

**TINTINA RESOURCES, INC.
BLACK BUTTE COPPER PROJECT
AMBIENT AIR
MONITORING PROGRAM
Quarterly Data Report
Third Quarter 2012**

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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 Black Butte Copper Project air monitoring site. 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)*.

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APPENDICES

Appendix A: Meteorological Data

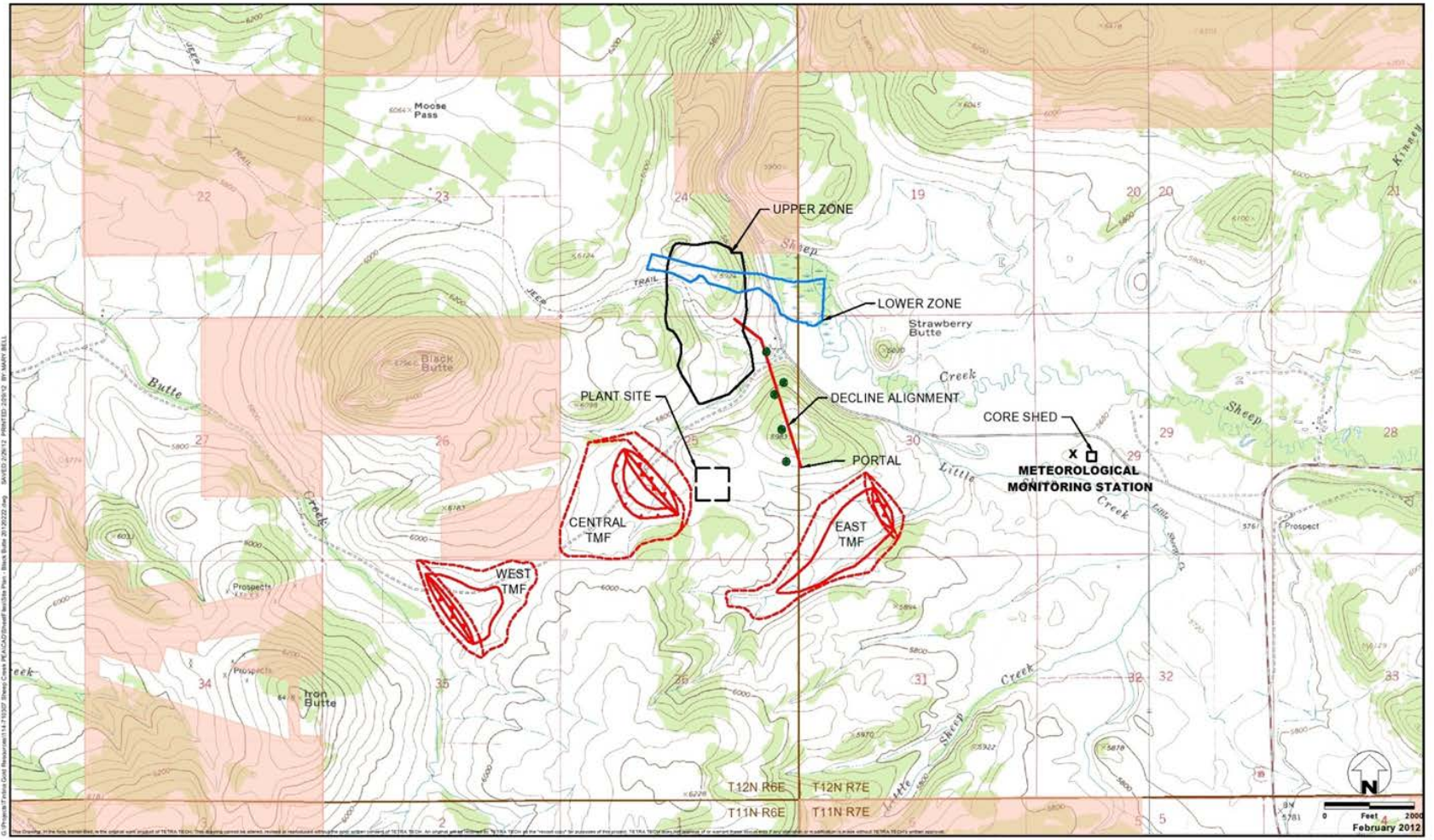
1.0 INTRODUCTION

Tintina Resources, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize the local meteorology and collect baseline data in support of an operating permit application and various environmental studies.

The site of the meteorological monitoring system was installed in April 2012. The site is operated by Bison Engineering, Inc., of Helena and Billings. Figure 1 shows the location of the monitoring site.

This report presents the data collected during the third quarter (July through September) of 2012. 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. Appendix A presents hourly meteorological data collected.

Figure 1. Monitoring Site Location



- ADIT ALIGNMENT HOLES
- TAILINGS MANAGEMENT FACILITY
- USFS PROPERTY

Site Plan
 Black Butte Copper Project
 Meagher County, Montana
 FIGURE 1



2.0 MONITORING SYSTEM OPERATIONS

The installation of the monitoring meteorological system equipment took place in April 2012, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about two weeks to complete. All meteorological parameters were in full operation and producing valid data by April 30, 2012.

3.0 CALIBRATION DATA

There were no calibrations performed during the third quarter.

4.0 PERFORMANCE AUDIT DATA

Don Milmine of Bison Engineering, Inc. (Bison) conducted performance audits of the meteorological system at the site during the third quarter. All of the system audits generally produced results within the recommended tolerance limits. The Bison report of the audits is presented in Appendix B.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the third quarter of 2012 are given in Tables 1 and 2. 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 100.0 percent for all meteorological parameters at Black Butte.

Table 1. Monthly Data Completeness

July 2012					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
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 9 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
Barometric Pressure	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Precipitation	744	744	100.0	0	100.0
Total	7,440	7,440	100.0	0	100.0

Table 1. Monthly Data Completeness (Continued)

August 2012					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	744	740	99.5	4	100.0
Wind Direction	744	740	99.5	4	100.0
Standard Deviation	744	740	99.5	4	100.0
Temperature 9 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
Barometric Pressure	744	740	99.5	4	100.0
Relative Humidity	744	740	99.5	4	100.0
Precipitation	744	740	99.5	4	100.0
Total	7,440	7,400	99.5	40	100.0

Table 1. Monthly Data Completeness (Continued)

September 2012					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	720	100.0	0	100.0
Standard Deviation	720	720	100.0	0	100.0
Temperature 9 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
Barometric Pressure	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,200	7,200	100.0	0	100.0

Table 2. Quarterly Data Completeness

Third Quarter 2012					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,208	2,204	99.8	4	100.0
Wind Direction	2,208	2,204	99.8	4	100.0
Standard Deviation	2,208	2,204	99.8	4	100.0
Temperature 9 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
Barometric Pressure	2,208	2,204	99.8	4	100.0
Relative Humidity	2,208	2,204	99.8	4	100.0
Precipitation	2,208	2,204	99.8	4	100.0
Total	22,080	22,040	99.8	40	100.0

6.0 MONITORING DATA

The hourly 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 all parameters 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 given in Table 3.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 4 through 7. 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 3. 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
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 4. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

July 2012																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
0.1 - 1.0	1.6	0.7	1.7	1.2	1.3	0.9	0.8	0.8	0.4	0.0	0.1	0.4	0.1	0.3	1.9	1.1	13.4
1.1 - 2.0	1.3	1.5	2.7	3.1	3.0	3.2	4.0	1.5	0.5	0.5	0.5	0.8	0.9	1.7	1.7	2.2	29.3
2.1 - 3.0	0.5	0.5	0.9	2.4	3.8	2.3	1.6	1.5	0.8	0.8	0.4	0.5	1.5	1.1	2.7	0.8	22.2
3.1 - 4.0	0.4	0.1	0.0	2.2	1.7	0.4	0.7	0.8	0.5	0.7	0.5	0.5	0.9	2.3	0.9	0.4	13.2
4.1 - 5.0	0.1	0.1	0.3	0.8	0.4	0.0	0.9	0.5	0.5	1.2	0.5	0.8	1.5	2.0	0.9	0.0	10.8
5.1 - 6.0	0.3	0.1	0.0	0.5	0.1	0.3	0.4	0.8	0.5	0.1	1.1	0.8	0.7	0.4	0.4	0.0	6.6
6.1 - 7.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.3	0.1	0.1	0.5	0.5	0.0	0.0	2.4
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.3	0.4	0.4	0.0	0.0	1.3
8.1 - 9.0	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	0.3	0.0	0.0	0.5
9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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	0.0	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	4.3	3.2	5.6	10.2	10.5	7.1	9.0	6.5	3.5	3.6	3.4	4.3	6.7	9.0	8.6	4.4	100.0
Average Speed	1.9	2.1	1.6	2.5	2.4	1.9	2.7	3.1	3.4	3.7	4.0	3.6	4.0	3.7	2.4	1.7	2.8

Table 5. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

August 2012																		
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	2.3	1.6	1.9	1.1	1.5	1.5	0.9	0.3	0.1	0.0	0.3	0.3	0.1	0.9	0.7	1.6	15.1
	1.1 - 2.0	0.9	1.1	2.8	4.6	6.0	4.2	2.8	1.1	0.3	0.3	0.1	0.8	0.8	0.5	0.5	0.7	27.6
	2.1 - 3.0	0.3	0.4	1.1	1.9	3.4	2.0	1.1	0.3	0.4	0.3	0.1	0.8	1.7	1.5	1.6	1.2	18.0
	3.1 - 4.0	0.3	0.1	0.1	1.3	1.9	0.5	1.1	0.8	0.3	0.5	0.1	1.1	1.5	1.9	1.7	1.2	14.5
	4.1 - 5.0	0.4	0.1	0.1	0.0	0.4	0.3	0.8	0.7	0.1	0.7	0.1	0.5	1.6	1.7	1.6	0.4	9.7
	5.1 - 6.0	0.1	0.1	0.0	0.0	0.0	0.0	1.1	0.3	0.1	0.3	0.3	0.1	0.5	1.6	1.1	0.1	5.8
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.3	0.0	0.3	1.5	1.3	0.9	0.0	5.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.5	0.7	0.5	0.1	2.4
	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	0.7	0.1	0.0	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	0.1	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	0.5	0.0	0.0	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	0.0	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	4.3	3.5	6.0	8.9	13.2	8.5	8.5	3.8	1.3	2.3	1.2	4.0	9.7	10.6	8.7	5.5	100.0	
Average Speed	1.7	1.7	1.6	1.9	2.0	1.8	3.0	3.4	2.6	4.2	3.6	3.3	5.0	4.4	4.0	2.7	3.0	

Table 6. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

September 2012																	
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
0.1 - 1.0	2.9	3.3	2.9	3.2	2.2	2.6	1.0	0.4	0.4	0.1	0.1	0.1	0.3	0.6	0.7	1.0	21.9
1.1 - 2.0	0.8	0.7	3.2	3.9	7.4	5.0	2.8	0.8	0.0	0.3	0.4	0.4	0.0	0.7	0.6	0.7	27.6
2.1 - 3.0	0.3	0.1	1.0	2.2	3.2	2.9	0.6	0.3	0.6	0.1	0.4	1.1	1.4	1.0	1.0	0.1	16.3
3.1 - 4.0	0.0	0.3	0.1	0.4	1.7	0.4	0.3	0.4	0.0	0.1	0.4	1.1	2.4	1.5	0.6	0.4	10.1
4.1 - 5.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.3	0.6	0.0	0.6	0.7	1.7	1.8	1.1	0.1	7.4
5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.7	2.2	1.8	1.0	0.1	6.5
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.0	0.1	0.0	1.5	1.1	0.6	1.0	0.0	5.4
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.8	1.9	0.7	0.3	0.0	4.2
8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.6
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	0.0	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	4.2	4.6	7.2	9.7	14.6	11.0	5.6	3.5	1.5	1.1	1.9	6.7	11.1	8.8	6.1	2.5	100.0
Average Speed	1.1	1.2	1.4	1.5	1.8	1.7	2.3	3.8	2.8	3.9	3.0	4.8	5.0	4.3	4.0	2.0	2.7

Table 7. Quarterly Wind Rose Summary, Black Butte Copper Project Met Tower

Third Quarter 2012																		
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	2.3	1.9	2.2	1.8	1.7	1.7	0.9	0.5	0.3	0.0	0.2	0.3	0.2	0.6	1.1	1.2	16.8
	1.1 - 2.0	1.0	1.1	2.9	3.8	5.4	4.1	3.2	1.1	0.3	0.4	0.4	0.7	0.6	1.0	1.0	1.2	28.2
	2.1 - 3.0	0.4	0.4	1.0	2.2	3.4	2.4	1.1	0.7	0.6	0.4	0.3	0.8	1.5	1.2	1.8	0.7	18.8
	3.1 - 4.0	0.2	0.2	0.1	1.3	1.8	0.5	0.7	0.7	0.3	0.5	0.4	0.9	1.6	1.9	1.1	0.7	12.6
	4.1 - 5.0	0.2	0.1	0.1	0.3	0.3	0.1	0.6	0.5	0.4	0.6	0.4	0.7	1.6	1.9	1.2	0.2	9.3
	5.1 - 6.0	0.1	0.1	0.0	0.2	0.0	0.1	0.6	0.4	0.2	0.2	0.5	0.5	1.1	1.3	0.8	0.1	6.3
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.2	0.0	0.6	1.0	0.8	0.6	0.0	4.3
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.4	1.0	0.6	0.3	0.0	2.6
	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	0.3	0.2	0.0	0.0	0.6
	9.1 - 10.0	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	0.0	0.0	0.3
	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	0.2	0.0	0.0	0.0	0.2
	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	0.0	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	4.3	3.8	6.3	9.6	12.7	8.8	7.7	4.6	2.1	2.4	2.2	5.0	9.1	9.5	7.8	4.2	100.0	
Average Speed	1.6	1.6	1.5	2.0	2.1	1.8	2.7	3.3	3.1	3.9	3.6	4.1	4.7	4.2	3.4	2.2	2.8	

Figure 2. Monthly Wind Rose, Black Butte Copper Project Met Tower

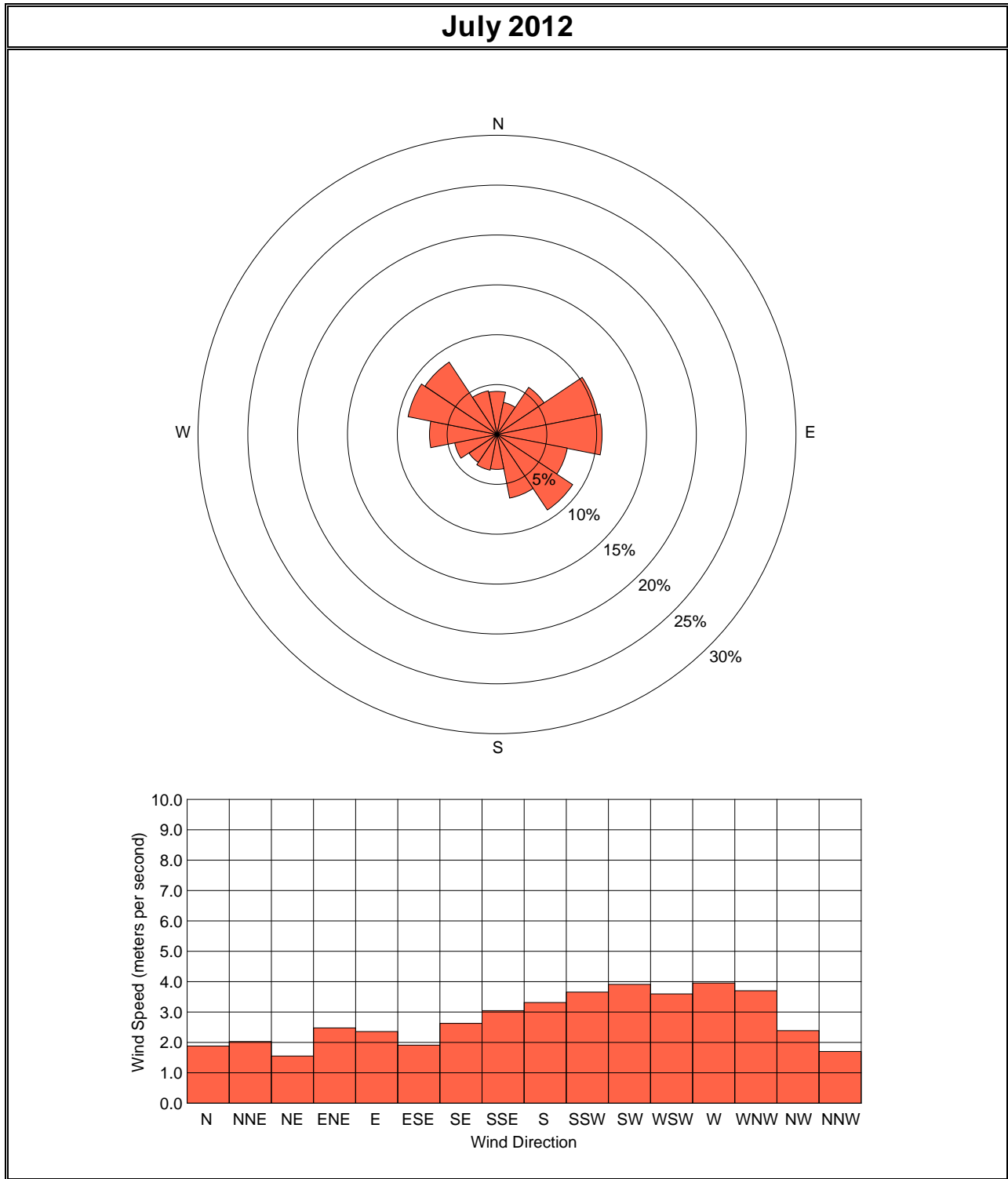


Figure 3. Monthly Wind Rose, Black Butte Copper Project Met Tower

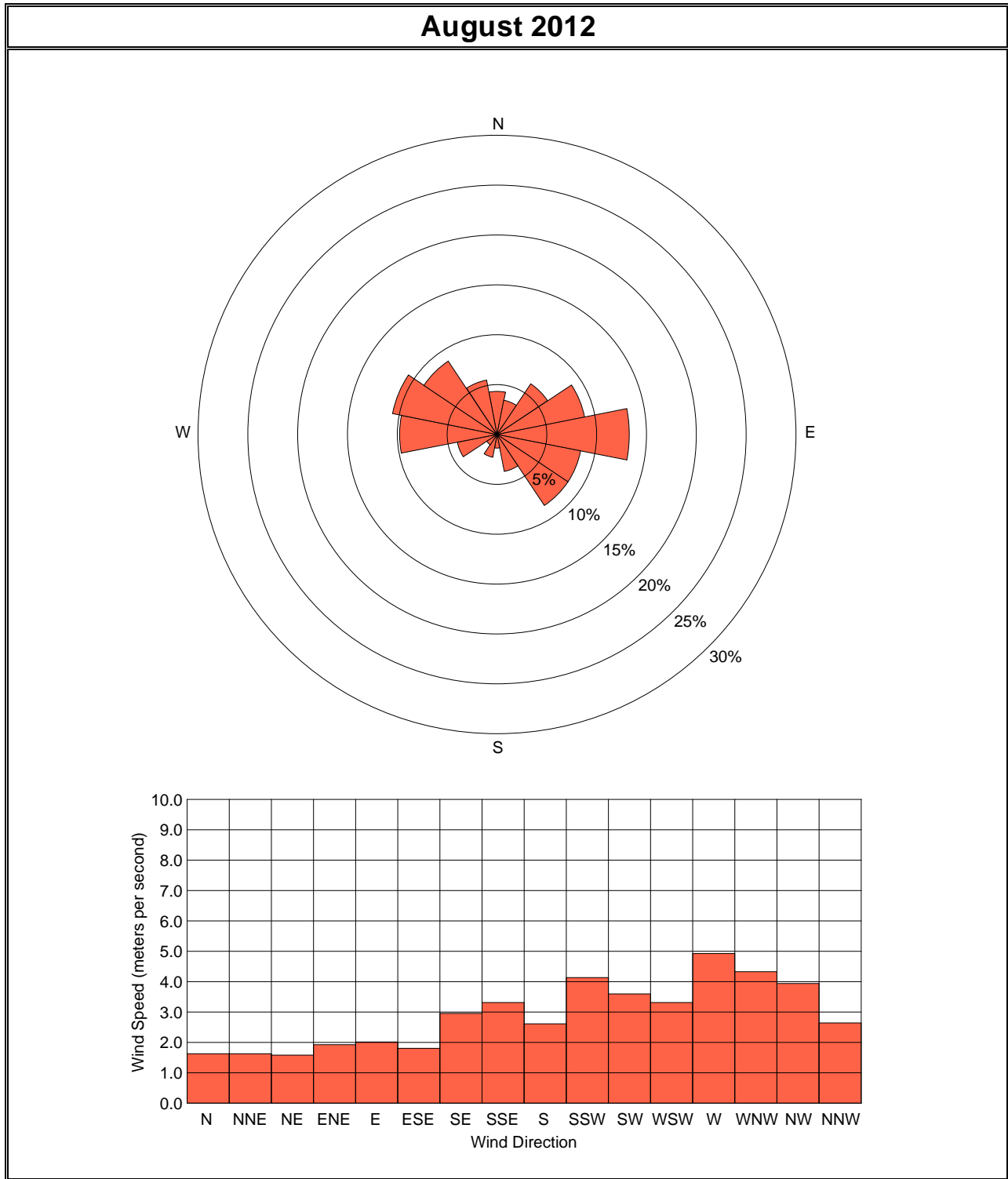


Figure 4. Monthly Wind Rose, Black Butte Copper Project Met Tower

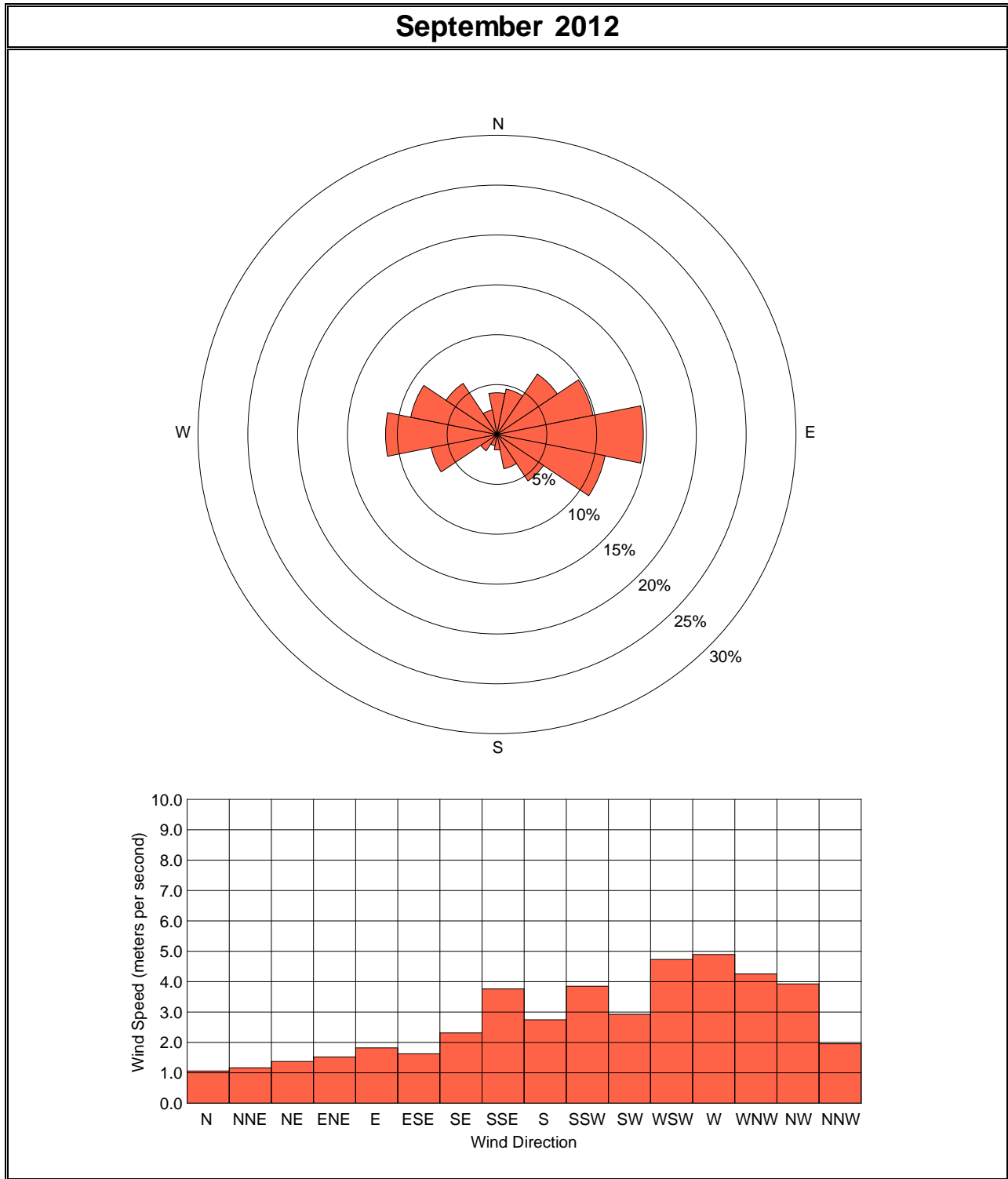


Figure 5. Quarterly Wind Rose, Black Butte Copper Project Met Tower

