	1.5	4.7	5.0	4.6	-0.7	5.0	-4.5
10	2.4	2.1	1.6	2.9	3.8	3.8	3.3	3.5	3.4	4.1	3.8	4.5	5.4	5.8	6.9	7.5	8.1	8.0	6.9	5.8	6.1	6.1	7.3	6.9	5.0	8.1	1.6
11	7.0	7.4	6.6	6.3	6.4	4.5	4.6	4.3	4.2	3.1	3.8	4.7	5.1	4.5	6.2	5.6	6.2	7.1	7.2	7.0	5.9	5.6	5.9	6.8	5.7	7.4	3.1
12	7.4	8.0	7.0	6.4	5.2	4.4	4.6	4.3	3.8	3.9	4.1	6.7	7.6	7.1	8.3	6.4	7.2	7.1	6.1	5.7	5.3	4.4	4.3	3.5	5.8	8.3	3.5
13	2.7	2.7	2.9	4.3	3.7	2.4	1.0	0.8	0.6	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.3	0.3	0.0	-0.2	-0.3	-0.5	-0.6	-0.5	1.0	4.3	-0.6
14	-0.5	-0.5	-0.8	-0.7	-1.1	-0.8	-1.1	-1.3	-1.5	-1.4	-1.3	-1.2	-1.5	-1.5	-1.4	-1.3	-1.2	-1.5	-2.5	-2.4	-2.4	-2.9	-3.3	-3.8	-1.6	-0.5	-3.8
15	-4.2	-5.2	-5.9	-6.7	-7.5	-7.8	-8.6	-8.9	-9.1	-9.6	-9.3	-8.8	-8.0	-7.0	-6.4	-6.2	-6.7	-7.4	-8.2	-8.7	-9.2	-9.7	-9.9	-11.2	-7.9	-4.2	-11.2
16	-11.5	-11.7	-11.3	-12.0	-11.8	-11.8	-10.9	-11.2	-11.4	-10.8	-10.1	-9.2	-8.2	-7.6	-7.0	-6.6	-6.5	-6.4	-6.7	-6.7	-6.6	-6.3	-6.0	-6.0	-8.9	-6.0	-12.0
17	-6.1	-6.2	-6.2	-5.8	-5.9	-5.8	-5.5	-5.1	-5.1	-5.3	-4.7	-4.2	-3.1	-2.3	-1.7	-1.8	-2.6	-2.6	-3.1	-4.4	-5.3	-4.7	-6.2	-5.8	-4.6	-1.7	-6.2
18	-5.7	-5.1	-5.0	-5.7	-6.1	-5.9	-6.4	-6.5	-6.8	Au	Au	Ca	Ca	-3.4	-2.8	-2.7	-2.9	-2.5	-2.0	-1.9	-2.5	-3.1	-3.2	-2.7	-4.1	-1.9	-6.8
19	-2.8	-4.2	-3.4	-3.6	-3.9	-3.9	-4.0	-3.9	-4.4	-4.5	-4.2	-3.2	-2.4	-2.5	-2.1	-0.8	-0.1	0.2	0.7	1.0	1.2	0.9	0.9	0.3	-2.0	1.2	-4.5
20	1.0	-0.2	-0.1	0.0	-1.1	-3.4	-6.0	-4.5	-4.7	-5.0	-4.7	-4.5	-3.3	-2.8	-1.9	-2.2	-2.1	-2.6	-2.6	-2.7	-0.7	-0.8	-0.4	0.5	-2.3	1.0	-6.0
21	1.5	1.4	1.8	1.4	2.1	2.3	1.2	1.5	3.3	3.5	3.7	3.7	3.8	3.4	2.3	2.0	2.6	2.7	2.6	2.6	2.6	2.6	2.6	2.1	2.5	3.8	1.2
22	1.2	0.8	1.2	1.4	1.4	0.7	0.5	0.9	0.7	1.0	1.5	1.5	1.8	0.6	1.1	1.6	1.1	0.4	0.2	0.3	0.3	0.0	-0.3	-0.7	0.8	1.8	-0.7
23	-1.2	-1.3	-0.9	-0.6	-0.7	-0.6	-2.0	-2.8	-3.2	-3.1	-2.7	-2.2	-2.0	-1.5	-0.6	-0.3	0.2	0.7	0.0	-0.2	-1.2	-1.2	-0.9	0.9	-1.1	0.9	-3.2
24	0.8	0.7	0.9	1.5	2.2	3.2	4.1	3.6	3.9	5.0	5.3	5.0	4.4	3.5	2.0	1.3	1.4	1.3	1.0	0.6	0.0	-0.6	-0.9	-1.3	2.0	5.3	-1.3
25	-1.4	-1.7	-1.9	-2.7	-3.3	-3.4	-3.6	-3.9	-3.9	-4.6	-4.1	-3.7	-4.1	-3.5	-3.0	-3.0	-3.2	-3.6	-3.7	-3.9	-4.5	-4.7	-4.2	-4.9	-3.5	-1.4	-4.9
26	-3.8	-3.9	-4.0	-4.1	-4.2	-3.9	-4.4	-4.6	-4.6	-4.8	-4.6	-3.6	-3.3	-2.9	-3.3	-4.0	-4.4	-4.9	-5.7	-5.5	-5.9	-5.9	-5.4	-5.2	-4.5	-2.9	-5.9
27	-5.0	-5.1	-5.2	-5.5	-5.4	-5.1	-4.7	-5.0	-5.3	-5.1	-4.5	-3.8	-3.0	-2.8	-2.8	-2.9	-2.9	-2.8	-3.4	-4.2	-4.0	-3.2	-2.7	-2.7	-4.0	-2.7	-5.5
28	-2.9	-2.7	-2.8	-2.7	-2.5	-3.4	-3.0	-2.6	-2.7	-2.7	-3.0	-3.4	-4.1	-4.2	-5.8	-6.9	-7.5	-8.7	-9.7	-10.4	-11.0	-11.7	-12.1	-12.3	-5.8	-2.5	-12.3
29	-12.6	-12.9	-13.5	-13.8	-14.2	-14.8	-15.1	-15.7	-16.2	-16.3	-16.4	-16.3	-16.0	-15.9	-16.2	-16.5	-16.7	-17.4	-18.2	-18.7	-19.0	-19.8	-20.3	-20.7	-16.4	-12.6	-20.7
30	-21.3	-21.8	-22.0	-22.2	-22.0	-23.1	-24.4	-25.0	-25.4	-26.1	-25.6	-24.5	-23.3	-22.7	-22.4	-22.3	-22.6	-22.1	-22.2	-22.7	-23.3	-23.0	-22.5	-22.1	-23.1	-21.3	-26.1
31	-21.7	-21.3	-21.1	-21.2	-21.3	-21.1	-21.2	-21.1	-21.4	-21.0	-20.2	-19.6	-18.7	-18.1	-17.7	-17.6	-17.3	-17.3	-17.5	-17.9	-18.1	-18.7	-19.0	-19.7	-19.6	-17.3	-21.7
Avg	-3.8	-3.9	-4.0	-4.1	-4.3	-4.6	-4.9	-5.0	-5.1	-5.0	-4.6	-3.9	-3.4	-3.1	-2.8	-2.8	-2.6	-2.8	-3.1	-3.4	-3.7	-3.8	-3.8	-3.8	-3.8	-1.0	-6.7
Max	7.4	8.0	7.0	6.4	6.4	4.5	4.6	4.3	4.2	5.0	5.3	6.7	7.6	7.1	8.3	7.5	8.1	8.0	7.2	7.0	6.1	6.1	7.3	6.9	5.8	8.3	3.5
Min	-21.7	-21.8	-22.0	-22.2	-22.0	-23.1	-24.4	-25.0	-25.4	-26.1	-25.6	-24.5	-23.3	-22.7	-22.4	-22.3	-22.6	-22.1	-22.2	-22.7	-23.3	-23.0	-22.5	-22.1	-23.1	-21.3	-26.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.2	6.2	6.4	6.4	6.2	6.3	6.4	6.4	7.4	8.0	8.8	9.4	10.2	10.7	11.5	10.5	9.9	9.1	8.3	7.9	7.5	7.0	6.7	6.7	7.9	11.5	6.2
2	5.7	5.7	5.7	6.2	7.1	5.1	7.6	8.1	9.1	9.7	10.3	10.9	12.0	12.6	11.1	7.8	7.4	5.9	3.8	2.5	1.7	1.0	0.7	0.2	6.6	12.6	0.2
3	-0.4	-1.2	-1.6	-1.6	-2.9	-3.4	-3.9	-3.4	-1.5	0.5	3.4	6.9	10.1	12.9	15.6	16.2	15.9	14.4	13.0	11.6	11.0	10.1	7.5	5.4	5.6	16.2	-3.9
4	5.5	5.2	4.3	3.2	3.0	3.5	2.7	4.1	6.7	11.4	14.6	17.5	18.7	19.3	20.1	20.1	19.5	18.6	17.6	16.9	16.3	15.6	15.1	14.0	12.2	20.1	2.7
5	13.7	13.5	13.2	12.4	11.9	11.5	11.0	12.5	13.7	15.5	17.1	18.2	19.1	20.1	20.0	20.5	20.7	19.6	18.5	17.6	16.5	15.8	14.7	13.9	15.9	20.7	11.0
6	13.3	13.0	12.7	13.2	12.7	12.6	12.2	12.8	14.3	16.5	17.7	19.9	20.8	21.9	22.4	22.5	22.0	21.0	19.7	19.0	18.7	17.9	17.5	17.4	17.2	22.5	12.2
7	16.6	16.3	15.9	12.9	13.6	12.4	10.3	10.5	12.5	14.9	17.6	20.1	22.3	23.0	22.7	22.4	22.2	21.3	20.2	19.1	17.1	14.3	13.2	11.9	16.8	23.0	10.3
8	10.4	8.6	8.6	8.3	7.8	7.1	5.5	4.9	6.9	9.6	11.3	14.5	17.0	19.1	21.6	22.0	21.3	19.8	18.6	17.3	15.8	14.3	12.2	11.5	13.1	22.0	4.9
9	10.7	9.6	8.7	8.7	8.8	7.6	7.7	6.9	8.4	10.9	13.3	15.3	17.1	18.3	19.0	19.4	18.7	17.1	14.7	13.4	11.9	11.7	10.4	9.6	12.4	19.4	6.9
10	8.7	7.4	6.4	5.8	4.9	4.3	4.5	3.8	5.3	7.9	10.4	13.1	15.7	18.0	19.8	20.5	19.8	18.3	17.0	15.1	14.1	13.4	13.1	11.9	11.6	20.5	3.8
11	9.8	10.6	10.3	9.5	7.6	9.0	6.7	6.9	9.1	10.8	13.7	15.4	15.8	15.9	15.4	11.2	9.1	9.0	8.4	6.1	6.3	6.4	6.3	6.2	9.8	15.9	6.1
12	6.2	4.8	4.7	4.9	5.5	5.5	5.9	6.2	6.5	6.9	7.8	8.3	9.3	9.4	9.3	9.1	9.2	8.3	7.7	7.3	6.4	5.7	4.5	4.9	6.8	9.4	4.5
13	5.0	4.2	3.3	2.4	2.9	3.4	2.7	2.9	3.9	5.6	9.0	11.5	12.7	14.1	15.0	15.6	14.7	13.5	13.1	12.5	11.5	11.4	11.2	10.7	8.9	15.6	2.4
14	10.5	10.2	9.3	9.5	9.7	9.9	9.7	9.6	10.6	13.2	15.7	18.0	22.9	22.5	22.2	20.9	19.6	17.8	16.2	14.7	14.4	12.5	10.3	10.4	14.2	22.9	9.3
15	9.3	9.2	8.3	7.3	6.9	6.5	6.2	5.8	5.4	6.6	8.1	11.8	14.1	14.8	12.8	10.3	7.7	7.8	6.7	5.9	4.8	5.1	4.9	4.9	8.0	14.8	4.8
16	5.2	4.8	4.4	4.9	5.4	4.9	4.7	4.6	6.0	7.5	8.9	10.2	10.4	11.4	11.2	11.3	11.2	10.5	9.0	8.1	6.1	4.6	3.9	2.8	7.2	11.4	2.8
17	1.9	1.4	0.7	0.5	0.0	-1.2	-1.0	-1.1	-0.5	1.2	3.7	6.6	9.1	11.3	13.5	14.9	15.2	13.3	11.6	10.4	8.9	7.6	7.6	6.3	5.9	15.2	-1.2
18	5.8	6.0	5.0	5.1	4.6	3.9	4.1	3.6	4.6	7.4	10.5	14.6	17.1	17.3	17.5	17.0	16.1	14.1	12.9	12.3	12.2	10.2	8.6	7.3	9.9	17.5	3.6
19	6.6	6.0	4.7	4.2	3.1	3.2	2.3	1.8	3.3	5.6	8.0	10.4	12.9	15.3	17.0	18.1	17.8	16.3	15.1	11.9	10.4	9.3	8.1	7.5	9.1	18.1	1.8
20	7.0	5.7	4.7	4.5	3.3	2.9	2.0	1.6	3.0	5.7	9.1	12.3	15.9	18.9	21.7	21.3	21.4	21.0	18.8	17.6	16.2	14.9	12.4	12.2	11.4	21.7	1.6
21	12.5	10.0	10.5	8.8	8.5	10.4	9.8	8.9	7.4	7.0	6.5	5.5	5.5	5.3	5.4	6.1	6.6	6.6	6.8	6.6	6.4	6.0	5.5	5.5	7.4	12.5	5.3
22	5.3	5.0	4.8	4.0	3.0	2.3	1.4	0.1	2.1	3.2	5.7	8.1	9.9	11.4	12.5	13.8	13.3	11.5	10.4	9.6	9.3	8.7	8.7	9.0	7.2	13.8	0.1
23	8.3	8.3	9.7	8.9	10.5	10.6	10.9	10.8	10.2	10.7	11.7	12.7	13.9	14.4	14.3	12.6	12.1	11.9	9.2	9.6	8.6	7.8	7.6	8.0	10.6	14.4	7.6
24	8.3	7.5	6.4	6.1	5.6	5.8	5.7	5.5	5.3	5.5	6.1	6.6	7.2	8.3	8.6	8.7	8.2	7.6	7.3	7.0	6.7	6.3	5.6	5.0	6.7	8.7	5.0
25	4.2	4.0	4.1	4.2	4.0	4.0	4.0	3.9	3.9	3.8	3.9	4.3	4.9	5.5	6.7	7.1	7.3	6.2	6.2	6.3	6.3	5.3	5.8	9.5	5.2	9.5	3.8
26	11.6	11.0	9.2	7.9	6.1	6.2	5.3	4.9	4.9	4.8	5.0	5.2	5.9	6.8	7.2	6.5	4.8	3.9	4.3	4.1	3.8	3.4	3.7	3.6	5.8	11.6	3.4
27	3.3	3.2	3.1	2.6	2.8	1.9	2.1	2.5	3.2	4.0	4.6	5.5	4.7	5.2	5.9	5.9	5.6	4.7	4.0	3.2	2.4	1.7	0.9	0.5	3.5	5.9	0.5
28	0.0	-0.3	-2.4	-2.4	-2.5	-3.1	-4.1	-3.4	-2.8	-1.7	0.4	2.5	4.8	6.4	7.4	7.6	7.4	7.2	6.4	6.5	6.7	5.2	3.8	3.1	2.2	7.6	-4.1
29	3.6	3.8	4.3	5.0	5.3	5.8	5.6	5.4	6.9	6.6	7.6	8.0	9.1	10.5	10.5	10.1	9.5	8.4	7.3	6.7	6.3	4.9	4.3	3.6	6.6	10.5	3.6
30	3.7	2.9	2.4	2.6	2.3	2.3	2.1	1.7	2.0	3.2	4.5	6.6	8.4	10.0	10.6	10.8	10.2	9.7	9.6	8.7	7.8	7.4	6.6	5.9	5.9	10.8	1.7
31	5.4	5.3	4.4	4.1	3.5	3.4	2.9	2.1	2.3	3.1	5.0	8.2	11.0	13.7	14.7	14.5	13.1	13.8	12.1	10.8	7.5	7.8	7.1	4.9	7.5	14.7	2.1
Avg	7.2	6.7	6.2	5.8	5.5	5.3	4.9	4.9	5.8	7.3	9.0	10.9	12.5	13.7	14.3	14.0	13.5	12.5	11.4	10.5	9.7	8.8	8.0	7.6	9.0	15.2	3.8
Max	16.6	16.3	15.9	13.2	13.6	12.6	12.2	12.8	14.3	16.5	17.7	20.1	22.9	23.0	22.7	22.5	22.2	21.3	20.2	19.1	18.7	17.9	17.5	17.4	17.2	23.0	12.2
Min	-0.4	-1.2	-2.4	-2.4	-2.9	-3.4	-4.1	-3.4	-2.8	-1.7	0.4	2.5	4.7	5.2	5.4	5.9	4.8	3.9	3.8	2.5	1.7	1.0	0.7	0.2	2.2	5.9	-4.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.1	4.2	3.6	3.3	2.2	2.1	1.8	2.0	2.0	3.7	4.7	6.5	7.3	8.1	8.1	8.7	7.7	6.4	6.3	6.2	6.7	6.3	5.9	5.7	5.2	8.7	1.8
2	4.4	3.1	2.8	2.8	2.8	2.5	2.1	1.8	1.7	1.8	2.1	2.3	2.4	2.5	2.8	3.5	3.2	2.5	2.0	1.5	1.4	1.6	1.4	2.0	2.4	4.4	1.4
3	1.7	1.8	2.2	2.0	1.7	2.0	1.8	1.6	1.8	2.6	4.1	5.4	6.1	6.9	7.5	7.3	6.4	5.8	5.4	5.0	5.1	5.2	5.3	4.9	4.2	7.5	1.6
4	4.8	4.5	5.2	5.3	5.2	4.0	4.1	5.4	6.6	7.4	8.0	8.2	8.7	9.3	7.9	7.2	7.3	6.9	7.3	7.2	6.9	6.8	6.6	6.8	6.6	9.3	4.0
5	6.6	6.9	7.3	7.2	7.0	6.8	6.8	6.7	6.5	7.0	8.3	9.2	9.6	9.5	9.5	9.5	9.1	8.8	8.8	9.2	7.8	7.1	6.7	6.7	7.9	9.6	6.5
6	6.2	5.8	5.1	5.0	4.9	5.1	4.9	4.5	4.4	5.0	7.1	8.2	10.1	11.6	14.1	15.1	15.0	14.9	15.3	15.2	12.1	9.7	8.6	7.9	9.0	15.3	4.4
7	8.0	7.8	7.9	7.7	7.2	6.8	6.4	6.3	6.6	6.6	7.1	7.4	7.8	8.2	8.2	8.0	7.4	6.3	5.7	5.1	4.4	3.2	2.1	1.1	6.4	8.2	1.1
8	0.0	0.1	-0.5	-1.8	-1.5	-1.6	-2.2	-2.8	-3.1	-2.2	-0.8	1.3	3.9	5.9	8.3	8.7	7.9	7.7	6.3	6.0	3.7	2.6	1.6	1.6	2.0	8.7	-3.1
9	0.7	0.6	0.8	2.4	2.4	5.5	6.4	5.5	2.4	4.1	10.2	10.2	7.8	6.3	5.2	4.4	4.5	4.4	4.4	4.2	3.9	2.7	-3.3	-7.2	3.7	10.2	-7.2
10	-8.9	-9.4	-9.7	-10.5	-11.0	-11.2	-11.2	-11.1	-10.8	-10.6	-10.3	-9.9	-9.3	-8.7	-8.2	-7.8	-8.0	-9.0	-9.6	-10.4	-11.3	-12.6	-13.8	-15.3	-10.4	-7.8	-15.3
11	-16.2	-17.1	-17.7	-17.9	-18.4	-18.8	-19.2	-19.8	-19.7	-18.9	-17.8	-17.0	-16.2	-15.5	-14.8	-14.9	-15.4	-16.3	-17.2	-17.6	-17.9	-18.4	-18.5	-18.8	-17.5	-14.8	-19.8
12	-19.4	-19.2	-18.6	-19.5	-21.1	-22.1	-22.1	-22.8	-22.4	-21.8	-20.5	-19.3	-17.9	-16.9	-16.1	-15.8	-16.7	-17.5	-17.9	-18.4	-19.6	-20.6	-20.6	-20.7	-19.5	-15.8	-22.8
13	-21.3	-22.4	-22.3	-22.6	-23.0	-23.7	-24.1	-24.0	-23.7	-22.7	-21.3	-20.1	-18.5	-17.6	-16.7	-16.5	-17.4	-17.3	-18.1	-18.1	-19.2	-19.4	-19.7	-20.3	-20.4	-16.5	-24.1
14	-20.1	-19.1	-18.6	-18.1	-17.7	-17.3	-16.5	-16.0	-15.4	-14.8	-13.5	-11.4	-10.6	-10.2	-9.8	-10.2	-10.5	-10.7	-11.2	-11.9	-12.5	-12.8	-13.2	-13.9	-14.0	-9.8	-20.1
15	-14.7	-14.7	-16.6	-18.0	-18.3	-19.2	-19.9	-20.5	-21.0	-20.1	-18.9	-16.9	-15.8	-15.1	-14.3	-14.3	-14.7	-14.8	-14.9	-15.9	-16.5	-17.9	-18.7	-18.7	-17.1	-14.3	-21.0
16	-18.3	-18.2	-17.7	-15.6	-13.8	-13.7	-13.1	-13.1	-15.0	-14.1	-13.0	-11.8	-10.8	-10.0	-9.3	-9.3	-9.7	-9.8	-10.0	-11.0	-12.9	-13.3	-14.1	-14.0	-13.0	-9.3	-18.3
17	-15.3	-15.6	-15.6	-17.3	-17.2	-18.0	-18.6	-18.4	-18.1	-17.1	-16.1	-14.4	-12.5	-11.5	-10.9	-10.3	-10.8	-10.9	-11.3	-11.7	-12.8	-13.2	-13.5	-14.4	-14.4	-10.3	-18.6
18	-14.8	-14.9	-15.0	-15.1	-14.0	-14.7	-15.0	-15.0	-14.0	-13.1	-12.7	-11.2	-9.8	-8.6	-8.1	-7.2	-8.1	-7.9	-7.7	-7.5	-7.7	-7.0	-7.4	-7.7	-11.0	-7.0	-15.1
19	-7.7	-8.4	-9.0	-9.4	-11.0	-10.4	-10.7	-12.0	-11.8	-11.3	-9.9	-8.7	-7.2	-5.6	-4.8	-4.6	-5.1	-5.2	-5.3	-6.6	-6.4	-7.4	-8.3	-8.0	-8.1	-4.6	-12.0
20	-8.0	-8.7	-8.8	-9.2	-8.7	-8.6	-8.9	-9.5	-8.1	-8.1	-7.3	-6.4	-4.9	-3.7	-3.3	-3.1	-2.9	-0.6	-0.7	-0.7	0.1	0.2	1.2	1.2	-4.9	1.2	-9.5
21	0.8	-2.7	-2.5	-1.7	-1.7	-1.5	-1.8	-1.8	-1.1	-0.1	-0.6	0.0	0.9	1.8	2.4	2.8	3.4	2.2	2.5	2.2	1.9	3.0	3.0	3.8	0.6	3.8	-2.7
22	3.6	3.9	3.4	4.2	4.0	3.5	4.0	4.2	4.2	4.9	4.5	3.7	3.6	3.3	3.0	2.6	1.8	1.2	0.8	1.2	1.1	0.1	-0.1	0.3	2.8	4.9	-0.1
23	0.6	0.3	0.5	0.6	0.5	0.2	0.3	0.0	0.0	0.6	1.5	1.7	2.1	2.1	2.4	2.4	2.1	1.5	1.2	-0.2	-0.6	-0.5	0.3	0.4	0.8	2.4	-0.6
24	0.2	-0.5	-0.5	-0.2	0.0	0.0	-0.1	-0.3	-0.2	0.1	0.5	1.3	2.0	2.0	1.7	1.7	1.2	0.5	-1.0	-1.1	-0.9	-0.5	0.0	-0.2	0.2	2.0	-1.1
25	-0.1	0.3	0.1	0.4	0.9	1.4	1.2	1.5	2.0	2.0	1.7	1.2	0.8	0.9	0.9	0.5	0.2	0.0	-0.4	-0.6	-0.9	-1.1	-1.2	-1.2	0.4	2.0	-1.2
26	-1.3	-1.4	-1.4	-1.2	-1.2	-1.3	-1.3	-1.4	-1.3	-1.0	-0.7	-0.4	1.7	3.3	3.7	5.4	4.9	5.0	3.8	3.3	4.0	2.3	1.0	0.6	1.0	5.4	-1.4
27	-0.2	0.4	1.4	0.7	3.3	2.4	4.9	4.5	5.9	6.5	7.2	7.4	7.6	8.2	8.9	9.3	8.2	6.4	6.4	6.8	6.9	6.8	6.3	6.7	5.5	9.3	-0.2
28	6.8	6.4	6.6	6.5	6.4	5.5	5.9	5.3	4.8	5.4	6.2	6.7	7.4	7.5	7.6	7.4	6.7	5.7	5.8	5.7	5.9	6.0	4.7	4.5	6.1	7.6	4.5
29	3.8	3.8	4.7	5.5	5.3	4.6	3.1	1.0	1.2	0.5	-0.4	-0.8	-1.0	-1.1	-0.9	-0.8	-4.0	-7.5	-10.7	-10.5	-12.4	-12.3	-12.7	-14.1	-2.3	5.5	-14.1
30	-14.5	-14.7	-14.6	-14.5	-14.4	-14.9	-14.8	-14.7	-14.8	-14.4	-13.8	-13.2	-12.7	-11.9	-10.5	-11.1	-12.4	-12.2	-12.7	-13.6	-15.5	-15.6	-15.8	-16.2	-13.9	-10.5	-16.2
Avg	-4.3	-4.6	-4.6	-4.6	-4.6	-4.8	-4.9	-5.1	-5.0	-4.4	-3.5	-2.7	-1.9	-1.3	-0.9	-0.7	-1.3	-1.8	-2.2	-2.6	-3.2	-3.6	-4.2	-4.5	-3.4	0.2	-7.3
Max	8.0	7.8	7.9	7.7	7.2	6.8	6.8	6.7	6.6	7.4	10.2	10.2	10.1	11.6	14.1	15.1	15.0	14.9	15.3	15.2	12.1	9.7	8.6	7.9	9.0	15.3	6.5
Min	-21.3	-22.4	-22.3	-22.6	-23.0	-23.7	-24.1	-24.0	-23.7	-22.7	-21.3	-20.1	-18.5	-17.6	-16.7	-16.5	-17.4	-17.5	-18.1	-18.4	-19.6	-20.6	-20.6	-20.7	-20.4	-16.5	-24.1

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-17.2	-16.8	-18.2	-18.5	-19.1	-19.5	-19.6	-19.8	-20.6	-18.9	-17.1	-15.8	-14.8	-13.9	-13.3	-12.1	-11.0	-11.2	-11.2	-10.5	-10.5	-10.0	-10.0	-8.6	-14.9	-8.6	-20.6
2	-8.3	-6.4	-5.2	-4.8	-4.9	-4.8	-5.8	-5.5	-5.7	-4.5	-3.9	-3.9	-2.7	-1.0	-0.9	-1.2	-1.5	-3.7	-4.5	-5.6	-7.7	-8.1	-8.7	-9.8	-5.0	-0.9	-9.8
3	-9.8	-10.2	-10.7	-11.3	-12.2	-11.6	-11.6	-12.0	-12.1	-12.1	-10.9	-9.5	-8.4	-7.2	-7.1	-7.0	-6.8	-6.7	-6.3	-6.1	-6.9	-6.4	-5.9	-5.8	-8.9	-5.8	-12.2
4	-5.8	-5.4	-5.5	-5.6	-5.7	-5.4	-5.1	-5.0	-4.8	-4.4	-3.9	-3.2	-2.8	-1.9	-1.7	-1.7	-2.0	-1.9	-1.1	-1.1	-1.6	-1.4	-1.1	-1.7	-3.3	-1.1	-5.8
5	-1.7	-1.2	-1.4	-1.6	-1.8	-1.9	-1.9	-1.9	-2.0	-1.7	-1.1	-0.5	-0.1	0.5	0.7	1.4	1.4	0.8	0.7	0.0	-0.5	-0.9	-1.6	-1.3	-0.7	1.4	-2.0
6	-2.7	-2.7	-2.5	-2.6	-2.9	-3.4	-3.9	-4.0	-4.4	-3.8	-3.5	-3.1	-2.7	-0.8	1.2	0.0	1.8	0.0	1.2	0.1	2.2	1.6	1.5	2.0	-1.3	2.2	-4.4
7	3.0	2.8	3.2	2.9	3.2	2.3	2.9	3.0	2.5	2.6	3.7	4.0	3.7	3.7	4.1	3.5	3.0	3.3	1.8	0.4	-1.5	-0.4	-1.8	-2.2	2.2	4.1	-2.2
8	-1.6	-1.8	-2.8	-3.1	-3.2	-3.9	-4.4	-4.6	-4.4	-3.6	-3.3	-2.4	-1.8	-0.8	-0.3	-0.1	-0.3	0.0	-0.4	-1.0	-1.7	-2.2	-2.6	-2.2	-2.2	0.0	-4.6
9	-3.7	-3.6	-3.9	-4.1	-4.6	-4.4	-4.5	-4.9	-4.7	-4.1	-3.0	-1.8	-0.8	-0.2	-0.4	-0.2	0.0	0.4	0.5	0.2	0.5	2.7	3.4	2.2	-1.6	3.4	-4.9
10	0.9	0.8	0.9	2.4	3.2	2.7	3.0	2.7	2.4	3.4	3.1	4.4	5.1	5.3	6.3	7.0	7.5	7.1	5.8	4.6	4.9	5.3	6.6	5.9	4.2	7.5	0.8
11	6.1	6.4	5.4	5.7	5.5	3.6	3.0	3.0	2.7	1.9	2.6	3.7	3.7	3.3	4.7	4.4	4.7	5.8	5.7	6.2	4.8	4.3	5.2	5.9	4.5	6.4	1.9
12	6.4	7.5	5.4	5.1	3.8	3.0	2.5	3.3	2.5	3.1	3.4	5.3	6.0	5.2	6.6	6.1	6.5	6.6	5.1	4.9	3.8	3.5	3.2	2.4	4.6	7.5	2.4
13	2.0	2.0	2.2	4.2	3.5	2.3	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.1	-0.1	-0.3	-0.6	-0.6	-0.6	0.9	4.2	-0.6
14	-0.7	-0.7	-0.9	-0.9	-1.2	-0.9	-1.2	-1.3	-1.6	-1.5	-1.4	-1.1	-1.2	-1.2	-1.1	-1.2	-1.7	-1.7	-2.6	-2.5	-2.8	-3.2	-3.9	-4.5	-1.7	-0.7	-4.5
15	-4.3	-5.8	-6.2	-6.8	-8.0	-8.3	-9.0	-9.3	-9.3	-9.6	-8.9	-8.4	-7.7	-6.6	-6.1	-6.2	-7.2	-7.6	-8.7	-9.2	-9.6	-10.1	-10.5	-11.7	-8.1	-4.3	-11.7
16	-11.6	-11.9	-11.7	-12.6	-12.7	-12.0	-11.3	-11.2	-11.4	-10.5	-9.8	-8.9	-7.9	-7.5	-6.8	-6.3	-6.3	-6.8	-6.8	-6.6	-6.6	-6.5	-6.2	-6.2	-9.0	-6.2	-12.7
17	-6.1	-6.2	-6.1	-5.9	-5.8	-5.9	-5.7	-5.5	-5.5	-5.1	-4.5	-3.8	-2.8	-2.0	-1.5	-2.5	-3.4	-3.1	-3.7	-4.9	-5.8	-5.3	-6.8	-6.6	-4.8	-1.5	-6.8
18	-6.0	-5.6	-5.7	-6.5	-6.6	-6.4	-6.7	-7.3	-7.1	Au	Au	Ca	Ca	-3.1	-2.7	-2.6	-2.7	-2.6	-2.4	-2.3	-2.6	-3.3	-3.7	-3.2	-4.5	-2.3	-7.3
19	-3.4	-4.4	-3.9	-4.0	-4.4	-4.4	-4.4	-4.3	-5.0	-4.6	-4.5	-3.4	-2.6	-2.3	-1.9	-1.7	-1.0	-1.2	-0.3	1.0	0.9	0.3	0.5	0.2	-2.4	1.0	-5.0
20	0.6	-1.2	-1.4	-0.8	-2.0	-4.5	-6.4	-5.5	-5.6	-5.8	-4.8	-4.6	-3.4	-3.2	-1.9	-2.1	-2.4	-2.8	-2.8	-2.9	-2.1	-2.4	-1.6	-1.0	-2.9	0.6	-6.4
21	0.6	1.0	1.6	1.3	1.6	1.9	1.1	1.2	2.9	3.3	3.5	3.7	3.8	3.3	2.2	2.0	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.1	2.3	3.8	0.6
22	1.3	0.9	1.2	1.4	1.5	0.8	0.5	0.9	0.7	1.1	1.7	1.8	2.0	0.9	1.4	1.7	1.1	0.3	0.1	0.3	0.2	-0.2	-1.1	-1.7	0.8	2.0	-1.7
23	-2.0	-1.5	-1.0	-0.6	-1.1	-1.5	-2.4	-3.3	-3.4	-3.0	-2.5	-2.0	-1.6	-1.2	-0.4	-0.3	0.0	0.6	-0.3	-0.6	-1.4	-1.4	-1.2	0.3	-1.3	0.6	-3.4
24	-0.2	-1.0	-0.1	0.6	1.6	2.6	3.6	2.8	3.2	4.6	4.7	4.4	4.2	3.4	1.9	1.2	1.4	1.2	0.9	0.6	0.1	-0.6	-0.9	-1.3	1.6	4.7	-1.3
25	-1.4	-1.7	-2.0	-2.9	-3.4	-3.7	-3.8	-4.3	-4.1	-4.7	-3.7	-3.4	-3.9	-3.2	-2.8	-2.8	-3.3	-3.7	-3.8	-4.1	-4.5	-4.7	-4.5	-5.0	-3.6	-1.4	-5.0
26	-4.0	-3.9	-4.0	-4.1	-4.3	-4.1	-4.4	-4.7	-4.6	-4.8	-4.4	-3.2	-2.9	-2.5	-3.1	-3.9	-4.4	-4.9	-6.1	-5.8	-6.2	-6.5	-5.5	-5.2	-4.5	-2.5	-6.5
27	-5.2	-5.1	-5.1	-5.4	-5.3	-5.0	-4.8	-5.0	-5.4	-5.0	-4.3	-3.7	-2.7	-2.4	-2.6	-2.9	-3.0	-2.9	-3.4	-4.0	-3.9	-3.2	-2.8	-2.8	-4.0	-2.4	-5.4
28	-3.1	-2.9	-2.9	-3.0	-2.7	-3.5	-3.2	-2.9	-2.9	-3.0	-3.1	-3.2	-3.9	-4.2	-5.6	-6.8	-7.5	-8.8	-9.7	-10.3	-10.9	-11.8	-12.1	-12.4	-5.9	-2.7	-12.4
29	-12.7	-12.8	-13.5	-13.7	-14.0	-14.7	-15.0	-15.6	-16.2	-16.1	-16.1	-15.9	-15.5	-15.5	-16.0	-16.6	-16.9	-17.5	-18.3	-19.1	-19.5	-20.3	-20.4	-20.8	-16.4	-12.7	-20.8
30	-21.6	-22.2	-22.3	-22.3	-22.3	-23.7	-24.7	-25.1	-25.6	-26.0	-25.2	-24.0	-22.9	-22.1	-22.0	-22.1	-22.9	-22.6	-22.7	-23.1	-23.2	-22.9	-22.2	-21.8	-23.1	-21.6	-26.0
31	-21.4	-21.1	-21.0	-21.2	-21.3	-20.9	-20.9	-20.9	-21.6	-20.7	-19.8	-19.2	-18.2	-17.6	-17.1	-17.3	-17.6	-17.8	-17.9	-18.2	-18.5	-19.1	-19.2	-20.1	-19.5	-17.1	-21.6
Avg	-4.3	-4.3	-4.5	-4.5	-4.7	-5.0	-5.3	-5.4	-5.5	-5.1	-4.5	-3.9	-3.4	-3.0	-2.8	-2.9	-3.0	-3.2	-3.5	-3.8	-4.1	-4.2	-4.3	-4.4	-4.1	-1.4	-7.1
Max	6.4	7.5	5.4	5.7	5.5	3.6	3.6	3.3	3.2	4.6	4.7	5.3	6.0	5.3	6.6	7.0	7.5	7.1	5.8	6.2	4.9	5.3	6.6	5.9	4.6	7.5	2.4
Min	-21.6	-22.2	-22.3	-22.3	-22.3	-23.7	-24.7	-25.1	-25.6	-26.0	-25.2	-24.0	-22.9	-22.1	-22.0	-22.1	-22.9	-22.6	-22.7	-23.1	-23.2	-22.9	-22.2	-21.8	-23.1	-21.6	-26.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.06	-0.03	0.04	0.00	0.04	-0.01	-0.06	-0.10	-0.27	-0.39	-0.48	-0.63	-0.88	-0.86	-1.04	-0.43	-0.34	-0.19	-0.12	-0.06	0.07	0.09	0.20	0.42	-0.21	0.42	-1.04
2	1.07	0.32	0.40	0.30	0.17	1.26	0.00	-0.09	-0.34	-0.60	-0.91	-0.94	-1.27	-1.35	-1.41	-0.80	-0.86	-0.40	-0.28	-0.15	0.04	0.34	0.37	0.55	-0.19	1.26	-1.41
3	0.23	0.35	0.19	0.13	0.65	0.38	0.40	-0.10	-0.68	-0.80	-0.78	-0.95	-1.06	-0.92	-1.18	-0.96	-0.54	0.28	0.66	1.26	0.65	0.79	1.37	0.97	0.01	1.37	-1.18
4	0.76	0.62	0.78	0.98	0.93	0.91	1.64	2.59	0.78	0.01	-0.50	-0.62	-0.86	-0.97	-1.09	-0.75	-0.45	-0.14	0.02	0.05	0.12	0.17	0.31	0.66	0.25	2.59	-1.09
5	0.41	0.28	0.44	0.61	1.14	1.46	1.56	0.08	-0.27	-0.50	-0.59	-0.86	-0.92	-1.13	-0.65	-0.68	-0.59	-0.08	0.07	0.15	0.17	0.08	0.54	1.16	0.08	1.56	-1.13
6	1.53	1.23	0.87	0.73	1.38	1.31	0.65	0.34	-0.20	-0.68	-0.98	-1.11	-0.78	-0.88	-1.04	-0.90	-0.46	-0.04	0.15	0.16	0.09	0.25	0.39	0.16	0.09	1.53	-1.11
7	0.49	0.63	0.48	0.74	0.76	1.21	0.82	-0.01	-0.42	-0.71	-0.91	-1.10	-1.23	-1.10	-0.90	-0.73	-0.35	0.00	0.07	0.39	0.88	0.55	0.34	0.31	0.01	1.21	-1.23
8	0.77	0.74	0.90	0.44	0.54	0.81	0.98	0.62	-0.64	-0.65	-0.46	-0.84	-1.07	-0.90	-0.96	-0.69	-0.32	0.36	0.79	1.02	1.10	0.69	0.67	0.40	0.18	1.10	-1.07
9	0.70	0.58	0.56	0.59	0.85	0.54	0.30	0.23	-0.40	-0.62	-0.79	-0.62	-0.94	-1.01	-0.84	-0.67	-0.26	0.25	1.13	1.43	1.29	0.61	0.50	0.49	0.16	1.43	-1.01
10	0.27	0.42	0.48	0.34	0.71	0.81	0.25	0.42	-0.56	-0.73	-0.92	-0.97	-1.01	-0.94	-1.04	-0.97	-0.53	0.17	0.30	1.37	0.85	0.48	0.76	1.24	0.05	1.37	-1.04
11	1.55	1.81	1.59	1.50	2.13	1.93	1.84	1.74	0.75	0.38	-0.36	-0.71	-0.70	-0.45	-0.41	-0.08	-0.12	0.16	0.45	0.06	0.03	0.05	0.09	0.27	0.56	2.13	-0.71
12	-0.01	0.00	-0.07	0.13	0.00	0.03	-0.02	-0.05	-0.15	-0.23	-0.30	-0.59	-0.61	-0.48	-0.61	-0.40	-0.30	0.03	0.08	0.02	0.31	0.45	0.51	0.31	-0.08	0.51	-0.61
13	0.67	0.76	0.78	0.68	0.36	0.60	0.71	0.12	-0.28	-0.64	-0.77	-0.74	-0.59	-0.84	-0.80	-0.68	0.11	0.84	0.88	0.70	0.60	0.16	0.20	0.64	0.14	0.88	-0.84
14	0.60	0.62	0.73	0.74	0.50	0.42	0.73	0.77	0.12	-0.59	-0.45	-0.32	-0.86	-0.87	-0.67	-0.33	0.03	0.46	0.61	0.90	0.73	0.71	1.14	0.68	0.27	1.14	-0.87
15	0.79	0.77	1.03	0.79	0.64	0.69	0.37	0.81	0.61	-0.24	-0.39	-0.13	-0.17	-0.23	-0.59	-0.11	-0.23	-0.02	0.02	0.03	0.16	0.45	0.42	0.72	0.26	1.03	-0.59
16	0.29	0.36	0.51	0.68	0.55	0.35	0.41	0.35	-0.30	-0.69	-0.80	-1.03	-0.79	-0.79	-0.48	-0.31	-0.20	0.27	0.91	0.85	0.73	0.64	0.30	0.33	0.09	0.91	-1.03
17	0.38	0.21	0.19	0.52	0.48	0.44	0.15	0.25	-0.43	-0.62	-0.67	-0.81	-0.82	-0.78	-0.57	-0.62	-0.17	0.53	0.60	0.53	0.41	0.44	0.64	0.93	0.05	0.93	-0.82
18	0.67	0.76	0.86	1.21	1.00	0.51	0.72	0.86	0.12	-0.59	-0.64	-0.78	-1.53	-1.14	-0.99	-0.66	-0.28	0.54	1.04	0.88	0.88	0.46	0.81	0.98	0.24	1.21	-1.53
19	1.29	0.85	0.88	0.56	1.03	0.75	1.09	0.77	-0.29	-0.67	-0.74	-0.86	-0.86	-0.84	-0.68	-0.64	-0.09	0.89	0.56	0.58	0.84	0.43	0.37	0.39	0.23	1.29	-0.86
20	0.14	0.53	0.52	0.56	0.76	0.64	0.90	0.93	-0.16	-0.57	-0.74	-0.77	-0.72	-0.68	-0.46	0.13	0.44	0.49	0.95	0.64	1.25	1.34	1.24	1.21	0.36	1.34	-0.77
21	1.01	1.36	1.97	1.26	0.87	0.11	0.12	0.03	-0.05	-0.12	-0.10	-0.08	-0.10	-0.11	-0.14	-0.17	-0.09	0.02	-0.03	0.15	0.09	0.39	0.31	0.40	0.30	1.97	-0.17
22	0.61	0.35	1.06	0.79	0.64	0.80	1.29	0.92	-0.41	-0.39	-0.55	-0.73	-0.70	-0.74	-0.68	-0.58	-0.20	0.33	0.88	1.19	0.99	1.00	0.78	0.51	0.30	1.29	-0.74
23	0.71	0.45	0.59	0.74	0.49	0.48	0.17	0.15	0.24	0.09	-0.04	-0.15	-0.22	-0.18	-0.04	0.00	0.10	0.05	-0.01	0.02	0.07	0.03	0.35	0.65	0.20	0.74	-0.22
24	0.44	0.04	-0.03	-0.03	0.16	0.09	0.07	0.01	-0.15	-0.29	-0.41	-0.45	-0.56	-0.55	-0.37	-0.30	-0.17	0.23	0.20	0.23	0.16	0.32	0.09	0.09	-0.05	0.44	-0.56
25	-0.07	-0.14	-0.13	-0.20	-0.19	-0.21	-0.23	-0.22	-0.30	-0.33	-0.35	-0.37	-0.42	-0.41	-0.49	-0.32	-0.21	0.80	0.89	0.71	0.89	0.85	1.31	1.16	0.08	1.31	-0.49
26	0.75	1.07	0.21	0.17	0.04	0.07	0.34	0.40	0.01	-0.14	-0.30	-0.59	-0.39	-0.59	-0.84	-0.44	-0.10	0.06	0.05	-0.02	-0.01	0.15	-0.03	0.02	-0.00	1.07	-0.84
27	0.09	0.04	-0.07	0.08	-0.01	0.38	0.46	0.12	-0.14	-0.40	-0.51	-0.61	-0.50	-0.56	-0.33	-0.27	-0.12	0.13	0.16	0.33	0.60	0.81	0.42	0.47	0.02	0.81	-0.61
28	0.88	0.51	0.68	0.61	0.85	0.89	0.40	0.21	-0.41	-0.46	-0.73	-0.67	-0.65	-0.51	-0.39	-0.36	0.01	0.23	0.59	0.23	0.24	0.64	0.37	0.33	0.15	0.89	-0.73
29	0.49	0.33	0.96	0.59	0.70	0.47	0.68	0.46	0.12	-0.12	-0.34	-0.30	-0.29	-0.46	-0.39	-0.18	0.07	0.76	1.29	1.63	0.82	0.67	0.81	0.31	0.38	1.63	-0.46
30	0.36	0.16	0.24	0.11	0.19	0.31	0.29	0.53	0.03	-0.37	-0.39	-0.63	-0.76	-0.76	-0.44	-0.21	0.02	0.42	0.22	0.37	0.46	0.83	0.57	0.56	0.09	0.83	-0.76
31	0.87	0.78	0.89	0.62	0.82	0.75	0.57	1.04	0.09	0.22	-0.46	-0.63	-0.59	-0.46	-0.21	-0.24	0.57	0.55	1.23	1.02	0.85	0.43	0.64	0.85	0.42	1.23	-0.63
Avg	0.61	0.54	0.60	0.55	0.62	0.62	0.57	0.46	-0.13	-0.40	-0.56	-0.66	-0.74	-0.73	-0.67	-0.46	-0.18	0.26	0.46	0.54	0.53	0.49	0.54	0.59	0.14	1.21	-0.84
Max	1.55	1.81	1.97	1.50	2.13	1.93	1.84	2.59	0.78	0.38	-0.04	-0.08	-0.10	-0.11	-0.04	0.13	0.57	0.89	1.29	1.63	1.29	1.34	1.37	1.24	0.56	2.59	-0.17
Min	-0.07	-0.14	-0.13	-0.20	-0.19	-0.21	-0.23	-0.22	-0.68	-0.80	-0.98	-1.11	-1.53	-1.35	-1.41	-0.97	-0.86	-0.40	-0.28	-0.15	-0.01	0.03	-0.03	0.02	-0.21	0.42	-1.53

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.88	0.28	0.31	0.53	0.52	0.66	0.48	0.47	0.24	-0.43	-0.36	-0.36	-0.46	-0.38	-0.16	0.02	0.07	0.13	0.07	0.40	0.40	0.22	0.24	0.24	0.17	0.88	-0.46
2	-0.02	-0.10	-0.09	-0.09	-0.06	-0.06	-0.07	-0.14	-0.17	-0.22	-0.32	-0.24	-0.20	-0.23	-0.19	-0.23	-0.10	0.00	0.14	0.39	0.36	0.04	0.10	0.02	-0.06	0.39	-0.32
3	0.05	-0.01	-0.05	-0.01	0.07	0.02	0.12	0.13	0.05	-0.33	-0.37	-0.55	-0.86	-0.91	-0.64	-0.31	-0.10	0.06	-0.02	0.06	0.11	0.05	0.27	0.58	-0.11	0.58	-0.91
4	0.52	0.39	0.47	0.50	0.40	0.48	0.30	0.37	0.02	-0.09	-0.22	-0.38	-0.39	-0.33	-0.03	0.04	0.21	0.65	0.33	0.41	0.36	0.31	0.10	0.00	0.18	0.65	-0.39
5	0.09	0.07	0.01	0.04	0.03	0.28	0.25	0.13	0.26	-0.02	-0.31	-0.33	-0.35	-0.14	-0.05	-0.06	0.04	0.12	0.13	0.31	0.21	0.29	0.19	0.22	0.06	0.31	-0.35
6	0.37	0.12	0.36	0.30	0.60	0.30	0.41	0.98	0.97	1.19	0.04	-0.28	-0.53	-0.43	-0.25	-0.07	0.43	0.69	0.56	0.38	0.39	0.29	0.15	0.13	0.30	1.19	-0.53
7	0.22	0.05	0.21	0.25	0.10	0.13	0.19	0.02	-0.20	-0.19	-0.31	-0.29	-0.26	-0.27	-0.29	-0.13	0.03	0.50	0.48	0.41	0.37	0.35	0.44	0.36	0.09	0.50	-0.31
8	0.55	0.88	0.69	0.41	0.26	0.40	0.35	0.86	0.39	-0.20	-0.40	-0.54	-0.66	-0.65	-0.62	-0.37	0.39	0.71	0.67	0.43	0.58	1.00	0.73	0.74	0.27	1.00	-0.66
9	0.62	0.53	2.58	4.52	4.38	1.81	1.24	3.08	3.06	3.16	1.08	-0.02	0.09	0.05	0.04	0.02	0.07	0.27	0.09	0.13	0.04	-0.03	-0.13	-0.15	1.11	4.52	-0.15
10	-0.15	-0.10	-0.14	-0.17	-0.18	-0.10	-0.01	0.03	-0.15	-0.24	-0.31	-0.36	-0.35	-0.30	-0.27	-0.18	-0.03	-0.09	-0.06	-0.08	-0.09	-0.10	0.09	0.42	-0.12	0.42	-0.36
11	0.39	0.54	0.48	0.48	0.68	0.63	0.50	0.36	-0.01	-0.33	-0.44	-0.56	-0.60	-0.49	-0.49	-0.03	0.42	0.46	0.38	0.56	0.59	0.50	0.57	0.50	0.21	0.68	-0.60
12	0.56	0.46	0.16	0.69	0.50	1.00	0.35	0.27	-0.13	-0.42	-0.34	-0.44	-0.46	-0.43	-0.42	-0.14	0.14	0.69	0.34	0.34	0.55	0.36	0.20	0.55	0.18	1.00	-0.46
13	0.67	0.58	0.35	0.47	0.62	0.59	0.63	0.22	-0.04	-0.27	-0.49	-0.55	-0.56	-0.46	-0.41	-0.22	0.47	0.22	0.22	0.29	0.85	0.42	0.38	0.55	0.19	0.85	-0.56
14	0.16	0.00	-0.23	-0.11	-0.24	-0.23	-0.22	-0.21	-0.17	-0.21	-0.18	-0.27	-0.37	-0.35	-0.32	-0.28	-0.15	0.12	0.38	0.30	0.38	0.26	0.41	0.43	-0.05	0.43	-0.37
15	0.55	0.26	0.90	0.51	0.50	0.40	0.36	0.49	-0.05	-0.28	-0.37	-0.48	-0.62	-0.58	-0.47	-0.10	0.30	0.39	0.13	0.50	0.44	1.01	0.62	0.71	0.21	1.01	-0.62
16	0.69	0.97	1.78	0.47	0.51	0.13	0.23	0.47	0.31	-0.45	-0.45	-0.39	-0.58	-0.44	-0.46	-0.14	0.56	0.62	0.51	0.81	0.55	0.58	0.80	1.25	0.35	1.78	-0.58
17	1.49	0.65	1.02	1.68	0.57	1.10	0.78	0.36	-0.03	-0.28	-0.40	-0.49	-0.59	-0.60	-0.43	-0.19	0.46	0.46	0.52	0.51	0.73	0.70	0.53	0.54	0.38	1.68	-0.60
18	0.79	0.73	0.77	0.44	0.60	0.48	0.71	0.42	0.19	0.08	-0.31	-0.48	-0.37	-0.45	-0.30	-0.15	0.08	0.28	0.11	0.25	-0.04	0.37	0.21	0.37	0.20	0.79	-0.48
19	0.58	0.58	0.62	0.57	0.85	0.44	0.91	0.80	0.19	0.03	-0.39	-0.36	-0.49	-0.43	-0.45	-0.19	0.46	0.52	0.26	0.71	0.45	0.87	0.56	0.51	0.32	0.91	-0.49
20	0.66	1.09	0.55	0.77	0.76	0.36	0.84	0.43	0.34	0.08	-0.25	-0.36	-0.37	-0.38	-0.25	-0.23	0.06	0.67	1.11	1.20	1.14	0.96	0.77	0.34	0.43	1.20	-0.38
21	1.15	1.36	2.05	1.81	1.73	1.59	1.83	2.35	1.87	0.56	-0.15	0.71	0.30	-0.09	0.14	0.59	0.66	0.45	0.70	0.87	0.94	0.44	0.93	0.75	0.98	2.35	-0.15
22	0.75	0.58	0.92	0.68	0.72	1.18	0.45	0.31	0.04	-0.03	0.01	-0.02	-0.03	-0.06	-0.02	-0.03	-0.03	-0.06	-0.04	0.05	0.13	-0.06	-0.07	0.03	0.23	1.18	-0.07
23	-0.07	-0.04	0.03	0.07	-0.03	-0.05	-0.04	-0.06	-0.11	-0.10	-0.15	-0.15	-0.25	-0.13	-0.09	-0.06	0.10	0.18	0.12	-0.06	-0.05	0.18	0.00	0.03	-0.03	0.18	-0.25
24	0.05	-0.03	0.01	0.07	-0.01	0.02	0.06	0.06	0.00	0.00	-0.07	-0.17	-0.15	-0.02	0.14	0.11	0.06	0.00	-0.06	0.17	0.43	0.52	0.74	0.11	0.09	0.74	-0.17
25	0.04	0.08	-0.01	0.04	0.20	0.07	0.04	0.04	-0.01	0.04	0.02	0.05	0.05	-0.06	-0.05	-0.09	-0.08	-0.08	-0.10	-0.09	-0.05	0.02	0.03	0.00	0.00	0.20	-0.10
26	0.00	0.00	0.00	0.00	-0.05	-0.06	-0.06	-0.06	-0.02	-0.05	-0.13	-0.09	0.33	0.85	0.61	1.09	2.08	0.70	1.21	1.17	0.75	1.57	1.68	0.83	0.51	2.08	-0.13
27	0.48	0.73	1.22	2.41	1.17	2.27	1.30	1.63	0.58	1.03	0.96	0.95	0.64	0.34	0.42	0.71	1.09	1.05	0.72	0.45	0.43	0.50	0.77	0.89	0.95	2.41	0.34
28	0.76	1.06	1.64	0.61	0.95	1.24	0.60	0.76	0.65	0.60	0.27	0.23	0.14	0.15	0.24	0.40	0.20	0.35	0.26	0.23	0.19	0.17	0.67	0.46	0.53	1.64	0.14
29	0.53	0.56	0.52	0.54	0.51	0.30	0.48	0.01	0.10	0.05	0.12	0.12	0.03	0.03	-0.08	0.21	0.15	-0.26	-0.32	-0.06	-0.08	0.00	-0.04	-0.28	0.13	0.56	-0.32
30	-0.25	-0.21	-0.26	-0.25	-0.25	0.26	0.10	-0.16	-0.14	-0.30	-0.44	-0.51	-0.50	-0.41	-0.28	0.07	0.73	0.44	0.35	0.69	0.89	0.69	1.05	0.63	0.08	1.05	-0.51
Avg	0.44	0.40	0.56	0.61	0.55	0.52	0.44	0.48	0.27	0.08	-0.16	-0.22	-0.28	-0.25	-0.18	0.00	0.29	0.34	0.31	0.39	0.40	0.42	0.43	0.39	0.26	1.11	-0.36
Max	1.49	1.36	2.58	4.52	4.38	2.27	1.83	3.08	3.06	3.16	1.08	0.95	0.64	0.85	0.61	1.09	2.08	1.05	1.21	1.20	1.14	1.57	1.68	1.25	1.11	4.52	0.34
Min	-0.25	-0.21	-0.26	-0.25	-0.25	-0.23	-0.22	-0.21	-0.20	-0.45	-0.49	-0.56	-0.86	-0.91	-0.64	-0.37	-0.15	-0.26	-0.32	-0.09	-0.09	-0.10	-0.13	-0.28	-0.12	0.18	-0.91

Montana Limestone Resources
Drummond Air Monitoring Summary
Temperature Delta T (degrees Celsius)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.38	0.39	0.54	0.42	0.75	1.08	1.08	0.63	0.36	-0.35	-0.34	-0.48	-0.51	-0.51	-0.51	-0.19	0.03	-0.23	-0.11	-0.20	0.07	0.17	0.30	2.26	0.21	2.26	-0.51
2	1.73	1.71	1.04	0.87	0.65	0.42	0.85	0.46	0.54	0.01	-0.06	0.13	0.06	0.13	0.56	0.76	0.89	0.51	0.56	0.52	0.82	0.66	0.74	0.70	0.64	1.73	-0.06
3	0.60	0.55	0.49	0.87	0.55	0.35	0.47	0.43	0.47	0.06	-0.28	-0.41	-0.44	-0.38	-0.31	0.26	0.46	0.44	0.19	0.33	0.48	0.27	0.23	0.07	0.24	0.87	-0.44
4	0.07	-0.06	0.14	0.04	-0.14	-0.11	-0.11	0.01	-0.15	-0.15	-0.18	-0.35	-0.24	-0.21	-0.18	-0.22	-0.10	0.11	0.21	0.28	0.47	0.44	0.45	0.14	0.01	0.47	-0.35
5	0.22	0.68	0.67	0.37	0.57	0.27	0.31	0.38	0.41	0.01	-0.22	-0.10	-0.19	0.03	-0.16	0.01	0.50	0.49	0.62	0.64	0.93	0.55	0.51	0.74	0.34	0.93	-0.22
6	0.40	0.12	-0.06	-0.12	-0.14	-0.07	-0.02	-0.13	-0.07	-0.10	-0.08	-0.10	-0.12	0.18	0.51	0.62	0.82	0.73	1.27	1.06	0.42	0.14	0.37	1.22	0.29	1.27	-0.14
7	0.37	0.57	0.27	0.00	0.18	0.61	0.45	0.26	0.50	0.46	-0.06	-0.07	0.18	-0.27	-0.33	0.46	1.07	0.62	0.83	0.93	0.63	0.56	0.84	0.60	0.40	1.07	-0.33
8	0.70	0.71	0.87	0.54	0.49	0.33	0.43	0.50	0.46	0.19	-0.15	-0.14	-0.37	-0.24	-0.30	-0.15	0.33	0.36	0.31	0.44	0.71	0.41	0.75	0.39	0.32	0.87	-0.37
9	0.90	0.72	0.59	0.96	0.86	0.69	0.67	0.42	0.57	0.36	-0.05	1.32	1.26	0.80	0.43	0.63	0.54	0.71	1.05	1.19	1.06	1.99	1.62	2.34	0.90	2.34	-0.05
10	1.41	1.35	0.72	0.46	0.65	1.05	0.35	0.74	1.02	0.76	0.74	0.07	0.28	0.53	0.65	0.49	0.63	0.86	1.11	1.25	1.22	0.85	0.72	0.99	0.79	1.41	0.07
11	0.86	1.02	1.15	0.61	0.88	0.89	1.56	1.29	1.51	1.16	1.25	0.98	1.41	1.14	1.54	1.17	1.51	1.36	1.50	0.75	1.10	1.31	0.74	0.84	1.15	1.56	0.61
12	1.01	0.51	1.59	1.25	1.36	1.33	2.09	1.00	1.32	0.81	0.74	1.38	1.53	1.87	1.68	0.26	0.70	0.54	1.02	0.85	1.49	0.83	1.06	1.07	1.14	2.09	0.26
13	0.71	0.77	0.75	0.14	0.17	0.07	-0.04	-0.10	-0.09	-0.12	-0.17	-0.24	-0.21	-0.14	-0.13	-0.09	-0.10	-0.10	-0.09	-0.06	-0.03	0.07	0.07	0.10	0.05	0.77	-0.24
14	0.14	0.17	0.17	0.17	0.12	0.12	0.04	0.04	0.10	0.07	0.07	-0.12	-0.29	-0.29	-0.25	-0.12	0.44	0.20	0.06	0.11	0.40	0.38	0.63	0.68	0.13	0.68	-0.29
15	0.18	0.59	0.34	0.11	0.47	0.56	0.38	0.34	0.20	0.05	-0.38	-0.35	-0.36	-0.40	-0.26	-0.03	0.50	0.35	0.50	0.44	0.37	0.43	0.53	0.51	0.21	0.59	-0.40
16	0.18	0.23	0.48	0.61	0.94	0.18	0.43	0.02	0.05	-0.31	-0.26	-0.32	-0.25	-0.11	-0.17	-0.26	-0.17	0.32	0.12	-0.08	0.02	0.14	0.17	0.23	0.09	0.94	-0.32
17	0.02	-0.03	-0.05	0.11	-0.10	0.10	0.22	0.35	0.35	-0.16	-0.22	-0.33	-0.32	-0.26	-0.15	0.61	0.86	0.42	0.63	0.51	0.50	0.63	0.54	0.78	0.21	0.86	-0.33
18	0.31	0.49	0.70	0.80	0.44	0.53	0.36	0.84	0.34	Au	Au	Ca	Ca	-0.33	-0.08	-0.18	-0.16	0.09	0.47	0.42	0.10	0.16	0.55	0.42	0.31	0.84	-0.33
19	0.57	0.26	0.44	0.35	0.39	0.58	0.41	0.45	0.52	0.20	0.28	0.15	0.16	-0.19	-0.24	0.82	0.85	1.44	1.06	0.05	0.35	0.60	0.34	0.17	0.42	1.44	-0.24
20	0.46	1.02	1.27	0.74	0.92	1.05	0.38	1.04	0.85	0.80	0.06	0.10	0.10	0.37	0.00	-0.15	0.28	0.20	0.13	0.17	1.37	1.56	1.20	1.59	0.65	1.59	-0.15
21	0.89	0.48	0.20	0.06	0.51	0.45	0.13	0.30	0.37	0.14	0.21	0.08	0.03	0.07	0.08	0.03	0.13	0.16	0.02	0.00	-0.03	-0.02	0.00	-0.05	0.18	0.89	-0.05
22	-0.09	-0.08	0.00	0.02	-0.03	-0.09	-0.03	-0.04	-0.02	-0.11	-0.23	-0.24	-0.27	-0.22	-0.24	-0.12	0.04	0.12	0.05	0.04	0.08	0.18	0.77	1.00	0.02	1.00	-0.27
23	0.77	0.24	0.16	0.06	0.48	0.92	0.42	0.47	0.21	-0.12	-0.21	-0.26	-0.38	-0.21	-0.16	-0.03	0.26	0.15	0.37	0.40	0.18	0.24	0.29	0.59	0.20	0.92	-0.38
24	1.07	1.71	1.05	0.84	0.67	0.66	0.50	0.84	0.69	0.47	0.59	0.54	0.20	0.11	0.16	0.06	0.10	0.09	0.02	-0.01	-0.04	0.00	0.06	0.00	0.43	1.71	-0.04
25	0.00	0.05	0.06	0.17	0.10	0.24	0.22	0.41	0.23	0.16	-0.38	-0.31	-0.18	-0.36	-0.18	-0.18	0.08	0.15	0.05	0.17	0.00	0.01	0.28	0.07	0.04	0.41	-0.38
26	0.19	0.01	0.02	0.04	0.18	0.19	0.05	0.07	0.04	-0.02	-0.19	-0.36	-0.41	-0.41	-0.22	-0.10	0.01	0.00	0.40	0.33	0.37	0.61	0.07	-0.02	0.04	0.61	-0.41
27	0.19	-0.01	-0.13	-0.12	-0.06	-0.08	0.10	-0.01	0.11	-0.07	-0.18	-0.12	-0.32	-0.40	-0.19	-0.02	0.11	0.09	0.07	-0.18	-0.14	-0.03	0.09	0.08	-0.05	0.19	-0.40
28	0.19	0.15	0.14	0.36	0.19	0.11	0.23	0.31	0.22	0.30	0.16	-0.20	-0.18	-0.07	-0.18	-0.12	0.02	0.08	-0.05	-0.10	-0.09	0.12	0.07	0.16	0.08	0.36	-0.20
29	0.09	-0.06	0.08	-0.04	-0.09	-0.02	-0.09	-0.10	0.00	-0.15	-0.27	-0.37	-0.48	-0.43	-0.17	0.10	0.11	0.05	0.12	0.40	0.43	0.49	0.15	0.10	-0.01	0.49	-0.48
30	0.24	0.42	0.38	0.12	0.25	0.54	0.36	0.12	0.23	-0.15	-0.37	-0.42	-0.40	-0.57	-0.39	-0.18	0.27	0.42	0.51	0.47	-0.02	-0.13	-0.27	-0.33	0.05	0.54	-0.57
31	-0.27	-0.25	-0.17	-0.02	-0.08	-0.19	-0.18	-0.16	0.13	-0.28	-0.38	-0.46	-0.45	-0.55	-0.51	-0.36	0.29	0.52	0.43	0.29	0.39	0.36	0.25	0.48	-0.05	0.52	-0.55
Avg	0.47	0.47	0.45	0.35	0.39	0.41	0.39	0.36	0.37	0.13	-0.02	-0.03	-0.04	-0.04	0.01	0.12	0.36	0.36	0.43	0.37	0.44	0.45	0.46	0.58	0.30	1.04	-0.24
Max	1.73	1.71	1.59	1.25	1.36	1.33	2.09	1.29	1.51	1.16	1.25	1.38	1.53	1.87	1.68	1.17	1.51	1.44	1.50	1.25	1.49	1.99	1.62	2.34	1.15	2.34	0.61
Min	-0.27	-0.25	-0.17	-0.12	-0.14	-0.19	-0.18	-0.16	-0.15	-0.35	-0.38	-0.48	-0.51	-0.57	-0.51	-0.36	-0.17	-0.23	-0.11	-0.20	-0.14	-0.13	-0.27	-0.33	-0.05	0.19	-0.57

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	2	61	147	229	248	376	587	452	519	238	159	33	2	0	0	0	0	0	127	587	0
2	0	0	0	0	0	0	5	67	248	365	613	742	809	754	517	171	312	63	1	0	0	0	0	0	194	809	0
3	0	0	0	0	0	0	14	141	288	418	558	628	641	597	520	392	215	45	2	0	0	0	0	0	186	641	0
4	0	0	0	0	0	0	4	52	217	241	409	382	638	571	524	409	222	59	2	0	0	0	0	0	155	638	0
5	0	0	0	0	0	0	7	114	243	300	479	615	619	638	360	281	233	54	2	0	0	0	0	0	164	638	0
6	0	0	0	0	0	0	3	50	180	377	509	607	614	591	523	376	208	52	2	0	0	0	0	0	171	614	0
7	0	0	0	0	0	0	5	102	261	410	528	605	601	602	318	267	157	36	1	0	0	0	0	0	162	605	0
8	0	0	0	0	0	0	4	65	241	381	272	548	584	572	479	297	131	31	1	0	0	0	0	0	150	584	0
9	0	0	0	0	0	0	3	36	180	383	536	407	560	580	481	353	143	26	1	0	0	0	0	0	154	580	0
10	0	0	0	0	0	0	4	104	256	395	513	585	604	567	480	346	190	34	1	0	0	0	0	0	170	604	0
11	0	0	0	0	0	0	2	36	63	200	288	249	276	188	160	23	86	18	0	0	0	0	0	0	66	288	0
12	0	0	0	0	0	0	1	25	82	139	216	384	472	314	342	215	156	20	0	0	0	0	0	0	99	472	0
13	0	0	0	0	0	0	2	35	196	350	505	425	339	434	438	331	102	15	0	0	0	0	0	0	132	505	0
14	0	0	0	0	0	0	1	34	151	374	376	406	621	462	314	233	131	21	0	0	0	0	0	0	130	621	0
15	0	0	0	0	0	0	1	64	104	170	256	264	180	180	271	45	111	5	0	0	0	0	0	0	69	271	0
16	0	0	0	0	0	0	3	60	220	348	482	533	458	487	188	97	70	44	0	0	0	0	0	0	125	533	0
17	0	0	0	0	0	0	2	82	227	364	432	594	504	550	441	327	141	11	0	0	0	0	0	0	153	594	0
18	0	0	0	0	0	0	1	62	172	363	485	380	687	502	438	308	153	9	0	0	0	0	0	0	148	687	0
19	0	0	0	0	0	0	1	76	220	364	479	548	561	522	431	299	144	8	0	0	0	0	0	0	152	561	0
20	0	0	0	0	0	0	1	59	210	353	467	534	546	502	363	115	53	10	0	0	0	0	0	0	134	546	0
21	0	0	0	0	0	0	0	6	16	68	37	23	67	42	64	108	45	11	0	0	0	0	0	0	20	108	0
22	0	0	0	0	0	0	1	57	251	267	458	525	537	496	409	259	117	6	0	0	0	0	0	0	141	537	0
23	0	0	0	0	0	0	0	6	27	61	96	159	195	164	75	36	28	2	0	0	0	0	0	0	35	195	0
24	0	0	0	0	0	0	0	9	37	112	154	172	235	260	105	51	18	2	0	0	0	0	0	0	48	260	0
25	0	0	0	0	0	0	0	11	36	63	80	117	177	185	208	102	117	7	0	0	0	0	0	0	46	208	0
26	0	0	0	0	0	0	0	12	29	71	213	301	208	410	453	183	26	4	0	0	0	0	0	0	80	453	0
27	0	0	0	0	0	0	0	17	75	158	213	374	284	370	188	127	53	4	0	0	0	0	0	0	78	374	0
28	0	0	0	0	0	0	0	32	174	274	431	471	483	309	147	124	48	6	0	0	0	0	0	0	104	483	0
29	0	0	0	0	0	0	0	43	76	107	231	182	190	386	234	94	68	6	0	0	0	0	0	0	67	386	0
30	0	0	0	0	0	0	0	14	67	158	232	442	482	364	230	114	57	4	0	0	0	0	0	0	90	482	0
31	0	0	0	0	0	0	0	42	107	119	317	448	401	422	158	198	53	2	0	0	0	0	0	0	94	448	0
Avg	0	0	0	0	0	0	2	51	155	257	358	420	457	435	335	210	121	21	0	0	0	0	0	0	118	494	0
Max	0	0	0	0	0	0	14	141	288	418	613	742	809	754	524	409	312	63	2	0	0	0	0	0	194	809	0
Min	0	0	0	0	0	0	0	6	16	61	37	23	67	42	64	23	18	2	0	0	0	0	0	0	20	108	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	0	7	132	282	199	252	233	141	48	31	11	3	0	0	0	0	0	0	56	282	0
2	0	0	0	0	0	0	0	6	28	63	92	55	33	50	57	124	37	2	0	0	0	0	0	0	23	124	0
3	0	0	0	0	0	0	0	10	45	146	202	287	410	396	256	104	34	2	0	0	0	0	0	0	79	410	0
4	0	0	0	0	0	0	0	14	52	93	157	196	236	183	36	40	30	1	0	0	0	0	0	0	43	236	0
5	0	0	0	0	0	0	0	7	56	102	205	154	159	62	56	49	13	1	0	0	0	0	0	0	36	205	0
6	0	0	0	0	0	0	0	9	68	102	256	220	330	274	243	156	48	2	0	0	0	0	0	0	71	330	0
7	0	0	0	0	0	0	0	7	83	87	164	183	140	151	131	51	26	2	0	0	0	0	0	0	43	183	0
8	0	0	0	0	0	0	0	15	126	253	346	400	411	396	320	169	41	2	0	0	0	0	0	0	103	411	0
9	0	0	0	0	0	0	0	6	36	88	73	98	69	39	25	38	26	1	0	0	0	0	0	0	21	98	0
10	0	0	0	0	0	0	0	5	39	81	136	206	214	164	113	72	22	1	0	0	0	0	0	0	44	214	0
11	0	0	0	0	0	0	0	12	130	270	381	446	460	411	321	200	44	1	0	0	0	0	0	0	112	460	0
12	0	0	0	0	0	0	0	12	127	264	376	443	455	416	325	197	37	1	0	0	0	0	0	0	111	455	0
13	0	0	0	0	0	0	0	12	133	262	360	423	445	412	313	128	14	1	0	0	0	0	0	0	104	445	0
14	0	0	0	0	0	0	0	3	38	97	161	151	180	189	131	73	22	1	0	0	0	0	0	0	44	189	0
15	0	0	0	0	0	0	0	10	117	246	357	425	439	400	312	189	30	1	0	0	0	0	0	0	105	439	0
16	0	0	0	0	0	0	0	8	79	271	265	323	405	386	299	178	27	1	0	0	0	0	0	0	93	405	0
17	0	0	0	0	0	0	0	7	83	211	315	399	419	381	295	175	24	1	0	0	0	0	0	0	96	419	0
18	0	0	0	0	0	0	0	2	31	80	171	282	287	306	150	111	21	0	0	0	0	0	0	0	60	306	0
19	0	0	0	0	0	0	0	5	89	209	324	390	408	364	282	163	18	0	0	0	0	0	0	0	94	408	0
20	0	0	0	0	0	0	0	3	43	113	195	176	222	279	105	57	20	0	0	0	0	0	0	0	51	279	0
21	0	0	0	0	0	0	0	2	65	228	255	167	153	98	67	61	9	0	0	0	0	0	0	0	46	255	0
22	0	0	0	0	0	0	0	2	56	206	239	185	308	272	201	92	28	0	0	0	0	0	0	0	66	308	0
23	0	0	0	0	0	0	0	2	42	47	212	182	307	175	133	33	9	0	0	0	0	0	0	0	48	307	0
24	0	0	0	0	0	0	0	2	15	46	153	388	388	264	151	83	14	0	0	0	0	0	0	0	63	388	0
25	0	0	0	0	0	0	0	1	15	39	61	57	76	62	52	22	6	0	0	0	0	0	0	0	16	76	0
26	0	0	0	0	0	0	0	0	7	20	43	50	76	160	126	91	12	0	0	0	0	0	0	0	24	160	0
27	0	0	0	0	0	0	0	1	24	109	148	63	113	132	161	84	8	0	0	0	0	0	0	0	35	161	0
28	0	0	0	0	0	0	0	1	22	44	89	118	161	135	136	62	7	0	0	0	0	0	0	0	32	161	0
29	0	0	0	0	0	0	0	0	12	38	104	136	145	102	173	152	12	0	0	0	0	0	0	0	36	173	0
30	0	0	0	0	0	0	0	1	70	199	306	369	382	345	262	144	11	0	0	0	0	0	0	0	87	382	0
Avg	0	0	0	0	0	0	0	6	62	143	212	241	269	238	176	104	22	1	0	0	0	0	0	0	61	289	0
Max	0	0	0	0	0	0	0	15	133	282	381	446	460	416	325	200	48	3	0	0	0	0	0	0	112	460	0
Min	0	0	0	0	0	0	0	0	7	20	43	50	33	39	25	22	6	0	0	0	0	0	0	0	16	76	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Solar Radiation (watts m^2)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	0	1	32	94	150	154	184	165	148	81	20	0	0	0	0	0	0	0	43	184	0
2	0	0	0	0	0	0	0	1	53	181	286	352	371	337	258	128	9	0	0	0	0	0	0	0	82	371	0
3	0	0	0	0	0	0	0	0	23	76	216	357	371	326	242	117	14	0	0	0	0	0	0	0	73	371	0
4	0	0	0	0	0	0	0	0	12	41	69	156	145	101	63	38	7	0	0	0	0	0	0	0	26	156	0
5	0	0	0	0	0	0	0	0	16	65	131	118	155	148	107	81	11	0	0	0	0	0	0	0	35	155	0
6	0	0	0	0	0	0	0	0	23	100	125	80	84	101	128	58	17	0	0	0	0	0	0	0	30	128	0
7	0	0	0	0	0	0	0	1	20	71	218	324	211	345	274	108	8	0	0	0	0	0	0	0	66	345	0
8	0	0	0	0	0	0	0	0	17	132	224	185	174	181	187	128	14	0	0	0	0	0	0	0	52	224	0
9	0	0	0	0	0	0	0	1	23	102	256	289	199	142	82	48	15	0	0	0	0	0	0	0	48	289	0
10	0	0	0	0	0	0	0	0	23	78	126	155	227	180	96	58	11	0	0	0	0	0	0	0	40	227	0
11	0	0	0	0	0	0	0	0	15	52	114	207	164	88	136	49	8	0	0	0	0	0	0	0	35	207	0
12	0	0	0	0	0	0	0	0	25	145	235	308	195	196	220	92	15	0	0	0	0	0	0	0	60	308	0
13	0	0	0	0	0	0	0	0	7	26	42	62	74	57	46	23	4	0	0	0	0	0	0	0	14	74	0
14	0	0	0	0	0	0	0	0	7	34	71	112	110	126	100	53	14	0	0	0	0	0	0	0	26	126	0
15	0	0	0	0	0	0	0	0	36	147	240	283	304	284	202	127	17	0	0	0	0	0	0	0	68	304	0
16	0	0	0	0	0	0	0	0	23	54	78	153	126	123	110	60	13	0	0	0	0	0	0	0	31	153	0
17	0	0	0	0	0	0	0	0	9	51	133	249	337	305	225	94	13	0	0	0	0	0	0	0	59	337	0
18	0	0	0	0	0	0	0	0	6	Au	Au	Ca	Ca	135	87	48	5	0	0	0	0	0	0	0	14	135	0
19	0	0	0	0	0	0	0	0	12	94	101	150	114	111	76	32	5	0	0	0	0	0	0	0	29	150	0
20	0	0	0	0	0	0	0	0	20	44	134	121	193	122	101	49	12	0	0	0	0	0	0	0	33	193	0
21	0	0	0	0	0	0	0	0	13	81	167	218	428	236	61	40	8	0	0	0	0	0	0	0	52	428	0
22	0	0	0	0	0	0	0	0	12	179	309	350	363	244	263	144	15	0	0	0	0	0	0	0	78	363	0
23	0	0	0	0	0	0	0	0	13	54	92	132	174	131	109	58	8	0	0	0	0	0	0	0	32	174	0
24	0	0	0	0	0	0	0	0	5	20	46	73	53	39	25	24	10	0	0	0	0	0	0	0	12	73	0
25	0	0	0	0	0	0	0	0	16	106	310	225	189	241	217	82	12	0	0	0	0	0	0	0	58	310	0
26	0	0	0	0	0	0	0	0	11	70	188	336	386	403	148	72	11	0	0	0	0	0	0	0	68	403	0
27	0	0	0	0	0	0	0	0	10	112	206	217	215	261	218	72	14	0	0	0	0	0	0	0	55	261	0
28	0	0	0	0	0	0	0	0	13	58	68	62	60	86	97	37	12	0	0	0	0	0	0	0	21	97	0
29	0	0	0	0	0	0	0	0	13	82	174	272	345	313	139	79	18	0	0	0	0	0	0	0	60	345	0
30	0	0	0	0	0	0	0	0	23	141	252	329	358	335	265	158	16	0	0	0	0	0	0	0	78	358	0
31	0	0	0	0	0	0	0	0	16	128	243	319	347	325	253	153	19	1	0	0	0	0	0	0	75	347	0
Avg	0	0	0	0	0	0	0	0	18	87	167	212	222	200	151	77	12	0	0	0	0	0	0	0	47	245	0
Max	0	0	0	0	0	0	0	1	53	181	310	357	428	403	274	158	20	1	0	0	0	0	0	0	82	428	0
Min	0	0	0	0	0	0	0	0	5	20	42	62	53	39	25	23	4	0	0	0	0	0	0	0	12	73	0

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	74.6	75.6	73.1	72.0	72.7	71.4	70.4	69.4	62.5	58.2	51.0	47.5	44.0	41.0	36.9	38.9	38.8	43.6	49.0	52.8	55.0	56.6	59.0	60.7	57.3	75.6	36.9
2	64.2	66.2	65.4	63.5	59.6	69.8	56.5	54.7	48.9	44.8	42.0	37.9	32.7	28.8	35.8	50.4	50.2	54.0	57.6	62.1	65.2	72.2	72.7	75.5	55.4	75.5	28.8
3	78.7	82.6	85.8	88.2	91.2	94.4	94.7	83.7	74.1	65.9	56.3	47.3	39.7	26.4	14.3	13.0	17.0	21.3	24.0	27.5	29.4	32.6	41.5	50.1	53.3	94.7	13.0
4	49.8	52.3	56.2	62.8	63.5	59.3	62.4	58.6	48.2	39.6	34.1	31.4	30.5	30.3	29.3	29.5	31.6	34.1	37.6	40.3	42.9	45.8	47.7	51.8	44.6	63.5	29.3
5	52.4	53.4	53.7	57.4	58.1	58.5	60.0	53.7	49.0	44.9	42.3	38.5	34.9	31.4	30.6	30.0	29.6	30.8	32.7	37.5	41.5	43.8	46.1	47.2	44.1	60.0	29.6
6	49.1	49.8	50.2	47.4	49.4	50.0	52.4	51.4	48.1	38.5	37.2	34.9	34.0	32.2	31.0	30.7	31.2	33.3	38.3	40.8	41.8	44.5	45.9	45.5	42.0	52.4	30.7
7	48.3	50.1	51.1	62.3	60.0	64.0	71.6	66.4	54.0	49.9	42.6	37.4	33.3	30.1	30.6	30.6	28.6	29.1	33.1	35.5	40.4	51.8	56.7	60.6	46.6	71.6	28.6
8	64.8	72.8	72.5	72.7	75.3	77.3	85.2	84.6	71.9	59.4	56.9	42.8	36.9	33.7	27.2	24.5	25.7	28.3	31.3	34.1	37.8	43.8	53.4	55.5	52.8	85.2	24.5
9	57.9	61.8	66.2	64.3	63.5	68.2	68.3	71.8	64.1	53.0	48.6	44.3	40.1	38.3	36.1	33.5	36.2	42.8	51.8	56.8	65.4	67.3	72.5	75.6	56.2	75.6	33.5
10	79.1	81.9	89.1	92.0	92.9	96.8	98.5	90.2	77.6	67.1	61.7	53.9	45.0	38.6	31.2	28.4	29.3	33.8	37.3	42.4	45.8	48.0	47.3	48.9	60.7	98.5	28.4
11	59.3	53.1	53.9	55.6	63.2	59.5	66.4	65.9	57.7	52.3	41.8	36.7	36.3	37.0	41.6	73.3	88.6	82.1	77.8	86.3	82.5	81.8	84.5	87.0	63.5	88.6	36.3
12	84.7	91.8	87.9	90.1	84.6	83.1	78.8	75.2	71.4	70.0	63.4	61.9	55.2	53.2	54.9	54.4	51.6	54.7	55.2	57.3	61.3	65.1	70.4	69.3	68.6	91.8	51.6
13	67.7	72.1	77.9	84.0	82.8	79.7	83.8	83.9	78.0	70.4	56.0	45.9	42.3	36.9	34.4	31.5	37.3	43.9	44.7	46.1	51.4	50.7	50.6	52.5	58.5	84.0	31.5
14	54.7	54.8	58.4	56.8	55.6	53.7	53.9	53.8	48.5	39.8	33.2	31.7	18.3	20.4	20.0	22.9	25.0	27.9	32.7	36.0	36.2	43.6	53.1	51.3	40.9	58.4	18.3
15	54.5	56.2	60.0	64.8	66.7	67.4	69.8	69.8	74.8	69.3	64.7	52.6	41.8	41.0	51.0	66.2	76.3	73.6	73.9	81.8	87.5	83.9	84.2	82.1	67.2	87.5	41.0
16	78.2	81.1	82.2	81.0	76.6	78.2	81.4	79.2	71.8	66.3	54.8	49.7	45.8	40.6	43.5	43.7	44.2	45.4	52.6	56.7	66.5	74.7	75.9	77.4	64.5	82.2	40.6
17	80.6	82.9	85.3	85.4	88.5	90.2	91.2	83.1	77.2	71.5	63.7	52.2	47.0	40.2	30.9	28.0	29.0	36.3	44.2	46.0	53.6	59.0	59.6	64.6	62.1	91.2	28.0
18	67.3	65.8	69.4	69.3	71.3	74.5	74.0	74.3	71.2	59.7	50.4	40.1	35.6	35.4	34.8	36.4	39.9	49.6	54.6	57.1	57.3	64.1	72.1	76.4	58.4	76.4	34.8
19	78.9	82.9	88.1	89.4	91.4	90.3	93.1	90.1	79.4	70.0	61.0	54.1	46.2	40.5	34.8	31.0	30.5	39.5	45.4	55.7	59.8	63.0	64.3	68.5	64.5	93.1	30.5
20	71.9	74.7	77.6	76.8	78.8	82.1	85.2	79.8	68.0	61.0	52.2	39.9	31.2	28.2	22.4	24.0	23.6	24.1	31.4	35.4	37.6	40.2	51.3	50.6	52.0	85.2	22.4
21	47.9	57.7	54.9	60.6	66.0	62.0	72.3	80.9	91.4	91.8	89.5	89.7	89.1	89.2	90.5	86.6	81.5	81.1	76.9	77.3	77.1	80.1	84.0	84.3	77.6	91.8	47.9
22	83.1	82.2	80.5	84.4	92.7	94.2	98.0	98.5	86.5	77.3	67.6	60.0	53.8	48.8	45.5	39.6	42.5	51.2	54.4	55.8	56.9	58.9	57.5	55.4	67.7	98.5	39.6
23	57.7	59.1	53.2	58.1	53.8	53.3	55.6	58.5	63.3	62.8	57.5	53.1	46.7	44.2	41.6	50.9	56.0	57.6	78.6	69.7	76.9	82.7	81.9	73.5	60.3	82.7	41.6
24	69.3	77.2	84.2	82.0	85.7	83.4	82.0	84.6	92.1	89.1	86.6	84.9	81.4	76.3	74.9	77.0	84.6	91.8	91.1	91.7	96.4	98.2	99.3	99.1	86.0	99.3	69.3
25	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.1	97.5	94.7	91.8	87.4	86.8	84.6	90.8	89.0	87.1	87.6	94.2	92.4	69.8	93.8	99.8	69.8
26	51.8	50.4	62.2	68.1	80.0	71.5	71.4	69.2	70.9	72.1	74.5	75.2	62.4	56.0	56.3	57.0	69.1	74.7	67.0	67.4	69.5	72.2	69.5	68.6	67.0	80.0	50.4
27	68.0	67.3	71.3	75.5	72.3	77.6	76.6	73.2	70.1	66.0	63.0	56.7	64.6	63.3	51.2	49.6	50.7	54.5	57.6	61.9	64.5	67.4	72.1	74.7	65.4	77.6	49.6
28	76.7	78.3	87.7	87.8	87.5	90.7	94.0	89.8	82.8	75.0	68.9	60.3	49.4	44.7	42.5	44.2	49.1	48.7	52.4	56.7	63.2	74.5	81.9	89.4	69.8	94.0	42.5
29	88.8	89.6	90.5	88.2	89.6	87.3	88.4	88.8	79.5	85.3	77.9	76.5	70.8	60.2	61.0	61.8	62.0	67.0	71.4	72.8	75.1	83.0	84.5	88.8	78.7	90.5	60.2
30	88.4	91.2	90.3	86.9	88.2	87.9	89.2	91.7	90.4	82.1	76.0	65.0	60.3	57.0	55.9	58.4	63.2	68.9	67.1	70.7	75.7	77.5	81.9	86.6	77.1	91.7	55.9
31	87.1	87.3	92.1	93.6	94.6	96.2	96.7	96.2	90.8	92.9	81.7	69.4	54.8	46.4	45.4	46.2	54.1	49.8	54.2	60.6	72.9	72.3	70.7	82.3	74.5	96.7	45.4
Avg	68.9	71.0	73.2	74.9	76.0	76.5	78.1	76.5	71.4	66.0	59.9	53.8	48.3	44.6	42.7	44.5	47.1	50.5	53.7	56.8	60.5	64.3	67.2	68.5	62.3	83.7	38.4
Max	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.1	97.5	94.7	91.8	90.5	86.8	88.6	91.8	91.1	91.7	96.4	98.2	99.3	99.1	93.8	99.8	69.8
Min	47.9	49.8	50.2	47.4	49.4	50.0	52.4	51.4	48.1	38.5	33.2	31.4	18.3	20.4	14.3	13.0	17.0	21.3	24.0	27.5	29.4	32.6	41.5	45.5	40.9	52.4	13.0

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	82.6	82.0	83.5	83.8	88.6	87.8	88.0	88.1	82.7	76.1	75.0	68.9	67.0	66.1	68.1	66.8	76.7	86.9	88.4	90.7	86.4	84.8	86.8	87.9	81.0	90.7	66.1
2	91.6	93.5	95.3	96.5	94.2	94.3	93.2	93.3	93.1	92.2	88.8	84.6	82.6	79.5	74.8	65.6	62.8	64.9	67.3	70.0	71.3	69.0	71.0	67.6	81.5	96.5	62.8
3	70.4	69.9	67.3	69.3	71.5	69.2	71.3	74.4	74.6	71.6	61.7	54.5	57.3	57.6	58.0	59.6	64.4	67.9	70.9	73.1	73.3	72.5	71.8	73.3	67.7	74.6	54.5
4	75.1	76.6	71.3	69.8	69.8	77.6	77.0	68.7	62.3	60.2	60.1	60.9	61.5	59.4	71.8	79.5	77.2	78.5	74.5	74.7	78.3	80.4	81.9	78.7	71.9	81.9	59.4
5	79.1	73.8	70.0	70.5	70.7	72.0	72.9	72.8	73.0	70.7	65.5	60.3	59.5	59.7	60.1	61.4	64.5	65.6	65.6	64.4	72.3	75.9	78.9	77.2	69.0	79.1	59.5
6	78.1	76.4	79.4	78.7	79.7	78.2	77.9	79.9	80.4	82.8	72.8	69.6	60.6	56.1	46.1	40.2	43.4	43.2	40.3	40.7	61.3	81.4	89.9	88.6	67.7	89.9	40.2
7	82.7	82.6	74.1	62.5	58.4	56.2	55.8	56.6	55.5	58.9	58.2	56.2	55.7	55.0	56.4	56.9	59.0	61.9	64.2	66.0	69.3	75.9	80.6	86.5	64.4	86.5	55.0
8	88.3	88.6	90.2	97.2	98.3	97.8	98.6	98.8	93.4	88.6	86.4	81.5	75.2	67.6	57.1	55.0	59.6	57.3	65.4	68.1	75.3	79.1	83.4	81.0	80.5	98.8	55.0
9	84.8	85.0	84.2	69.7	72.7	58.6	53.4	57.1	75.4	73.0	55.2	64.3	81.7	88.7	91.8	91.3	92.0	91.2	91.7	89.2	85.8	86.4	93.2	91.6	79.5	93.2	53.4
10	90.8	90.0	88.9	88.5	88.3	88.0	87.6	87.4	87.2	87.2	86.7	85.8	81.9	78.7	75.7	75.8	56.6	57.6	57.5	62.6	66.4	75.8	72.9	72.3	78.8	90.8	56.6
11	68.7	68.4	65.5	64.0	64.3	65.2	64.2	62.9	58.2	52.9	50.1	47.0	45.6	45.8	47.9	50.6	55.7	60.9	63.9	63.6	64.6	67.6	68.3	69.3	59.8	69.3	45.6
12	70.6	70.2	68.6	68.9	76.2	75.5	78.5	80.1	65.6	60.6	54.3	53.0	49.8	49.0	49.8	50.4	61.5	68.6	71.4	74.2	77.1	79.6	81.2	80.7	67.3	81.2	49.0
13	82.5	82.0	82.5	81.1	80.9	80.0	80.0	79.7	74.6	71.2	68.3	65.0	57.2	56.6	57.0	58.5	69.4	72.0	75.6	77.6	79.7	81.6	83.1	83.2	74.1	83.2	56.6
14	80.8	80.4	80.5	80.8	80.5	81.0	80.8	79.3	79.3	75.7	72.3	66.8	63.8	61.8	67.8	74.6	74.2	65.1	56.9	52.6	49.5	51.9	57.1	64.5	69.9	81.0	49.5
15	68.4	68.2	71.9	78.1	79.3	80.5	82.0	80.9	70.1	61.1	58.0	56.9	56.8	56.8	53.8	52.7	59.3	66.2	71.4	74.9	76.4	75.1	80.7	78.0	69.1	82.0	52.7
16	78.4	80.0	79.8	77.6	73.9	75.0	74.2	73.4	72.7	63.6	61.9	59.3	56.1	55.6	57.6	55.6	63.3	66.5	68.8	73.4	80.7	82.6	82.1	83.0	70.6	83.0	55.6
17	86.3	83.1	84.6	86.0	85.9	84.3	83.5	83.8	79.6	73.4	66.9	68.5	66.2	64.2	61.2	58.0	68.7	73.1	75.3	78.9	82.0	84.3	84.3	86.5	77.0	86.5	58.0
18	85.7	85.7	85.6	86.7	84.7	85.5	84.7	85.1	83.6	80.7	77.9	71.6	65.4	64.5	65.4	64.1	73.0	73.4	75.0	75.8	77.9	73.9	75.8	79.7	77.6	86.7	64.1
19	78.7	82.8	86.1	88.8	91.8	92.0	92.5	90.5	85.3	77.1	73.4	71.0	68.2	65.6	68.3	67.0	76.0	81.6	81.8	85.7	87.4	89.6	89.1	90.1	81.7	92.5	65.6
20	89.2	91.3	93.4	92.7	90.6	90.3	89.4	90.5	88.2	83.4	77.8	77.4	72.3	67.7	71.9	73.6	77.7	76.3	75.4	78.7	78.0	80.2	78.1	77.5	81.7	93.4	67.7
21	76.9	87.6	88.9	86.5	86.1	87.1	87.0	88.9	83.0	71.8	71.6	75.6	72.0	69.2	67.7	67.2	66.2	73.5	71.3	71.7	74.4	67.8	68.1	69.2	76.2	88.9	66.2
22	75.5	74.2	77.4	77.2	82.2	85.0	84.2	77.9	69.6	56.8	60.7	63.6	51.1	47.2	50.8	53.9	61.6	67.5	70.7	65.3	64.7	77.6	82.1	76.2	68.9	85.0	47.2
23	72.0	74.7	69.0	66.1	65.2	66.8	64.3	68.2	69.1	63.6	57.4	56.1	56.0	57.6	57.2	58.5	61.6	66.1	71.8	92.3	98.4	98.2	94.7	86.0	70.5	98.4	56.0
24	74.9	81.8	76.5	71.9	70.7	68.7	67.9	68.5	67.5	63.3	57.6	52.6	48.5	48.6	51.4	50.9	54.4	63.0	83.6	83.0	80.0	73.4	67.9	72.4	66.6	83.6	48.5
25	80.1	81.9	85.3	87.4	88.0	90.4	93.3	92.9	91.0	91.3	93.4	93.5	93.8	92.7	89.6	92.3	94.8	97.1	98.1	98.1	98.5	98.7	98.7	98.7	92.5	98.7	80.1
26	98.7	98.6	98.5	98.5	98.4	98.5	98.5	98.5	98.6	97.4	93.1	89.7	88.1	83.9	83.5	76.4	79.3	79.3	82.6	88.2	85.1	89.7	96.7	97.6	91.6	98.7	76.4
27	99.1	99.7	98.9	96.8	84.0	85.2	68.8	74.1	66.9	67.1	64.3	63.9	61.9	59.6	56.4	54.7	65.0	74.2	73.6	72.0	70.9	70.1	71.7	69.2	73.7	99.7	54.7
28	69.0	70.8	68.9	70.9	72.6	76.9	74.1	78.0	81.1	77.5	72.5	68.9	65.1	64.3	64.7	60.7	62.5	68.4	65.9	65.4	64.2	65.8	74.4	79.6	70.1	81.1	60.7
29	85.6	83.4	79.0	73.4	72.9	80.0	88.6	94.4	88.4	82.8	70.8	67.4	68.3	65.5	64.4	63.5	76.3	86.2	87.8	87.7	84.8	85.7	86.4	85.3	79.5	94.4	63.5
30	85.1	85.0	84.7	84.4	83.9	83.8	84.4	83.8	82.6	79.5	77.5	76.0	72.6	69.6	68.3	65.4	78.2	81.7	84.0	85.8	87.9	87.0	86.0	84.6	80.9	87.9	65.4
Avg	81.0	81.6	81.0	80.1	80.1	80.4	79.9	80.3	77.8	73.7	69.7	67.7	65.4	63.8	63.8	63.4	67.8	71.2	73.0	74.8	76.7	78.7	80.6	80.5	74.7	87.9	58.2
Max	99.1	99.7	98.9	98.5	98.4	98.5	98.6	98.8	98.6	97.4	93.4	93.5	93.8	92.7	91.8	92.3	94.8	97.1	98.1	98.1	98.5	98.7	98.7	98.7	92.5	99.7	80.1
Min	68.4	68.2	65.5	62.5	58.4	56.2	53.4	56.6	55.5	52.9	50.1	47.0	45.6	45.8	46.1	40.2	43.4	43.2	40.3	40.7	49.5	51.9	57.1	64.5	59.8	69.3	40.2

Montana Limestone Resources
Drummond Air Monitoring Summary
Relative Humidity (% RH)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	83.9	84.6	83.0	83.4	82.9	81.5	81.8	81.4	80.2	80.9	81.8	82.2	81.9	81.3	81.3	80.6	81.1	83.2	84.9	87.2	88.2	88.6	89.4	89.9	83.5	89.9	80.2
2	93.2	90.7	84.8	79.1	77.4	75.3	79.5	77.0	76.1	69.0	66.0	67.5	64.9	60.1	58.2	59.2	61.6	73.7	76.2	79.9	84.3	83.5	83.4	89.2	75.4	93.2	58.2
3	88.3	87.9	88.9	90.5	91.0	90.4	89.7	88.6	88.0	86.5	83.7	72.4	68.7	69.6	70.7	71.8	75.7	79.0	76.8	75.6	80.3	82.9	81.9	82.4	81.7	91.0	68.7
4	81.9	78.1	81.9	87.8	91.0	91.0	91.5	90.6	89.0	86.2	85.1	83.3	79.5	78.5	80.9	86.2	89.0	89.3	88.2	89.5	92.0	92.1	90.1	93.1	86.9	93.1	78.1
5	93.3	91.3	93.3	93.5	94.4	94.2	94.0	95.0	94.1	89.8	86.0	83.6	81.5	81.7	83.1	83.3	88.5	93.5	92.6	96.2	97.7	98.7	99.4	99.7	91.6	99.7	81.5
6	99.3	99.2	98.6	98.0	97.5	97.0	96.5	96.3	95.9	96.4	96.2	96.4	96.8	97.8	95.8	97.6	93.0	99.2	95.2	97.9	90.8	93.7	95.2	92.0	96.3	99.3	90.8
7	86.8	86.4	84.4	86.7	82.9	88.1	82.6	81.1	83.8	79.7	69.9	67.1	71.4	72.8	72.5	74.8	80.3	77.7	84.6	86.7	96.8	89.4	92.4	93.2	82.2	96.8	67.1
8	88.9	90.0	94.5	96.5	97.0	98.7	98.1	96.7	96.5	91.1	86.1	86.2	86.7	81.2	82.5	80.5	89.0	87.8	87.5	91.1	92.9	94.6	94.7	94.4	91.0	98.7	80.5
9	97.2	98.7	98.9	98.9	99.1	99.0	97.5	96.1	95.6	93.1	84.3	83.9	81.5	83.6	87.5	87.9	89.1	87.2	86.0	87.6	86.8	80.7	77.9	83.0	90.0	99.1	77.9
10	86.9	86.9	89.4	84.4	81.6	83.7	84.1	83.2	84.8	78.5	77.0	70.0	65.6	67.8	64.1	61.6	59.8	60.6	67.3	72.6	71.7	68.5	61.2	63.0	73.9	89.4	59.8
11	62.2	58.8	63.0	61.9	62.4	72.7	74.4	74.5	73.9	78.4	73.9	69.5	69.2	74.5	65.8	69.0	67.0	59.8	61.5	59.3	66.0	67.8	64.0	60.0	67.1	78.4	58.8
12	58.0	54.4	62.0	64.6	70.6	75.0	74.7	72.0	73.4	64.4	61.6	61.2	60.8	68.3	61.8	67.2	65.0	64.8	71.3	72.1	76.5	78.7	79.5	81.1	68.3	81.1	54.4
13	83.9	83.0	82.3	79.5	79.3	83.7	92.2	93.3	94.6	94.3	94.5	94.0	92.8	92.5	93.2	95.8	96.8	95.1	95.9	97.0	95.3	93.5	91.1	89.0	90.9	97.0	79.3
14	87.5	86.2	88.5	86.7	91.4	87.2	89.7	90.3	92.6	90.9	90.7	89.1	92.1	90.9	91.2	94.6	90.1	89.1	94.7	91.6	91.5	91.4	92.3	93.1	90.6	94.7	86.2
15	92.1	95.2	96.7	96.7	92.7	91.0	91.3	93.1	88.3	81.5	77.5	78.3	73.8	73.4	73.3	73.2	84.5	89.5	92.1	92.9	93.8	91.8	91.2	90.2	87.3	96.7	73.2
16	90.0	89.1	88.9	88.1	88.0	88.3	88.6	88.4	88.5	88.5	88.7	87.5	86.9	82.2	80.0	82.6	85.1	88.1	87.6	87.3	88.2	88.3	87.8	89.0	87.3	90.0	80.0
17	90.0	91.1	91.2	90.4	90.1	90.6	89.4	88.8	88.0	86.1	79.9	75.2	66.3	66.5	70.4	74.3	85.2	87.2	90.8	94.9	95.8	93.6	94.0	94.5	86.0	95.8	66.3
18	94.1	95.1	95.4	93.6	94.4	94.1	93.6	94.4	93.1	Au	Au	Ca	Ca	79.6	82.6	85.2	88.0	89.3	89.3	87.2	88.0	89.7	90.9	89.9	90.4	95.4	79.6
19	88.8	94.5	93.3	94.8	94.3	94.6	95.0	96.3	96.0	89.7	86.6	84.1	83.6	85.0	84.7	87.8	88.6	90.0	91.9	90.4	90.3	92.7	88.0	88.1	90.4	96.3	83.6
20	83.1	91.3	90.7	85.1	86.4	91.3	97.4	95.3	93.8	93.1	90.9	88.0	80.1	84.3	77.4	85.4	88.2	91.5	91.7	92.4	88.7	90.3	89.1	86.6	88.8	97.4	77.4
21	81.8	86.2	85.1	91.0	92.9	92.9	96.0	96.4	85.2	82.2	79.2	75.1	72.3	76.4	80.4	82.7	74.2	69.8	68.5	69.1	68.5	68.7	69.2	74.0	79.9	96.4	68.5
22	85.2	92.3	84.4	76.7	73.9	79.9	81.4	74.0	76.7	71.5	66.2	67.4	63.0	71.3	67.9	62.5	63.4	67.7	70.4	68.0	65.8	67.1	70.7	72.2	72.5	92.3	62.5
23	72.1	70.5	68.1	64.7	67.8	68.0	73.7	77.1	78.9	75.4	69.2	66.1	65.9	62.3	62.1	64.3	63.8	58.0	65.6	69.0	73.2	72.2	72.5	65.3	68.6	78.9	58.0
24	70.4	75.3	74.6	72.9	71.8	68.8	69.0	70.0	69.6	65.2	63.5	63.7	69.2	77.2	90.1	95.4	94.1	93.5	94.2	95.1	92.9	94.6	94.9	96.6	80.1	96.6	63.5
25	97.1	92.7	77.6	81.3	87.3	88.8	88.5	90.6	90.1	87.7	74.1	78.1	80.9	72.9	73.0	77.8	85.5	85.7	84.9	86.8	88.3	89.0	88.1	92.2	85.0	97.1	72.9
26	85.9	84.0	83.3	82.9	83.6	79.9	82.9	86.5	83.6	82.0	76.9	67.0	66.0	63.8	66.6	68.6	69.5	73.3	78.5	79.6	81.7	85.7	80.3	76.1	77.8	86.5	63.8
27	73.6	70.8	70.3	76.4	77.9	75.1	74.5	75.8	79.8	74.6	68.1	66.8	61.2	62.0	69.8	75.2	78.1	77.7	79.4	76.4	75.6	76.1	77.7	78.4	73.8	79.8	61.2
28	79.8	79.0	79.8	82.4	83.6	92.9	88.4	82.8	81.6	81.4	83.2	88.3	91.2	82.4	85.0	84.7	73.5	69.3	69.3	71.7	73.6	71.4	70.5	68.8	79.8	92.9	68.8
29	68.8	75.5	78.1	77.8	81.4	76.8	75.3	75.8	73.3	69.3	64.0	63.5	61.4	60.5	59.9	59.7	58.7	57.1	63.4	56.6	53.3	57.4	59.7	60.7	66.2	81.4	53.3
30	61.9	63.6	64.0	65.6	63.8	67.3	75.6	74.9	71.7	61.0	57.1	57.8	52.0	55.6	50.4	52.9	60.1	61.5	62.6	65.8	69.2	72.1	70.3	69.7	63.6	75.6	50.4
31	68.7	68.3	66.8	70.2	73.0	71.6	72.5	74.1	76.2	61.4	56.4	57.5	55.0	56.4	57.2	55.8	60.2	64.2	65.4	68.2	68.8	73.0	73.1	77.1	66.3	77.1	55.0
Avg	83.1	83.6	83.3	83.3	83.9	84.8	85.8	85.5	84.9	81.0	77.3	75.7	74.1	74.6	74.8	76.7	78.3	79.1	80.9	81.8	82.8	83.2	82.6	83.0	81.0	91.2	69.7
Max	99.3	99.2	98.9	98.9	99.1	99.0	98.1	96.7	96.5	96.4	96.2	96.4	96.8	97.8	95.8	97.6	96.8	99.2	95.9	97.9	97.7	98.7	99.4	99.7	96.3	99.7	90.8
Min	58.0	54.4	62.0	61.9	62.4	67.3	69.0	70.0	69.6	61.0	56.4	57.5	52.0	55.6	50.4	52.9	58.7	57.1	61.5	56.6	53.3	57.4	59.7	60.0	63.6	75.6	50.4

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	Ca	Ca	Ca	Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000
15	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
16	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Sulfur Dioxide Concentration (parts per million)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.001	AZ	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	PZ	PZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	AZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
October 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	25.96	25.96	25.96	25.97	25.98	26.00	26.01	26.03	26.04	26.04	26.04	26.03	26.02	26.01	26.01	26.01	26.03	26.05	26.05	26.05	26.05	26.05	26.04	26.03	26.02	26.05	25.96
2	26.03	26.04	26.04	26.04	26.04	26.03	26.03	26.05	26.06	26.09	26.10	26.11	26.11	26.12	26.15	26.17	26.21	26.25	26.28	26.31	26.34	26.35	26.36	26.36	26.15	26.36	26.03
3	26.36	26.37	26.37	26.37	26.38	26.39	26.40	26.40	26.40	26.38	26.37	26.34	26.32	26.28	26.26	26.24	26.23	26.23	26.23	26.23	26.22	26.22	26.23	26.23	26.31	26.40	26.22
4	26.23	26.22	26.22	26.21	26.21	26.20	26.19	26.19	26.19	26.17	26.15	26.14	26.12	26.10	26.08	26.07	26.07	26.07	26.08	26.08	26.09	26.09	26.09	26.10	26.14	26.23	26.07
5	26.10	26.11	26.11	26.11	26.11	26.12	26.12	26.12	26.13	26.12	26.11	26.09	26.07	26.05	26.04	26.02	26.02	26.02	26.02	26.04	26.04	26.04	26.03	26.03	26.07	26.13	26.02
6	26.03	26.03	26.02	26.02	26.02	26.02	26.03	26.02	26.02	26.03	26.01	25.99	25.97	25.95	25.93	25.92	25.92	25.93	25.94	25.95	25.96	25.98	25.99	25.99	25.99	26.03	25.92
7	25.99	25.99	25.99	25.99	25.99	26.00	26.00	26.01	26.01	26.01	25.99	25.98	25.96	25.94	25.93	25.92	25.92	25.92	25.92	25.93	25.94	25.96	25.97	25.97	25.97	26.01	25.92
8	25.97	25.97	25.98	25.98	25.99	25.99	26.00	26.02	26.02	26.01	26.01	26.00	25.98	25.95	25.93	25.92	25.92	25.93	25.94	25.96	25.97	25.99	26.00	26.01	25.98	26.02	25.92
9	26.02	26.03	26.03	26.02	26.03	26.04	26.04	26.05	26.06	26.06	26.05	26.04	26.03	26.01	26.00	25.99	25.99	26.00	26.02	26.03	26.04	26.05	26.06	26.07	26.03	26.07	25.99
10	26.07	26.08	26.08	26.08	26.09	26.09	26.10	26.11	26.11	26.10	26.08	26.05	26.03	26.00	25.97	25.96	25.95	25.96	25.97	25.97	25.99	26.00	26.00	25.99	26.03	26.11	25.95
11	25.99	25.98	25.98	25.97	25.97	25.97	25.96	25.96	25.95	25.93	25.91	25.88	25.86	25.82	25.80	25.81	25.85	25.86	25.86	25.90	25.89	25.90	25.89	25.90	25.91	25.99	25.80
12	25.92	25.96	25.98	25.99	26.00	26.02	26.04	26.07	26.09	26.10	26.11	26.12	26.11	26.11	26.11	26.12	26.12	26.14	26.15	26.16	26.16	26.16	26.15	26.14	26.08	26.16	25.92
13	26.15	26.15	26.14	26.13	26.12	26.11	26.12	26.12	26.12	26.11	26.10	26.09	26.07	26.05	26.03	26.01	26.00	25.98	25.97	25.97	25.95	25.95	25.94	25.94	26.06	26.15	25.94
14	25.92	25.91	25.91	25.90	25.90	25.90	25.90	25.90	25.89	25.87	25.85	25.83	25.80	25.78	25.77	25.76	25.76	25.77	25.79	25.80	25.81	25.79	25.78	25.77	25.84	25.92	25.76
15	25.76	25.74	25.73	25.71	25.71	25.70	25.69	25.69	25.68	25.67	25.66	25.64	25.64	25.63	25.66	25.72	25.80	25.85	25.87	25.90	25.93	25.96	25.98	26.00	25.76	26.00	25.63
16	26.02	26.05	26.06	26.08	26.09	26.11	26.10	26.09	26.10	26.10	26.10	26.09	26.08	26.06	26.06	26.05	26.06	26.06	26.05	26.06	26.08	26.08	26.09	26.09	26.08	26.11	26.02
17	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.11	26.10	26.09	26.06	26.04	26.01	25.98	25.96	25.94	25.93	25.95	25.95	25.96	25.96	25.96	25.97	25.97	26.03	26.11	25.93
18	25.98	25.98	25.98	25.98	25.99	26.00	26.01	26.02	26.03	26.03	26.02	26.01	26.01	26.00	26.00	26.01	26.02	26.02	26.03	26.04	26.04	26.05	26.06	26.07	26.02	26.07	25.98
19	26.07	26.08	26.08	26.08	26.08	26.08	26.08	26.09	26.09	26.08	26.06	26.04	26.01	25.97	25.95	25.93	25.92	25.92	25.93	25.94	25.94	25.95	25.95	25.95	26.01	26.09	25.92
20	25.95	25.96	25.96	25.96	25.96	25.96	25.95	25.96	25.96	25.95	25.92	25.89	25.84	25.80	25.78	25.76	25.75	25.75	25.74	25.74	25.74	25.75	25.75	25.75	25.86	25.96	25.74
21	25.76	25.77	25.75	25.74	25.75	25.73	25.75	25.75	25.79	25.80	25.81	25.85	25.85	25.88	25.90	25.92	25.94	25.95	25.97	25.98	25.99	26.01	26.01	26.02	25.86	26.02	25.73
22	26.02	26.02	26.01	26.02	26.04	26.04	26.04	26.04	26.04	26.04	26.02	26.00	25.99	25.96	25.94	25.93	25.94	25.95	25.95	25.95	25.94	25.92	25.91	25.91	25.98	26.04	25.91
23	25.90	25.91	25.90	25.89	25.89	25.88	25.89	25.90	25.91	25.91	25.90	25.89	25.87	25.86	25.86	25.88	25.88	25.89	25.92	25.93	25.94	25.96	25.96	25.97	25.90	25.97	25.86
24	25.97	25.99	26.00	26.01	26.03	26.04	26.06	26.08	26.10	26.10	26.11	26.10	26.09	26.07	26.07	26.06	26.06	26.07	26.06	26.06	26.06	26.06	26.05	26.05	26.06	26.11	25.97
25	26.04	26.03	26.02	26.00	25.98	25.97	25.96	25.95	25.94	25.92	25.90	25.88	25.85	25.83	25.80	25.77	25.75	25.74	25.72	25.72	25.73	25.73	25.72	25.71	25.86	26.04	25.71
26	25.69	25.69	25.71	25.76	25.80	25.80	25.80	25.82	25.84	25.85	25.86	25.86	25.86	25.83	25.83	25.84	25.86	25.87	25.89	25.90	25.90	25.91	25.92	25.93	25.83	25.93	25.69
27	25.94	25.95	25.97	25.97	25.98	25.99	25.99	26.00	26.02	26.03	26.03	26.03	26.04	26.03	26.04	26.05	26.06	26.07	26.08	26.09	26.10	26.12	26.12	26.12	26.03	26.12	25.94
28	26.12	26.12	26.13	26.13	26.13	26.14	26.14	26.15	26.15	26.14	26.12	26.11	26.08	26.06	26.05	26.03	26.03	26.03	26.04	26.04	26.03	26.04	26.03	26.03	26.09	26.15	26.03
29	26.02	26.03	26.02	26.03	26.04	26.06	26.07	26.08	26.09	26.11	26.12	26.12	26.13	26.12	26.13	26.14	26.15	26.16	26.17	26.18	26.20	26.21	26.22	26.23	26.12	26.23	26.02
30	26.23	26.24	26.24	26.23	26.22	26.22	26.22	26.22	26.22	26.21	26.21	26.19	26.16	26.13	26.11	26.09	26.08	26.07	26.06	26.05	26.03	26.02	26.01	25.99	26.14	26.24	25.99
31	25.98	25.96	25.95	25.93	25.91	25.90	25.89	25.88	25.87	25.86	25.84	25.82	25.78	25.76	25.75	25.75	25.76	25.77	25.77	25.78	25.78	25.79	25.79	25.78	25.84	25.98	25.75
Avg	26.01	26.01	26.01	26.01	26.02	26.02	26.02	26.03	26.03	26.03	26.02	26.01	25.99	25.97	25.96	25.96	25.97	25.98	25.98	25.99	25.99	26.00	26.00	26.00	26.00	26.09	25.91
Max	26.36	26.37	26.37	26.37	26.38	26.39	26.40	26.40	26.40	26.38	26.37	26.34	26.32	26.28	26.26	26.24	26.23	26.25	26.28	26.31	26.34	26.35	26.36	26.36	26.31	26.40	26.22
Min	25.69	25.69	25.71	25.71	25.71	25.70	25.69	25.69	25.68	25.67	25.66	25.64	25.64	25.63	25.66	25.72	25.75	25.74	25.72	25.72	25.73	25.73	25.72	25.71	25.76	25.92	25.63

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
November 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	25.77	25.77	25.75	25.74	25.73	25.73	25.71	25.71	25.70	25.67	25.64	25.62	25.58	25.55	25.53	25.54	25.58	25.58	25.59	25.55	25.57	25.59	25.60	25.61	25.64	25.77	25.53
2	25.61	25.65	25.68	25.70	25.73	25.76	25.79	25.82	25.85	25.87	25.89	25.91	25.93	25.94	25.95	25.96	25.98	26.01	26.03	26.04	26.06	26.07	26.07	26.07	25.89	26.07	25.61
3	26.07	26.08	26.08	26.09	26.09	26.10	26.12	26.13	26.15	26.14	26.15	26.13	26.12	26.12	26.11	26.12	26.14	26.14	26.15	26.15	26.15	26.16	26.16	26.16	26.13	26.16	26.07
4	26.15	26.14	26.14	26.12	26.11	26.09	26.07	26.07	26.07	26.07	26.06	26.04	26.02	26.02	26.05	26.03	26.02	26.04	26.06	26.07	26.09	26.11	26.12	26.13	26.08	26.15	26.02
5	26.15	26.16	26.18	26.18	26.20	26.22	26.22	26.23	26.25	26.26	26.27	26.26	26.25	26.24	26.24	26.25	26.26	26.27	26.28	26.29	26.30	26.29	26.28	26.26	26.24	26.30	26.15
6	26.25	26.24	26.22	26.21	26.19	26.18	26.18	26.16	26.14	26.13	26.10	26.06	26.02	26.00	25.96	25.94	25.92	25.93	25.93	25.93	25.94	25.96	25.99	26.02	26.07	26.25	25.92
7	26.03	26.05	26.06	26.07	26.11	26.15	26.19	26.22	26.24	26.26	26.28	26.29	26.29	26.28	26.29	26.31	26.32	26.32	26.32	26.33	26.32	26.33	26.32	26.31	26.24	26.33	26.03
8	26.30	26.30	26.30	26.29	26.27	26.26	26.25	26.24	26.24	26.24	26.24	26.23	26.19	26.16	26.12	26.10	26.09	26.09	26.08	26.07	26.06	26.04	26.03	26.02	26.18	26.30	26.02
9	26.00	25.97	25.96	25.94	25.90	25.87	25.82	25.78	25.73	25.68	25.64	25.63	25.60	25.59	25.59	25.59	25.58	25.58	25.59	25.59	25.59	25.60	25.65	25.74	25.72	26.00	25.58
10	25.81	25.86	25.91	25.95	25.98	26.02	26.04	26.07	26.09	26.10	26.11	26.11	26.11	26.10	26.10	26.13	26.16	26.18	26.21	26.23	26.24	26.26	26.28	26.30	26.10	26.30	25.81
11	26.32	26.33	26.33	26.35	26.36	26.37	26.39	26.42	26.44	26.44	26.44	26.44	26.43	26.42	26.42	26.42	26.43	26.44	26.45	26.46	26.47	26.48	26.48	26.48	26.42	26.48	26.32
12	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.47	26.46	26.44	26.41	26.39	26.37	26.36	26.36	26.36	26.35	26.36	26.35	26.35	26.34	26.34	26.42	26.48	26.34
13	26.33	26.32	26.31	26.29	26.27	26.26	26.24	26.22	26.22	26.21	26.18	26.16	26.11	26.07	26.04	26.02	26.02	26.02	26.02	26.01	26.01	26.01	26.01	26.01	26.14	26.33	26.01
14	26.00	25.99	25.99	25.98	25.98	25.98	25.97	25.97	25.98	25.98	25.98	25.97	25.96	25.95	25.96	25.97	25.99	26.01	26.04	26.07	26.08	26.10	26.13	26.14	26.01	26.14	25.95
15	26.16	26.18	26.20	26.22	26.24	26.26	26.28	26.30	26.32	26.33	26.33	26.33	26.31	26.31	26.30	26.30	26.31	26.32	26.34	26.35	26.35	26.35	26.36	26.37	26.30	26.37	26.16
16	26.37	26.37	26.39	26.40	26.41	26.42	26.43	26.44	26.45	26.46	26.46	26.46	26.44	26.42	26.40	26.39	26.39	26.40	26.41	26.42	26.43	26.43	26.44	26.44	26.42	26.46	26.37
17	26.44	26.44	26.44	26.43	26.43	26.42	26.42	26.41	26.41	26.42	26.41	26.39	26.37	26.35	26.33	26.32	26.32	26.31	26.31	26.31	26.31	26.30	26.29	26.28	26.37	26.44	26.28
18	26.28	26.28	26.26	26.26	26.25	26.25	26.23	26.23	26.23	26.23	26.23	26.21	26.18	26.17	26.16	26.15	26.15	26.16	26.15	26.15	26.15	26.14	26.14	26.15	26.20	26.28	26.14
19	26.15	26.15	26.16	26.16	26.16	26.16	26.16	26.15	26.15	26.15	26.13	26.11	26.08	26.06	26.04	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.02	26.09	26.16	26.02
20	26.02	26.02	26.02	26.02	26.01	26.01	26.01	26.01	26.01	26.01	26.01	25.99	25.98	25.95	25.94	25.94	25.95	25.95	25.95	25.95	25.95	25.95	25.96	25.96	25.98	26.02	25.94
21	25.95	25.93	25.92	25.91	25.90	25.90	25.89	25.89	25.90	25.90	25.90	25.88	25.86	25.84	25.82	25.80	25.78	25.76	25.73	25.69	25.67	25.63	25.61	25.58	25.82	25.95	25.58
22	25.55	25.52	25.49	25.49	25.48	25.47	25.49	25.48	25.49	25.49	25.51	25.54	25.56	25.58	25.61	25.64	25.67	25.69	25.71	25.73	25.74	25.76	25.79	25.80	25.59	25.80	25.47
23	25.83	25.85	25.88	25.90	25.93	25.96	25.98	26.00	26.03	26.04	26.04	26.04	26.02	25.99	25.96	25.95	25.94	25.92	25.92	25.92	25.92	25.93	25.95	25.96	25.95	26.04	25.83
24	25.97	25.99	26.02	26.05	26.06	26.10	26.12	26.14	26.17	26.19	26.21	26.21	26.20	26.20	26.19	26.18	26.19	26.20	26.18	26.15	26.12	26.08	26.04	26.02	26.12	26.21	25.97
25	25.99	25.96	25.94	25.93	25.91	25.91	25.92	25.93	25.94	25.96	25.99	26.01	26.03	26.04	26.05	26.07	26.09	26.12	26.11	26.11	26.11	26.11	26.10	26.09	26.02	26.12	25.91
26	26.09	26.09	26.08	26.09	26.08	26.09	26.09	26.09	26.10	26.11	26.11	26.11	26.10	26.10	26.09	26.09	26.10	26.09	26.08	26.08	26.06	26.06	26.05	26.05	26.09	26.11	26.05
27	26.05	26.04	26.03	26.01	25.99	25.97	25.96	25.96	25.96	25.96	25.96	25.96	25.94	25.91	25.87	25.85	25.87	25.88	25.86	25.85	25.84	25.83	25.82	25.81	25.92	26.05	25.81
28	25.80	25.78	25.77	25.75	25.73	25.71	25.70	25.70	25.68	25.67	25.66	25.64	25.61	25.58	25.56	25.54	25.54	25.53	25.51	25.47	25.45	25.45	25.44	25.43	25.61	25.80	25.43
29	25.41	25.37	25.36	25.33	25.32	25.30	25.29	25.34	25.38	25.44	25.49	25.50	25.51	25.51	25.52	25.51	25.54	25.58	25.63	25.69	25.74	25.78	25.83	25.89	25.51	25.89	25.29
30	25.92	25.94	25.97	25.99	26.01	26.02	26.05	26.08	26.10	26.13	26.16	26.16	26.16	26.15	26.14	26.14	26.14	26.15	26.17	26.17	26.17	26.17	26.17	26.16	26.10	26.17	25.92
Avg	26.04	26.04	26.04	26.04	26.04	26.05	26.05	26.06	26.06	26.07	26.07	26.06	26.05	26.03	26.02	26.02	26.03	26.04	26.04	26.04	26.04	26.05	26.05	26.05	26.05	26.16	25.92
Max	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.48	26.47	26.46	26.46	26.44	26.42	26.42	26.42	26.43	26.44	26.45	26.46	26.47	26.48	26.48	26.48	26.42	26.48	26.37
Min	25.41	25.37	25.36	25.33	25.32	25.30	25.29	25.34	25.38	25.44	25.49	25.50	25.51	25.51	25.52	25.51	25.54	25.53	25.51	25.47	25.45	25.45	25.44	25.43	25.51	25.77	25.29

Montana Limestone Resources
Drummond Air Monitoring Summary
Barometric Pressure (InHg)
December 2014

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.15	26.14	26.14	26.12	26.11	26.11	26.10	26.10	26.10	26.10	26.09	26.07	26.04	26.01	25.98	25.95	25.95	25.95	25.95	25.96	25.97	25.98	25.99	25.99	26.04	26.15	25.95
2	26.00	26.00	26.01	26.01	26.01	26.02	26.04	26.06	26.07	26.08	26.08	26.07	26.05	26.05	26.05	26.03	26.05	26.07	26.08	26.07	26.08	26.08	26.07	26.07	26.05	26.08	26.00
3	26.07	26.05	26.04	26.04	26.02	26.01	26.00	25.99	25.99	25.98	25.98	25.97	25.95	25.94	25.93	25.92	25.94	25.94	25.93	25.92	25.92	25.91	25.90	25.89	25.97	26.07	25.89
4	25.88	25.87	25.87	25.87	25.86	25.85	25.85	25.85	25.85	25.86	25.87	25.88	25.87	25.87	25.87	25.89	25.91	25.93	25.94	25.96	25.97	25.97	25.99	26.00	25.90	26.00	25.85
5	26.02	26.02	26.04	26.05	26.05	26.06	26.07	26.09	26.10	26.12	26.13	26.12	26.12	26.12	26.12	26.13	26.14	26.15	26.16	26.16	26.15	26.15	26.14	26.14	26.11	26.16	26.02
6	26.14	26.14	26.13	26.12	26.11	26.10	26.10	26.09	26.09	26.09	26.08	26.06	26.04	26.06	26.07	26.08	26.09	26.09	26.09	26.09	26.10	26.12	26.13	26.15	26.10	26.15	26.04
7	26.16	26.18	26.20	26.21	26.21	26.21	26.22	26.24	26.25	26.27	26.28	26.27	26.24	26.23	26.21	26.22	26.24	26.25	26.25	26.26	26.26	26.26	26.25	26.25	26.23	26.28	26.16
8	26.24	26.23	26.23	26.23	26.22	26.22	26.22	26.22	26.22	26.22	26.23	26.21	26.19	26.18	26.16	26.15	26.17	26.17	26.17	26.17	26.17	26.16	26.16	26.16	26.20	26.24	26.15
9	26.16	26.16	26.16	26.16	26.14	26.14	26.14	26.14	26.14	26.14	26.12	26.09	26.07	26.06	26.04	26.04	26.04	26.05	26.03	26.03	26.04	26.06	26.06	26.06	26.09	26.16	26.03
10	26.05	26.05	26.05	26.04	26.04	26.03	26.01	26.01	26.01	26.01	26.00	25.98	25.95	25.93	25.90	25.89	25.87	25.86	25.85	25.83	25.82	25.79	25.77	25.76	25.94	26.05	25.76
11	25.75	25.74	25.75	25.76	25.77	25.77	25.77	25.77	25.77	25.76	25.75	25.73	25.70	25.68	25.67	25.68	25.69	25.69	25.70	25.71	25.73	25.73	25.73	25.72	25.73	25.77	25.67
12	25.72	25.71	25.72	25.73	25.72	25.73	25.73	25.74	25.75	25.76	25.75	25.73	25.70	25.69	25.67	25.67	25.68	25.69	25.70	25.71	25.72	25.72	25.73	25.73	25.72	25.76	25.67
13	25.73	25.73	25.74	25.75	25.77	25.81	25.85	25.86	25.88	25.89	25.92	25.92	25.92	25.93	25.94	25.97	26.00	26.02	26.03	26.04	26.05	26.06	26.08	26.08	25.92	26.08	25.73
14	26.08	26.09	26.09	26.10	26.10	26.11	26.12	26.12	26.13	26.15	26.15	26.15	26.14	26.14	26.14	26.15	26.16	26.17	26.17	26.18	26.18	26.19	26.19	26.20	26.14	26.20	26.08
15	26.19	26.19	26.19	26.20	26.19	26.19	26.19	26.18	26.18	26.19	26.19	26.17	26.15	26.14	26.13	26.12	26.12	26.11	26.10	26.10	26.10	26.10	26.09	26.09	26.15	26.20	26.09
16	26.07	26.07	26.07	26.06	26.04	26.03	26.03	26.03	26.02	26.03	26.03	26.00	25.98	25.97	25.96	25.96	25.96	25.97	25.97	25.97	25.97	25.97	25.96	25.97	26.00	26.07	25.96
17	25.96	25.96	25.96	25.96	25.95	25.95	25.95	25.95	25.95	25.96	25.96	25.95	25.92	25.91	25.90	25.91	25.92	25.93	25.94	Au	25.97	25.98	25.98	25.98	25.95	25.98	25.90
18	25.98	25.97	25.98	25.99	25.98	25.99	25.99	26.00	26.00	26.01	26.01	26.00	25.99	25.98	25.98	25.98	25.99	26.00	25.99	25.99	25.99	25.99	25.98	25.99	25.99	26.01	25.97
19	25.99	25.98	25.98	25.98	25.97	25.97	25.96	25.95	25.95	25.95	25.94	25.92	25.90	25.89	25.89	25.89	25.90	25.90	25.91	25.93	25.94	25.95	25.95	25.96	25.94	25.99	25.89
20	25.97	25.97	25.96	25.97	25.97	25.97	25.96	25.96	25.94	25.94	25.93	25.90	25.87	25.85	25.83	25.81	25.80	25.78	25.76	25.74	25.72	25.72	25.68	25.66	25.86	25.97	25.66
21	25.63	25.60	25.58	25.55	25.53	25.52	25.55	25.55	25.56	25.58	25.62	25.64	25.66	25.67	25.69	25.72	25.75	25.79	25.81	25.82	25.83	25.83	25.83	25.83	25.67	25.83	25.52
22	25.83	25.83	25.84	25.86	25.86	25.88	25.89	25.89	25.90	25.93	25.95	25.95	25.95	25.98	25.98	26.01	26.06	26.10	26.12	26.14	26.16	26.18	26.20	26.21	25.99	26.21	25.83
23	26.22	26.23	26.24	26.25	26.25	26.25	26.25	26.26	26.26	26.27	26.27	26.25	26.23	26.20	26.17	26.16	26.14	26.12	26.09	26.08	26.05	26.03	26.00	25.97	26.18	26.27	25.97
24	25.94	25.90	25.87	25.84	25.79	25.75	25.72	25.69	25.66	25.63	25.61	25.57	25.52	25.49	25.49	25.49	25.49	25.49	25.49	25.51	25.53	25.56	25.58	25.61	25.63	25.94	25.49
25	25.64	25.66	25.70	25.74	25.76	25.78	25.80	25.83	25.85	25.88	25.90	25.91	25.91	25.91	25.91	25.92	25.94	25.96	25.96	25.96	25.97	25.97	25.98	25.98	25.87	25.98	25.64
26	25.98	25.98	25.99	26.00	26.00	26.00	26.01	26.02	26.04	26.05	26.07	26.07	26.06	26.06	26.06	26.08	26.10	26.11	26.12	26.13	26.13	26.14	26.14	26.14	26.06	26.14	25.98
27	26.13	26.13	26.13	26.13	26.13	26.11	26.11	26.11	26.10	26.09	26.08	26.05	26.03	26.01	25.99	25.98	25.97	25.95	25.93	25.91	25.88	25.87	25.85	25.84	26.02	26.13	25.84
28	25.82	25.82	25.82	25.83	25.83	25.85	25.86	25.87	25.88	25.90	25.92	25.93	25.94	25.96	25.99	26.02	26.06	26.10	26.12	26.15	26.17	26.19	26.21	26.23	25.98	26.23	25.82
29	26.24	26.25	26.27	26.29	26.30	26.32	26.34	26.36	26.39	26.41	26.44	26.44	26.43	26.42	26.43	26.44	26.47	26.49	26.50	26.53	26.55	26.56	26.57	26.59	26.42	26.59	26.24
30	26.59	26.60	26.61	26.61	26.62	26.63	26.64	26.65	26.65	26.65	26.65	26.63	26.61	26.60	26.58	26.57	26.56	26.56	26.56	26.56	26.56	26.54	26.53	26.53	26.60	26.65	26.53
31	26.52	26.51	26.51	26.51	26.50	26.50	26.49	26.48	26.46	26.47	26.46	26.45	26.42	26.38	26.36	26.36	26.35	26.35	26.34	26.34	26.33	26.31	26.30	26.29	26.42	26.52	26.29
Avg	26.03	26.02	26.03	26.03	26.03	26.03	26.03	26.03	26.04	26.04	26.05	26.03	26.02	26.01	26.00	26.01	26.02	26.02	26.02	26.03	26.03	26.03	26.03	26.03	26.03	26.12	25.92
Max	26.59	26.60	26.61	26.61	26.62	26.63	26.64	26.65	26.65	26.65	26.65	26.63	26.61	26.60	26.58	26.57	26.56	26.56	26.56	26.56	26.56	26.56	26.57	26.59	26.60	26.65	26.53
Min	25.63	25.60	25.58	25.55	25.53	25.52	25.55	25.55	25.56	25.58	25.61	25.57	25.52	25.49	25.49	25.49	25.49	25.49	25.49	25.51	25.53	25.56	25.58	25.61	25.63	25.76	25.49

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
October 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.020	0.000	0.050	0.050	0.000	0.000	0.000	0.000	0.200	0.080
12	0.050	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.130	0.080
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.030	0.030
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.040	0.010	0.060	0.130	0.050	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.320	0.130
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.050	0.010
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.010	0.020	0.010
29	0.010	0.010	0.000	0.030	0.020	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.030
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.060	0.090	0.000	0.030	0.030	0.010	0.020	0.010	0.050	0.010	0.060	0.130	0.050	0.020	0.000	0.080	0.030	0.010	0.060	0.080	0.000	0.010	0.000	0.010	0.850	0.000
Max	0.050	0.080	0.000	0.030	0.020	0.010	0.020	0.010	0.040	0.010	0.060	0.130	0.050	0.020	0.000	0.080	0.020	0.010	0.050	0.050	0.000	0.010	0.000	0.010	0.320	0.130

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
November 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.130	0.000	0.000	0.000	0.000	0.010	0.190	0.130
2	0.050	0.090	0.010	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210	0.090
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.010	0.040	0.030
7	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.060	0.030	0.020	0.000	0.010	0.010	0.000	0.000	0.020	0.010	0.220	0.060
10	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.040
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.000	0.020	0.010
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.020	0.010	0.020	0.050	0.020	0.020	0.010	0.000	0.000	0.010	0.030	0.020	0.020	0.020	0.020	0.020	0.030	0.340	0.050
26	0.030	0.020	0.020	0.020	0.010	0.030	0.050	0.040	0.040	0.040	0.030	0.030	0.030	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.430	0.050
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.190	0.110
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.120	0.130	0.030	0.040	0.030	0.060	0.130	0.170	0.050	0.060	0.080	0.050	0.050	0.090	0.090	0.030	0.080	0.030	0.160	0.040	0.030	0.030	0.070	0.060	1.710	0.000
Max	0.050	0.090	0.020	0.020	0.020	0.030	0.070	0.110	0.040	0.040	0.050	0.030	0.030	0.060	0.060	0.030	0.050	0.030	0.130	0.020	0.020	0.020	0.030	0.030	0.430	0.130

Montana Limestone Resources
Drummond Air Monitoring Summary
Precipitation (Inches)
December 2014

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.010
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.020	0.080	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.130	0.080
22	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.070	0.030
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.010
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.000	0.010	0.000	0.000	0.020	0.090	0.040	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.030	0.040	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.320	0.000
Max	0.000	0.010	0.000	0.000	0.020	0.080	0.030	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.030	0.030	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.130	0.080

APPENDIX B: PERFORMANCE AUDIT REPORTS FOURTH QUARTER 2014

Figure 4.6-1
Relative Humidity Performance Audit Form

RELATIVE HUMIDITY PERFORMANCE AUDIT

Location MLR Drummond Date 12/18/14

Performed By Don Milmine System Down Time: Off_____ On_____ N/A X

A. Site Sensor Information		
Manufacturer Met One	Model 083E-0-35	Serial No. P18247

B. Collocated Tests						
Time (MST)	Audit Sensor				Site Sensor RH	Error %RH
	Dry Bub Temperature	Wet Bulb Temperature	Barometric Pressure	Calculated RH		
1158	30	28	25.44	80.1	81.7	1.7
Error Limit: +/- 7% RH						

C. Audit Sensor Description	
Manufacturer Taylor Hygrometer	Model part # 5P-377/tool# T66978
Serial No. none	Certification Date primary Standard
Certified Against	

D. Signature
Site Operator : Steven R Hesh
Auditor : Don V. Milmine

Figure 2.6-1
Wind Direction Performance Audit Form

WIND DIRECTION PERFORMANCE AUDIT

Location MLR Date 12-18-14

Performed By Don Milmine System Down Time: Off 0950 On 1255

A. Site Sensor Information		
Manufacturer Climatronics	Model 1020838	Serial No. R 16302

B. Indicated Wind Direction Prior to Lowering Tower	
Estimated (deg.) 190	DAS Reading (deg.) 188

C. Orientation of Sensor Crossarm (In Raised Position on Tower) (+/- 2 deg.)			
Orientation Method (circle) Transit-Sunshot	Transit-Magnetic		(GPS)
Target (circle) 90/270 0/180	As-Found 269		Error (deg.) -1

D. Indicated Wind Direction Aligned With Crossarm (Prior to Linearity Checks) (+/- 2 deg.)		
Target 90	DAS As-Found 90.4	Error (deg.) 0.4

E. Linearity Checks (+/- 3 deg.)					
Clockwise			Counterclockwise		
Direction	DAS	Error	Direction	DAS	Error
0/360	1.3	1.3	0/360	1.0	1.0
30	30.5	0.8	30	30.5	0.5
60	61.0	1.0	60	61.3	1.3
90	91.2	1.2	90	90.8	0.8
120	120.9	0.9	120	121.0	1.0
150	151.4	1.4	150	151.3	1.3
180	181.6	1.6	180	181.4	1.4
210	211.3	1.3	210	211.1	1.1
240	241.0	1.0	240	240.8	0.8
270	270.6	0.6	270	270.4	0.4
300	300.7	0.7	300	300.9	0.9
330	331.3	1.3	330	330.9	0.9
0/360	1.1	1.1	0/360	1.1	1.1

F. Torque Check		
Type (circle) (Disk) Watch	Measured 3.0	<7.45 g-cm OR 0.10 oz.-in?

G. Indicated Wind Direction Aligned With Crossarm (After Re-installation) (+/- 2 deg.)		
Target (circle) 90	DAS As-Left 90.8	Error (deg.) 0.8

H. Audit Equipment Description	
Transit	(Torque Disk) / Watch
(GPS Unit) 46° 41' / 113° 13'	Linearity Wheel
Site Lat. / Long.	Current Mag. Declination

I. Signature	
Site Operator: Steven G. Heck	Auditor: Don V. Milmine

Figure 1.6-1
Temperature/Delta Temperature Performance Audit Form

TEMPERATURE / DELTA TEMPERATURE PERFORMANCE AUDIT

Location MLR Drummond Date 12/18/14

Performed By Don Milmine System Down Time: Off 0950 On 1255

A. Site Sensor Information			
Manufacturer	~~Met One~~ Climatronics	Model	100093
Serial No. (Upper)	N1893C	Serial No. (Lower)	N1889C

B. Indicated Temperatures Prior to Removing Sensors for Tests			
Upper (deg. C)	-6.2	Lower (deg. C)	-5.7

C. Tests (read responses to 0.01 deg. C)

Known (deg. C)	Upper (DAS)	Lower (DAS)	Error Upper - Known	Error Lower - Known	Delta T (Upper – Lower)
36.60	36.77	36.79	0.17	0.19	-0.02
17.61	17.55	17.55	-0.06	-0.06	0.00
0.00	0.15	0.15	0.15	0.15	0.00

Limits: +/- 0.5 deg. C for individual temperatures, 0.10 deg. C for Delta T

D. Audit Temperature Standard Description			
Manufacturer	Control Company	Model	4000
Serial No.	140251289	Certification Date	4/10/14 expires 4/10/16
Other			

E. Signature

Site Operator : Steven R Heale

Auditor : Don V. Milmine

Figure 3.6-1
Wind Speed Performance Audit Form

WIND SPEED PERFORMANCE AUDIT

Location MLR Drumond Date 12/18/14

Performed By Don Milmine System Down Time: Off 0950 On 1255

A. Site Sensor Information		
Manufacturer Climatronics	Model 1020838	Serial No. R 16302

B. Indicated Wind Speed Prior to Lowering Tower	
Estimated (m/s)	DAS Reading (m/s)

C. Synchronous Motor Tests			
Motor RPM	Known Wind Speed m/s	Indicated Wind Speed	Error
0	0.22	0.22	0.00
300	6.66	6.66	0.00
600	13.09	13.09	0.00
950	20.60	20.52	-0.08

D. Torque Check				
Type (circle) (Disk)	Watch	Measured	0.22	< 0.35 g-cm OR 0.005 oz.-in?

E. Audit Equipment Description	
300 RPM Motor RM Young Model 18811	(Torque Disk)
600 RPM Motor Vairable anemometer	Torque Watch
Other Shaft Drive Device S/N CA02929	

F. Signature
Site Operator : Steven R Heck
Auditor : Don U Milmine

Figure 5.6-1
Barometric Pressure Performance Audit Form

BAROMETRIC PRESSURE PERFORMANCE AUDIT

Location MLR Drummond Date December 17, 2014

Performed By Don Milmine System Down Time: Off_____ On_____ N/A X

A. Site Sensor Information		
Manufacturer Met One	Model 092	Serial No. P22256

B. Collocated Tests			
Units (circle one): Millibars (mb)	mmHg	inches Hg	
Time (MST)	**Audit Sensor**	**Site Sensor**	**Error**
1950	658.2	25.9663 = 659.57	1.37
2002	658.2	25.9559 = 659.31	1.11
Error Limit: +/- 3 mb OR +/- 2.3 mmHg OR +/- 0.09 inches Hg			

C. Audit Sensor Description	
Manufacturer Vaisala	Model PTB330 (50-1100)
Serial No. D4310002	Certification Date March 19, 2014
Certified Against NIST Traceable (Princo Primary Standard Model 453) Cert. # P-7485	

D. Signature
Site Operator : Steven R Acle
Auditor : Don V. Milmine

Figure 6.6-1
Precipitation Performance Audit Form

PRECIPITATION PERFORMANCE AUDIT

Location MLR Drummond Date December 18, 2014

Performed By Don Milmine System Down Time: Off 1338 On 1355

A. Site Sensor Information		
Manufacturer	**Model**	**Serial No.**
Met One	375	R12869
Gauge Diameter (inches)	**Precipitation per Tip** (Circle one below)	
	(0.01 inches) 0.25 mm Other	

B. Water Volume per Tip		
Precipitation per Tip	**Gauge Diameter (inches)**	
	6	**8**
0.01 inches	4.63 ml/tip	(8.24 ml/tip)
0.25 mm	4.56 ml/tip	8.11 ml/tip

C. Expected Number of Tips for Test Volume		
Cylinder or Buret Volume (ml)	**ml/tip (from Part B)**	**Expected No. of Tips**
2.50	8.24	30

A. Volumetric Tests				
Time (MST)	**Expected Tips**	**Actual Sensor Tips**	**Error (Tips)**	**Error (percent)**
1350	30	31	0.01	3.3
Error Limit: +/- 10%				

B. Audit Cylinder or Buret Description	
Manufacturer Fisher Scientific	Model PP
Volume 250 ml	Type Graduated Cylinder

D. Signature
Site Operator : Steven G. Hale
Auditor : Don V. Milmine

DESCRIPTION OF SO_2 ANALYZER AUDIT PROCEDURE

A performance audit of the Thermo Environmental Instruments SO_2 analyzer operated by Bison Engineering, Inc., Helena, for Montana Limestone Resources at their Drummond PSD monitoring station, was conducted on December 17, 2014. Audit results are presented by comparing known SO_2 concentrations (x) delivered by the audit device with concentrations (y) reported by the analyzer. Sulfur dioxide concentrations were generated by a Dasibi Model 1009-MC span gas calibrator (S/N 067) and a zero air supply with columns of soda lime, charcoal, purafill and desiccant. The sulfur dioxide standard used for the audit was certified gas cylinder #JJ22993. It has an SO_2 concentration of 15.42 ppm in nitrogen. The certification was performed by Scott-Marrin on May 19, 2014, and will expire on May 20, 2017. The analysis is traceable to NIST by comparison through GMIS cylinder CA03167 that has an SO_2 concentration of 10.13 and a certification expiration date of June 12, 2017. The analysis conforms to EPA Protocol Section No. 2.2, Procedure G-1. The cylinder is required to meet the quality assurance requirements of 40 CFR Part 58 Appendix A (October 2006).

The audit results for the Drummond Station are presented on page B-5. The table shows the percent differences between x and y for each concentration, the slope, intercept, and percent differences at full scale, and a summary of audit results. EPA's recommended linear regression criteria are listed on page B-6. Graphs of station concentrations versus audit concentrations also appear on the tables. A dashed unity line, which indicates perfect agreement between audit and station concentrations, is shown on each figure.

An examination of the audit results indicates that the SO_2 audits produced results considered excellent according to EPA's criteria for evaluating performance audits.

Figure 11.6-1

Sulfur Dioxide Analyzer Performance Audit Form

BISON ENGINEERING INC.

SO_2 ANALYZER AUDIT REPORT FORM

Site: MLR Drummond **Date:** December 17, 2014

Performed By: Don Milmine

Analyzer Model: Thermo Fisher 43i **Serial No.:** 904834740

Audit Calibrator Model / Ser. No.: DASTRI model 1009-MC/067

Audit Cylinder No. JJ22993 **Cylinder Supplier:** Scott-Marrin

Cylinder Conc. (ppm) 15.42 **Cylinder Expir. Date:** May 20, 2017

Analyzer Coefficients: Background 3.06 **Span** 0.963

Date of Last Analyzer Calibration:

Audit Start Time: 1806 **Audit End Time:** 1938

AUDIT RESULTS

Audit Standard			Results (ppb)		Percent Error
Gas Flow (SCCM)	Dilution Flow (SCCM)	Audit Conc. (ppb)	Analyzer Display	DAS	DAS
110.39	4173.09	0.397	397	0.398	0.25
55.38	4173.09	0.202	202	0.202	0.50
20.21	4173.09	0.074	74	0.074	0.00
12.56	6337.74	0.030	31	0.030	3.33
6.01	6337.74	0.0146	148	0.0148	1.37
0.00	4173.09	0.0000	0.2	0.0002	—

Regression Analysis (Y = mX + b)
where Y = analyzer response, X = known concentration) Pearson

	m	b	~~r-squared~~
DAS	1.00189	0.34059	1.00000

Signatures

Auditor Don V. Milmine **Site Operator** Steven R Heck

EPA's Suggested Linear Regression Criteria		
Slope		
Excellent	≤ ±5%	Between analyzer response and audit concentration
Satisfactory	> ±5 to ±15%	Between analyzer response and audit concentration
Unsatisfactory	≥ ±15%	Between analyzer response and audit concentration
Individual Audit Concentration Difference		
9 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
3 PPB concentration, +/- 1.5 PPB or +/- 15 %, whichever is greater.		
0 PPB concentration, +/- 1.5 PPB		
Intercept		
Satisfactory	≤ ±3%	of the analyzer range
Unsatisfactory	> ±3%	of the analyzer range
Correlation Coefficient		
Satisfactory	0.9950 to 1.0000	Linear analyzer response to audit concentration
Unsatisfactory	< 0.9950	Nonlinear analyzer response to audit concentration