

**TINTINA RESOURCES, INC.  
BLACK BUTTE COPPER  
PROJECT AMBIENT AIR  
MONITORING PROGRAM  
Quarterly Data Report  
Fourth Quarter 2015**

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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 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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## **APPENDICES**

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- Appendix A: Meteorological Data
- Appendix B: Performance Audit Reports
- Appendix C: Evaporation and Precipitation Summary

## 1.0 INTRODUCTION

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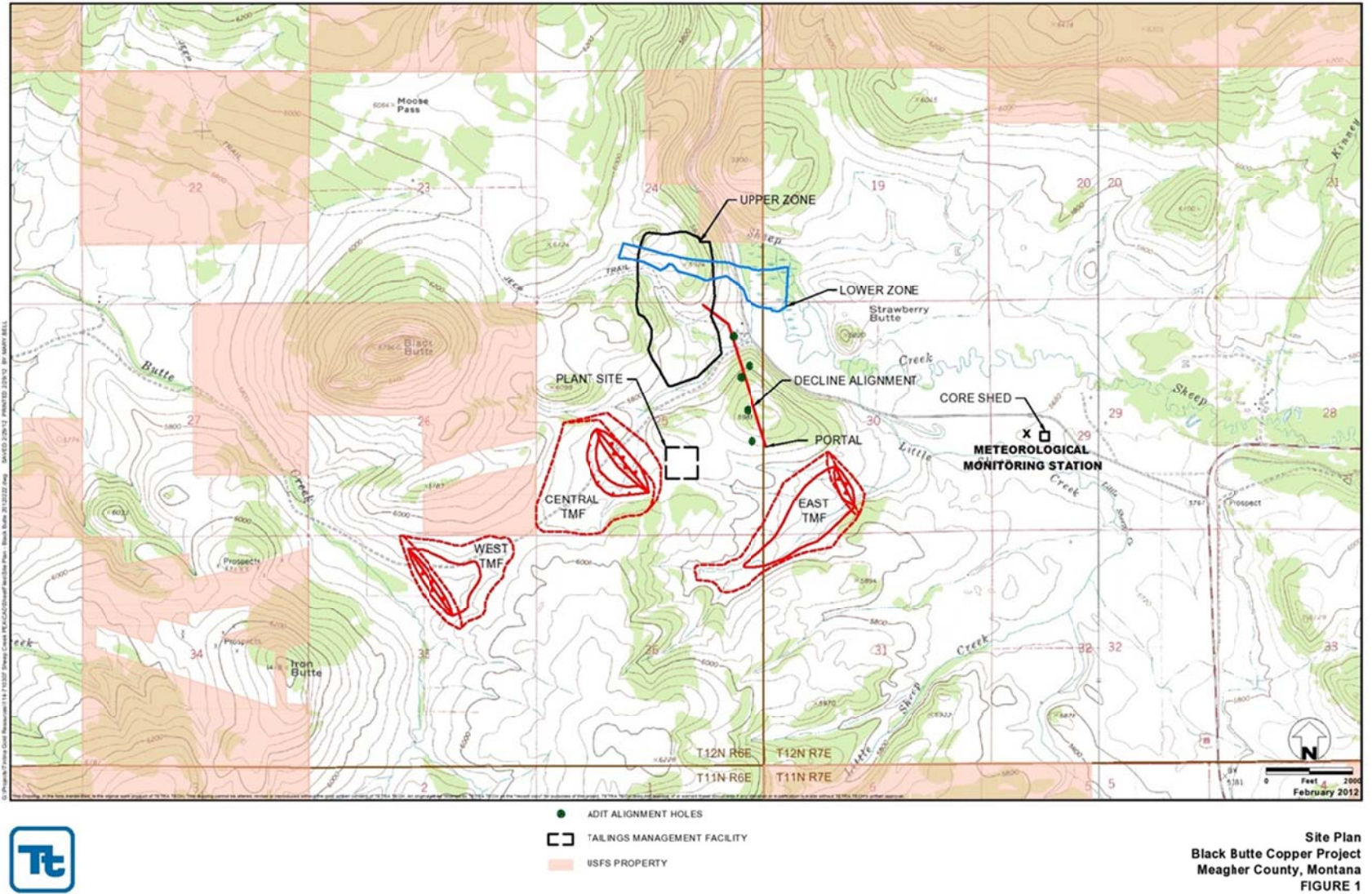
Tintina Resources, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize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

The 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 fourth quarter (October through December) of 2015. 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.

On June 23, 2015, an evaporation pan and manual precipitation gauge were installed adjacent to the existing meteorological system. The evaporation data will be used for hydrological / water balance studies. The manual rain gauge was installed to provide a backup data source for the existing automatic rain gauge, which has experienced occasional mechanical problems. Also, the automatic rain gauge is sometimes unreliable for measuring frozen precipitation.

**Figure 1. Monitoring Site Location**



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



## **2.0 MONITORING SYSTEM OPERATIONS**

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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.

Jeff Bell of Bison conducted performance audits of the meteorological system on December 4, 2015, and made any necessary calibration adjustments to the meteorological system following the audits. The Bison report of the audits is presented in Appendix B.

Manual measurements of evaporation and precipitation were recorded by Tintina's on-site personnel two to three times per week until October 21, at which time the evaporation pan was shut down for the winter due to persistent ice. After October 21, manual measurements of the precipitation gauge were taken approximately once per week.

### **3.0 CALIBRATION DATA**

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As discussed in Section 4.0, the system's as-found condition was audited on December 4, 2015, and generally found to be satisfactory. Audit results are presented in Appendix B.

The tipping-bucket rain gauge responded acceptably to known volumes of water. However, the rain gauge heater was found to be connected incorrectly and was repaired.

## **4.0 PERFORMANCE AUDIT DATA**

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Jeff Bell of Bison conducted performance audits of the meteorological system on December 4, 2015, and made any necessary calibration adjustments to the meteorological system following the audits as described in Section 3.0. The Bison report of the audits is presented in Appendix B.



## 5.0 DATA COMPLETENESS

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The meteorological percentages of data recovery achieved during the fourth quarter of 2015 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.

Minor data losses for wind speed, wind direction and wind sigma occurred during November due to icing conditions. During the fourth quarter the net percentage data recovery was 99.8 percent for wind speed, 99.9 percent for wind direction and wind sigma, and 100.0 percent for all other parameters at the site.

**Table 1. Monthly Data Completeness**

<b>October 2015</b>					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
<b>Black Butte Copper Project Met Tower</b>					
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
<b>Total</b>	<b>7,440</b>	<b>7,440</b>	<b>100.0</b>	<b>0</b>	<b>100.0</b>

**Table 1. Monthly Data Completeness (Continued)**

<b>November 2015</b>					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
<b>Black Butte Copper Project Met Tower</b>					
Wind Speed	720	715	99.3	0	99.3
Wind Direction	720	717	99.6	0	99.6
Standard Deviation	720	717	99.6	0	99.6
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
<b>Total</b>	<b>7,200</b>	<b>7,189</b>	<b>99.8</b>	<b>0</b>	<b>99.8</b>

**Table 1. Monthly Data Completeness (Continued)**

<b>December 2015</b>					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
<b>Black Butte Copper Project Met Tower</b>					
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 9 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
Barometric Pressure	744	741	99.6	3	100.0
Relative Humidity	744	741	99.6	3	100.0
Precipitation	744	741	99.6	3	100.0
<b>Total</b>	<b>7,440</b>	<b>7,410</b>	<b>99.6</b>	<b>30</b>	<b>100.0</b>

**Table 2. Quarterly Data Completeness**

<b>Fourth Quarter 2015</b>					
<b>Parameter</b>	<b>Readings Possible</b>	<b>Valid Readings</b>	<b>Percentage Recovery</b>	<b>Quality Assurance Hours</b>	<b>Net Percentage Recovery</b>
<b>Black Butte Copper Project Met Tower</b>					
Wind Speed	2,208	2,200	99.6	3	99.8
Wind Direction	2,208	2,202	99.7	3	99.9
Standard Deviation	2,208	2,202	99.7	3	99.9
Temperature 9 Meters	2,208	2,205	99.9	3	100.0
Temperature 2 Meters	2,208	2,205	99.9	3	100.0
Temperature Delta T	2,208	2,205	99.9	3	100.0
Solar Radiation	2,208	2,205	99.9	3	100.0
Barometric Pressure	2,208	2,205	99.9	3	100.0
Relative Humidity	2,208	2,205	99.9	3	100.0
Precipitation	2,208	2,205	99.9	3	100.0
<b>Total</b>	<b>22,080</b>	<b>22,039</b>	<b>99.8</b>	<b>30</b>	<b>100.0</b>

## 6.0 MONITORING DATA

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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 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 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.

A separate compilation of data collected from the evaporation pan and manual rain gauge is presented in Appendix C. For comparison purposes, the precipitation amounts reported by the automatic rain gauge over the same time periods are provided:

- In October overall precipitation amounts obtained from the manual gauge were comparable to those reported by the automated rain gauge.
- In November precipitation measured from the manual gauge was approximately 50% higher than from the automated gauge. This may reflect failure of the automated gauge's heater to completely melt frozen precipitation (which is predominant during the winter months).
- In December precipitation measured by the automated gauge was approximately 50% higher than from the manual gauge. The automated gauge's heater was known to be working properly beginning December 4. Also, precipitation (consisting largely of blowing snow) may not have been captured completely by the manual gauge due to the lack of a wind screen.

**Table 3. Missing Data Codes**

<b>Mnemonic Code</b>	<b>Description</b>	<b>Equivalent EPA Null Value Reason Code</b>
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**

October 2015																		
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	1.2	1.5	2.0	2.3	2.8	3.1	2.8	0.7	0.5	0.5	0.1	0.7	0.8	0.4	0.8	21.8
	1.1 - 2.0	0.7	0.4	2.2	2.7	3.8	4.3	3.8	2.0	0.8	0.4	0.5	0.4	0.4	0.8	1.1	0.4	24.6
	2.1 - 3.0	0.1	0.0	0.1	1.1	2.3	2.0	1.2	0.7	0.7	0.1	0.7	0.7	2.2	2.3	0.8	0.3	15.2
	3.1 - 4.0	0.1	0.1	0.0	0.4	0.7	0.5	0.1	0.8	0.4	0.5	0.5	1.1	3.8	3.4	1.1	0.1	13.7
	4.1 - 5.0	0.3	0.0	0.0	0.1	0.1	0.0	0.3	1.5	0.0	0.1	0.5	0.8	1.9	1.9	1.2	0.3	9.0
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.4	0.5	0.5	1.3	1.5	1.3	0.3	6.6
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.8	0.3	1.1	0.8	0.4	0.3	4.4
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.8	0.7	0.1	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	0.5	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	0.1	0.4	0.0	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	0.5	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	0.3	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	0.4	0.0	0.0	0.0	0.4
	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	0.1	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	2.7	1.7	3.8	6.3	9.1	9.7	8.5	9.3	2.7	2.3	4.4	4.0	14.1	12.5	6.5	2.4	100.0	
Average Speed	1.4	1.2	1.2	1.6	1.8	1.5	1.5	2.8	2.1	3.2	3.9	3.9	5.0	4.1	3.8	2.8	2.9	



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

November 2015																		
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total	
0.1 - 1.0	1.3	0.7	1.3	1.8	0.8	2.9	4.6	3.2	1.7	1.1	0.3	0.3	0.1	0.3	0.7	1.4	22.5	
1.1 - 2.0	0.0	0.8	1.7	1.0	3.2	3.6	5.5	3.9	2.1	0.7	0.7	0.6	1.4	1.7	0.6	0.3	27.7	
2.1 - 3.0	0.0	0.3	0.6	0.4	2.5	1.5	2.1	1.0	0.3	0.3	0.1	0.8	3.1	2.0	0.6	0.0	15.5	
3.1 - 4.0	0.3	0.0	0.0	0.1	0.4	0.4	0.3	1.5	1.0	0.1	0.0	1.5	2.8	1.5	0.8	0.3	11.2	
4.1 - 5.0	0.1	0.0	0.0	0.0	0.4	0.1	0.3	0.4	0.8	0.8	0.1	0.3	3.2	1.1	0.4	0.1	8.4	
5.1 - 6.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.7	0.3	0.4	1.7	1.1	0.0	0.7	5.7	
6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.6	0.4	0.3	1.1	1.7	0.1	0.3	4.9	
7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.8	0.1	0.1	0.4	2.1	
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	0.1	0.0	0.0	0.1	0.3	0.6	
9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	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	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4	
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	0.0	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	0.1	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	0.1	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	0.1	0.0	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	1.7	1.8	3.5	3.4	7.7	8.7	12.9	10.3	6.4	4.6	2.5	4.9	14.5	9.8	3.5	3.8	100.0	
Average Speed	1.5	1.2	1.3	1.3	2.2	1.6	1.5	1.9	2.4	3.7	4.7	4.0	4.2	4.2	3.1	3.8	2.7	

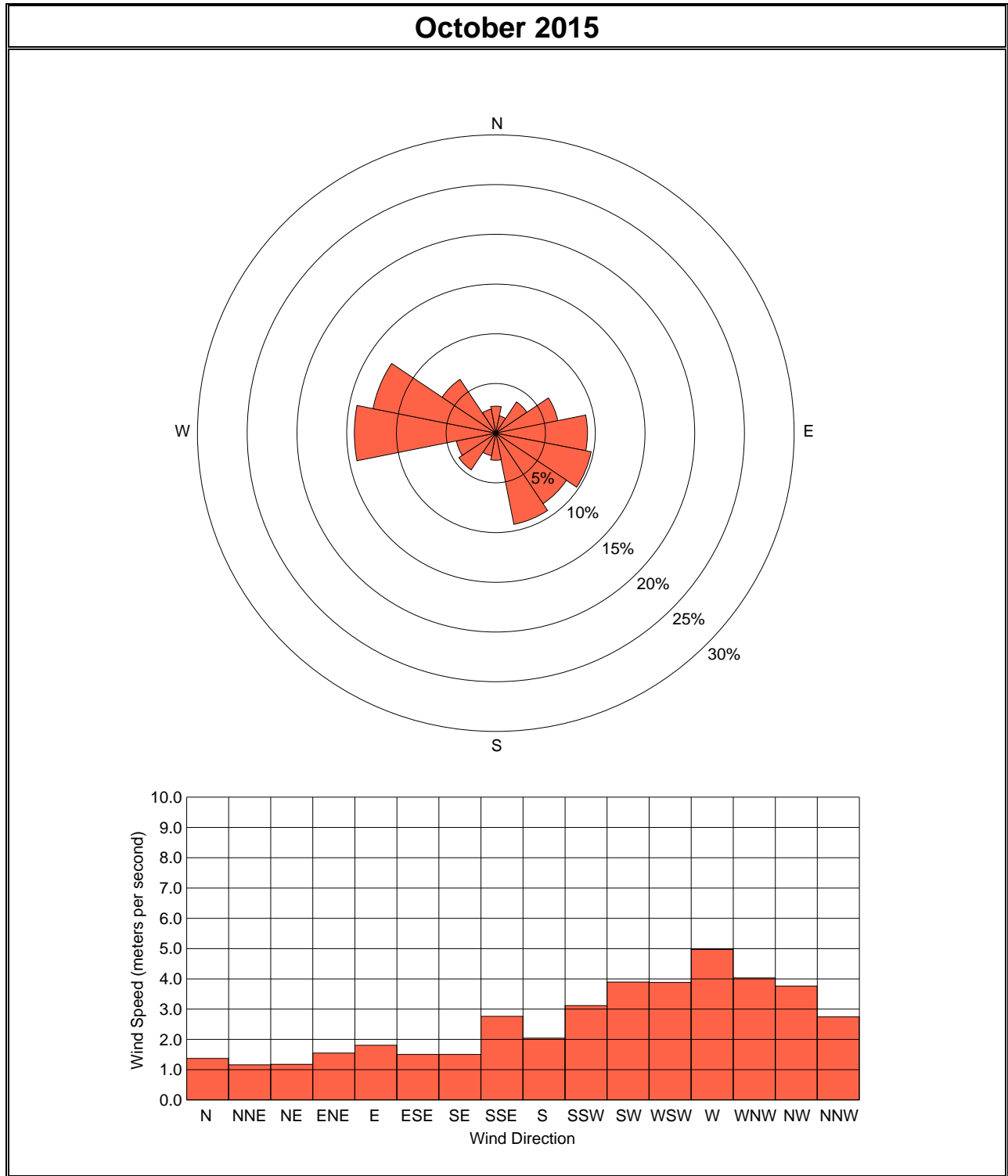
**Table 6. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower**

December 2015																		
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	1.3	2.0	1.6	2.0	3.1	3.6	4.5	1.9	0.8	0.4	0.7	0.8	0.9	0.9	0.9	26.7
	1.1 - 2.0	1.2	1.5	1.1	1.6	2.2	4.3	4.6	4.2	1.2	0.4	0.0	1.6	2.2	1.1	1.2	0.7	29.0
	2.1 - 3.0	0.1	0.1	0.0	0.3	0.8	1.6	0.3	1.1	1.5	0.3	0.7	0.3	0.9	1.8	1.3	0.3	11.3
	3.1 - 4.0	0.0	0.1	0.0	0.0	1.5	0.7	1.2	2.6	0.7	0.5	0.4	0.4	1.5	1.9	0.3	0.0	11.7
	4.1 - 5.0	0.1	0.1	0.0	0.0	1.6	0.1	0.7	0.4	0.8	1.1	0.7	0.1	1.6	0.7	0.3	0.9	9.3
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.3	1.1	0.3	0.7	0.4	1.2	0.1	0.3	0.3	5.4
	6.1 - 7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.3	0.9	0.0	0.3	0.7	3.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.4	1.6
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.0	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	0.3	0.1	0.1	0.0	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	0.4	0.0	0.0	0.0	0.4
	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	2.7	3.2	3.1	3.5	8.8	9.9	10.5	13.0	7.6	3.6	4.5	4.3	9.9	6.6	4.7	4.2		100.0
Average Speed	1.5	1.4	1.0	1.2	2.6	1.6	1.8	1.8	2.9	3.4	5.1	3.4	3.9	2.7	2.5	3.8		2.5

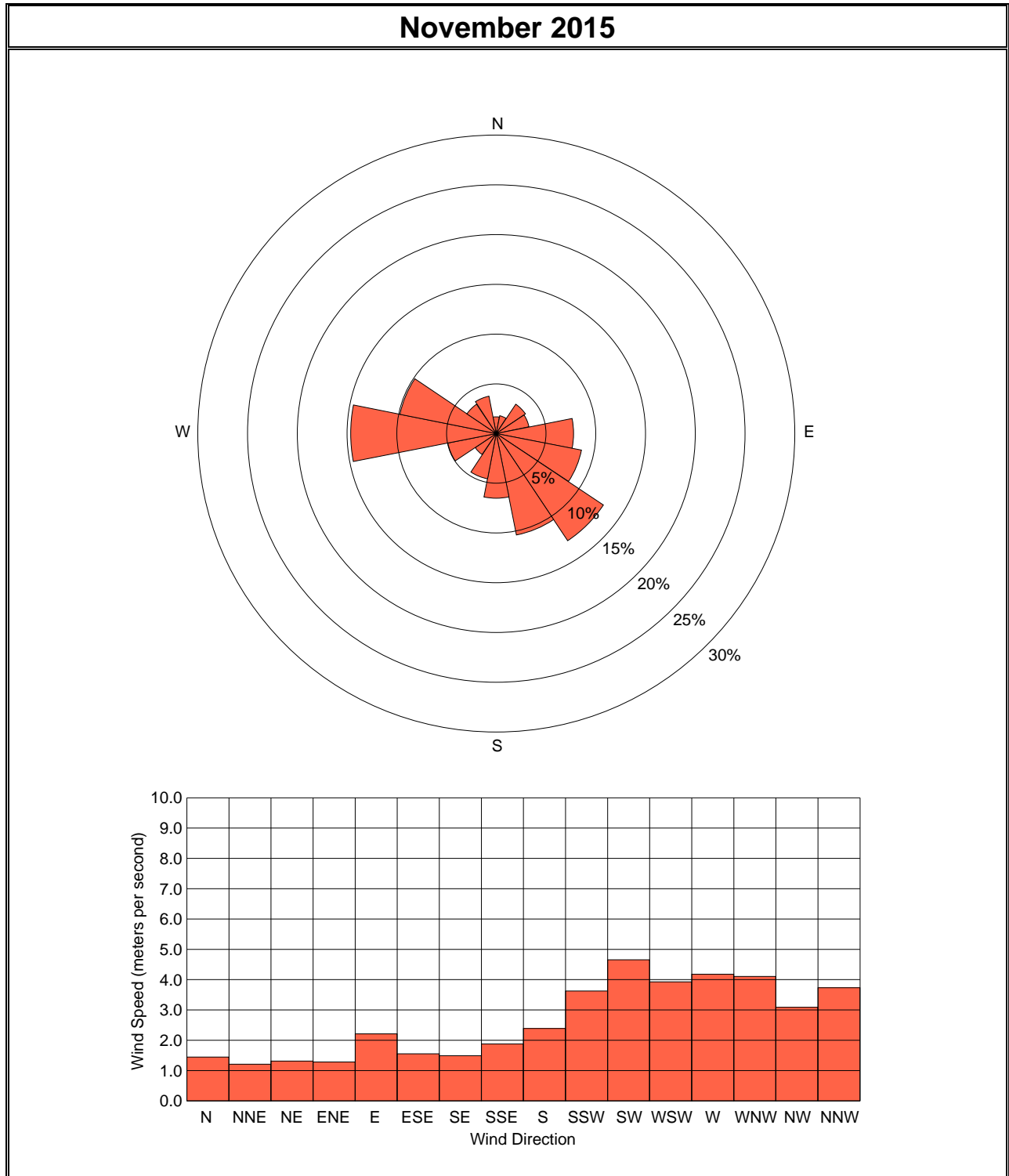
**Table 7. Quarterly Wind Rose Summary, Black Butte Copper Project Met Tower**

Fourth Quarter 2015																		
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	1.3	1.1	1.6	1.8	1.7	3.0	3.8	3.5	1.4	0.8	0.4	0.4	0.5	0.7	0.7	1.0	23.7
	1.1 - 2.0	0.6	0.9	1.6	1.8	3.0	4.1	4.6	3.4	1.4	0.5	0.4	0.9	1.3	1.2	1.0	0.5	27.1
	2.1 - 3.0	0.1	0.1	0.2	0.6	1.9	1.7	1.2	0.9	0.8	0.2	0.5	0.6	2.0	2.0	0.9	0.2	14.0
	3.1 - 4.0	0.1	0.1	0.0	0.2	0.9	0.5	0.5	1.6	0.7	0.4	0.3	1.0	2.7	2.3	0.7	0.1	12.2
	4.1 - 5.0	0.2	0.0	0.0	0.0	0.7	0.1	0.4	0.8	0.5	0.7	0.5	0.4	2.2	1.2	0.6	0.5	8.9
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4	0.5	0.5	0.5	0.5	1.4	0.9	0.5	0.4	5.9
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.6	0.3	1.0	0.8	0.3	4.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.2	0.6	0.3	0.1	1.9
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	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	0.1	0.1	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	0.0	0.0	0.1	0.0	0.3	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	0.1	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	0.1	0.0	0.0	0.2
	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	0.1	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	2.4	2.3	3.5	4.4	8.5	9.4	10.6	10.9	5.5	3.5	3.8	4.4	12.8	9.6	4.9	3.5	100.0	
Average Speed	1.5	1.3	1.2	1.4	2.2	1.6	1.6	2.1	2.6	3.4	4.5	3.8	4.4	3.8	3.2	3.5	2.7	

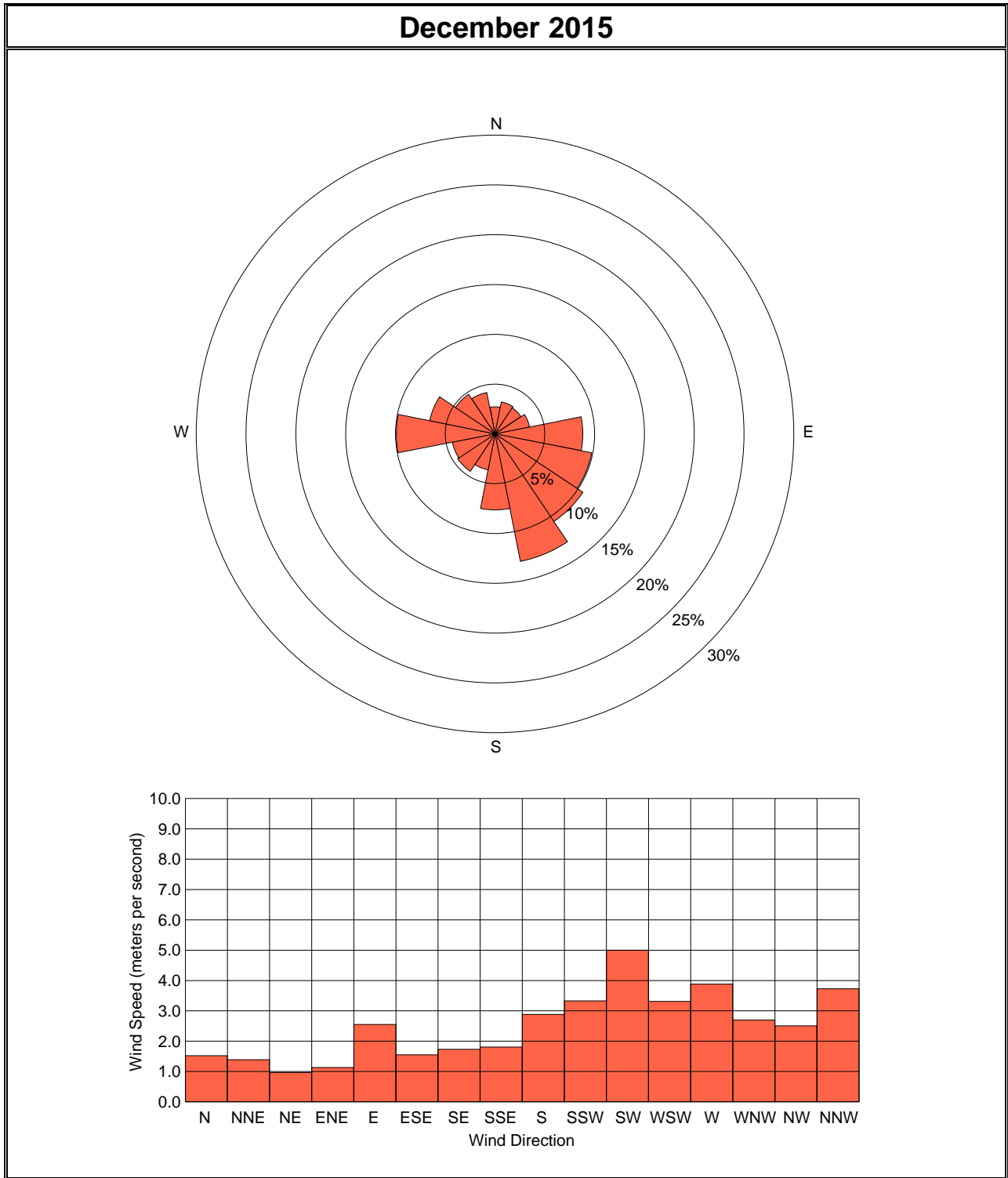
**Figure 2. Monthly Wind Rose, Black Butte Copper Project Met Tower**



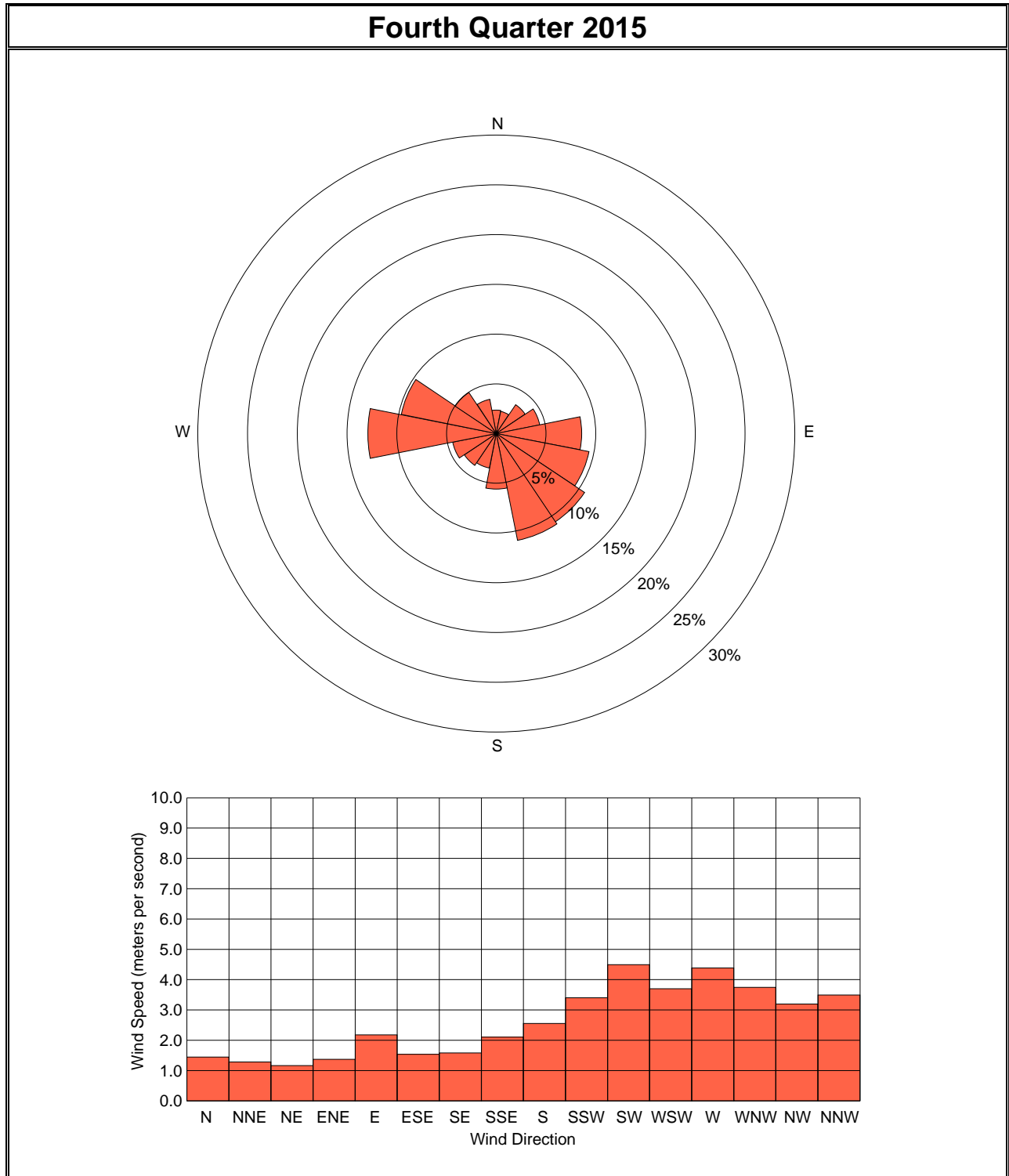
**Figure 3. Monthly Wind Rose, Black Butte Copper Project Met Tower**



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



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



**APPENDIX A: HOURLY AIR QUALITY AND  
METEOROLOGICAL DATA, FOURTH QUARTER 2015**

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Speed (meters per second)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	0.9	1.2	1.1	0.8	1.1	0.9	1.3	1.1	0.5	0.7	4.6	5.6	4.1	4.8	3.3	2.6	4.2	4.4	4.4	2.2	1.7	1.3	1.8	1.7	2.3	5.6	0.5
2	3.4	3.1	3.1	1.6	2.3	1.9	1.3	1.5	1.0	1.0	2.1	3.4	3.8	2.9	3.8	4.2	4.3	3.3	2.3	1.1	1.7	2.4	0.9	1.8	2.4	4.3	0.9
3	3.3	4.9	3.4	5.3	4.9	4.6	4.5	5.3	5.0	6.1	6.2	6.1	6.5	5.6	5.5	5.9	5.0	4.5	4.4	3.8	3.7	3.7	3.8	3.9	4.8	6.5	3.3
4	3.6	3.1	3.4	3.0	3.2	4.1	4.0	3.0	3.1	2.8	2.4	3.0	2.7	2.2	2.2	1.3	2.5	5.5	4.4	1.6	1.2	0.9	0.7	0.8	2.7	5.5	0.7
5	0.6	1.0	0.5	0.5	0.3	0.6	0.9	0.5	0.7	0.6	2.4	4.1	4.0	3.4	3.5	3.4	3.2	1.6	2.1	2.9	2.3	1.7	1.4	1.3	1.8	4.1	0.3
6	1.1	1.7	0.7	1.2	1.1	1.1	0.8	1.1	0.4	0.8	2.7	2.7	3.5	3.8	3.2	3.4	3.1	2.1	1.8	2.5	2.4	2.1	1.8	1.2	1.9	3.8	0.4
7	1.5	0.8	0.9	0.6	0.7	0.9	1.4	2.3	2.7	5.0	6.1	6.9	7.6	4.9	2.6	0.8	1.0	1.6	1.3	0.4	0.9	0.5	0.4	0.8	2.2	7.6	0.4
8	0.7	0.8	0.5	0.5	0.6	1.0	0.6	0.4	0.8	1.0	2.5	3.8	4.9	3.7	4.0	5.1	4.7	2.9	1.5	1.7	1.8	1.7	1.4	1.1	2.0	5.1	0.4
9	0.8	0.5	0.7	1.2	1.3	1.3	3.0	2.0	1.9	1.2	3.7	4.9	5.1	5.8	7.1	5.0	5.0	4.0	2.8	2.9	2.6	1.8	1.7	1.4	2.8	7.1	0.5
10	1.7	1.0	1.2	2.0	1.5	1.6	1.3	1.5	0.6	0.8	2.9	6.3	6.1	6.6	8.1	7.4	6.0	5.2	4.8	2.4	1.6	1.8	2.4	2.4	3.2	8.1	0.6
11	1.5	1.8	6.2	10.2	9.0	7.9	7.3	5.5	10.2	13.0	12.4	13.8	12.9	11.7	11.5	10.7	9.7	7.4	7.5	3.8	1.7	1.9	2.6	1.8	7.6	13.8	1.5
12	1.8	2.8	2.0	1.8	1.5	1.8	1.8	1.3	1.2	4.0	5.9	6.5	7.4	5.1	3.7	6.5	4.6	2.2	2.1	2.4	4.0	6.9	7.1	8.0	3.9	8.0	1.2
13	6.7	5.7	6.2	4.8	3.3	2.3	2.1	1.2	0.7	4.0	4.8	8.6	10.4	9.7	9.3	8.7	7.8	5.7	3.6	2.0	4.0	5.6	6.9	4.1	5.3	10.4	0.7
14	2.8	1.5	2.1	2.1	2.3	2.0	1.4	0.8	0.7	5.4	6.0	5.3	6.0	5.8	6.0	6.2	5.2	3.9	2.0	2.8	2.7	2.5	1.7	1.3	3.3	6.2	0.7
15	1.0	1.9	1.2	1.1	0.8	1.1	1.0	1.3	1.0	4.0	6.3	7.0	7.4	7.0	6.7	6.7	7.1	3.9	1.2	1.5	1.6	1.0	1.4	2.0	3.1	7.4	0.8
16	1.3	0.9	0.8	0.7	0.6	0.9	0.4	0.6	0.6	0.5	1.0	1.4	2.5	2.6	2.8	2.7	1.4	2.5	1.9	3.0	1.8	1.8	1.8	1.8	1.5	3.0	0.4
17	1.1	0.7	1.0	0.3	0.7	0.5	0.5	0.8	0.4	0.6	1.6	3.1	2.9	3.9	3.5	3.4	3.9	2.3	2.1	1.6	1.8	1.8	1.7	1.6	1.7	3.9	0.3
18	1.7	1.7	1.1	0.9	1.4	2.1	0.8	1.1	1.0	0.9	1.3	3.1	4.7	5.0	4.7	2.8	2.0	1.1	1.5	1.1	1.3	1.7	1.5	1.6	1.9	5.0	0.8
19	1.4	1.0	0.4	1.5	1.0	1.2	0.8	0.6	0.9	0.9	1.0	3.1	3.3	3.0	2.7	2.7	2.7	2.8	1.3	1.5	1.0	1.3	3.3	4.3	1.8	4.3	0.4
20	5.3	6.5	4.5	3.9	4.0	4.2	3.7	5.4	3.8	5.3	6.0	4.9	6.7	5.1	4.4	3.9	2.7	3.0	2.2	3.4	2.6	1.4	1.4	0.9	4.0	6.7	0.9
21	1.2	0.7	0.6	1.0	0.6	0.8	0.7	0.7	0.3	0.7	1.0	1.1	2.3	3.5	3.2	2.9	3.6	2.2	2.9	3.2	2.6	2.7	2.5	1.7	1.8	3.6	0.3
22	1.7	1.2	0.9	0.9	1.0	0.6	0.7	0.8	0.5	0.7	2.7	4.2	3.9	4.5	4.8	5.2	4.5	2.4	2.2	1.7	1.6	1.5	1.4	1.0	2.1	5.2	0.5
23	1.2	1.5	1.3	1.3	0.4	0.6	0.5	0.7	0.6	1.0	2.7	3.4	3.3	3.8	3.9	3.7	2.9	2.7	2.0	3.0	3.2	2.2	0.8	1.2	2.0	3.9	0.4
24	1.1	0.9	1.1	0.8	1.0	0.9	1.1	0.9	0.9	0.8	0.9	3.8	3.7	2.8	2.5	3.3	2.2	1.5	4.4	3.6	2.4	1.9	1.2	1.9	1.9	4.4	0.8
25	2.6	4.6	4.5	3.7	3.2	3.3	2.3	1.4	0.5	0.7	0.9	4.3	5.2	6.0	6.0	4.5	3.2	4.6	4.7	4.9	4.2	2.8	2.7	3.5	3.5	6.0	0.5
26	1.7	2.0	1.0	1.5	1.9	2.8	1.9	1.4	1.2	2.7	2.3	4.1	3.3	3.3	3.8	4.7	2.8	2.0	3.3	3.3	2.4	1.6	3.3	4.2	2.6	4.7	1.0
27	3.7	2.3	1.1	1.8	1.5	1.8	3.6	4.4	5.3	6.1	5.7	5.3	5.2	4.1	3.8	3.9	2.5	1.3	1.2	0.7	0.9	0.7	1.1	0.9	2.9	6.1	0.7
28	0.8	0.7	0.9	0.5	0.5	0.6	0.3	0.4	0.4	0.6	2.9	4.4	5.0	4.0	4.8	5.2	2.1	1.4	2.1	2.0	1.5	0.9	1.4	0.9	1.8	5.2	0.3
29	0.5	0.7	1.1	0.9	1.0	0.7	0.8	0.7	0.8	1.0	2.7	5.1	4.7	5.2	6.5	6.2	3.7	2.4	1.2	1.0	0.9	3.7	3.8	5.4	2.5	6.5	0.5
30	2.9	1.4	1.3	1.8	1.6	0.8	1.6	1.0	2.2	4.3	4.6	6.5	5.1	6.0	6.5	6.3	6.1	6.0	6.7	7.1	9.2	8.8	8.1	7.8	4.7	9.2	0.8
31	5.0	6.1	4.3	5.0	4.0	3.6	3.1	1.9	1.7	1.2	0.9	2.6	2.4	3.3	4.4	3.8	1.4	1.7	2.6	3.5	5.4	5.9	5.9	6.0	3.6	6.1	0.9
Avg	2.1	2.1	1.9	2.0	1.9	1.9	1.8	1.7	1.7	2.5	3.5	4.8	5.1	4.8	4.8	4.6	3.9	3.2	2.9	2.5	2.5	2.5	2.5	2.5	2.9	6.0	0.7
Max	6.7	6.5	6.2	10.2	9.0	7.9	7.3	5.5	10.2	13.0	12.4	13.8	12.9	11.7	11.5	10.7	9.7	7.4	7.5	7.1	9.2	8.8	8.1	8.0	7.6	13.8	3.3
Min	0.5	0.5	0.4	0.3	0.3	0.5	0.3	0.4	0.3	0.5	0.9	1.1	2.3	2.2	2.2	0.8	1.0	1.1	1.2	0.4	0.9	0.5	0.4	0.8	1.5	3.0	0.3

A-1

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Speed (meters per second)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	5.3	3.8	4.3	4.2	3.4	1.9	2.0	2.3	3.7	3.9	5.0	7.3	7.8	7.6	9.3	8.2	8.0	4.5	5.8	4.9	4.2	7.0	4.1	2.0	5.0	9.3	1.9
2	2.0	2.6	2.3	2.2	1.9	2.4	0.9	1.1	1.0	0.5	0.6	0.8	1.6	2.5	1.4	1.2	1.1	1.6	3.8	2.6	1.9	1.7	1.5	1.9	1.7	3.8	0.5
3	0.7	0.5	0.4	0.6	0.9	0.5	0.5	0.8	0.5	0.4	1.3	0.8	1.1	1.3	2.2	3.3	2.6	2.0	Wx	Wx	Wx	Wx	Wx	1.5	1.2	3.3	0.4
4	3.7	2.8	3.6	3.5	2.4	2.6	2.1	2.3	3.2	3.3	3.5	2.8	3.4	3.1	2.8	2.7	2.5	2.2	2.0	0.8	1.0	2.4	2.7	1.6	2.6	3.7	0.8
5	1.7	3.7	3.1	1.8	1.1	0.9	0.6	1.8	3.4	3.8	4.9	6.4	5.3	4.8	5.9	6.0	4.4	3.1	3.1	0.9	0.7	0.6	0.9	1.6	2.9	6.4	0.6
6	0.4	0.7	0.9	0.6	0.4	0.3	0.7	0.3	0.2	0.4	3.6	7.0	7.8	7.5	7.3	6.1	4.4	3.7	2.0	1.9	2.2	3.0	2.1	2.0	2.7	7.8	0.2
7	1.2	1.4	1.2	1.0	1.0	1.0	1.2	1.0	0.7	0.7	1.7	3.7	3.9	4.1	4.0	3.8	4.5	2.7	2.4	1.9	1.6	1.7	2.9	2.7	2.2	4.5	0.7
8	2.1	2.4	2.4	2.1	2.5	2.4	2.3	1.9	2.5	4.6	6.0	3.9	3.8	4.7	5.3	4.6	3.5	2.4	1.6	2.0	3.9	5.8	4.5	3.1	3.3	6.0	1.6
9	2.2	1.7	2.0	1.5	1.3	1.4	1.3	1.4	1.5	1.3	1.2	3.1	4.8	6.8	3.0	3.8	3.5	1.4	3.9	2.3	1.5	2.6	3.3	1.7	2.4	6.8	1.2
10	2.8	2.9	4.6	4.6	4.8	3.3	3.4	3.0	1.8	2.8	2.4	3.2	3.9	2.9	3.6	3.8	2.3	2.4	3.7	2.6	0.9	1.3	1.2	0.8	2.9	4.8	0.8
11	1.4	3.1	3.7	3.1	2.2	1.8	2.5	2.6	1.7	2.7	5.5	5.9	2.9	2.9	3.8	3.3	3.6	4.1	5.5	6.1	7.0	6.2	4.6	2.2	3.7	7.0	1.4
12	1.9	2.2	1.9	2.4	2.7	1.8	2.7	1.8	1.3	1.7	6.6	6.6	7.3	5.3	6.1	6.3	3.4	1.5	1.6	1.7	2.0	1.2	1.5	1.3	3.0	7.3	1.2
13	1.4	0.8	1.0	1.8	2.3	2.4	2.9	2.3	3.9	9.4	5.0	5.1	5.2	6.2	6.3	5.8	6.7	6.0	4.8	5.1	4.2	4.9	4.1	3.7	4.2	9.4	0.8
14	2.5	3.1	2.5	2.0	2.2	1.2	1.5	1.7	2.9	2.1	4.7	6.0	6.7	5.4	4.2	3.3	1.8	3.6	2.3	3.7	2.9	2.3	1.7	4.1	3.1	6.7	1.2
15	5.3	3.8	1.3	1.2	1.3	1.3	1.8	1.8	2.3	1.2	0.8	3.1	3.4	4.6	3.8	1.9	1.1	1.5	2.6	1.4	1.1	2.5	2.3	1.8	2.2	5.3	0.8
16	1.8	1.3	0.8	1.3	0.9	1.6	4.0	5.0	5.1	6.9	6.8	6.6	5.6	6.2	6.0	4.9	5.4	4.7	3.6	1.5	1.4	1.4	1.2	1.9	3.6	6.9	0.8
17	1.8	1.2	1.6	1.0	0.9	1.2	1.8	0.9	1.0	0.9	0.8	1.6	3.3	6.3	6.1	4.9	4.7	7.0	4.6	6.5	5.7	5.5	9.5	10.2	3.7	10.2	0.8
18	10.1	10.4	11.2	14.9	13.3	12.7	8.5	6.3	6.7	6.2	5.4	5.4	4.2	5.4	6.4	7.4	4.8	4.1	2.8	1.3	1.4	1.8	1.8	0.8	6.4	14.9	0.8
19	4.8	5.5	4.4	4.6	2.6	2.7	3.2	3.7	4.2	4.4	4.4	5.4	5.7	4.7	4.1	2.2	1.1	1.0	1.5	1.3	0.8	0.5	0.6	1.0	3.1	5.7	0.5
20	0.7	0.8	0.9	0.9	0.5	1.3	1.1	1.2	3.8	4.2	3.9	3.7	5.8	7.7	5.9	4.0	2.7	1.6	1.7	1.6	1.5	1.2	0.9	0.5	2.4	7.7	0.5
21	1.0	0.7	0.7	0.8	1.2	1.2	1.0	1.8	2.5	3.7	4.4	6.1	6.1	5.8	6.6	4.7	5.8	7.4	3.5	1.5	4.0	4.1	2.4	2.5	3.3	7.4	0.7
22	2.7	2.0	2.0	1.6	2.4	2.5	3.0	4.0	2.7	1.4	1.7	3.0	7.0	4.6	4.3	3.0	2.3	4.7	3.0	1.6	1.1	1.1	1.3	1.0	2.7	7.0	1.0
23	1.3	0.8	1.2	1.1	1.4	1.7	1.3	1.1	1.7	1.1	0.8	2.8	4.5	3.2	2.7	3.6	2.3	1.5	2.5	1.5	2.0	1.3	1.5	1.2	1.8	4.5	0.8
24	1.3	1.6	1.5	1.0	1.2	1.9	1.6	1.2	0.9	1.6	4.5	2.8	3.5	6.1	7.5	8.4	8.2	6.5	5.8	6.4	5.9	5.3	7.3	8.0	4.2	8.4	0.9
25	7.4	5.2	5.3	4.6	4.0	5.0	3.5	2.4	2.1	1.7	2.3	1.2	2.1	3.0	2.6	1.4	1.1	1.0	0.7	0.9	0.8	0.7	0.6	0.6	2.5	7.4	0.6
26	0.8	1.0	0.9	0.8	0.5	0.9	0.6	0.6	0.5	0.4	0.6	2.0	2.5	3.0	3.2	1.7	1.7	1.2	1.8	1.4	1.5	0.7	1.5	0.9	1.3	3.2	0.4
27	0.7	1.2	0.5	0.8	0.6	0.4	0.6	0.5	0.6	0.5	0.4	0.5	0.6	0.6	0.7	1.1	1.1	1.8	1.0	0.9	1.3	0.7	0.5	0.5	0.8	1.8	0.4
28	0.7	0.6	0.7	0.9	0.5	0.3	0.4	0.4	0.5	0.4	0.6	0.7	2.2	2.8	2.9	3.5	1.8	0.8	1.1	1.0	0.7	0.8	0.9	0.9	1.1	3.5	0.3
29	0.5	0.5	0.4	0.6	0.7	0.4	0.8	0.7	0.5	0.4	0.3	0.5	0.9	1.7	1.8	1.6	1.3	1.5	1.3	1.1	1.0	1.6	1.2	1.0	0.9	1.8	0.3
30	1.5	0.7	0.5	0.6	0.6	0.5	0.6	0.6	0.8	0.7	0.7	0.9	0.6	0.9	1.9	1.8	1.3	2.1	1.9	1.3	1.4	1.2	1.2	1.1	1.1	2.1	0.5
Avg	2.4	2.3	2.3	2.3	2.1	2.0	1.9	1.9	2.1	2.4	3.0	3.6	4.1	4.4	4.4	3.9	3.3	3.0	2.8	2.3	2.3	2.5	2.4	2.1	2.7	6.2	0.8
Max	10.1	10.4	11.2	14.9	13.3	12.7	8.5	6.3	6.7	9.4	6.8	7.3	7.8	7.7	9.3	8.4	8.2	7.4	5.8	6.5	7.0	7.0	9.5	10.2	6.4	14.9	1.9
Min	0.4	0.5	0.4	0.6	0.4	0.3	0.4	0.3	0.2	0.4	0.3	0.5	0.6	0.6	0.7	1.1	1.1	0.8	0.7	0.8	0.7	0.5	0.5	0.5	0.8	1.8	0.2

A-2

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Speed (meters per second)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	0.9	0.9	1.5	1.4	1.0	1.3	1.6	1.1	0.8	0.9	0.6	1.4	2.5	3.2	2.8	2.1	1.6	1.7	3.5	1.9	1.8	1.6	1.3	1.0	1.6	3.5	0.6
2	1.0	0.9	0.7	0.6	0.7	0.5	0.8	0.9	0.9	0.9	1.4	1.1	2.3	2.8	1.4	1.4	1.1	0.9	1.9	1.0	1.0	1.5	1.2	0.7	1.1	2.8	0.5
3	1.0	0.8	1.0	1.2	1.7	1.9	1.6	1.4	1.3	1.8	3.5	5.0	5.1	4.7	3.6	2.8	3.3	5.5	5.3	5.2	4.9	4.5	4.1	4.0	3.1	5.5	0.8
4	5.2	5.5	4.1	3.4	2.0	4.2	2.8	1.6	4.7	7.4	Au	Au	Au	6.1	6.3	4.9	6.0	6.4	4.0	1.3	1.5	2.2	1.9	1.8	4.0	7.4	1.3
5	1.4	2.5	3.8	1.4	1.5	2.1	2.6	2.1	1.2	0.9	1.7	1.4	4.7	4.6	4.6	3.7	3.0	2.0	2.5	1.7	3.3	3.2	2.6	4.6	2.6	4.7	0.9
6	4.7	4.1	4.8	4.4	4.3	3.0	3.9	8.5	3.1	4.1	6.0	6.6	8.1	5.9	3.9	5.8	5.9	6.1	5.2	5.6	4.9	3.8	2.6	2.7	4.9	8.5	2.6
7	4.8	3.3	2.6	2.7	3.1	2.8	2.9	2.7	3.3	2.6	5.5	5.0	4.3	3.6	3.9	5.6	5.2	5.7	4.9	4.1	2.2	2.9	3.5	4.5	3.8	5.7	2.2
8	6.2	4.9	5.2	5.4	7.0	4.7	4.1	3.9	3.8	3.8	3.8	1.4	1.7	5.9	4.5	4.0	4.9	5.6	6.3	9.2	7.7	2.2	7.6	6.9	5.0	9.2	1.4
9	3.5	2.4	4.3	8.1	5.3	3.7	6.9	6.2	7.6	7.1	5.7	8.1	9.4	10.3	6.7	7.5	10.2	7.3	10.0	7.9	10.2	9.9	9.0	8.6	7.3	10.3	2.4
10	6.2	6.0	6.4	4.3	2.4	0.8	1.9	1.8	2.4	3.5	3.2	3.5	1.9	3.2	3.5	3.1	2.6	0.9	1.2	0.8	1.1	2.3	1.2	1.6	2.7	6.4	0.8
11	1.4	1.7	1.3	1.1	1.3	1.5	0.9	1.5	1.8	1.0	0.8	0.8	1.2	3.1	3.1	3.4	1.5	1.4	1.7	1.2	1.1	1.1	1.3	1.0	1.5	3.4	0.8
12	1.5	0.8	1.3	1.2	1.1	0.7	0.9	1.0	1.1	0.7	0.5	2.4	4.2	4.1	3.8	3.0	1.5	1.6	3.3	4.0	2.5	5.7	3.8	5.5	2.3	5.7	0.5
13	5.1	3.1	3.1	3.5	2.4	3.1	1.4	2.5	4.6	3.1	3.3	5.4	5.4	4.8	3.6	3.1	2.7	3.3	2.1	1.3	1.0	0.8	1.0	1.2	3.0	5.4	0.8
14	1.8	2.1	2.6	2.2	1.5	4.4	4.8	4.9	5.5	6.2	6.7	7.9	7.5	6.6	6.1	4.5	4.6	5.1	6.2	6.1	7.6	7.0	6.3	7.2	5.2	7.9	1.5
15	4.9	3.4	2.5	0.8	1.2	0.8	0.9	0.4	0.3	0.5	0.4	0.4	0.8	2.6	2.6	3.2	3.1	1.0	1.1	1.3	1.6	1.1	0.9	0.6	1.5	4.9	0.3
16	0.4	0.6	0.4	0.3	0.7	1.6	1.1	0.8	0.7	0.8	0.2	0.2	0.6	4.5	4.5	3.7	4.7	4.4	3.3	2.1	1.4	0.7	1.3	1.4	1.7	4.7	0.2
17	1.7	1.2	1.3	1.2	0.7	0.8	0.7	0.7	0.9	1.0	0.8	0.8	1.0	1.6	1.1	0.7	1.4	1.2	1.3	1.3	0.7	1.0	1.1	0.9	1.0	1.7	0.7
18	1.2	3.6	2.9	4.3	4.4	4.7	4.6	4.1	3.5	4.1	4.0	2.7	1.7	3.3	3.4	3.1	1.3	2.1	1.3	1.3	2.0	4.2	3.7	6.6	3.3	6.6	1.2
19	5.2	5.2	3.1	3.6	1.0	1.6	0.8	1.1	2.6	3.3	1.8	1.4	1.4	1.8	1.5	1.7	3.0	2.6	1.8	1.2	0.8	0.9	1.1	0.7	2.1	5.2	0.7
20	1.0	0.9	1.1	0.8	0.6	0.6	0.5	0.6	0.9	0.5	0.7	0.9	1.1	1.2	2.6	1.8	1.2	1.4	2.7	1.5	1.5	1.3	0.9	1.0	1.1	2.7	0.5
21	2.0	1.4	1.3	1.2	0.8	1.5	2.2	0.7	1.1	3.0	3.2	3.8	3.9	4.6	3.9	3.6	3.2	3.3	4.3	4.0	1.9	1.2	1.1	1.1	2.4	4.6	0.7
22	1.0	1.2	0.9	1.3	0.4	1.9	3.3	4.9	4.5	4.1	4.9	5.4	5.3	5.9	5.2	4.1	3.8	4.1	5.6	3.6	2.2	1.5	2.1	1.8	3.3	5.9	0.4
23	0.8	1.5	1.4	1.6	1.5	1.0	1.1	0.6	0.9	0.6	0.5	0.6	0.4	1.6	3.7	1.2	1.1	1.5	0.8	1.0	0.9	0.5	0.8	1.1	1.1	3.7	0.4
24	1.0	0.8	1.1	0.9	0.6	0.7	1.0	1.5	2.6	2.7	1.7	2.0	2.4	2.9	1.9	4.2	1.3	1.4	2.4	1.6	1.9	2.1	1.1	1.6	1.7	4.2	0.6
25	1.4	0.8	1.5	2.3	3.3	2.2	2.1	1.9	1.9	1.7	0.8	0.5	0.7	1.4	2.5	2.5	1.1	1.0	0.8	0.7	0.8	0.5	1.0	0.4	1.4	3.3	0.4
26	0.5	0.6	0.6	1.0	0.6	0.4	0.6	0.5	0.6	0.5	0.5	0.8	2.4	4.6	4.4	2.0	1.4	2.1	1.9	0.9	0.7	0.7	1.0	1.0	1.3	4.6	0.4
27	1.2	1.5	1.3	1.6	1.2	1.5	1.4	0.8	1.5	1.4	0.9	0.7	0.6	0.9	1.0	1.0	0.7	0.9	1.1	1.0	1.6	1.1	0.6	0.8	1.1	1.6	0.6
28	1.2	0.9	0.7	0.7	0.9	0.7	1.1	0.7	0.6	0.8	0.8	0.7	1.0	1.8	1.6	1.5	2.3	4.9	5.2	5.1	4.7	4.1	3.6	3.2	2.0	5.2	0.6
29	4.1	2.7	1.9	1.6	2.0	2.4	1.8	1.1	1.6	1.0	0.5	0.5	2.0	2.9	2.6	1.5	1.7	1.8	0.8	0.7	0.5	0.6	0.4	0.5	1.6	4.1	0.4
30	0.5	0.8	1.5	0.8	0.5	0.6	0.4	0.4	0.2	0.2	0.4	0.5	3.1	3.7	3.4	2.9	2.8	3.8	2.7	2.0	1.6	1.0	1.1	2.4	1.6	3.8	0.2
31	2.1	3.3	2.9	1.6	3.1	1.9	2.7	1.3	0.9	0.8	0.7	1.1	1.1	0.9	1.4	1.5	1.3	2.1	2.0	1.4	1.9	1.6	1.2	1.0	1.7	3.3	0.7
Avg	2.4	2.2	2.2	2.1	1.9	1.9	2.0	2.0	2.2	2.3	2.2	2.4	2.9	3.7	3.4	3.1	2.9	3.0	3.1	2.6	2.5	2.3	2.3	2.5	2.5	5.0	0.8
Max	6.2	6.0	6.4	8.1	7.0	4.7	6.9	8.5	7.6	7.4	6.7	8.1	9.4	10.3	6.7	7.5	10.2	7.3	10.0	9.2	10.2	9.9	9.0	8.6	7.3	10.3	2.6
Min	0.4	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.9	1.0	0.7	0.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	1.0	1.6	0.2

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Direction (degrees)**  
**October 2015**

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	68	74	113	113	174	203	110	42	4	18	160	163	128	167	150	119	139	152	167	141	151	155	192	100	132
2	78	106	105	307	302	294	77	64	51	171	271	300	277	280	281	349	10	11	4	287	274	299	274	317	324
3	326	319	320	339	311	329	318	319	321	324	324	339	342	331	305	306	305	298	300	286	283	290	297	268	313
4	286	295	293	293	289	280	293	295	289	275	226	258	300	255	283	192	128	161	164	144	108	100	70	58	262
5	2	127	171	134	318	141	144	122	232	1	286	299	270	301	308	265	260	276	118	85	96	48	36	73	3
6	51	132	47	102	123	145	155	170	274	61	162	179	213	222	246	250	292	280	136	87	69	85	93	92	136
7	84	42	121	93	29	128	26	63	338	279	287	281	282	291	310	97	278	159	154	183	126	227	116	121	98
8	99	131	78	198	240	142	158	113	113	37	289	259	258	280	254	256	261	263	148	112	111	111	110	138	164
9	173	15	75	139	138	156	89	84	145	99	220	236	262	268	276	246	238	223	132	98	97	83	102	102	144
10	77	89	109	100	35	119	105	175	127	7	162	220	210	234	232	224	229	209	192	221	162	103	102	115	153
11	11	224	248	279	284	288	271	248	271	267	269	278	280	285	286	281	278	279	287	270	304	86	88	77	280
12	106	94	56	80	53	30	70	24	63	304	260	268	277	285	253	238	254	247	174	60	337	294	288	287	321
13	280	287	286	295	102	102	93	70	108	295	284	264	261	258	264	278	308	318	312	292	283	298	277	284	289
14	271	224	225	116	114	111	101	100	24	289	277	304	292	266	285	282	288	290	73	87	87	60	53	44	349
15	164	154	125	118	132	347	351	323	156	148	157	161	154	158	152	151	151	139	151	137	146	143	101	98	140
16	105	35	32	114	121	150	4	128	359	53	263	308	324	302	299	301	342	135	140	117	109	87	79	93	64
17	100	52	137	139	107	98	122	141	57	359	79	176	159	213	207	184	176	145	109	87	91	74	78	103	118
18	123	129	103	61	94	123	193	2	155	25	109	295	271	269	296	322	308	2	142	55	51	118	112	76	79
19	100	113	61	125	159	6	147	297	352	19	343	155	168	171	173	212	286	277	125	145	204	258	269	272	179
20	278	284	273	281	276	286	308	304	295	286	305	305	314	323	328	18	339	271	79	84	81	69	103	105	317
21	151	141	76	180	115	162	160	150	343	274	328	50	219	277	277	262	288	168	113	105	106	86	111	125	145
22	86	46	59	67	97	41	95	114	123	345	298	296	286	282	285	291	306	313	73	48	63	172	176	146	43
23	140	95	60	111	287	98	121	144	313	18	280	257	265	261	262	259	265	262	123	93	93	66	12	58	83
24	76	79	78	92	64	54	56	68	153	339	56	280	298	279	259	281	291	124	279	288	55	89	8	210	31
25	64	75	84	95	73	87	60	121	162	126	167	150	163	170	162	159	167	163	156	147	158	139	141	158	133
26	129	138	167	178	157	142	138	151	152	143	155	311	279	260	265	259	299	79	66	88	97	48	250	256	162
27	291	315	290	296	301	304	305	298	287	287	285	325	322	319	311	277	270	307	117	107	153	285	153	161	292
28	162	99	144	217	101	299	343	302	133	45	314	269	260	256	262	266	251	166	112	97	122	109	138	153	178
29	99	69	129	133	126	153	95	11	82	309	297	268	257	246	259	263	266	271	79	222	156	283	282	267	236
30	283	331	75	130	144	296	138	360	105	226	218	226	218	209	224	216	219	253	267	259	264	265	270	275	238
31	265	266	286	269	274	266	280	271	253	246	106	184	245	243	217	212	221	223	217	220	215	213	226	273	241
Prev	94	86	93	125	109	117	95	72	71	336	263	262	260	261	263	254	269	238	134	119	115	99	109	117	195

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Direction (degrees)**  
**November 2015**

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	294	282	274	278	238	45	116	65	239	288	262	248	242	231	252	256	273	272	293	283	263	266	262	283	267
2	228	266	109	76	138	84	85	132	133	352	334	28	291	293	299	326	328	160	157	163	166	150	122	159	133
3	164	317	123	195	298	184	215	203	109	137	156	204	178	184	158	159	204	189	206	Wx	Wx	Wx	158	285	184
4	314	302	304	302	300	298	301	305	296	260	270	280	258	255	265	287	285	275	262	238	193	235	267	288	278
5	264	271	293	301	301	326	117	247	270	271	268	264	274	261	265	259	268	278	290	56	164	173	188	181	262
6	222	166	172	360	165	314	156	146	202	65	269	267	265	259	259	271	274	271	263	204	136	101	103	113	215
7	81	148	127	135	151	163	169	166	188	137	101	157	164	161	150	167	153	161	142	114	102	92	92	92	139
8	101	116	129	130	138	138	141	134	117	145	158	169	139	176	193	187	164	138	115	155	95	87	104	107	136
9	135	137	91	126	136	146	135	38	110	35	142	150	129	141	158	244	321	210	316	268	283	267	272	236	160
10	283	281	290	295	268	303	312	306	304	291	278	257	264	278	264	266	254	258	247	254	75	139	139	159	271
11	210	271	257	256	267	114	96	97	91	299	275	291	274	284	289	265	274	273	268	283	292	293	281	12	277
12	177	115	84	97	113	92	85	56	101	111	251	259	256	249	234	239	211	178	139	131	127	110	152	160	147
13	94	135	116	112	109	128	102	154	179	226	222	201	211	212	215	214	231	218	209	210	212	203	200	188	183
14	171	157	170	153	166	296	114	125	99	99	195	198	192	181	178	177	112	91	105	106	128	134	145	98	145
15	93	107	105	120	139	151	115	81	98	140	65	149	184	172	163	147	127	135	112	157	125	101	134	90	125
16	95	66	335	102	341	33	296	290	288	286	287	284	287	291	302	293	278	266	279	269	171	140	132	99	296
17	148	145	181	118	249	163	106	350	330	74	292	55	181	210	188	183	203	202	169	170	149	182	211	212	176
18	223	235	276	284	278	295	305	299	312	303	280	278	294	286	288	299	305	304	273	222	108	54	128	127	283
19	280	272	273	277	263	262	273	271	259	258	255	252	258	270	285	252	265	113	80	25	26	306	72	89	276
20	38	135	148	138	52	130	71	22	354	351	5	334	267	263	281	283	247	181	136	89	50	100	115	81	70
21	168	165	125	168	116	173	160	60	47	330	309	288	268	265	266	272	282	281	269	311	84	89	101	77	220
22	80	58	65	42	49	36	35	59	98	14	62	324	292	292	279	270	33	80	83	86	123	132	149	181	58
23	90	121	136	174	164	159	141	147	153	169	207	131	150	145	167	190	143	124	108	94	137	148	164	193	148
24	158	127	146	107	80	84	116	147	338	290	279	259	281	260	319	331	335	338	342	339	330	336	328	328	330
25	327	334	333	332	321	276	286	260	200	255	273	272	291	282	299	263	248	144	111	340	343	278	62	123	292
26	118	133	128	137	111	146	199	187	161	38	49	264	317	268	243	234	207	132	117	100	125	68	113	124	141
27	128	137	73	143	154	116	137	118	141	154	4	42	5	346	325	334	40	89	101	122	168	155	171	156	111
28	140	119	115	134	116	145	127	98	134	34	50	352	262	257	260	255	238	176	163	142	77	93	128	169	137
29	168	129	58	127	139	185	150	133	204	110	17	2	330	320	289	264	233	148	108	122	107	186	158	134	143
30	128	162	66	30	47	78	343	5	169	70	148	351	139	15	272	287	176	88	59	51	28	43	55	23	58
Prev	151	153	122	130	149	134	127	109	156	358	276	268	250	251	252	252	247	185	160	148	121	132	140	136	183

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Wind Direction (degrees)**  
**December 2015**

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	320	9	29	33	331	39	31	32	351	31	34	9	315	287	299	302	306	109	92	104	67	116	120	90	24
2	139	145	166	138	153	164	171	161	149	149	67	4	154	241	268	2	89	199	86	169	42	99	71	49	131
3	138	114	150	147	145	145	145	144	151	124	139	144	146	145	124	104	103	87	97	98	92	90	87	85	123
4	85	87	95	100	29	212	171	163	212	222	Au	Au	Au	241	273	258	279	277	286	295	117	217	79	182	203
5	126	219	287	142	159	86	106	77	158	74	96	78	167	199	180	170	171	135	122	151	103	103	123	133	134
6	170	123	131	129	101	103	149	191	119	179	171	178	213	231	245	240	255	243	264	269	274	270	232	220	199
7	204	184	133	171	164	175	162	193	167	176	211	212	223	210	205	173	173	187	207	207	187	195	239	270	192
8	267	281	270	256	262	271	275	281	285	267	275	243	120	227	227	217	222	215	228	219	224	305	218	219	248
9	201	168	226	222	226	214	217	216	208	218	229	227	230	259	267	276	272	252	272	283	275	256	257	254	239
10	261	275	275	269	260	126	133	129	117	100	104	142	121	163	168	158	169	100	91	30	354	295	119	103	138
11	104	134	88	109	83	171	189	172	166	158	77	20	263	232	284	246	145	125	72	15	54	97	9	20	113
12	180	38	113	132	146	152	136	140	162	219	228	154	166	173	195	186	166	139	169	159	155	164	160	183	161
13	164	151	129	125	148	179	162	190	192	156	147	180	177	177	140	175	104	131	158	161	23	325	290	311	160
14	302	298	324	317	316	328	329	348	344	342	342	345	334	344	1	350	321	320	320	317	321	339	334	332	330
15	340	294	235	35	139	103	87	97	119	123	237	150	66	301	276	276	273	305	204	152	126	206	170	244	186
16	164	167	70	46	336	334	329	343	160	146	165	25	355	324	20	14	334	327	301	305	97	42	131	110	21
17	86	37	69	123	140	351	144	148	146	139	107	63	39	39	27	298	138	115	96	131	194	132	192	267	109
18	152	94	109	88	86	82	84	89	99	87	90	96	64	86	141	154	150	121	121	92	59	99	100	188	104
19	193	172	162	164	88	139	139	111	270	295	293	249	254	252	254	291	296	298	274	300	313	156	182	92	231
20	112	177	162	266	141	198	121	109	54	30	63	113	109	108	173	170	165	107	96	111	108	55	10	44	113
21	80	113	320	179	278	161	85	66	50	90	92	86	154	184	161	155	142	157	161	156	160	161	153	113	133
22	153	160	5	69	303	247	261	266	275	266	265	266	264	267	289	288	285	293	279	287	330	327	32	122	282
23	198	107	257	162	106	91	127	99	132	63	149	79	206	271	279	4	62	127	110	167	140	205	160	158	138
24	132	184	172	155	181	171	162	137	105	90	121	145	165	183	130	217	131	116	115	109	75	112	94	39	136
25	119	336	305	298	313	305	306	281	298	308	282	57	356	315	301	297	147	171	174	331	115	79	106	41	321
26	282	131	156	145	148	115	134	134	119	142	166	179	280	272	266	258	245	131	121	146	157	187	148	179	166
27	149	133	150	135	174	163	156	90	137	167	144	172	93	161	108	121	37	104	141	109	154	162	109	40	132
28	146	102	161	139	116	334	128	58	84	167	156	306	292	279	259	277	2	338	336	323	284	286	285	292	295
29	299	298	270	269	246	251	263	285	263	261	321	263	242	260	262	260	281	296	312	227	242	17	79	260	273
30	111	85	77	13	245	164	67	286	73	106	127	155	265	275	278	271	301	298	302	306	269	257	241	317	280
31	317	320	304	271	297	315	329	10	55	32	48	88	353	359	327	329	18	62	51	6	20	29	25	339	359
Prev	158	137	153	141	165	161	143	130	139	139	137	132	203	240	246	249	201	150	143	173	106	140	130	124	159

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Standard Deviation of Wind Direction (degrees)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	85	53	28	86	57	93	88	92	78	66	14	37	46	11	38	28	15	11	10	20	22	30	49	43	46	93	10
2	41	27	37	22	15	78	64	35	34	34	62	14	18	21	10	50	17	14	14	26	21	14	44	17	30	78	10
3	12	7	16	21	32	14	9	8	9	9	10	13	12	16	13	9	9	10	10	10	10	11	9	9	12	32	7
4	16	9	8	8	11	21	8	13	12	21	32	30	42	37	36	86	49	10	11	16	21	37	32	36	25	86	8
5	36	65	83	55	84	60	34	59	83	75	33	16	30	30	31	26	15	22	71	19	18	23	26	27	43	84	15
6	31	37	75	50	34	32	79	35	69	63	23	28	27	28	33	23	9	20	18	18	29	28	44	52	37	79	9
7	82	69	63	80	82	57	62	32	89	15	15	14	10	12	36	89	32	27	15	37	29	84	41	48	47	89	10
8	55	81	60	86	73	31	78	66	35	66	43	23	12	19	25	18	13	13	35	20	41	37	34	36	42	86	12
9	78	93	72	21	44	23	39	34	34	74	65	19	22	17	15	19	15	7	75	22	25	49	34	95	41	95	7
10	51	63	63	61	69	38	69	58	72	57	48	15	18	19	14	13	12	12	6	48	68	54	38	44	42	72	6
11	83	53	29	12	10	17	11	22	16	12	15	13	12	13	12	12	10	9	10	21	35	66	33	43	24	83	9
12	55	41	55	67	75	42	65	81	72	22	20	18	16	19	20	19	12	29	62	53	61	10	12	10	39	81	10
13	14	13	7	8	42	14	17	41	47	26	17	14	11	11	14	13	15	8	25	50	13	13	11	14	19	50	7
14	17	31	34	51	29	32	40	52	60	17	18	13	24	24	22	14	12	7	61	41	39	24	49	37	31	61	7
15	88	43	50	57	71	97	91	98	82	67	11	9	9	10	11	8	6	21	25	42	27	41	28	17	42	98	6
16	35	31	46	59	81	38	87	50	35	66	88	61	23	23	16	10	49	35	21	24	23	17	40	27	41	88	10
17	27	63	25	73	68	71	72	85	88	55	86	26	29	22	23	19	9	60	27	22	24	28	38	44	45	88	9
18	26	26	57	81	68	64	65	81	52	51	70	48	16	16	13	17	20	90	34	73	63	43	35	37	48	90	13
19	56	35	88	48	82	66	67	103	72	72	63	12	15	15	20	18	53	75	25	18	59	29	12	13	47	103	12
20	10	8	11	9	9	12	9	8	11	9	14	8	8	10	20	22	42	20	74	13	22	47	47	56	21	74	8
21	21	68	76	78	69	32	65	70	95	61	67	79	67	20	28	23	14	74	16	15	19	15	28	58	48	95	14
22	28	58	73	58	46	92	76	100	61	54	41	15	18	20	15	14	15	24	49	31	52	49	51	59	46	100	14
23	32	25	57	36	94	53	96	46	46	34	49	25	32	25	23	15	15	11	52	27	13	34	59	40	39	96	11
24	66	59	61	78	63	74	79	78	56	72	85	21	16	23	56	17	24	100	29	38	44	59	92	99	58	100	16
25	35	10	10	14	15	12	20	32	96	53	51	11	11	8	7	16	13	12	10	11	16	14	13	20	21	96	7
26	21	20	54	19	13	7	17	27	19	19	49	18	39	28	21	15	31	52	14	20	36	83	20	17	27	83	7
27	14	9	17	15	36	19	7	8	12	9	16	10	11	17	23	16	22	41	31	50	43	85	29	55	25	85	7
28	58	95	42	95	77	93	79	77	68	72	29	25	12	23	20	12	41	67	37	41	27	51	33	68	52	95	12
29	71	69	40	71	39	77	88	99	90	97	78	16	16	11	11	10	15	20	27	100	55	16	15	9	48	100	9
30	47	54	57	25	40	83	55	89	77	15	12	13	15	14	12	10	17	12	11	10	10	11	12	12	30	89	10
31	10	12	14	18	12	12	13	20	16	21	56	77	19	12	11	13	76	20	19	10	10	10	11	26	22	77	10
Avg	42	43	45	47	50	47	53	55	54	45	41	24	21	19	21	22	22	30	30	31	31	36	33	38	37	85	10
Max	88	95	88	95	94	97	96	103	96	97	88	79	67	37	56	89	76	100	75	100	68	85	92	99	58	103	16
Min	10	7	7	8	9	7	7	8	9	9	10	8	8	8	7	8	6	7	6	10	10	10	9	9	12	32	6

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Standard Deviation of Wind Direction (degrees)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	11	34	21	15	37	65	36	29	47	28	18	14	15	15	14	13	14	16	20	19	21	12	17	44	24	65	11
2	25	21	85	80	80	35	47	74	96	67	46	77	79	28	46	46	38	46	9	13	13	16	30	16	46	96	9
3	35	28	48	86	26	35	77	54	85	74	13	56	41	17	10	12	63	36	48	Wx	Wx	Wx	13	58	44	86	10
4	4	9	7	6	13	11	9	12	14	8	13	16	8	11	22	15	15	12	17	48	40	24	13	22	15	48	4
5	34	12	18	38	64	83	98	34	13	12	12	8	13	12	10	9	11	11	15	66	61	58	92	16	33	98	8
6	36	62	25	90	64	99	85	71	92	91	22	11	10	9	12	15	17	14	21	27	28	26	34	45	42	99	9
7	86	30	69	49	57	44	41	50	64	71	76	8	10	8	12	13	14	17	33	35	37	49	9	12	37	86	8
8	34	19	19	18	17	16	17	22	25	27	10	20	25	18	11	12	33	79	59	18	14	6	19	22	23	79	6
9	44	40	48	39	52	56	70	56	71	93	78	59	16	15	21	69	11	85	8	21	18	20	19	19	43	93	8
10	27	28	13	13	9	13	13	8	7	14	13	13	16	11	10	11	15	18	10	12	87	35	50	62	21	87	7
11	64	10	12	15	19	31	35	37	59	56	15	15	40	17	14	11	16	13	11	14	14	15	27	91	27	91	10
12	78	67	50	29	45	37	46	48	35	93	13	15	11	12	11	11	15	53	55	51	31	74	53	69	42	93	11
13	93	98	73	77	44	55	25	54	47	8	15	14	13	13	14	13	9	11	10	8	12	11	9	11	31	98	8
14	23	19	22	15	40	53	57	58	42	38	33	13	12	13	14	22	72	14	45	12	19	24	35	14	30	72	12
15	8	25	48	56	69	39	48	41	33	30	97	68	13	17	15	44	64	45	35	57	81	44	43	36	44	97	8
16	38	66	75	42	65	81	21	9	10	8	9	9	11	11	9	10	13	7	18	73	54	64	63	71	35	81	7
17	67	81	73	82	94	60	39	63	45	71	83	31	81	18	9	12	17	10	16	21	13	30	11	10	43	94	9
18	11	13	21	16	9	12	9	12	8	9	12	9	20	17	12	12	10	15	12	90	38	36	49	85	22	90	8
19	17	11	10	14	10	12	11	9	11	12	13	10	10	14	18	37	70	67	21	34	71	73	97	79	30	97	9
20	67	63	49	55	79	24	43	75	30	24	21	36	13	9	10	9	12	37	36	32	37	33	81	72	39	81	9
21	44	49	74	74	91	74	76	40	26	30	19	9	11	10	9	16	18	12	14	50	9	30	40	35	36	91	9
22	44	45	36	45	36	40	47	30	43	80	42	45	8	11	15	34	62	11	19	40	23	30	30	59	36	80	8
23	82	63	32	57	36	26	43	37	26	49	92	69	8	14	24	10	23	17	23	39	24	39	27	57	38	92	8
24	62	38	46	56	74	48	48	39	82	63	24	20	17	8	14	6	7	9	12	12	12	15	10	9	30	82	6
25	7	10	8	9	7	24	17	38	35	29	28	32	55	21	16	20	43	56	64	81	64	88	61	86	37	88	7
26	68	46	60	45	71	34	91	76	74	93	57	42	20	30	8	18	41	41	22	46	26	45	29	31	46	93	8
27	69	30	46	25	44	65	24	45	25	74	88	60	55	26	39	14	42	30	32	46	43	58	65	53	46	88	14
28	46	77	55	38	57	84	66	94	54	84	97	102	23	7	16	6	41	76	41	57	92	51	47	44	56	102	6
29	48	47	91	48	54	63	35	40	64	55	62	45	35	15	29	29	44	20	60	77	77	81	63	86	53	91	15
30	73	97	93	80	77	86	56	84	55	95	82	79	71	59	15	23	103	23	22	33	33	37	59	55	62	103	15
Avg	45	41	44	44	48	47	44	45	44	50	40	34	25	16	16	19	32	30	27	39	38	39	40	46	37	88	9
Max	93	98	93	90	94	99	98	94	96	95	97	102	81	59	46	69	103	85	64	90	92	88	97	91	62	103	15
Min	4	9	7	6	7	11	9	8	7	8	9	8	8	7	8	6	7	7	8	8	9	6	9	9	15	48	4

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Standard Deviation of Wind Direction (degrees)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	56	71	37	59	44	38	29	35	50	66	69	43	21	19	21	17	22	76	45	55	33	41	51	66	44	76	17
2	83	40	50	67	53	58	30	45	27	30	81	68	16	66	48	58	86	98	73	64	68	57	64	90	59	98	16
3	58	77	23	20	26	18	18	37	20	30	22	8	9	11	19	23	18	7	10	10	10	10	13	14	21	77	7
4	8	7	27	29	73	30	53	73	17	11	Au	Au	Au	19	16	23	22	22	69	44	59	35	53	45	35	73	7
5	48	59	17	80	66	30	40	59	84	75	18	67	14	20	22	11	19	37	29	51	14	16	21	18	38	84	11
6	13	24	13	14	18	61	43	12	18	35	14	16	14	15	21	8	10	10	15	12	20	12	41	37	21	61	8
7	16	28	83	14	27	22	15	31	19	32	12	14	19	27	17	13	8	9	8	11	28	39	22	11	22	83	8
8	12	15	13	8	11	11	13	28	26	19	14	50	80	11	13	16	13	14	10	8	12	73	20	11	21	80	8
9	25	69	42	8	22	43	13	12	9	12	16	15	10	26	12	14	12	15	15	11	12	12	12	10	19	69	8
10	12	12	11	17	53	93	69	40	31	19	21	22	21	7	7	9	9	80	48	93	54	78	68	41	38	93	7
11	51	65	43	50	33	34	51	33	15	53	97	79	83	27	13	7	84	32	37	41	62	58	31	68	48	97	7
12	79	71	52	53	60	54	66	44	30	84	66	68	9	11	13	8	19	66	24	9	14	8	23	12	39	84	8
13	13	18	12	17	20	10	39	21	10	12	16	10	10	12	12	23	21	32	30	44	56	21	25	26	21	56	10
14	14	19	5	7	15	13	15	18	15	11	14	13	14	19	15	26	24	16	8	12	13	8	9	6	14	26	5
15	14	33	55	90	38	70	71	88	82	63	75	98	71	39	15	13	11	46	41	40	42	57	75	59	54	98	11
16	55	77	65	55	49	14	21	80	22	10	45	38	27	38	14	33	16	13	17	36	56	77	27	21	38	80	10
17	26	66	56	45	73	84	50	67	50	47	67	39	41	13	29	69	24	51	40	33	86	83	65	68	53	86	13
18	47	11	22	7	8	7	7	8	8	8	10	12	49	11	18	7	33	34	49	83	61	18	26	18	23	83	7
19	9	15	11	10	84	16	72	71	46	15	20	8	9	6	18	15	9	13	19	49	95	45	73	83	34	95	6
20	71	91	67	89	75	85	68	89	92	97	56	52	44	79	23	15	49	59	23	41	40	72	61	52	62	97	15
21	36	87	62	78	65	64	65	89	88	28	18	10	69	15	9	11	8	15	9	7	11	37	49	49	41	89	7
22	49	64	70	79	88	43	14	12	10	8	8	8	8	11	9	11	11	15	14	22	77	83	84	39	35	88	8
23	64	41	43	58	26	41	27	46	42	93	84	56	71	61	17	73	14	37	76	37	39	83	65	23	51	93	14
24	46	94	64	71	51	61	64	46	27	17	26	19	37	21	83	19	83	56	26	32	34	33	46	32	45	94	17
25	30	81	21	13	6	7	8	15	13	4	89	46	70	18	17	24	57	57	44	73	48	75	94	98	42	98	4
26	99	59	84	40	37	85	74	102	83	53	60	76	26	12	11	21	53	25	41	77	60	68	67	63	57	102	11
27	32	29	47	28	43	42	41	78	42	39	81	79	94	88	73	70	103	90	94	70	43	40	77	80	63	103	28
28	69	87	77	71	57	58	48	87	67	42	97	91	57	23	20	55	48	22	10	19	26	20	19	16	49	97	10
29	9	47	42	45	32	8	17	52	10	15	57	99	27	10	13	18	20	25	43	74	68	85	45	87	40	99	8
30	59	39	20	46	66	27	85	75	40	88	63	55	20	16	12	15	11	8	11	14	43	48	73	41	41	88	8
31	41	10	28	58	13	15	10	76	62	53	72	45	30	56	25	18	40	13	31	32	29	41	42	27	36	76	10
Avg	40	49	41	43	43	40	40	51	37	38	46	43	36	26	21	24	31	35	33	39	42	46	46	42	39	85	10
Max	99	94	84	90	88	93	85	102	92	97	97	99	94	88	83	73	103	98	94	93	95	85	94	98	63	103	28
Min	8	7	5	7	6	7	7	8	8	4	8	8	8	6	7	7	8	7	8	7	10	8	9	6	14	26	4

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 9 Meters (degrees Celsius)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	6.8	8.2	7.8	5.7	6.9	7.0	7.7	7.7	8.9	12.2	14.6	14.1	14.5	13.2	13.4	13.8	14.0	12.5	10.9	10.3	10.1	9.5	9.0	7.7	10.3	14.6	5.7
2	7.5	7.6	8.3	6.9	6.9	6.4	5.6	4.6	6.3	8.7	11.8	12.7	12.7	13.0	13.0	13.3	12.9	12.2	11.4	10.5	9.9	8.7	8.0	8.2	9.5	13.3	4.6
3	9.0	9.3	8.9	8.7	6.6	4.3	2.5	1.6	1.0	1.1	1.3	1.7	1.4	1.3	1.1	0.7	0.3	0.0	-0.6	-0.9	-1.2	-1.4	-1.4	-2.0	2.2	9.3	-2.0
4	-1.9	-1.7	-1.8	-1.8	-2.1	-2.2	-2.0	-1.5	-0.9	0.1	1.5	3.1	4.4	5.1	5.8	6.2	6.9	5.5	3.1	2.3	1.8	-0.5	-1.5	-2.7	1.1	6.9	-2.7
5	-3.6	-4.3	-4.9	-5.7	-6.4	-6.2	-6.5	-5.7	-1.5	3.4	8.0	9.8	10.8	11.5	12.5	12.9	12.9	11.3	6.0	3.7	1.9	0.0	-0.4	-1.6	2.4	12.9	-6.5
6	-2.3	-2.5	-3.4	-3.4	-3.5	-4.0	-3.9	-3.2	1.7	9.1	13.9	15.8	17.2	18.0	18.6	18.6	17.8	16.3	11.3	8.3	6.0	3.7	1.9	0.6	6.4	18.6	-4.0
7	0.4	-0.2	0.3	1.2	1.6	2.1	3.0	5.6	9.7	14.3	15.1	15.2	14.6	14.1	12.7	12.3	11.3	9.0	8.2	7.9	7.4	7.2	7.0	6.8	7.8	15.2	-0.2
8	6.5	6.4	6.6	6.7	6.3	5.8	4.5	5.2	7.5	9.5	10.6	11.5	12.1	12.3	13.2	14.3	14.0	12.8	10.1	7.7	6.0	5.4	3.8	3.7	8.4	14.3	3.7
9	3.4	3.6	4.0	3.4	3.3	3.0	3.5	4.9	6.6	12.3	16.7	18.5	19.8	20.3	21.4	21.1	21.2	19.2	15.9	11.0	9.5	7.4	6.3	6.5	10.9	21.4	3.0
10	5.0	4.5	3.6	3.0	2.7	2.8	2.0	2.5	4.5	7.7	18.5	21.4	22.3	23.0	23.5	23.8	23.7	22.0	20.1	17.2	13.8	12.2	10.3	9.9	12.5	23.8	2.0
11	8.1	12.2	16.5	12.2	8.8	7.2	6.7	6.5	7.1	7.8	8.3	8.8	9.6	9.9	9.8	9.6	9.0	8.0	7.0	5.4	4.7	2.4	-1.8	-3.3	7.5	16.5	-3.3
12	-3.4	-2.8	-3.4	-2.8	-3.4	-3.2	-3.9	-3.2	2.7	10.6	13.1	14.6	15.6	15.6	16.0	17.1	16.7	15.9	12.3	10.4	11.3	13.5	13.4	13.4	7.8	17.1	-3.9
13	12.9	12.3	11.7	11.1	6.3	5.9	4.3	4.9	8.4	12.8	13.5	15.4	16.1	16.5	17.0	17.0	16.6	15.0	13.0	12.1	11.8	12.2	12.3	11.9	12.1	17.0	4.3
14	11.5	10.6	9.7	7.8	4.6	3.1	1.2	0.8	5.0	10.9	12.1	12.3	13.5	14.5	15.0	15.4	15.0	13.6	9.9	4.9	3.0	1.3	0.2	-0.4	8.1	15.4	-0.4
15	-1.8	-3.0	-3.2	-3.8	-4.6	-5.3	-6.1	-5.7	-0.3	6.0	8.0	8.6	9.2	9.7	10.0	10.0	9.0	7.4	6.1	5.4	5.2	4.4	3.6	1.4	2.9	10.0	-6.1
16	-1.0	-2.4	-3.7	-4.1	-4.4	-4.9	-6.0	-5.0	-1.5	5.3	11.5	14.5	16.3	17.3	17.5	17.1	16.0	12.9	11.3	8.6	7.2	3.7	1.6	0.3	5.3	17.5	-6.0
17	-0.5	-2.1	-1.8	-3.1	-2.8	-3.6	-4.2	-3.7	0.8	7.4	14.8	17.9	19.3	20.3	20.5	20.7	20.2	16.0	9.7	7.0	4.4	3.5	3.2	2.0	6.9	20.7	-4.2
18	1.3	0.8	1.4	1.6	2.5	3.6	3.6	4.2	7.2	10.7	14.6	16.0	15.7	15.5	14.9	14.5	15.0	14.0	10.1	7.0	6.0	3.5	2.3	1.6	7.8	16.0	0.8
19	0.8	0.5	1.1	0.5	0.0	-0.2	0.1	0.1	2.6	6.1	10.7	12.3	12.8	13.4	14.2	14.5	13.6	11.7	9.8	8.8	8.5	9.1	8.5	8.1	7.0	14.5	-0.2
20	8.2	8.2	7.7	7.5	7.4	6.9	6.5	6.6	6.2	5.9	5.6	4.9	5.2	5.3	7.0	6.6	5.8	4.2	2.3	0.0	-1.0	-2.8	-3.5	-4.1	4.4	8.2	-4.1
21	-4.9	-5.7	-5.9	-5.7	-7.0	-7.5	-7.7	-7.1	-4.0	2.1	7.4	9.5	11.1	11.7	12.5	12.6	11.8	7.7	3.6	1.6	-0.3	-0.4	-2.1	-3.2	1.3	12.6	-7.7
22	-2.9	-3.7	-4.2	-5.2	-4.7	-5.3	-5.2	-5.5	-2.6	3.5	8.9	10.1	10.9	11.8	12.5	12.8	11.6	8.8	4.7	3.6	2.1	0.6	2.4	1.8	2.8	12.8	-5.5
23	-0.5	-3.2	-4.5	-5.5	-6.9	-6.4	-8.0	-8.0	-5.8	0.7	5.3	6.3	7.1	7.8	8.4	8.5	8.0	6.3	4.1	1.5	-0.5	-2.8	-3.4	-4.3	0.2	8.5	-8.0
24	-5.4	-6.9	-7.1	-8.0	-8.7	-8.6	-9.2	-8.8	-5.0	0.9	6.3	8.4	9.5	9.8	10.3	10.4	9.7	8.7	9.3	8.8	7.7	6.5	5.5	5.3	2.1	10.4	-9.2
25	5.7	4.5	3.5	1.7	0.2	-1.0	-1.6	-3.0	-1.1	2.4	6.2	8.8	9.3	8.9	8.1	8.0	7.8	7.0	6.4	5.7	5.0	4.6	4.4	4.5	4.4	9.3	-3.0
26	4.4	4.6	4.4	3.9	2.6	2.8	3.2	3.2	4.3	6.5	8.4	8.2	8.5	9.3	9.9	10.4	9.2	6.9	5.1	3.6	2.3	3.3	4.6	3.9	5.6	10.4	2.3
27	3.3	2.4	2.5	2.1	1.7	1.5	1.7	1.2	1.2	0.8	0.1	0.7	1.0	1.3	2.2	2.0	1.7	1.2	-0.1	-1.1	-1.3	-1.4	-2.3	-4.0	0.8	3.3	-4.0
28	-5.5	-6.7	-7.8	-8.9	-9.0	-9.5	-10.1	-9.8	-7.2	-1.8	3.2	5.4	6.5	7.6	8.0	7.9	6.7	3.1	-0.7	-2.4	-3.9	-4.3	-5.2	-6.6	-2.1	8.0	-10.1
29	-7.1	-7.2	-7.6	-8.0	-7.5	-8.1	-7.4	-7.0	-4.8	-2.3	2.7	4.0	4.0	4.0	4.2	3.6	3.1	3.2	3.0	2.5	2.2	2.6	2.4	2.1	-1.0	4.2	-8.1
30	1.3	0.3	0.3	-2.0	-2.9	-3.3	-2.5	-1.7	1.3	4.9	5.6	5.8	5.3	5.9	6.5	6.4	6.7	7.1	7.8	8.0	7.4	7.2	6.8	5.7	3.7	8.0	-3.3
31	5.1	4.9	4.7	4.9	5.2	5.2	5.2	4.9	4.8	5.4	5.4	6.1	7.6	8.7	9.0	8.3	8.0	8.8	9.3	10.3	10.9	11.0	11.1	9.7	7.3	11.1	4.7
Avg	1.9	1.6	1.4	0.7	-0.0	-0.4	-0.7	-0.5	2.0	6.0	9.2	10.4	11.1	11.5	11.9	11.9	11.5	9.9	7.8	6.1	5.1	4.2	3.5	2.7	5.4	13.0	-2.3
Max	12.9	12.3	16.5	12.2	8.8	7.2	7.7	7.7	9.7	14.3	18.5	21.4	22.3	23.0	23.5	23.8	23.7	22.0	20.1	17.2	13.8	13.5	13.4	13.4	12.5	23.8	5.7
Min	-7.1	-7.2	-7.8	-8.9	-9.0	-9.5	-10.1	-9.8	-7.2	-2.3	0.1	0.7	1.0	1.3	1.1	0.7	0.3	0.0	-0.7	-2.4	-3.9	-4.3	-5.2	-6.6	-2.1	3.3	-10.1

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 9 Meters (degrees Celsius)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	6.9	5.9	5.4	5.2	5.2	4.8	4.6	4.8	5.3	6.4	8.0	9.0	9.9	10.4	10.8	10.5	7.9	6.1	4.9	3.6	3.3	3.2	2.1	2.0	6.1	10.8	2.0
2	1.8	1.7	0.7	-0.5	-1.8	-2.8	-4.2	-3.8	-3.2	-1.1	1.6	3.3	4.1	4.6	4.8	4.9	4.4	3.5	2.5	1.8	1.7	1.4	1.0	0.4	1.1	4.9	-4.2
3	0.0	-0.2	-0.4	-0.4	-0.4	-0.6	-0.8	-0.8	-0.4	-0.2	-0.1	-0.3	-0.3	-0.4	-0.4	-0.6	-0.8	-1.1	-1.4	-1.5	-1.7	-1.8	-1.8	-1.7	-0.8	0.0	-1.8
4	-1.9	-2.3	-2.5	-2.6	-2.8	-3.3	-3.2	-3.3	-3.2	-3.2	-2.9	-2.6	-2.5	-2.5	-2.0	-1.6	-1.5	-1.5	-1.5	-1.5	-1.8	-1.8	-2.0	-2.4	-2.3	-1.5	-3.3
5	-2.3	-2.5	-3.6	-4.8	-5.5	-5.7	-4.8	-4.4	-3.9	-3.6	-3.4	-3.3	-3.0	-2.7	-2.3	-2.5	-3.0	-3.3	-3.6	-4.1	-4.3	-4.4	-6.9	-8.5	-4.0	-2.3	-8.5
6	-9.9	-10.0	-10.8	-12.2	-12.8	-12.4	-11.7	-10.7	-9.2	-7.4	-4.5	-4.2	-2.5	-1.9	-1.7	-1.9	-2.4	-3.0	-3.2	-4.7	-6.1	-6.7	-7.2	-8.4	-6.9	-1.7	-12.8
7	-9.2	-10.0	-10.2	-10.8	-11.5	-11.1	-11.1	-10.8	-10.0	-6.3	-0.9	2.0	3.3	3.8	4.6	4.7	3.5	2.0	0.5	-0.2	-0.5	-0.3	-0.9	-1.0	-3.4	4.7	-11.5
8	-4.1	-5.5	-5.5	-5.7	-6.5	-6.5	-6.9	-5.1	-2.5	2.6	4.9	6.0	6.8	7.2	7.3	7.2	5.7	3.4	2.4	-0.6	1.5	-1.2	-2.4	-3.4	-0.0	7.3	-6.9
9	-4.2	-4.4	-4.6	-5.4	-4.6	-4.6	-3.5	-2.3	-1.4	0.2	2.7	5.5	6.6	6.1	5.8	3.2	0.0	-0.4	-1.2	-2.2	-2.3	-2.3	-3.0	-3.4	-0.8	6.6	-5.4
10	-3.5	-3.2	-3.2	-3.4	-4.4	-4.7	-4.7	-4.8	-4.9	-4.9	-4.5	-4.0	-3.1	-3.0	-3.0	-3.0	-2.9	-2.8	-2.9	-3.7	-4.8	-7.0	-9.4	-9.1	-4.4	-2.8	-9.4
11	-6.2	-4.4	-5.2	-5.9	-5.8	-7.6	-9.1	-9.3	-7.3	-3.7	-1.9	-1.8	-1.5	-1.6	-0.9	-1.1	-1.8	-2.0	-2.5	-2.7	-2.7	-3.1	-3.6	-4.9	-4.0	-0.9	-9.3
12	-6.0	-7.4	-7.6	-8.8	-8.6	-10.3	-10.5	-12.5	-12.0	-7.4	-2.5	-2.1	-1.9	-1.8	-1.0	-1.3	-2.1	-3.4	-5.1	-7.4	-7.6	-8.3	-9.4	-9.2	-6.4	-1.0	-12.5
13	-7.5	-7.1	-6.1	-5.3	-3.1	-2.9	-1.1	1.0	2.6	3.8	4.7	5.1	5.0	5.7	6.4	6.4	6.3	5.7	5.4	5.6	5.8	5.8	5.4	5.4	2.2	6.4	-7.5
14	4.7	4.6	3.9	3.1	1.1	0.5	-0.5	-1.5	0.2	3.1	7.7	9.0	9.2	9.4	9.4	8.7	8.1	6.2	4.3	6.1	6.7	5.9	4.3	4.0	4.9	9.4	-1.5
15	0.5	-0.8	-2.2	-3.5	-4.1	-4.6	-4.4	-4.0	-1.9	-0.9	0.6	7.1	8.3	8.8	8.4	6.8	4.6	2.4	1.6	-0.8	-2.3	-2.4	-2.2	-3.1	0.5	8.8	-4.6
16	-4.4	-5.3	-4.8	-5.1	-5.4	-3.2	-0.8	-1.9	-2.5	-3.2	-3.5	-3.5	-2.7	-2.4	-2.5	-2.8	-3.1	-4.6	-5.4	-7.2	-10.4	-13.0	-13.8	-15.7	-5.3	-0.8	-15.7
17	-15.3	-15.3	-15.8	-14.4	-12.3	-9.5	-7.8	-7.7	-6.7	-4.9	-3.2	-0.2	2.2	2.4	2.3	2.9	2.7	3.6	3.5	3.6	3.3	3.9	3.7	3.3	-3.2	3.9	-15.8
18	3.5	3.4	1.3	0.0	-0.8	-2.6	-4.9	-5.6	-6.1	-6.8	-6.8	-6.9	-6.5	-5.3	-4.7	-4.6	-5.7	-6.1	-6.7	-9.2	-11.0	-11.9	-9.9	-9.5	-5.1	3.5	-11.9
19	-6.1	-5.8	-5.7	-5.3	-5.4	-5.3	-5.1	-5.1	-4.9	-4.6	-4.1	-3.6	-3.1	-2.6	-2.5	-3.0	-3.7	-5.0	-6.3	-7.1	-7.3	-7.2	-8.1	-8.6	-5.2	-2.5	-8.6
20	-8.7	-8.8	-8.0	-8.0	-8.1	-9.0	-9.4	-9.4	-9.3	-9.3	-9.1	-8.9	-8.6	-8.5	-8.5	-8.7	-9.4	-11.8	-14.6	-16.3	-16.9	-18.3	-19.4	-20.0	-11.1	-8.0	-20.0
21	-20.6	-20.2	-20.1	-20.4	-20.5	-19.8	-18.6	-15.4	-9.4	-6.3	-5.0	-3.6	-2.7	-1.7	-1.4	-1.7	-2.0	-2.0	-3.0	-3.6	-6.0	-8.0	-10.0	-10.9	-9.7	-1.4	-20.6
22	-11.3	-11.5	-11.8	-12.7	-12.0	-11.5	-10.8	-9.1	-8.1	-6.1	-0.7	3.6	5.0	5.5	5.3	4.4	2.9	0.1	-1.9	-4.1	-5.4	-6.0	-8.2	-9.3	-4.7	5.5	-12.7
23	-9.6	-10.0	-9.7	-9.6	-9.7	-8.7	-9.0	-10.1	-9.3	-7.1	-4.0	2.9	5.3	5.8	6.8	6.4	4.4	2.4	0.3	-0.5	-2.2	-3.4	-4.9	-5.1	-3.3	6.8	-10.1
24	-5.4	-5.7	-5.0	-5.5	-5.5	-6.1	-6.1	-5.5	-4.6	-2.7	-3.6	-3.8	-3.2	-4.9	-5.7	-7.0	-7.9	-8.4	-8.7	-9.2	-9.6	-10.0	-10.6	-11.3	-6.5	-2.7	-11.3
25	-11.7	-12.0	-12.4	-12.7	-12.5	-13.7	-13.5	-13.6	-13.8	-13.1	-11.7	-10.5	-10.7	-11.7	-12.1	-12.8	-14.1	-17.0	-18.9	-21.3	-20.9	-21.6	-22.8	-23.5	-14.9	-10.5	-23.5
26	-24.7	-24.6	-25.9	-26.0	-26.1	-25.6	-26.1	-25.9	-25.3	-22.2	-17.6	-11.9	-9.5	-9.1	-9.2	-9.0	-11.0	-14.1	-17.4	-19.0	-20.7	-21.4	-22.2	-22.4	-19.5	-9.0	-26.1
27	-22.5	-24.0	-23.8	-23.7	-24.6	-24.0	-24.6	-25.0	-24.5	-22.3	-18.0	-12.9	-8.9	-6.2	-5.4	-6.5	-8.4	-11.8	-13.8	-15.1	-16.7	-17.3	-17.8	-17.7	-17.3	-5.4	-25.0
28	-18.4	-18.5	-18.4	-17.3	-18.1	-18.2	-17.9	-18.4	-18.3	-16.1	-11.2	-6.7	-2.9	-2.2	-2.6	-3.7	-5.3	-8.6	-11.4	-13.2	-15.2	-16.2	-16.8	-17.7	-13.1	-2.2	-18.5
29	-18.4	-18.4	-19.0	-18.6	-19.3	-19.7	-19.7	-19.8	-19.9	-16.8	-13.0	-8.3	-3.3	-2.6	-1.8	-2.1	-3.4	-6.1	-9.9	-11.9	-13.2	-14.9	-15.6	-16.4	-13.0	-1.8	-19.9
30	-16.0	-16.7	-17.7	-18.0	-17.9	-18.0	-19.0	-18.3	-18.3	-15.9	-13.7	-11.5	-7.4	-4.2	-3.6	-4.3	-6.5	-11.2	-12.8	-13.5	-15.1	-16.0	-15.8	-17.5	-13.7	-3.6	-19.0
Avg	-7.7	-8.0	-8.3	-8.6	-8.8	-8.9	-8.8	-8.6	-7.8	-6.0	-3.9	-1.9	-0.6	-0.2	0.0	-0.4	-1.5	-3.0	-4.2	-5.3	-6.1	-6.8	-7.6	-8.2	-5.5	0.7	-11.9
Max	6.9	5.9	5.4	5.2	5.2	4.8	4.6	4.8	5.3	6.4	8.0	9.0	9.9	10.4	10.8	10.5	8.1	6.2	5.4	6.1	6.7	5.9	5.4	5.4	6.1	10.8	2.0
Min	-24.7	-24.6	-25.9	-26.0	-26.1	-25.6	-26.1	-25.9	-25.3	-22.3	-18.0	-12.9	-10.7	-11.7	-12.1	-12.8	-14.1	-17.0	-18.9	-21.3	-20.9	-21.6	-22.8	-23.5	-19.5	-10.5	-26.1

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 9 Meters (degrees Celsius)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	-16.3	-16.9	-16.7	-17.8	-17.2	-16.3	-17.4	-17.2	-17.1	-15.1	-10.3	-4.1	-3.0	-2.2	-1.9	-2.0	-2.4	-4.5	-7.0	-9.6	-10.5	-12.6	-13.0	-13.9	-11.0	-1.9	-17.8
2	-14.9	-15.2	-15.6	-16.3	-16.9	-18.1	-17.7	-18.0	-15.8	-12.3	-7.3	-5.1	-0.6	-1.0	-3.9	-4.1	-4.1	-4.2	-4.4	-7.3	-9.9	-10.8	-12.0	-13.3	-10.4	-0.6	-18.1
3	-12.9	-14.6	-14.8	-13.9	-11.9	-12.2	-11.3	-11.5	-11.3	-7.1	-2.4	1.2	2.9	3.8	3.9	2.8	2.8	-0.1	0.1	0.3	1.8	2.1	3.4	2.6	-4.0	3.9	-14.8
4	-0.1	-0.1	-0.8	3.6	2.2	3.9	3.0	2.1	3.8	3.8	Au	Au	Au	4.3	3.3	2.4	1.2	0.9	0.2	-0.7	-2.2	-0.9	-1.1	-1.5	1.3	4.3	-2.2
5	-2.3	-1.7	-1.3	-2.2	-3.9	-4.1	-7.3	-7.8	-7.9	-6.1	-2.9	-0.7	0.4	1.3	1.3	0.6	-0.8	-3.3	-4.0	-2.8	-3.3	-2.6	-4.1	-0.5	-2.8	1.3	-7.9
6	-0.6	0.1	0.4	0.8	0.4	0.6	0.9	1.3	-0.1	1.5	2.8	3.8	5.3	5.3	5.4	5.2	4.7	4.1	3.7	3.2	2.7	2.4	1.7	1.2	2.4	5.4	-0.6
7	0.2	0.0	0.1	0.6	0.0	1.2	0.8	0.9	2.0	2.8	4.4	4.9	5.5	5.7	5.7	3.5	2.9	3.2	3.7	3.4	3.3	2.7	2.9	3.4	2.7	5.7	0.0
8	3.9	3.8	4.0	3.9	3.7	2.6	3.0	3.5	3.7	3.9	4.1	4.0	4.7	6.1	6.6	7.1	7.3	7.4	7.7	7.5	7.6	7.7	7.7	7.6	5.4	7.7	2.6
9	7.2	7.3	7.7	7.5	7.5	7.9	7.9	8.0	7.7	8.1	8.6	7.9	7.0	3.7	2.3	2.5	2.4	1.8	1.4	0.9	0.6	0.1	0.1	-0.1	4.8	8.6	-0.1
10	-0.7	-0.7	-1.1	-1.4	-1.8	-3.2	-4.6	-4.5	-3.9	-2.2	-0.8	-1.9	-2.4	-2.6	-2.6	-2.2	-2.4	-2.6	-2.1	-1.7	-2.4	-1.9	-2.6	-3.2	-2.3	-0.7	-4.6
11	-3.8	-3.5	-3.5	-3.2	-3.8	-5.3	-5.8	-6.8	-8.2	-8.4	-7.1	-5.1	-2.3	-0.6	-0.7	-1.1	-2.8	-6.6	-9.3	-10.6	-9.3	-9.6	-9.6	-8.5	-5.6	-0.6	-10.6
12	-8.8	-9.9	-10.7	-10.4	-9.9	-9.8	-10.7	-12.2	-12.6	-12.5	-9.4	-4.6	-1.3	-0.9	-0.6	-1.0	-2.2	-3.9	-4.1	-4.2	-5.1	-3.8	-3.5	-2.8	-6.5	-0.6	-12.6
13	-2.7	-3.1	-3.0	-2.5	-2.3	-1.7	-1.5	-1.4	-1.3	-1.7	-0.8	0.0	0.2	0.7	1.2	1.2	1.0	0.8	-0.1	-1.0	-1.6	-2.5	-2.1	-1.9	-1.1	1.2	-3.1
14	-1.7	-1.7	-1.7	-1.8	-2.0	-2.2	-3.2	-4.5	-5.2	-5.9	-6.5	-7.1	-7.2	-7.1	-7.2	-7.4	-7.2	-7.3	-7.4	-7.2	-7.2	-7.2	-7.6	-8.0	-5.5	-1.7	-8.0
15	-8.3	-8.9	-9.8	-11.8	-13.3	-15.4	-16.9	-18.3	-18.9	-18.7	-16.7	-14.6	-11.4	-7.1	-6.3	-6.3	-6.8	-8.3	-9.2	-9.8	-10.5	-12.3	-12.5	-12.9	-11.9	-6.3	-18.9
16	-12.0	-11.5	-11.0	-8.7	-8.1	-8.0	-8.2	-8.2	-9.1	-8.7	-8.3	-7.9	-7.6	-7.6	-8.2	-9.0	-9.6	-10.2	-11.5	-14.1	-14.9	-15.6	-15.7	-16.2	-10.4	-7.6	-16.2
17	-18.2	-18.7	-17.5	-18.8	-19.2	-18.5	-17.6	-17.6	-18.2	-19.1	-17.6	-12.3	-11.0	-10.2	-9.8	-10.8	-13.1	-16.3	-18.2	-19.0	-19.0	-18.1	-16.9	-15.7	-16.3	-9.8	-19.2
18	-14.3	-11.7	-11.2	-10.2	-9.5	-8.7	-8.1	-7.2	-6.5	-5.4	-3.7	-2.4	-1.0	-0.1	0.5	0.2	-0.3	-0.1	-1.2	-2.4	-2.3	-1.4	-1.7	0.4	-4.5	0.5	-14.3
19	1.0	1.2	0.8	0.9	1.0	0.8	-0.2	-0.7	-1.3	-1.8	-1.8	-1.9	-2.1	-2.0	-2.1	-2.2	-2.4	-2.7	-2.9	-3.1	-3.3	-4.1	-4.7	-4.6	-1.6	1.2	-4.7
20	-5.9	-7.9	-10.1	-12.5	-14.2	-15.7	-14.6	-13.6	-14.4	-13.2	-10.5	-7.9	-7.2	-7.1	-5.4	-6.0	-8.7	-10.2	-9.6	-13.0	-13.8	-13.3	-10.8	-8.6	-10.6	-5.4	-15.7
21	-7.1	-7.6	-8.6	-8.5	-7.5	-10.2	-11.7	-11.7	-12.7	-9.3	-7.5	-6.2	-4.0	-3.5	-3.7	-4.3	-4.8	-4.7	-4.8	-5.5	-5.8	-5.7	-5.8	-4.7	-6.9	-3.5	-12.7
22	-5.8	-7.2	-7.1	-6.6	-6.0	-4.7	-3.9	-4.4	-4.5	-4.6	-4.7	-4.6	-4.5	-4.3	-4.0	-4.1	-4.5	-5.0	-5.3	-6.1	-7.1	-7.1	-7.7	-8.2	-5.5	-3.9	-8.2
23	-8.3	-8.4	-8.8	-11.0	-13.1	-15.6	-17.1	-19.1	-20.3	-21.0	-17.7	-15.6	-13.7	-10.1	-8.0	-8.8	-9.1	-9.6	-10.3	-10.9	-11.5	-11.9	-11.8	-11.3	-12.6	-8.0	-21.0
24	-11.2	-11.6	-11.8	-11.7	-11.4	-12.1	-11.9	-10.5	-9.5	-8.5	-8.1	-7.8	-6.8	-6.6	-6.9	-5.7	-8.4	-10.5	-10.9	-11.2	-11.5	-14.0	-15.3	-15.1	-10.4	-5.7	-15.3
25	-15.1	-15.3	-14.2	-14.3	-14.8	-14.8	-14.8	-14.8	-14.8	-14.7	-13.9	-13.0	-12.0	-11.8	-12.7	-13.2	-14.4	-17.3	-18.9	-21.1	-21.3	-23.2	-23.7	-24.0	-16.2	-11.8	-24.0
26	-24.3	-24.2	-24.3	-23.5	-23.8	-24.7	-25.2	-25.8	-26.0	-24.9	-22.7	-18.3	-11.6	-10.3	-9.4	-9.3	-10.5	-14.2	-17.3	-18.9	-20.2	-21.8	-22.3	-23.3	-19.9	-9.3	-26.0
27	-21.7	-21.2	-20.6	-20.8	-18.8	-18.0	-18.1	-18.7	-18.4	-17.5	-16.1	-14.8	-13.2	-10.9	-8.7	-7.8	-7.8	-8.7	-10.6	-11.8	-13.1	-14.0	-15.3	-14.4	-15.0	-7.8	-21.7
28	-13.0	-12.1	-11.8	-11.2	-11.1	-12.3	-12.1	-13.4	-13.3	-12.5	-11.7	-9.1	-6.3	-6.4	-6.8	-6.6	-5.9	-5.5	-6.2	-6.8	-7.9	-8.2	-8.9	-9.4	-9.5	-5.5	-13.4
29	-9.8	-10.4	-10.9	-11.3	-11.5	-12.0	-12.4	-12.6	-12.8	-12.7	-12.4	-11.9	-11.4	-11.3	-11.1	-11.0	-11.1	-11.4	-11.7	-11.9	-12.2	-12.2	-12.4	-12.7	-11.7	-9.8	-12.8
30	-13.4	-14.3	-15.5	-17.0	-17.1	-16.9	-16.8	-16.7	-15.8	-16.0	-15.3	-12.0	-10.4	-9.9	-9.7	-9.7	-9.9	-10.0	-10.1	-10.3	-11.3	-12.1	-11.4	-11.1	-13.0	-9.7	-17.1
31	-11.0	-11.1	-11.0	-11.1	-10.8	-10.9	-11.0	-12.2	-12.9	-13.3	-12.2	-10.7	-9.6	-9.9	-9.2	-9.2	-9.0	-9.7	-11.2	-14.3	-15.1	-15.8	-18.2	-19.0	-12.0	-9.0	-19.0
Avg	-8.1	-8.3	-8.4	-8.4	-8.6	-8.9	-9.2	-9.5	-9.5	-8.8	-7.6	-5.9	-4.5	-3.6	-3.5	-3.8	-4.4	-5.4	-6.2	-7.1	-7.6	-8.0	-8.2	-8.1	-7.2	-2.6	-12.2
Max	7.2	7.3	7.7	7.5	7.5	7.9	7.9	8.0	7.7	8.1	8.6	7.9	7.0	6.1	6.6	7.1	7.3	7.4	7.7	7.5	7.6	7.7	7.7	7.6	5.4	8.6	2.6
Min	-24.3	-24.2	-24.3	-23.5	-23.8	-24.7	-25.2	-25.8	-26.0	-24.9	-22.7	-18.3	-13.7	-11.8	-12.7	-13.2	-14.4	-17.3	-18.9	-21.1	-21.3	-23.2	-23.7	-24.0	-19.9	-11.8	-26.0

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 2 Meters (degrees Celsius)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	5.5	6.5	6.0	4.1	4.1	4.9	6.1	7.3	8.9	12.4	14.8	14.3	14.6	13.4	13.4	13.9	14.1	12.3	10.7	10.1	9.7	9.3	8.5	7.5	9.7	14.8	4.1
2	7.5	7.6	8.1	6.6	6.6	6.0	5.1	4.4	6.6	9.0	12.5	13.4	13.4	13.6	13.3	13.6	13.1	12.2	11.0	10.1	9.2	8.3	7.7	8.0	9.5	13.6	4.4
3	8.8	9.3	8.8	8.7	6.6	4.3	2.6	1.7	1.3	1.5	1.8	2.4	1.9	1.8	1.7	1.2	0.7	0.2	-0.4	-0.7	-1.1	-1.2	-1.2	-1.8	2.5	9.3	-1.8
4	-1.7	-1.6	-1.6	-1.6	-1.9	-2.0	-1.8	-1.2	-0.3	0.8	2.1	3.9	5.3	5.8	6.6	6.7	7.2	5.6	2.7	1.9	0.3	-0.9	-2.1	-3.4	1.2	7.2	-3.4
5	-4.5	-5.8	-6.4	-7.0	-7.6	-7.5	-8.1	-6.1	-1.2	4.2	8.9	10.9	11.9	12.5	13.4	13.6	13.4	10.9	5.0	3.1	1.2	-1.0	-1.5	-2.7	2.1	13.6	-8.1
6	-3.5	-4.4	-4.5	-4.9	-5.1	-5.7	-5.9	-3.9	2.0	9.6	14.6	16.6	18.2	18.9	19.3	19.2	18.0	15.1	10.3	7.8	4.9	2.4	0.6	-0.6	5.8	19.3	-5.9
7	-0.8	-1.2	-0.8	0.1	0.7	1.5	2.6	5.1	9.8	14.9	16.0	15.8	14.9	14.1	12.6	12.3	11.1	8.9	8.2	7.8	7.3	7.1	7.0	6.6	7.6	16.0	-1.2
8	6.4	6.4	6.7	6.6	6.1	5.5	4.3	5.3	7.7	9.7	10.9	12.1	12.6	12.8	13.8	15.0	14.3	12.3	9.2	6.7	5.5	4.9	3.1	3.1	8.4	15.0	3.1
9	2.9	3.3	3.4	2.6	2.1	1.7	3.0	4.7	6.8	12.8	17.3	19.3	20.6	21.0	22.3	21.5	21.3	17.5	13.9	10.4	8.8	6.4	5.3	5.3	10.6	22.3	1.7
10	3.6	3.1	2.2	1.9	1.6	1.1	0.3	1.9	4.4	8.0	18.9	22.1	23.2	23.8	24.1	24.2	23.7	21.1	18.1	15.2	11.9	10.5	8.1	8.6	11.7	24.2	0.3
11	6.2	9.0	15.5	12.0	8.7	7.0	6.6	6.5	7.4	8.3	9.0	9.7	10.5	10.8	10.6	10.2	9.2	7.7	6.5	4.7	3.9	1.0	-2.4	-3.8	7.3	15.5	-3.8
12	-4.6	-3.4	-4.2	-3.6	-4.3	-4.3	-4.8	-3.4	3.2	11.1	14.0	15.5	16.7	16.3	16.6	17.7	16.8	15.2	10.6	8.9	9.8	12.8	12.8	13.0	7.4	17.7	-4.8
13	12.3	11.7	11.0	10.2	4.4	4.3	4.1	4.9	8.6	13.5	14.2	16.3	17.2	17.5	17.8	17.2	16.9	14.7	11.8	10.2	10.7	11.4	11.9	11.6	11.9	17.8	4.1
14	11.1	10.0	8.7	6.5	3.7	2.4	0.2	0.4	5.3	11.5	13.0	13.1	14.5	15.6	15.9	15.9	15.1	12.0	8.2	4.0	2.1	0.6	-0.8	-2.2	7.8	15.9	-2.2
15	-4.1	-5.2	-5.2	-5.9	-6.2	-7.0	-7.8	-6.8	0.0	6.8	9.1	9.9	10.5	11.0	11.1	10.7	9.3	7.1	5.6	4.9	4.6	3.8	2.3	0.2	2.4	11.1	-7.8
16	-2.4	-3.6	-4.9	-5.5	-6.5	-6.8	-7.3	-6.1	-1.1	5.9	12.0	15.1	17.1	18.1	18.1	17.3	15.7	12.2	10.1	6.7	3.5	1.9	0.0	-1.0	4.5	18.1	-7.3
17	-2.4	-3.1	-4.1	-4.6	-4.7	-5.7	-6.3	-4.7	1.2	7.9	15.4	18.7	20.0	21.1	21.1	21.2	20.1	14.4	7.7	4.6	2.9	1.6	1.8	0.1	6.0	21.2	-6.3
18	-0.4	-1.0	-0.2	0.6	1.1	2.6	2.3	3.7	7.4	11.0	15.0	16.6	16.2	15.9	15.1	14.8	15.2	13.5	8.2	5.9	4.9	1.7	1.1	0.4	7.1	16.6	-1.0
19	-0.7	-0.7	0.0	-0.9	-1.5	-1.4	-1.1	-0.4	2.3	6.4	11.0	12.7	13.2	13.9	14.8	14.8	13.6	11.5	9.6	8.5	8.1	8.9	8.4	8.0	6.6	14.8	-1.5
20	8.1	8.2	7.7	7.5	7.4	6.8	6.4	6.6	6.3	6.2	5.9	5.3	5.8	5.9	7.8	6.9	5.3	3.7	1.6	-0.2	-1.4	-3.8	-4.5	-5.8	4.3	8.2	-5.8
21	-6.5	-7.0	-7.1	-7.6	-7.9	-8.5	-8.7	-8.3	-3.8	2.4	7.6	10.1	11.8	12.7	13.2	13.2	11.7	6.5	3.1	0.7	-1.6	-1.2	-3.5	-4.8	0.7	13.2	-8.7
22	-4.6	-5.0	-5.6	-6.5	-6.7	-6.7	-6.8	-6.8	-2.6	3.8	9.5	11.0	11.8	12.8	13.4	13.3	11.1	7.1	3.9	3.0	1.6	-0.8	-0.3	-0.7	2.1	13.4	-6.8
23	-3.0	-4.6	-6.0	-7.6	-8.8	-8.8	-9.7	-9.0	-5.6	1.3	6.0	7.2	8.0	8.6	9.1	9.1	8.0	5.6	3.5	1.2	-0.9	-3.7	-4.8	-5.9	-0.4	9.1	-9.7
24	-7.3	-8.3	-9.0	-10.0	-10.3	-10.1	-10.6	-9.9	-4.8	1.3	6.7	9.3	10.4	10.5	10.8	10.7	9.4	7.9	8.9	8.6	7.4	6.2	4.9	4.8	1.6	10.8	-10.6
25	5.6	4.6	3.5	1.6	0.0	-1.1	-2.0	-4.4	-0.8	2.6	6.5	9.5	9.9	9.5	8.4	8.1	7.8	6.8	6.0	5.3	4.7	4.3	4.1	4.3	4.4	9.9	-4.4
26	4.2	4.4	4.0	3.3	0.9	2.4	2.5	2.5	4.4	7.1	8.9	8.7	9.0	10.0	10.7	10.9	9.0	6.8	4.9	3.6	2.2	3.2	4.6	4.0	5.5	10.9	0.9
27	3.4	2.4	2.5	1.9	1.4	1.2	1.6	1.2	1.5	1.2	0.6	1.3	1.6	1.9	2.7	2.4	1.9	1.0	-0.5	-1.4	-1.5	-1.7	-3.5	-6.0	0.7	3.4	-6.0
28	-7.2	-8.2	-9.5	-10.2	-10.6	-11.3	-11.5	-11.4	-7.1	-1.5	3.6	6.3	7.4	8.5	8.7	8.4	6.2	1.5	-1.7	-3.0	-5.6	-6.0	-7.7	-8.5	-2.9	8.7	-11.5
29	-8.6	-8.9	-9.2	-9.6	-9.1	-9.5	-8.5	-7.5	-4.8	-2.0	3.0	4.5	4.5	4.4	4.3	3.8	3.1	3.0	2.7	2.0	1.5	2.3	2.3	1.8	-1.4	4.5	-9.6
30	0.8	-0.3	-2.2	-3.0	-4.1	-4.3	-3.1	-2.2	1.1	5.1	5.9	6.1	5.3	6.1	6.6	6.4	6.7	7.1	7.7	7.9	7.4	7.2	6.8	5.6	3.4	7.9	-4.3
31	5.1	4.8	4.6	4.7	5.0	5.0	4.9	4.6	4.8	5.5	5.4	6.1	7.8	8.7	8.9	8.1	7.6	7.7	8.2	9.5	10.4	10.7	10.7	9.3	7.0	10.7	4.6
Avg	0.9	0.6	0.4	-0.3	-1.1	-1.4	-1.7	-1.0	2.2	6.4	9.7	11.1	11.8	12.2	12.5	12.3	11.5	9.3	6.9	5.4	4.3	3.4	2.6	1.8	5.0	13.4	-3.5
Max	12.3	11.7	15.5	12.0	8.7	7.0	6.6	7.3	9.8	14.9	18.9	22.1	23.2	23.8	24.1	24.2	23.7	21.1	18.1	15.2	11.9	12.8	12.8	13.0	11.9	24.2	4.6
Min	-8.6	-8.9	-9.5	-10.2	-10.6	-11.3	-11.5	-11.4	-7.1	-2.0	0.6	1.3	1.6	1.8	1.7	1.2	0.7	0.2	-1.7	-3.0	-5.6	-6.0	-7.7	-8.5	-2.9	3.4	-11.5

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 2 Meters (degrees Celsius)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	6.6	5.8	5.3	5.1	4.9	4.6	4.4	4.7	5.3	6.8	8.6	9.7	10.7	11.0	11.3	10.5	7.7	5.8	4.7	3.5	2.9	3.1	2.1	2.0	6.1	11.3	2.0
2	1.5	1.3	-0.3	-1.3	-2.5	-3.3	-4.6	-4.3	-3.3	-0.9	1.9	3.6	4.6	5.1	5.2	5.1	4.1	3.2	2.4	1.8	1.6	1.2	1.0	0.4	1.0	5.2	-4.6
3	0.0	-0.2	-0.3	-0.4	-0.4	-0.8	-0.8	-0.8	-0.3	0.0	0.0	-0.2	-0.1	-0.2	-0.2	-0.4	-0.7	-1.1	-1.4	-1.5	-1.5	-1.8	-1.8	-1.7	-0.7	0.0	-1.8
4	-1.9	-2.3	-2.6	-2.7	-2.8	-3.3	-3.2	-3.3	-3.1	-3.0	-2.5	-2.2	-2.1	-2.0	-1.5	-1.4	-1.4	-1.4	-1.5	-1.5	-1.7	-1.9	-2.2	-2.5	-2.3	-1.4	-3.3
5	-2.4	-2.6	-4.0	-5.4	-6.2	-6.2	-4.9	-4.4	-3.8	-3.6	-3.2	-3.2	-2.9	-2.5	-2.2	-2.5	-3.0	-3.2	-3.8	-4.3	-4.8	-5.1	-8.0	-9.9	-4.3	-2.2	-9.9
6	-10.7	-10.7	-11.4	-12.6	-13.5	-12.7	-12.2	-10.6	-9.0	-7.2	-4.2	-3.9	-2.2	-1.6	-1.6	-1.9	-2.6	-3.5	-3.7	-5.9	-7.2	-7.6	-8.1	-9.0	-7.2	-1.6	-13.5
7	-10.3	-11.1	-11.2	-11.9	-12.4	-12.2	-12.1	-11.9	-10.2	-6.6	-1.0	2.3	3.6	4.1	4.9	4.9	3.2	1.5	-0.7	-1.0	-1.7	-1.6	-2.6	-3.1	-4.0	4.9	-12.4
8	-5.1	-7.0	-7.3	-7.8	-8.1	-8.2	-8.5	-8.5	-4.0	2.8	5.2	6.2	7.1	7.6	7.6	7.2	5.2	2.4	1.2	-1.7	0.3	-1.6	-2.6	-3.9	-0.9	7.6	-8.5
9	-5.5	-5.8	-5.3	-6.4	-5.4	-5.4	-3.8	-2.5	-1.5	0.3	2.9	5.6	6.6	6.1	5.9	3.3	0.0	-0.6	-1.2	-2.2	-2.2	-2.1	-2.8	-3.3	-1.1	6.6	-6.4
10	-3.3	-3.0	-3.2	-3.4	-4.3	-4.6	-4.7	-4.7	-4.8	-4.8	-4.3	-3.7	-2.8	-2.7	-2.8	-2.8	-2.9	-2.9	-2.9	-4.3	-5.8	-9.3	-10.8	-9.5	-4.5	-2.7	-10.8
11	-7.0	-4.7	-5.9	-6.5	-6.3	-9.4	-10.6	-10.4	-7.8	-3.8	-1.8	-1.8	-1.5	-1.5	-0.9	-1.2	-1.8	-2.3	-2.9	-3.0	-3.1	-3.6	-4.2	-6.5	-4.5	-0.9	-10.6
12	-7.6	-8.7	-9.1	-10.2	-10.2	-11.3	-12.0	-13.5	-12.5	-7.2	-2.2	-1.9	-1.8	-1.7	-0.8	-1.4	-2.5	-4.1	-6.7	-8.9	-8.5	-9.7	-11.0	-10.1	-7.2	-0.8	-13.5
13	-8.4	-7.9	-7.3	-6.0	-3.5	-3.4	-1.5	0.3	2.3	3.6	4.7	5.1	4.9	5.6	6.3	6.1	6.0	5.2	4.9	5.2	5.4	5.3	5.1	4.9	1.8	6.3	-8.4
14	3.7	3.3	3.1	2.5	0.1	-0.6	-1.5	-2.8	-0.1	3.1	8.0	9.3	9.6	9.6	9.5	8.2	7.3	4.5	2.9	4.1	6.3	5.2	2.4	2.6	4.2	9.6	-2.8
15	-0.3	-1.4	-3.2	-4.8	-5.5	-6.1	-5.9	-5.5	-2.5	-0.9	0.9	7.2	8.5	8.9	8.4	6.1	3.8	1.3	0.7	-2.3	-3.7	-3.2	-3.2	-4.1	-0.3	8.9	-6.1
16	-5.7	-6.5	-5.9	-6.6	-6.0	-3.6	-0.9	-1.9	-2.4	-3.1	-3.3	-3.2	-2.4	-2.3	-2.5	-2.8	-3.2	-5.0	-6.1	-8.2	-12.3	-15.3	-16.1	-17.3	-5.9	-0.9	-17.3
17	-16.7	-16.5	-16.7	-15.1	-12.4	-9.9	-7.8	-7.7	-6.5	-4.7	-2.9	0.2	2.4	2.4	2.2	2.7	2.5	3.3	3.2	3.3	3.1	3.7	3.5	3.2	-3.4	3.7	-16.7
18	3.3	3.2	1.3	-0.3	-1.1	-2.7	-4.8	-5.6	-6.1	-6.6	-6.5	-6.6	-6.0	-4.8	-4.6	-4.5	-6.0	-6.3	-7.2	-10.1	-12.3	-12.8	-10.9	-9.9	-5.3	3.3	-12.8
19	-6.3	-5.9	-5.8	-5.4	-5.6	-5.4	-5.2	-5.1	-4.9	-4.5	-3.9	-3.5	-2.8	-2.3	-2.2	-3.2	-4.2	-5.7	-6.7	-7.2	-7.2	-7.3	-8.7	-9.1	-5.3	-2.2	-9.1
20	-9.2	-9.3	-8.6	-8.5	-8.7	-9.6	-9.7	-9.6	-9.3	-9.3	-9.1	-8.5	-8.0	-8.2	-8.3	-8.8	-10.1	-13.5	-16.2	-17.1	-17.9	-19.5	-20.9	-21.5	-11.6	-8.0	-21.5
21	-21.7	-21.2	-21.3	-21.4	-21.4	-20.9	-19.2	-15.9	-10.7	-6.4	-4.9	-3.5	-2.5	-1.6	-1.4	-1.8	-2.4	-2.4	-3.7	-4.5	-7.8	-9.2	-10.3	-11.5	-10.3	-1.4	-21.7
22	-12.1	-12.2	-12.6	-13.5	-13.0	-12.2	-12.1	-10.3	-8.5	-6.0	-0.6	3.8	4.9	5.5	5.3	3.8	2.1	-0.5	-2.4	-5.1	-7.0	-8.2	-9.9	-11.0	-5.5	5.5	-13.5
23	-11.4	-11.6	-11.3	-11.3	-11.3	-11.1	-10.8	-12.0	-10.4	-7.7	-4.2	2.7	5.4	5.7	6.7	5.5	3.3	1.6	-0.3	-1.5	-4.4	-5.6	-7.0	-7.7	-4.5	6.7	-12.0
24	-7.9	-7.8	-7.0	-7.1	-7.0	-7.2	-7.4	-6.1	-5.1	-2.7	-3.4	-3.6	-2.9	-4.7	-5.5	-6.9	-7.7	-8.3	-8.6	-9.2	-9.5	-9.9	-10.5	-11.2	-7.0	-2.7	-11.2
25	-11.6	-11.9	-12.3	-12.6	-12.4	-13.6	-13.4	-13.5	-13.6	-12.9	-11.5	-10.2	-10.3	-11.3	-12.2	-12.9	-15.0	-19.0	-21.1	-22.7	-22.9	-23.6	-24.6	-25.6	-15.4	-10.2	-25.6
26	-26.5	-26.9	-27.6	-28.0	-27.8	-27.5	-27.7	-27.5	-26.7	-22.7	-17.6	-11.9	-9.2	-8.8	-9.0	-9.0	-11.6	-15.5	-19.4	-21.3	-22.9	-23.0	-24.4	-24.6	-20.7	-8.8	-28.0
27	-25.0	-25.7	-26.2	-26.2	-26.7	-26.7	-27.2	-27.4	-26.4	-22.8	-17.9	-12.7	-8.4	-5.8	-5.1	-6.5	-9.1	-13.3	-16.3	-17.5	-19.2	-19.8	-20.1	-20.4	-18.9	-5.1	-27.4
28	-20.7	-21.1	-20.6	-19.6	-20.1	-20.1	-20.2	-20.8	-19.8	-16.8	-12.0	-6.5	-2.7	-1.9	-2.4	-3.9	-6.0	-10.5	-14.0	-16.3	-17.3	-18.7	-18.9	-20.3	-14.6	-1.9	-21.1
29	-20.5	-20.9	-20.9	-21.7	-21.1	-21.7	-22.1	-22.4	-21.5	-17.0	-13.0	-8.2	-3.0	-2.4	-1.7	-2.3	-4.2	-8.6	-12.3	-14.0	-15.7	-16.9	-17.9	-18.5	-14.5	-1.7	-22.4
30	-17.8	-18.5	-19.1	-20.3	-20.8	-20.4	-20.8	-20.7	-20.2	-16.5	-14.1	-11.5	-7.8	-3.8	-3.7	-4.8	-7.3	-12.2	-14.0	-15.1	-16.8	-17.4	-17.7	-18.7	-15.0	-3.7	-20.8
Avg	-8.7	-8.9	-9.2	-9.6	-9.7	-9.8	-9.7	-9.5	-8.2	-6.0	-3.7	-1.7	-0.4	0.1	0.2	-0.5	-1.9	-3.7	-5.1	-6.3	-7.1	-7.9	-8.7	-9.3	-6.1	0.8	-13.1
Max	6.6	5.8	5.3	5.1	4.9	4.6	4.4	4.7	5.3	6.8	8.6	9.7	10.7	11.0	11.3	10.5	7.7	5.8	4.7	3.5	2.9	3.1	2.1	2.0	6.1	11.3	2.0
Min	-26.5	-26.9	-27.6	-28.0	-27.8	-27.5	-27.7	-27.5	-26.7	-22.8	-17.9	-12.7	-10.3	-11.3	-12.2	-12.9	-15.0	-19.0	-21.1	-22.7	-22.9	-23.6	-24.6	-25.6	-20.7	-10.2	-28.0

A-14

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature 2 Meters (degrees Celsius)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	-17.8	-18.9	-18.2	-19.5	-18.5	-17.7	-19.0	-18.4	-18.4	-15.7	-10.3	-4.1	-2.7	-2.0	-1.9	-2.4	-3.1	-6.2	-7.8	-10.7	-11.8	-14.1	-14.7	-15.1	-12.0	-1.9	-19.5
2	-16.4	-17.3	-17.8	-18.4	-19.2	-19.9	-20.2	-20.3	-18.4	-13.0	-7.4	-5.0	-0.5	-1.1	-3.8	-4.0	-4.2	-4.5	-5.0	-8.7	-11.5	-12.5	-14.0	-15.2	-11.6	-0.5	-20.3
3	-15.9	-17.0	-17.6	-16.7	-14.8	-14.9	-14.8	-14.1	-13.7	-8.1	-2.5	0.8	2.8	3.8	3.7	2.1	2.2	-0.6	-0.7	-0.4	0.6	1.2	2.5	1.5	-5.4	3.8	-17.6
4	-1.0	-0.8	-1.6	2.4	0.9	3.1	1.4	0.6	3.3	3.5	Au	Au	Au	4.1	3.2	2.2	0.5	0.4	-0.3	-1.6	-3.0	-1.6	-1.3	-1.9	0.6	4.1	-3.0
5	-2.7	-2.4	-2.1	-3.4	-5.5	-6.2	-8.6	-8.3	-8.3	-6.2	-3.3	-0.4	0.6	1.4	1.3	0.5	-2.0	-4.5	-5.7	-4.4	-5.1	-4.4	-5.8	-0.7	-3.6	1.4	-8.6
6	-1.4	-0.3	0.3	0.5	-0.2	-0.1	0.4	0.9	-0.7	1.1	2.7	3.5	5.0	5.0	5.2	4.9	4.3	3.8	3.4	2.9	2.4	2.1	0.8	-0.3	1.9	5.2	-1.4
7	-0.9	-1.0	-0.5	-0.1	-0.9	0.7	-0.2	0.3	1.5	2.5	4.3	4.9	5.5	5.6	5.4	3.3	2.8	3.1	3.4	3.2	3.1	2.5	2.6	3.1	2.3	5.6	-1.0
8	3.6	3.4	3.7	3.5	3.4	2.4	2.8	3.3	3.5	3.7	3.9	3.7	4.4	5.7	6.2	6.6	6.7	6.8	7.1	7.0	7.2	7.5	7.2	7.1	5.0	7.5	2.4
9	6.6	6.8	7.1	7.0	6.9	7.5	7.4	7.5	7.1	7.6	8.2	7.6	6.8	3.5	2.2	2.3	2.2	1.6	1.2	0.7	0.4	0.0	0.0	-0.2	4.5	8.2	-0.2
10	-0.8	-1.0	-1.3	-1.8	-2.3	-4.2	-5.6	-4.8	-4.2	-2.3	-0.9	-1.8	-2.3	-2.5	-2.5	-2.2	-2.4	-2.5	-2.3	-2.1	-3.0	-2.3	-3.4	-4.1	-2.6	-0.8	-5.6
11	-4.8	-5.0	-4.3	-4.1	-5.4	-6.1	-6.6	-7.8	-9.2	-9.1	-7.9	-5.3	-2.3	-0.6	-1.0	-2.0	-4.7	-8.3	-10.9	-12.0	-10.1	-10.5	-10.1	-9.0	-6.5	-0.6	-12.0
12	-9.8	-11.0	-12.0	-11.3	-10.6	-10.3	-12.3	-14.5	-15.1	-12.9	-9.9	-5.1	-1.2	-0.8	-0.8	-1.4	-2.9	-5.4	-5.1	-5.5	-5.7	-4.3	-3.9	-3.1	-7.3	0.8	-15.1
13	-2.8	-3.1	-2.9	-2.4	-2.4	-1.9	-1.8	-1.7	-1.4	-1.6	-0.8	-0.1	0.3	0.6	1.3	1.0	0.8	0.4	-0.7	-1.1	-1.8	-2.5	-2.2	-1.9	-1.2	1.3	-3.1
14	-1.6	-1.7	-1.7	-1.8	-2.0	-2.2	-3.2	-4.5	-5.2	-5.9	-6.5	-7.1	-7.2	-7.1	-7.2	-7.4	-7.2	-7.4	-7.5	-7.3	-7.2	-7.3	-7.6	-8.1	-5.5	-1.6	-8.1
15	-8.3	-9.1	-10.2	-12.4	-14.8	-17.0	-18.7	-20.1	-21.2	-20.2	-17.6	-15.3	-12.0	-7.2	-6.3	-6.3	-7.1	-9.0	-10.3	-11.8	-12.3	-13.5	-13.7	-13.8	-12.8	-6.3	-21.2
16	-12.4	-11.5	-11.1	-9.0	-8.1	-8.1	-8.3	-8.7	-10.2	-9.3	-8.4	-7.5	-7.3	-7.5	-8.1	-8.9	-9.6	-10.8	-12.7	-15.7	-15.8	-16.1	-17.0	-16.9	-10.8	-7.3	-17.0
17	-18.7	-19.0	-17.9	-20.8	-20.4	-18.7	-17.8	-18.9	-20.7	-20.9	-19.3	-13.1	-10.9	-10.2	-9.5	-11.3	-15.0	-18.2	-19.8	-20.4	-19.8	-18.6	-17.0	-16.1	-17.2	-9.5	-20.9
18	-14.9	-11.8	-11.2	-10.2	-9.5	-8.7	-8.0	-7.2	-6.5	-5.4	-3.8	-2.3	-1.0	-0.1	0.4	-0.3	-0.7	-0.5	-2.6	-3.9	-4.0	-2.3	-2.2	0.2	-4.9	0.4	-14.9
19	0.9	0.9	0.5	0.5	0.8	0.5	-0.8	-1.2	-1.6	-1.8	-1.9	-1.8	-1.9	-1.9	-2.0	-2.1	-2.4	-2.7	-2.9	-3.5	-3.5	-4.8	-5.4	-5.4	-1.8	0.9	-5.4
20	-7.1	-9.1	-12.3	-14.3	-16.4	-17.7	-15.5	-14.7	-15.8	-14.0	-12.4	-9.3	-8.0	-8.2	-6.6	-7.3	-10.5	-12.6	-12.3	-15.0	-15.9	-15.5	-12.7	-10.7	-12.2	-6.6	-17.7
21	-8.2	-8.6	-9.5	-9.4	-9.6	-12.6	-12.9	-13.3	-14.7	-10.0	-7.7	-6.5	-4.1	-3.6	-3.9	-4.3	-4.7	-4.7	-4.8	-5.4	-5.8	-5.9	-6.5	-5.5	-7.6	-3.6	-14.7
22	-7.0	-8.5	-7.8	-7.1	-6.7	-5.2	-4.1	-4.5	-4.6	-4.8	-4.8	-4.7	-4.6	-4.3	-4.2	-4.3	-4.7	-5.1	-5.7	-6.9	-7.8	-7.6	-8.5	-9.1	-5.9	-4.1	-9.1
23	-8.8	-9.3	-9.8	-12.5	-14.3	-17.0	-19.6	-20.9	-22.6	-22.2	-18.2	-15.8	-14.2	-11.3	-8.5	-9.0	-9.1	-10.1	-10.7	-11.6	-12.1	-12.5	-12.3	-12.0	-13.5	-8.5	-22.6
24	-11.9	-12.4	-12.4	-12.2	-12.0	-12.8	-12.7	-11.1	-9.7	-8.5	-8.1	-7.7	-6.8	-7.0	-7.2	-6.5	-9.9	-12.1	-11.1	-11.6	-12.1	-15.5	-16.7	-16.4	-11.0	-6.5	-16.7
25	-16.5	-15.8	-14.5	-14.4	-14.8	-14.7	-14.7	-14.7	-14.7	-14.5	-13.8	-12.5	-11.7	-11.9	-13.4	-14.3	-16.1	-19.2	-21.4	-22.5	-24.3	-25.2	-25.8	-25.9	-17.0	-11.7	-25.9
26	-25.9	-26.5	-26.1	-25.3	-26.5	-26.8	-27.3	-27.8	-28.5	-26.9	-24.2	-20.9	-13.0	-10.6	-10.0	-9.7	-11.6	-15.8	-19.2	-20.7	-22.3	-24.0	-24.3	-25.2	-21.6	-9.7	-28.5
27	-24.9	-24.2	-23.0	-23.1	-20.6	-19.7	-20.0	-19.7	-19.5	-19.2	-16.9	-15.1	-13.6	-12.2	-11.1	-9.1	-9.1	-10.1	-12.0	-13.2	-15.1	-16.1	-16.7	-15.2	-16.6	-9.1	-24.9
28	-13.8	-13.0	-12.4	-12.1	-12.0	-13.0	-13.9	-15.1	-14.7	-13.0	-11.8	-9.2	-6.3	-6.2	-6.7	-6.5	-6.0	-5.6	-6.3	-6.8	-8.0	-8.3	-9.0	-9.4	-10.0	-5.6	-15.1
29	-9.8	-10.5	-11.0	-11.4	-11.7	-12.1	-12.4	-12.6	-12.8	-12.6	-12.2	-11.7	-11.3	-11.1	-11.0	-11.0	-11.1	-11.4	-11.8	-12.0	-12.3	-12.2	-12.6	-12.9	-11.7	-9.8	-12.9
30	-13.8	-15.1	-16.5	-17.9	-18.2	-18.1	-17.3	-16.9	-16.3	-16.5	-16.1	-12.5	-10.4	-9.9	-9.6	-9.7	-9.9	-10.0	-10.1	-10.8	-12.2	-12.7	-11.7	-11.4	-13.5	-9.6	-18.2
31	-11.1	-11.5	-11.1	-11.5	-10.9	-11.1	-11.5	-13.3	-13.7	-14.3	-12.4	-11.0	-9.6	-10.3	-9.5	-9.7	-9.6	-10.3	-12.0	-15.5	-16.5	-17.1	-19.4	-20.3	-12.6	-9.5	-20.3
Avg	-9.0	-9.2	-9.2	-9.3	-9.6	-9.8	-10.2	-10.4	-10.5	-9.4	-8.0	-6.2	-4.6	-3.8	-3.7	-4.1	-5.0	-6.2	-7.0	-8.0	-8.6	-8.8	-9.1	-8.8	-7.9	-2.7	-13.5
Max	6.6	6.8	7.1	7.0	6.9	7.5	7.4	7.5	7.1	7.6	8.2	7.6	6.8	5.7	6.2	6.6	6.7	6.8	7.1	7.0	7.2	7.5	7.2	7.1	5.0	8.2	2.4
Min	-25.9	-26.5	-26.1	-25.3	-26.5	-26.8	-27.3	-27.8	-28.5	-26.9	-24.2	-20.9	-14.2	-12.2	-13.4	-14.3	-16.1	-19.2	-21.4	-22.5	-24.3	-25.2	-25.8	-25.9	-21.6	-11.7	-28.5

A-15

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature Delta T (degrees Celsius)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	1.23	1.74	1.73	1.67	2.81	2.12	1.59	0.45	-0.03	-0.19	-0.18	-0.16	-0.12	-0.13	-0.06	-0.12	-0.08	0.18	0.26	0.12	0.35	0.21	0.40	0.18	0.58	2.81	-0.19
2	0.01	0.02	0.19	0.34	0.27	0.40	0.50	0.19	-0.37	-0.27	-0.68	-0.71	-0.71	-0.57	-0.25	-0.26	-0.18	0.00	0.37	0.46	0.66	0.35	0.29	0.15	0.01	0.66	-0.71
3	0.19	0.01	0.03	0.00	0.00	-0.08	-0.11	-0.17	-0.34	-0.44	-0.45	-0.68	-0.52	-0.46	-0.59	-0.54	-0.32	-0.22	-0.18	-0.16	-0.17	-0.17	-0.16	-0.18	-0.24	0.19	-0.68
4	-0.16	-0.15	-0.15	-0.15	-0.07	-0.13	-0.18	-0.33	-0.57	-0.66	-0.67	-0.84	-0.89	-0.66	-0.73	-0.53	-0.32	-0.05	0.38	0.42	1.49	0.42	0.55	0.68	-0.14	1.49	-0.89
5	0.88	1.46	1.46	1.27	1.14	1.32	1.64	0.40	-0.27	-0.75	-0.88	-1.10	-1.06	-0.97	-0.94	-0.72	-0.47	0.41	0.96	0.55	0.75	1.07	1.02	1.11	0.34	1.64	-1.10
6	1.26	1.84	1.15	1.45	1.59	1.70	1.99	0.74	-0.27	-0.49	-0.67	-0.75	-0.90	-0.90	-0.75	-0.54	-0.13	1.16	1.03	0.57	1.14	1.31	1.34	1.28	0.59	1.99	-0.90
7	1.28	1.05	1.17	1.03	0.91	0.63	0.41	0.44	-0.08	-0.63	-0.82	-0.57	-0.30	-0.08	0.10	0.04	0.25	0.08	0.06	0.15	0.10	0.11	0.08	0.21	0.23	1.28	-0.82
8	0.08	0.00	-0.08	0.10	0.18	0.28	0.17	-0.12	-0.20	-0.17	-0.26	-0.50	-0.54	-0.50	-0.60	-0.67	-0.28	0.53	0.90	0.99	0.49	0.50	0.74	0.64	0.07	0.99	-0.67
9	0.46	0.31	0.55	0.78	1.18	1.27	0.52	0.17	-0.21	-0.50	-0.52	-0.78	-0.81	-0.73	-0.84	-0.41	-0.06	1.67	2.02	0.60	0.70	1.08	0.99	1.23	0.36	2.02	-0.84
10	1.42	1.48	1.40	1.18	1.10	1.74	1.69	0.64	0.12	-0.24	-0.34	-0.68	-0.92	-0.80	-0.65	-0.40	-0.01	0.91	1.99	1.95	1.91	1.65	2.21	1.30	0.78	2.21	-0.92
11	1.93	3.14	0.97	0.16	0.09	0.16	0.10	0.03	-0.22	-0.55	-0.68	-0.84	-0.93	-0.88	-0.76	-0.55	-0.21	0.25	0.48	0.73	0.78	1.41	0.69	0.54	0.24	3.14	-0.93
12	1.20	0.65	0.74	0.74	0.95	1.09	0.89	0.26	-0.49	-0.56	-0.81	-0.95	-1.10	-0.72	-0.56	-0.57	-0.10	0.69	1.71	1.47	1.46	0.70	0.57	0.38	0.32	1.71	-1.10
13	0.59	0.67	0.71	0.90	1.96	1.63	0.18	0.01	-0.25	-0.69	-0.63	-0.88	-1.04	-0.97	-0.77	-0.24	-0.27	0.32	1.18	1.87	1.11	0.77	0.39	0.28	0.28	1.96	-1.04
14	0.44	0.64	0.97	1.27	0.97	0.72	1.07	0.40	-0.39	-0.59	-0.95	-0.81	-1.06	-1.00	-0.88	-0.56	-0.12	1.54	1.69	0.87	0.83	0.68	1.08	1.77	0.36	1.77	-1.06
15	2.25	2.22	2.00	2.13	1.59	1.70	1.67	1.08	-0.32	-0.73	-1.10	-1.31	-1.28	-1.23	-1.07	-0.74	-0.26	0.30	0.52	0.59	0.64	0.60	1.38	1.26	0.50	2.25	-1.31
16	1.33	1.18	1.19	1.45	2.10	1.92	1.35	1.15	-0.38	-0.53	-0.47	-0.60	-0.78	-0.82	-0.60	-0.19	0.22	0.76	1.21	1.95	3.72	1.83	1.70	1.40	0.84	3.72	-0.82
17	1.93	1.05	2.29	1.44	1.88	2.16	2.17	0.97	-0.37	-0.45	-0.56	-0.74	-0.72	-0.80	-0.66	-0.48	0.06	1.56	1.97	2.38	1.48	1.84	1.45	1.81	0.90	2.38	-0.80
18	1.77	1.80	1.56	0.99	1.36	1.03	1.31	0.56	-0.12	-0.26	-0.35	-0.55	-0.43	-0.43	-0.29	-0.29	-0.15	0.55	1.87	1.14	1.12	1.82	1.21	1.23	0.69	1.87	-0.55
19	1.61	1.25	1.08	1.44	1.53	1.21	1.25	0.56	0.33	-0.28	-0.29	-0.35	-0.40	-0.47	-0.57	-0.29	0.02	0.22	0.16	0.29	0.39	0.14	0.10	0.04	0.37	1.61	-0.57
20	0.06	0.05	0.01	0.01	0.02	0.07	0.08	-0.01	-0.04	-0.27	-0.34	-0.39	-0.59	-0.54	-0.71	-0.30	0.43	0.56	0.65	0.23	0.40	1.06	1.05	1.66	0.13	1.66	-0.71
21	1.67	1.29	1.19	1.95	0.82	1.04	1.04	1.20	-0.18	-0.26	-0.15	-0.64	-0.65	-0.91	-0.76	-0.56	0.17	1.18	0.53	0.82	1.29	0.82	1.43	1.55	0.58	1.95	-0.91
22	1.74	1.26	1.33	1.25	2.00	1.48	1.52	1.31	-0.04	-0.34	-0.66	-0.94	-0.96	-0.98	-0.84	-0.54	0.46	1.66	0.81	0.57	0.57	1.54	2.76	2.53	0.73	2.76	-0.98
23	2.47	1.41	1.48	2.15	1.87	2.37	1.71	1.02	-0.22	-0.61	-0.73	-0.90	-0.93	-0.79	-0.77	-0.58	0.02	0.72	0.58	0.27	0.42	0.94	1.41	1.53	0.62	2.47	-0.93
24	1.93	1.42	1.88	1.99	1.57	1.52	1.40	1.09	-0.18	-0.45	-0.41	-0.87	-0.92	-0.64	-0.49	-0.35	0.26	0.79	0.38	0.17	0.32	0.30	0.59	0.53	0.49	1.99	-0.92
25	0.10	-0.07	0.03	0.15	0.16	0.16	0.45	1.36	-0.30	-0.28	-0.33	-0.69	-0.67	-0.54	-0.32	-0.15	0.00	0.26	0.44	0.34	0.33	0.34	0.37	0.26	0.06	1.36	-0.69
26	0.20	0.21	0.39	0.56	1.68	0.39	0.61	0.71	-0.14	-0.54	-0.57	-0.50	-0.56	-0.73	-0.74	-0.55	0.28	0.15	0.20	0.05	0.04	0.11	0.00	-0.05	0.05	1.68	-0.74
27	-0.05	0.00	0.02	0.21	0.24	0.23	0.15	0.00	-0.26	-0.39	-0.52	-0.54	-0.60	-0.57	-0.57	-0.39	-0.21	0.21	0.38	0.21	0.18	0.24	1.22	2.07	0.05	2.07	-0.60
28	1.71	1.48	1.56	1.24	1.62	1.84	1.40	1.63	-0.13	-0.25	-0.45	-0.87	-0.94	-0.86	-0.70	-0.48	0.43	1.58	0.95	0.65	1.71	1.69	2.45	1.81	0.79	2.45	-0.94
29	1.54	1.68	1.60	1.64	1.61	1.35	1.10	0.48	0.02	-0.26	-0.33	-0.57	-0.56	-0.38	-0.19	-0.16	-0.05	0.20	0.30	0.52	0.65	0.31	0.15	0.27	0.45	1.68	-0.57
30	0.53	0.68	2.51	1.06	1.24	0.96	0.63	0.54	0.25	-0.17	-0.25	-0.27	-0.03	-0.14	-0.14	0.00	0.01	0.05	0.06	0.05	0.00	-0.01	0.00	0.12	0.32	2.51	-0.27
31	0.08	0.06	0.17	0.22	0.20	0.21	0.25	0.28	-0.04	-0.09	-0.09	-0.05	-0.16	0.00	0.09	0.24	0.39	1.13	1.05	0.71	0.49	0.34	0.30	0.38	0.26	1.13	-0.16
Avg	1.02	0.96	1.00	0.99	1.12	1.05	0.92	0.55	-0.18	-0.42	-0.52	-0.68	-0.71	-0.65	-0.57	-0.38	-0.01	0.62	0.80	0.69	0.82	0.77	0.90	0.90	0.38	1.92	-0.78
Max	2.47	3.14	2.51	2.15	2.81	2.37	2.17	1.63	0.33	-0.09	-0.09	-0.05	-0.03	0.00	0.10	0.24	0.46	1.67	2.02	2.38	3.72	1.84	2.76	2.53	0.90	3.72	-0.16
Min	-0.16	-0.15	-0.15	-0.15	-0.07	-0.13	-0.18	-0.33	-0.57	-0.75	-1.10	-1.31	-1.28	-1.23	-1.07	-0.74	-0.47	-0.22	-0.18	-0.16	-0.17	-0.17	-0.16	-0.18	-0.24	0.19	-1.31

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature Delta T (degrees Celsius)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	0.26	0.14	0.10	0.12	0.27	0.16	0.11	0.12	-0.01	-0.39	-0.57	-0.65	-0.80	-0.61	-0.44	-0.06	0.17	0.34	0.19	0.08	0.40	0.05	-0.01	0.06	-0.04	0.40	-0.80
2	0.29	0.40	0.99	0.83	0.74	0.49	0.46	0.47	0.12	-0.24	-0.29	-0.30	-0.48	-0.55	-0.33	-0.17	0.30	0.32	0.12	0.03	0.07	0.13	0.01	-0.03	0.14	0.99	-0.55
3	-0.01	-0.02	-0.04	0.06	-0.03	0.13	0.03	0.00	-0.15	-0.18	-0.17	-0.17	-0.20	-0.18	-0.20	-0.16	-0.06	-0.04	-0.07	-0.03	-0.11	0.03	0.00	-0.04	-0.07	0.13	-0.20
4	-0.02	0.03	0.10	0.04	0.00	0.02	-0.02	-0.03	-0.13	-0.22	-0.38	-0.40	-0.42	-0.44	-0.43	-0.19	-0.09	-0.04	-0.01	-0.02	-0.02	0.09	0.18	0.16	-0.09	0.18	-0.44
5	0.04	0.07	0.39	0.61	0.73	0.47	0.15	0.02	-0.03	-0.07	-0.13	-0.11	-0.13	-0.18	-0.11	-0.05	-0.04	-0.02	0.27	0.13	0.50	0.62	1.15	1.37	0.24	1.37	-0.18
6	0.78	0.72	0.61	0.42	0.62	0.23	0.53	-0.13	-0.18	-0.18	-0.27	-0.28	-0.30	-0.23	-0.13	-0.01	0.19	0.48	0.48	1.19	1.07	0.91	0.94	0.65	0.34	1.19	-0.30
7	1.10	1.12	1.06	1.12	0.91	1.11	1.08	1.07	0.27	0.23	0.08	-0.29	-0.31	-0.34	-0.27	-0.14	0.29	0.54	1.26	0.78	1.21	1.25	1.74	2.06	0.71	2.06	-0.34
8	1.03	1.47	1.76	2.08	1.62	1.66	1.63	3.32	1.49	-0.11	-0.28	-0.28	-0.27	-0.36	-0.31	-0.08	0.51	1.01	1.20	1.06	1.24	0.34	0.23	0.56	0.85	3.32	-0.36
9	1.27	1.35	0.77	1.06	0.82	0.78	0.27	0.20	0.08	-0.12	-0.21	-0.10	-0.03	-0.02	-0.07	-0.04	-0.07	0.26	-0.05	0.05	-0.13	-0.16	-0.17	-0.07	0.24	1.35	-0.21
10	-0.15	-0.11	-0.07	-0.08	-0.13	-0.10	-0.08	-0.11	-0.15	-0.16	-0.21	-0.30	-0.29	-0.32	-0.23	-0.12	-0.02	0.03	0.02	0.63	0.96	2.33	1.45	0.36	0.13	2.33	-0.32
11	0.80	0.34	0.67	0.67	0.58	1.77	1.48	1.08	0.44	0.09	-0.16	0.04	0.00	-0.08	0.03	0.08	0.07	0.30	0.41	0.37	0.37	0.51	0.55	1.61	0.50	1.77	-0.16
12	1.52	1.28	1.49	1.44	1.58	1.05	1.42	0.96	0.47	-0.21	-0.27	-0.25	-0.13	-0.09	-0.15	0.09	0.43	0.70	1.53	1.53	0.90	1.43	1.61	0.88	0.80	1.61	-0.27
13	0.89	0.77	1.22	0.68	0.46	0.51	0.43	0.69	0.22	0.18	0.04	0.09	0.07	0.07	0.13	0.23	0.37	0.52	0.54	0.39	0.36	0.41	0.38	0.55	0.43	1.22	0.04
14	0.97	1.37	0.73	0.61	1.03	1.13	0.95	1.24	0.31	-0.01	-0.23	-0.34	-0.30	-0.25	-0.06	0.53	0.72	1.65	1.38	1.96	0.35	0.62	1.97	1.39	0.74	1.97	-0.34
15	0.81	0.59	1.02	1.31	1.43	1.48	1.45	1.54	0.56	0.00	-0.24	-0.16	-0.12	-0.11	-0.02	0.67	0.89	1.11	0.91	1.44	1.39	0.78	0.98	1.02	0.78	1.54	-0.24
16	1.36	1.16	1.11	1.48	0.61	0.47	0.08	-0.04	-0.09	-0.12	-0.20	-0.24	-0.31	-0.13	-0.02	0.07	0.14	0.39	0.68	1.02	1.88	2.30	2.32	1.59	0.65	2.32	-0.31
17	1.45	1.22	0.99	0.75	0.06	0.36	0.03	0.04	-0.19	-0.18	-0.37	-0.45	-0.18	0.03	0.09	0.13	0.22	0.21	0.26	0.32	0.26	0.22	0.23	0.19	0.24	1.45	-0.45
18	0.22	0.12	0.05	0.24	0.32	0.16	-0.07	-0.04	-0.06	-0.15	-0.26	-0.29	-0.54	-0.51	-0.19	-0.07	0.29	0.24	0.56	0.92	1.28	0.90	1.04	0.46	0.19	1.28	-0.54
19	0.14	0.11	0.17	0.08	0.18	0.08	0.04	0.06	0.01	-0.08	-0.13	-0.16	-0.27	-0.31	-0.22	0.22	0.58	0.69	0.42	0.17	-0.05	0.12	0.59	0.50	0.12	0.69	-0.31
20	0.42	0.42	0.66	0.51	0.57	0.58	0.22	0.21	-0.04	-0.01	-0.10	-0.41	-0.59	-0.39	-0.22	0.09	0.76	1.71	1.58	0.82	0.99	1.19	1.46	1.57	0.50	1.71	-0.59
21	1.10	1.04	1.27	0.99	0.89	1.08	0.56	0.55	1.33	0.13	-0.07	-0.09	-0.14	-0.11	0.00	0.09	0.39	0.43	0.65	0.91	1.81	1.13	0.33	0.62	0.62	1.81	-0.14
22	0.69	0.68	0.81	0.87	0.91	0.71	1.33	1.14	0.32	-0.06	-0.05	-0.25	0.10	0.00	0.04	0.61	0.84	0.57	0.44	1.02	1.60	2.18	1.74	1.71	0.75	2.18	-0.25
23	1.77	1.61	1.60	1.77	1.61	2.33	1.73	1.91	1.13	0.58	0.12	0.25	-0.12	0.06	0.11	0.87	1.13	0.78	0.67	1.00	2.23	2.16	2.15	2.59	1.25	2.59	-0.12
24	2.48	2.08	2.02	1.64	1.55	1.18	1.30	0.54	0.51	0.03	-0.22	-0.24	-0.28	-0.19	-0.11	-0.09	-0.06	-0.07	-0.07	-0.07	-0.08	-0.07	-0.06	-0.06	0.49	2.48	-0.28
25	-0.07	-0.07	-0.05	-0.10	-0.09	-0.07	-0.08	-0.09	-0.19	-0.19	-0.29	-0.29	-0.36	-0.32	0.14	0.07	0.89	2.04	2.20	1.40	1.94	1.93	1.79	2.14	0.51	2.20	-0.36
26	1.85	2.25	1.70	1.95	1.69	1.89	1.68	1.63	1.32	0.48	-0.03	-0.04	-0.30	-0.28	-0.15	0.00	0.64	1.43	1.98	2.22	2.16	1.60	2.22	2.20	1.25	2.25	-0.30
27	2.47	1.78	2.41	2.43	2.08	2.67	2.63	2.39	1.92	0.45	-0.04	-0.25	-0.52	-0.37	-0.29	0.00	0.69	1.46	2.55	2.34	2.50	2.43	2.23	2.66	1.53	2.67	-0.52
28	2.36	2.55	2.20	2.26	2.03	1.96	2.24	2.45	1.51	0.74	0.77	-0.16	-0.25	-0.26	-0.12	0.27	0.72	1.89	2.59	3.08	2.16	2.50	2.10	2.56	1.59	3.08	-0.26
29	2.06	2.53	1.98	3.13	1.74	1.94	2.28	2.59	1.59	0.17	-0.07	-0.11	-0.33	-0.18	-0.07	0.15	0.85	2.49	2.36	2.06	2.45	2.08	2.31	2.08	1.50	3.13	-0.33
30	1.85	1.74	1.46	2.35	2.93	2.38	1.90	2.38	1.89	0.64	0.46	-0.06	0.44	-0.42	0.06	0.49	0.75	1.07	1.17	1.59	1.68	1.42	1.96	1.13	1.30	2.93	-0.42
Avg	0.99	0.96	0.97	1.04	0.92	0.95	0.86	0.87	0.48	0.03	-0.13	-0.21	-0.25	-0.24	-0.12	0.12	0.42	0.75	0.87	0.95	1.05	1.05	1.11	1.08	0.61	1.81	-0.33
Max	2.48	2.55	2.41	3.13	2.93	2.67	2.63	3.32	1.92	0.74	0.77	0.25	0.44	0.07	0.14	0.87	1.13	2.49	2.59	3.08	2.50	2.50	2.32	2.66	1.59	3.32	0.04
Min	-0.15	-0.11	-0.07	-0.10	-0.13	-0.10	-0.08	-0.13	-0.19	-0.39	-0.57	-0.65	-0.80	-0.61	-0.44	-0.19	-0.09	-0.07	-0.07	-0.07	-0.13	-0.16	-0.17	-0.07	-0.09	0.13	-0.80

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Temperature Delta T (degrees Celsius)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	1.49	2.03	1.55	1.71	1.33	1.46	1.59	1.27	1.33	0.61	0.06	-0.04	-0.23	-0.15	0.01	0.39	0.73	1.68	0.79	1.10	1.29	1.56	1.69	1.20	1.02	2.03	-0.23
2	1.57	2.24	2.13	2.09	2.26	1.81	2.51	2.30	2.54	0.68	0.09	-0.12	-0.06	0.01	-0.16	-0.08	0.10	0.25	0.56	1.33	1.56	1.69	2.04	1.88	1.22	2.54	-0.16
3	2.98	2.42	2.86	2.78	2.87	2.69	3.42	2.62	2.32	0.93	0.09	0.41	0.11	0.04	0.18	0.71	0.61	0.50	0.85	0.83	1.21	0.93	0.84	1.13	1.43	3.42	0.04
4	0.91	0.64	0.84	1.20	1.30	0.83	1.59	1.43	0.50	0.28	Au	Au	Au	0.14	0.11	0.29	0.71	0.48	0.56	0.92	0.86	0.75	0.24	0.34	0.71	1.59	0.11
5	0.41	0.66	0.75	1.15	1.61	2.05	1.22	0.47	0.44	0.07	0.42	-0.27	-0.20	-0.05	0.00	0.18	1.29	1.25	1.67	1.67	1.86	1.78	1.76	0.18	0.85	2.05	-0.27
6	0.80	0.44	0.17	0.28	0.62	0.73	0.41	0.46	0.59	0.35	0.17	0.30	0.33	0.29	0.19	0.30	0.39	0.28	0.31	0.33	0.35	0.35	0.86	1.51	0.45	1.51	0.17
7	1.14	1.00	0.67	0.71	0.87	0.45	1.03	0.64	0.52	0.34	0.16	0.09	0.08	0.13	0.29	0.17	0.16	0.19	0.25	0.21	0.23	0.22	0.34	0.32	0.43	1.14	0.08
8	0.31	0.36	0.34	0.34	0.27	0.18	0.24	0.19	0.23	0.21	0.24	0.27	0.25	0.42	0.42	0.51	0.60	0.58	0.52	0.52	0.44	0.26	0.45	0.51	0.36	0.60	0.18
9	0.65	0.50	0.59	0.52	0.56	0.36	0.51	0.56	0.65	0.49	0.36	0.36	0.21	0.15	0.10	0.22	0.23	0.21	0.20	0.23	0.17	0.11	0.09	0.06	0.34	0.65	0.06
10	0.16	0.29	0.30	0.40	0.55	0.96	0.94	0.32	0.28	0.06	0.05	-0.11	-0.12	-0.12	-0.09	-0.02	-0.03	-0.02	0.24	0.37	0.63	0.44	0.83	0.91	0.30	0.96	-0.12
11	1.05	1.47	0.81	0.90	1.58	0.78	0.74	0.99	1.04	0.78	0.82	0.21	0.05	0.03	0.30	0.84	1.82	1.62	1.64	1.42	0.80	0.94	0.47	0.52	0.90	1.82	0.03
12	0.96	1.15	1.30	0.89	0.67	0.54	1.57	2.28	2.44	0.49	0.51	0.44	-0.12	-0.06	0.20	0.36	0.77	1.44	1.04	1.29	0.65	0.46	0.33	0.25	0.83	2.44	-0.12
13	0.12	0.01	-0.08	-0.05	0.10	0.15	0.32	0.27	0.10	-0.09	-0.05	0.04	-0.02	0.08	-0.02	0.24	0.24	0.41	0.54	0.07	0.13	-0.02	0.06	0.00	0.11	0.54	-0.09
14	-0.03	-0.03	-0.01	-0.04	0.00	0.01	0.01	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.03	-0.01	-0.02	-0.01	0.03	0.06	0.05	0.08	0.07	0.07	0.11	0.01	0.11	-0.04
15	0.06	0.23	0.37	0.61	1.49	1.53	1.86	1.79	2.31	1.48	0.91	0.64	0.55	0.11	-0.03	0.02	0.33	0.67	1.08	2.04	1.89	1.20	1.15	0.96	0.97	2.31	-0.03
16	0.44	0.07	0.09	0.37	0.02	0.05	0.10	0.49	1.16	0.54	0.14	-0.38	-0.24	-0.11	-0.06	-0.04	0.04	0.58	1.19	1.58	0.92	0.52	1.34	0.71	0.40	1.58	-0.38
17	0.50	0.26	0.39	1.96	1.18	0.21	0.24	1.30	2.56	1.78	1.72	0.77	-0.09	-0.01	-0.21	0.51	1.85	1.89	1.55	1.47	0.83	0.56	0.06	0.47	0.91	2.56	-0.21
18	0.57	0.13	0.07	0.05	-0.01	-0.03	-0.01	0.04	-0.02	0.03	0.04	0.00	-0.07	-0.02	0.07	0.51	0.36	0.42	1.36	1.55	1.72	0.84	0.54	0.23	0.35	1.72	-0.07
19	0.16	0.23	0.38	0.37	0.13	0.34	0.57	0.51	0.25	-0.02	0.06	-0.05	-0.15	-0.10	-0.10	-0.05	-0.04	-0.03	0.01	0.32	0.26	0.70	0.67	0.76	0.22	0.76	-0.15
20	1.22	1.25	2.17	1.91	2.22	2.05	0.93	1.18	1.39	0.76	2.03	1.39	0.86	1.05	1.16	1.36	1.75	2.32	2.67	2.00	2.16	2.13	1.85	2.12	1.66	2.67	0.76
21	1.06	0.94	0.90	0.96	2.07	2.38	1.16	1.66	2.10	0.79	0.23	0.33	0.12	0.18	0.22	0.05	-0.04	-0.02	-0.01	-0.03	0.04	0.16	0.78	0.78	0.70	2.38	-0.04
22	1.12	1.27	0.73	0.57	0.64	0.47	0.19	0.10	0.12	0.13	0.09	0.08	0.09	0.04	0.13	0.15	0.17	0.10	0.36	0.80	0.62	0.44	0.77	0.95	0.42	1.27	0.04
23	0.56	0.86	1.04	1.52	1.17	1.45	2.47	1.80	2.32	1.25	0.43	0.19	0.51	1.12	0.51	0.19	0.01	0.50	0.43	0.67	0.62	0.55	0.42	0.57	0.88	2.47	0.01
24	0.64	0.78	0.56	0.49	0.55	0.68	0.76	0.65	0.21	-0.03	-0.03	-0.07	0.01	0.37	0.29	0.81	1.45	1.66	0.13	0.41	0.62	1.57	1.36	1.26	0.63	1.66	-0.07
25	1.31	0.58	0.39	0.07	-0.06	-0.07	-0.07	-0.09	-0.11	-0.08	-0.16	-0.60	-0.27	0.09	0.76	1.06	1.68	1.85	2.52	1.47	3.03	1.88	2.11	1.89	0.80	3.03	-0.60
26	1.59	2.37	1.80	1.83	2.71	2.06	2.19	2.08	2.55	2.02	1.55	2.65	1.34	0.32	0.63	0.43	1.11	1.60	1.81	1.74	2.14	2.12	1.94	1.90	1.77	2.71	0.32
27	3.21	3.01	2.39	2.23	1.78	1.63	1.93	0.98	1.06	1.71	0.80	0.34	0.54	1.30	2.35	1.35	1.22	1.35	1.46	1.40	1.99	2.11	1.39	0.78	1.60	3.21	0.34
28	0.81	0.92	0.55	0.84	0.92	0.72	1.88	1.73	1.38	0.43	0.09	0.12	-0.03	-0.14	-0.10	-0.03	0.16	0.05	0.03	0.02	0.09	0.08	0.07	0.00	0.44	1.88	-0.14
29	0.02	0.01	0.10	0.16	0.15	0.06	0.01	-0.03	-0.02	-0.10	-0.20	-0.19	-0.13	-0.13	-0.10	-0.05	0.00	0.03	0.11	0.11	0.20	0.01	0.12	0.21	0.01	0.21	-0.20
30	0.35	0.76	0.99	0.97	1.16	1.10	0.53	0.20	0.46	0.51	0.81	0.47	-0.05	-0.07	-0.03	-0.01	0.00	0.01	0.05	0.55	0.85	0.65	0.29	0.27	0.45	1.16	-0.07
31	0.13	0.43	0.24	0.32	0.11	0.23	0.46	1.07	0.74	0.96	0.27	0.29	-0.05	0.37	0.32	0.58	0.52	0.55	0.89	1.26	1.48	1.23	1.25	1.32	0.62	1.48	-0.05
Avg	0.85	0.88	0.82	0.91	0.99	0.90	1.01	0.94	1.01	0.56	0.39	0.25	0.11	0.17	0.24	0.35	0.59	0.72	0.80	0.89	0.96	0.85	0.84	0.78	0.70	1.76	-0.03
Max	3.21	3.01	2.86	2.78	2.87	2.69	3.42	2.62	2.56	2.02	2.03	2.65	1.34	1.30	2.35	1.36	1.85	2.32	2.67	2.04	3.03	2.13	2.11	2.12	1.77	3.42	0.76
Min	-0.03	-0.03	-0.08	-0.05	-0.06	-0.07	-0.07	-0.09	-0.11	-0.10	-0.20	-0.60	-0.27	-0.15	-0.21	-0.08	-0.04	-0.03	-0.01	-0.03	0.04	-0.02	0.06	0.00	0.01	0.11	-0.60

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Solar Radiation (watts m<sup>2</sup>)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	0	0	0	0	0	0	4	32	85	164	155	124	111	95	61	125	124	25	0	0	0	0	0	0	46	164	0
2	0	0	0	0	0	0	8	45	274	205	606	325	282	236	80	107	92	34	0	0	0	0	0	0	96	606	0
3	0	0	0	0	0	0	4	27	100	193	190	347	226	141	164	145	54	11	0	0	0	0	0	0	67	347	0
4	0	0	0	0	0	0	5	57	155	274	475	508	494	440	391	271	102	26	0	0	0	0	0	0	133	508	0
5	0	0	0	0	0	0	7	110	316	474	585	650	660	615	517	379	218	53	0	0	0	0	0	0	191	660	0
6	0	0	0	0	0	0	5	138	317	466	580	650	669	623	511	321	179	44	0	0	0	0	0	0	188	669	0
7	0	0	0	0	0	0	3	95	232	483	511	326	173	89	92	57	32	9	0	0	0	0	0	0	88	511	0
8	0	0	0	0	0	0	5	54	170	180	167	274	262	203	279	326	154	28	0	0	0	0	0	0	88	326	0
9	0	0	0	0	0	0	3	43	220	454	481	606	614	525	551	290	177	19	0	0	0	0	0	0	166	614	0
10	0	0	0	0	0	0	6	98	98	256	537	559	632	572	475	323	180	30	0	0	0	0	0	0	157	632	0
11	0	0	0	0	0	0	1	39	189	434	494	604	631	581	483	347	186	30	0	0	0	0	0	0	167	631	0
12	0	0	0	0	0	0	4	101	283	431	539	601	661	366	341	323	162	27	0	0	0	0	0	0	160	661	0
13	0	0	0	0	0	0	4	81	182	409	308	577	659	593	450	187	192	25	0	0	0	0	0	0	153	659	0
14	0	0	0	0	0	0	3	89	273	412	540	422	606	552	454	324	165	24	0	0	0	0	0	0	161	606	0
15	0	0	0	0	0	0	3	96	274	419	525	587	594	547	450	314	155	13	0	0	0	0	0	0	166	594	0
16	0	0	0	0	0	0	5	93	263	417	527	595	569	508	315	188	115	22	0	0	0	0	0	0	151	595	0
17	0	0	0	0	0	0	2	80	259	394	525	585	597	543	401	300	151	13	0	0	0	0	0	0	160	597	0
18	0	0	0	0	0	0	1	43	112	159	274	296	156	179	95	117	113	13	0	0	0	0	0	0	65	296	0
19	0	0	0	0	0	0	3	17	59	197	204	156	182	212	311	114	30	1	0	0	0	0	0	0	62	311	0
20	0	0	0	0	0	0	0	17	18	105	105	105	199	206	338	121	32	5	0	0	0	0	0	0	52	338	0
21	0	0	0	0	0	0	2	40	233	396	500	559	566	518	423	290	131	6	0	0	0	0	0	0	153	566	0
22	0	0	0	0	0	0	1	38	221	390	496	555	562	514	405	280	85	2	0	0	0	0	0	0	148	562	0
23	0	0	0	0	0	0	1	66	249	379	489	568	546	439	371	271	76	3	0	0	0	0	0	0	144	568	0
24	0	0	0	0	0	0	2	60	247	373	375	551	500	323	280	167	48	1	0	0	0	0	0	0	122	551	0
25	0	0	0	0	0	0	1	56	158	214	274	304	256	187	102	58	32	2	0	0	0	0	0	0	69	304	0
26	0	0	0	0	0	0	0	34	139	389	428	198	313	353	325	263	52	3	0	0	0	0	0	0	104	428	0
27	0	0	0	0	0	0	0	12	96	124	135	172	179	168	150	71	32	2	0	0	0	0	0	0	48	179	0
28	0	0	0	0	0	0	0	41	212	351	460	519	529	477	344	251	40	1	0	0	0	0	0	0	134	529	0
29	0	0	0	0	0	0	1	21	64	120	165	219	183	109	43	36	38	4	0	0	0	0	0	0	42	219	0
30	0	0	0	0	0	0	0	15	55	104	113	123	43	72	58	13	5	1	0	0	0	0	0	0	25	123	0
31	0	0	0	0	0	0	0	11	61	50	38	66	122	60	51	28	13	0	0	0	0	0	0	0	21	122	0
Avg	0	0	0	0	0	0	3	56	181	304	381	411	412	356	300	207	102	15	0	0	0	0	0	0	114	467	0
Max	0	0	0	0	0	0	8	138	317	483	606	650	669	623	551	379	218	53	0	0	0	0	0	0	191	669	0
Min	0	0	0	0	0	0	0	11	18	50	38	66	43	60	43	13	5	0	0	0	0	0	0	0	21	122	0

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Solar Radiation (watts m<sup>2</sup>)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	0	0	0	0	0	0	0	1	147	359	441	485	543	389	325	85	16	0	0	0	0	0	0	0	116	543	0
2	0	0	0	0	0	0	0	22	105	188	226	221	332	266	188	85	17	0	0	0	0	0	0	0	69	332	0
3	0	0	0	0	0	0	0	5	23	48	41	92	127	101	94	41	20	0	0	0	0	0	0	0	25	127	0
4	0	0	0	0	0	0	0	9	57	68	146	174	212	277	290	78	16	0	0	0	0	0	0	0	55	290	0
5	0	0	0	0	0	0	0	6	33	69	130	136	143	192	168	54	22	0	0	0	0	0	0	0	40	192	0
6	0	0	0	0	0	0	0	7	57	100	261	387	480	508	383	205	45	1	0	0	0	0	0	0	101	508	0
7	0	0	0	0	0	0	0	30	157	295	403	454	457	410	315	206	54	1	0	0	0	0	0	0	116	457	0
8	0	0	0	0	0	0	0	15	145	312	409	456	472	425	326	181	28	0	0	0	0	0	0	0	115	472	0
9	0	0	0	0	0	0	0	4	26	127	214	185	132	122	108	53	14	0	0	0	0	0	0	0	41	214	0
10	0	0	0	0	0	0	0	5	17	31	59	189	253	168	96	58	11	0	0	0	0	0	0	0	37	253	0
11	0	0	0	0	0	0	0	19	77	172	402	208	142	108	84	31	15	0	0	0	0	0	0	0	52	402	0
12	0	0	0	0	0	0	0	15	140	309	431	436	349	219	336	153	22	0	0	0	0	0	0	0	100	436	0
13	0	0	0	0	0	0	0	6	54	124	240	184	185	193	128	64	15	0	0	0	0	0	0	0	50	240	0
14	0	0	0	0	0	0	0	10	73	210	385	411	368	286	182	84	42	0	0	0	0	0	0	0	85	411	0
15	0	0	0	0	0	0	0	9	66	101	179	326	234	199	162	52	8	0	0	0	0	0	0	0	56	326	0
16	0	0	0	0	0	0	0	3	46	95	210	297	380	213	127	88	35	0	0	0	0	0	0	0	62	380	0
17	0	0	0	0	0	0	0	4	104	88	234	387	238	112	54	33	15	0	0	0	0	0	0	0	53	387	0
18	0	0	0	0	0	0	0	8	56	135	222	232	497	546	295	153	17	0	0	0	0	0	0	0	90	546	0
19	0	0	0	0	0	0	0	2	32	75	129	196	293	290	262	81	12	0	0	0	0	0	0	0	57	293	0
20	0	0	0	0	0	0	0	3	18	136	130	381	535	415	313	158	18	0	0	0	0	0	0	0	88	535	0
21	0	0	0	0	0	0	0	5	83	227	312	397	388	357	278	157	33	0	0	0	0	0	0	0	93	397	0
22	0	0	0	0	0	0	0	4	103	238	344	406	404	351	270	64	7	0	0	0	0	0	0	0	91	406	0
23	0	0	0	0	0	0	0	4	39	139	314	419	378	256	218	81	12	0	0	0	0	0	0	0	78	419	0
24	0	0	0	0	0	0	0	4	34	119	108	72	140	120	53	39	7	0	0	0	0	0	0	0	29	140	0
25	0	0	0	0	0	0	0	5	49	104	153	223	290	257	101	109	20	0	0	0	0	0	0	0	55	290	0
26	0	0	0	0	0	0	0	3	86	229	334	397	409	364	272	148	19	0	0	0	0	0	0	0	94	409	0
27	0	0	0	0	0	0	0	3	84	239	334	396	406	361	270	145	17	0	0	0	0	0	0	0	94	406	0
28	0	0	0	0	0	0	0	3	75	232	329	390	400	357	266	143	16	0	0	0	0	0	0	0	92	400	0
29	0	0	0	0	0	0	0	2	76	218	323	385	395	351	263	139	15	0	0	0	0	0	0	0	90	395	0
30	0	0	0	0	0	0	0	2	60	158	136	300	230	288	186	116	14	0	0	0	0	0	0	0	62	300	0
Avg	0	0	0	0	0	0	0	7	71	165	253	307	327	283	214	103	20	0	0	0	0	0	0	0	73	364	0
Max	0	0	0	0	0	0	0	30	157	359	441	485	543	546	383	206	54	1	0	0	0	0	0	0	116	546	0
Min	0	0	0	0	0	0	0	1	17	31	41	72	127	101	53	31	7	0	0	0	0	0	0	0	25	127	0

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Solar Radiation (watts m<sup>2</sup>)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	0	0	0	0	0	0	0	2	74	218	311	375	386	343	255	132	14	0	0	0	0	0	0	0	88	386	0
2	0	0	0	0	0	0	0	3	40	169	244	268	163	62	42	23	9	0	0	0	0	0	0	0	43	268	0
3	0	0	0	0	0	0	0	1	65	145	267	310	363	374	229	50	7	0	0	0	0	0	0	0	75	374	0
4	0	0	0	0	0	0	0	1	47	125	Au	Au	Au	144	153	103	6	0	0	0	0	0	0	0	28	153	0
5	0	0	0	0	0	0	0	1	60	214	295	386	376	338	251	140	13	0	0	0	0	0	0	0	86	386	0
6	0	0	0	0	0	0	0	0	40	129	132	100	192	150	123	37	4	0	0	0	0	0	0	0	38	192	0
7	0	0	0	0	0	0	0	0	15	72	161	248	230	93	37	18	2	0	0	0	0	0	0	0	37	248	0
8	0	0	0	0	0	0	0	0	32	77	83	55	106	67	45	22	3	0	0	0	0	0	0	0	20	106	0
9	0	0	0	0	0	0	0	0	11	70	72	70	101	60	78	28	7	0	0	0	0	0	0	0	21	101	0
10	0	0	0	0	0	0	0	0	13	35	39	39	37	34	47	31	2	0	0	0	0	0	0	0	12	47	0
11	0	0	0	0	0	0	0	0	24	123	249	397	407	322	220	101	6	0	0	0	0	0	0	0	77	407	0
12	0	0	0	0	0	0	0	0	41	153	251	347	371	328	214	77	7	0	0	0	0	0	0	0	75	371	0
13	0	0	0	0	0	0	0	0	14	107	164	142	147	150	154	41	12	0	0	0	0	0	0	0	39	164	0
14	0	0	0	0	0	0	0	0	8	41	84	127	135	125	69	33	5	0	0	0	0	0	0	0	26	135	0
15	0	0	0	0	0	0	0	0	29	181	208	240	287	289	164	76	8	0	0	0	0	0	0	0	62	289	0
16	0	0	0	0	0	0	0	0	16	39	52	64	63	69	110	41	5	0	0	0	0	0	0	0	19	110	0
17	0	0	0	0	0	0	0	0	19	114	203	285	345	338	239	80	6	0	0	0	0	0	0	0	68	345	0
18	0	0	0	0	0	0	0	0	11	47	101	127	174	126	87	51	9	0	0	0	0	0	0	0	31	174	0
19	0	0	0	0	0	0	0	0	6	32	83	92	97	65	54	24	3	0	0	0	0	0	0	0	19	97	0
20	0	0	0	0	0	0	0	0	12	69	108	143	182	157	129	67	9	0	0	0	0	0	0	0	37	182	0
21	0	0	0	0	0	0	0	1	16	34	64	84	193	165	127	48	7	0	0	0	0	0	0	0	31	193	0
22	0	0	0	0	0	0	0	0	15	57	95	134	127	153	96	32	8	0	0	0	0	0	0	0	30	153	0
23	0	0	0	0	0	0	0	1	32	78	115	214	300	306	178	49	11	0	0	0	0	0	0	0	54	306	0
24	0	0	0	0	0	0	0	0	7	32	59	75	171	126	211	130	11	0	0	0	0	0	0	0	34	211	0
25	0	0	0	0	0	0	0	0	20	130	261	289	153	122	227	153	25	0	0	0	0	0	0	0	58	289	0
26	0	0	0	0	0	0	0	0	38	144	218	280	324	324	278	144	16	0	0	0	0	0	0	0	74	324	0
27	0	0	0	0	0	0	0	1	24	92	159	134	171	187	120	70	10	0	0	0	0	0	0	0	40	187	0
28	0	0	0	0	0	0	0	1	23	91	138	159	197	154	94	53	8	0	0	0	0	0	0	0	38	197	0
29	0	0	0	0	0	0	0	0	14	64	105	144	172	165	102	53	9	0	0	0	0	0	0	0	35	172	0
30	0	0	0	0	0	0	0	0	10	66	131	140	193	129	101	48	11	0	0	0	0	0	0	0	35	193	0
31	0	0	0	0	0	0	0	0	17	74	158	314	234	286	258	167	20	0	0	0	0	0	0	0	64	314	0
Avg	0	0	0	0	0	0	0	0	26	97	154	193	213	186	145	68	9	0	0	0	0	0	0	0	45	228	0
Max	0	0	0	0	0	0	0	3	74	218	311	397	407	374	278	167	25	0	0	0	0	0	0	0	88	407	0
Min	0	0	0	0	0	0	0	0	6	32	39	39	37	34	37	18	2	0	0	0	0	0	0	0	12	47	0

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Barometric Pressure (InHg)**  
**October 2015**

Day	<< Hour >>																								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	24						
1	24.51	24.50	24.50	24.50	24.50	24.50	24.52	24.53	24.53	24.54	24.53	24.52	24.52	24.52	24.50	24.49	24.49	24.49	24.49	24.49	24.49	24.49	24.49	24.49	24.49	24.51	24.54	24.49		
2	24.48	24.45	24.42	24.42	24.42	24.42	24.42	24.41	24.40	24.39	24.38	24.37	24.35	24.33	24.32	24.31	24.31	24.31	24.32	24.32	24.31	24.30	24.30	24.29	24.32	24.32	24.31	24.30	24.30	24.29
3	24.29	24.30	24.31	24.30	24.31	24.34	24.36	24.38	24.39	24.40	24.41	24.41	24.42	24.43	24.44	24.45	24.46	24.47	24.48	24.49	24.50	24.50	24.51	24.51	24.41	24.41	24.41	24.41	24.41	
4	24.51	24.50	24.50	24.50	24.49	24.49	24.49	24.50	24.50	24.50	24.49	24.48	24.46	24.44	24.43	24.42	24.41	24.40	24.41	24.42	24.42	24.42	24.41	24.41	24.41	24.41	24.42	24.42	24.40	
5	24.41	24.41	24.42	24.42	24.42	24.43	24.43	24.44	24.45	24.46	24.46	24.46	24.46	24.46	24.46	24.47	24.48	24.49	24.49	24.50	24.52	24.52	24.52	24.52	24.46	24.46	24.46	24.46	24.41	
6	24.51	24.51	24.52	24.52	24.52	24.54	24.54	24.54	24.56	24.55	24.54	24.52	24.51	24.49	24.48	24.47	24.47	24.46	24.47	24.47	24.48	24.47	24.47	24.46	24.47	24.47	24.48	24.46	24.46	
7	24.46	24.46	24.47	24.47	24.48	24.48	24.49	24.49	24.50	24.51	24.52	24.52	24.52	24.51	24.52	24.52	24.53	24.53	24.54	24.55	24.56	24.57	24.57	24.57	24.51	24.51	24.57	24.46	24.46	
8	24.58	24.57	24.58	24.59	24.59	24.61	24.62	24.63	24.65	24.66	24.67	24.67	24.66	24.66	24.65	24.65	24.66	24.66	24.66	24.66	24.65	24.65	24.65	24.64	24.66	24.66	24.65	24.65	24.64	
9	24.63	24.62	24.62	24.62	24.61	24.60	24.59	24.59	24.58	24.57	24.55	24.54	24.53	24.52	24.50	24.50	24.49	24.49	24.48	24.49	24.48	24.47	24.47	24.47	24.48	24.49	24.48	24.47	24.47	
10	24.46	24.46	24.46	24.45	24.44	24.43	24.41	24.41	24.41	24.40	24.38	24.36	24.33	24.30	24.27	24.24	24.22	24.21	24.20	24.20	24.20	24.19	24.17	24.15	24.20	24.20	24.20	24.19	24.15	
11	24.12	24.10	24.11	24.17	24.22	24.25	24.25	24.26	24.28	24.29	24.32	24.34	24.34	24.35	24.38	24.40	24.41	24.44	24.47	24.50	24.51	24.52	24.52	24.51	24.47	24.50	24.51	24.52	24.10	
12	24.51	24.51	24.51	24.50	24.48	24.49	24.49	24.50	24.51	24.51	24.50	24.48	24.47	24.46	24.45	24.44	24.43	24.43	24.44	24.45	24.45	24.47	24.48	24.49	24.48	24.48	24.51	24.43	24.43	
13	24.49	24.49	24.50	24.50	24.50	24.51	24.51	24.52	24.53	24.53	24.52	24.50	24.49	24.48	24.46	24.47	24.48	24.49	24.50	24.51	24.52	24.52	24.52	24.54	24.50	24.51	24.52	24.52	24.46	
14	24.53	24.53	24.53	24.52	24.53	24.54	24.54	24.55	24.57	24.57	24.57	24.56	24.55	24.54	24.53	24.53	24.53	24.54	24.55	24.56	24.58	24.59	24.60	24.60	24.55	24.56	24.58	24.52	24.52	
15	24.62	24.63	24.65	24.66	24.68	24.70	24.72	24.72	24.74	24.75	24.75	24.74	24.73	24.72	24.72	24.71	24.71	24.70	24.70	24.70	24.70	24.69	24.68	24.68	24.70	24.70	24.70	24.69	24.62	
16	24.66	24.65	24.64	24.63	24.62	24.62	24.61	24.61	24.62	24.62	24.60	24.59	24.57	24.56	24.56	24.55	24.55	24.55	24.56	24.57	24.56	24.56	24.55	24.54	24.56	24.57	24.56	24.56	24.54	
17	24.53	24.52	24.51	24.50	24.49	24.49	24.48	24.48	24.49	24.48	24.46	24.44	24.43	24.40	24.39	24.38	24.37	24.37	24.37	24.37	24.36	24.36	24.36	24.35	24.37	24.37	24.36	24.36	24.35	
18	24.34	24.34	24.35	24.35	24.36	24.36	24.36	24.36	24.37	24.38	24.38	24.37	24.37	24.37	24.37	24.37	24.37	24.38	24.38	24.38	24.38	24.38	24.38	24.37	24.38	24.38	24.38	24.38	24.34	
19	24.35	24.35	24.34	24.32	24.32	24.31	24.30	24.30	24.30	24.30	24.30	24.29	24.28	24.27	24.26	24.25	24.24	24.25	24.26	24.27	24.27	24.28	24.29	24.29	24.29	24.29	24.29	24.29	24.24	
20	24.30	24.31	24.32	24.33	24.34	24.36	24.37	24.40	24.43	24.45	24.48	24.50	24.52	24.52	24.53	24.55	24.56	24.57	24.58	24.59	24.59	24.59	24.60	24.60	24.47	24.47	24.47	24.47	24.30	
21	24.59	24.60	24.60	24.60	24.59	24.59	24.58	24.58	24.58	24.58	24.57	24.56	24.54	24.52	24.51	24.49	24.48	24.47	24.46	24.46	24.45	24.45	24.44	24.44	24.46	24.46	24.45	24.45	24.44	
22	24.43	24.43	24.43	24.43	24.42	24.43	24.43	24.43	24.45	24.45	24.44	24.43	24.41	24.39	24.38	24.38	24.39	24.41	24.43	24.44	24.44	24.45	24.45	24.45	24.43	24.44	24.44	24.45	24.38	
23	24.45	24.46	24.47	24.48	24.50	24.50	24.51	24.51	24.52	24.52	24.51	24.51	24.49	24.48	24.47	24.46	24.46	24.45	24.45	24.45	24.44	24.44	24.45	24.45	24.48	24.48	24.48	24.48	24.44	
24	24.45	24.46	24.46	24.47	24.47	24.48	24.48	24.49	24.50	24.50	24.50	24.49	24.48	24.46	24.46	24.46	24.46	24.47	24.48	24.49	24.48	24.46	24.47	24.48	24.48	24.48	24.48	24.48	24.45	
25	24.48	24.48	24.47	24.47	24.47	24.47	24.47	24.47	24.49	24.50	24.49	24.48	24.47	24.45	24.45	24.44	24.43	24.43	24.43	24.42	24.42	24.41	24.39	24.45	24.45	24.45	24.45	24.45	24.39	
26	24.38	24.38	24.36	24.35	24.35	24.35	24.34	24.34	24.34	24.33	24.32	24.31	24.30	24.28	24.26	24.26	24.26	24.26	24.27	24.28	24.28	24.30	24.30	24.30	24.31	24.31	24.31	24.31	24.26	
27	24.30	24.31	24.32	24.33	24.34	24.35	24.36	24.38	24.40	24.41	24.43	24.44	24.45	24.44	24.44	24.45	24.44	24.44	24.44	24.43	24.43	24.42	24.42	24.41	24.40	24.40	24.40	24.40	24.30	
28	24.41	24.40	24.41	24.40	24.40	24.40	24.39	24.39	24.38	24.38	24.37	24.36	24.34	24.32	24.30	24.30	24.29	24.28	24.27	24.26	24.26	24.26	24.27	24.26	24.34	24.34	24.34	24.34	24.26	
29	24.26	24.26	24.25	24.25	24.24	24.25	24.24	24.24	24.25	24.25	24.26	24.26	24.25	24.23	24.23	24.23	24.23	24.23	24.24	24.25	24.26	24.26	24.27	24.26	24.25	24.25	24.27	24.23	24.23	
30	24.26	24.25	24.24	24.23	24.21	24.21	24.21	24.20	24.19	24.18	24.17	24.15	24.12	24.09	24.07	24.06	24.05	24.04	24.05	24.05	24.06	24.07	24.10	24.13	24.14	24.14	24.14	24.04	24.04	
31	24.14	24.15	24.16	24.16	24.17	24.18	24.18	24.17	24.17	24.17	24.17	24.17	24.15	24.14	24.14	24.13	24.13	24.12	24.13	24.13	24.12	24.12	24.12	24.13	24.15	24.15	24.15	24.15	24.12	
Avg	24.43	24.43	24.43	24.43	24.43	24.44	24.44	24.45	24.45	24.46	24.45	24.45	24.44	24.42	24.42	24.41	24.41	24.41	24.42	24.42	24.42	24.43	24.43	24.43	24.43	24.43	24.43	24.43	24.36	
Max	24.66	24.65	24.65	24.66	24.68	24.70	24.72	24.72	24.74	24.75	24.75	24.74	24.73	24.72	24.72	24.71	24.71	24.70	24.70	24.70	24.70	24.69	24.68	24.68	24.70	24.70	24.75	24.62	24.62	
Min	24.12	24.10	24.11	24.16	24.17	24.18	24.18	24.17	24.17	24.17	24.17	24.15	24.12	24.09	24.07	24.06	24.05	24.04	24.05	24.05	24.06	24.07	24.10	24.13	24.14	24.14	24.18	24.04	24.04	

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Barometric Pressure (InHg)**  
**November 2015**

Day	<< Hour >>																								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	24				
1	24.15	24.16	24.17	24.18	24.18	24.19	24.20	24.21	24.22	24.22	24.21	24.20	24.18	24.16	24.15	24.15	24.17	24.18	24.20	24.22	24.22	24.22	24.22	24.23	24.24	24.19	24.24	24.15
2	24.24	24.24	24.23	24.24	24.24	24.24	24.24	24.24	24.24	24.25	24.25	24.24	24.21	24.20	24.19	24.18	24.18	24.17	24.17	24.17	24.17	24.16	24.16	24.15	24.21	24.25	24.15	
3	24.16	24.15	24.15	24.14	24.14	24.13	24.11	24.11	24.11	24.10	24.10	24.09	24.08	24.07	24.07	24.08	24.08	24.10	24.12	24.13	24.14	24.16	24.18	24.19	24.12	24.19	24.07	
4	24.20	24.21	24.21	24.22	24.23	24.24	24.25	24.26	24.27	24.28	24.28	24.28	24.26	24.25	24.25	24.25	24.25	24.26	24.26	24.26	24.26	24.25	24.25	24.24	24.25	24.28	24.20	
5	24.24	24.24	24.24	24.24	24.25	24.25	24.24	24.25	24.26	24.27	24.27	24.27	24.27	24.27	24.28	24.28	24.30	24.31	24.32	24.33	24.34	24.36	24.38	24.39	24.29	24.39	24.24	
6	24.41	24.42	24.44	24.44	24.46	24.47	24.47	24.48	24.49	24.49	24.49	24.50	24.49	24.49	24.49	24.50	24.50	24.50	24.51	24.52	24.53	24.54	24.55	24.55	24.49	24.55	24.41	
7	24.55	24.55	24.57	24.57	24.56	24.56	24.55	24.55	24.53	24.52	24.52	24.51	24.48	24.45	24.43	24.41	24.39	24.38	24.38	24.37	24.36	24.35	24.35	24.34	24.47	24.57	24.34	
8	24.34	24.34	24.33	24.32	24.31	24.31	24.30	24.29	24.29	24.30	24.29	24.29	24.27	24.26	24.25	24.24	24.24	24.24	24.25	24.24	24.25	24.24	24.25	24.24	24.28	24.34	24.24	
9	24.24	24.24	24.23	24.22	24.22	24.21	24.20	24.20	24.19	24.18	24.18	24.16	24.13	24.13	24.13	24.13	24.13	24.13	24.14	24.15	24.16	24.17	24.18	24.18	24.18	24.24	24.13	
10	24.19	24.20	24.20	24.20	24.21	24.23	24.24	24.25	24.26	24.27	24.28	24.28	24.28	24.27	24.27	24.27	24.27	24.28	24.28	24.28	24.29	24.29	24.29	24.28	24.26	24.29	24.19	
11	24.27	24.26	24.27	24.27	24.28	24.28	24.30	24.31	24.31	24.31	24.32	24.32	24.31	24.31	24.31	24.31	24.30	24.31	24.31	24.32	24.34	24.37	24.39	24.40	24.43	24.32	24.43	24.26
12	24.44	24.45	24.46	24.47	24.48	24.49	24.49	24.51	24.51	24.52	24.52	24.50	24.49	24.47	24.47	24.45	24.43	24.42	24.42	24.42	24.41	24.41	24.41	24.40	24.46	24.52	24.40	
13	24.38	24.37	24.36	24.36	24.35	24.35	24.35	24.36	24.37	24.36	24.36	24.36	24.33	24.31	24.30	24.30	24.30	24.29	24.30	24.30	24.30	24.30	24.30	24.30	24.33	24.38	24.29	
14	24.30	24.30	24.30	24.29	24.28	24.27	24.26	24.26	24.27	24.28	24.28	24.27	24.25	24.25	24.24	24.24	24.23	24.23	24.22	24.23	24.23	24.23	24.21	24.21	24.26	24.30	24.21	
15	24.20	24.19	24.18	24.17	24.16	24.15	24.13	24.12	24.11	24.10	24.08	24.07	24.04	24.02	24.00	23.98	23.97	23.97	23.96	23.94	23.93	23.92	23.92	23.92	24.05	24.20	23.92	
16	23.93	23.94	23.95	23.96	23.98	24.00	24.02	24.05	24.09	24.11	24.14	24.16	24.19	24.21	24.23	24.25	24.27	24.28	24.30	24.31	24.32	24.31	24.30	24.29	24.15	24.32	23.93	
17	24.28	24.26	24.25	24.24	24.22	24.21	24.21	24.22	24.23	24.21	24.21	24.21	24.18	24.15	24.11	24.08	24.05	24.02	23.98	23.94	23.90	23.87	23.82	23.79	24.11	24.28	23.79	
18	23.75	23.72	23.77	23.83	23.88	23.94	24.00	24.06	24.10	24.14	24.16	24.18	24.20	24.21	24.21	24.23	24.26	24.29	24.31	24.32	24.32	24.32	24.32	24.32	24.12	24.32	23.72	
19	24.32	24.31	24.32	24.31	24.31	24.31	24.30	24.30	24.30	24.30	24.30	24.29	24.28	24.28	24.26	24.25	24.24	24.24	24.24	24.24	24.25	24.26	24.27	24.27	24.28	24.32	24.24	
20	24.30	24.32	24.33	24.35	24.36	24.37	24.39	24.41	24.44	24.48	24.52	24.54	24.54	24.56	24.57	24.59	24.60	24.61	24.63	24.64	24.64	24.64	24.63	24.62	24.50	24.64	24.30	
21	24.61	24.60	24.59	24.58	24.57	24.55	24.54	24.53	24.52	24.51	24.51	24.49	24.46	24.44	24.43	24.42	24.40	24.39	24.40	24.41	24.42	24.43	24.43	24.44	24.49	24.61	24.39	
22	24.43	24.43	24.43	24.43	24.43	24.42	24.41	24.41	24.42	24.43	24.44	24.43	24.42	24.41	24.40	24.40	24.39	24.38	24.37	24.36	24.36	24.37	24.37	24.37	24.40	24.44	24.36	
23	24.36	24.35	24.35	24.34	24.34	24.32	24.31	24.31	24.31	24.28	24.28	24.26	24.23	24.20	24.19	24.19	24.18	24.17	24.16	24.15	24.13	24.14	24.14	24.13	24.24	24.36	24.13	
24	24.12	24.12	24.12	24.12	24.12	24.12	24.11	24.11	24.10	24.11	24.14	24.14	24.13	24.13	24.13	24.15	24.18	24.21	24.23	24.24	24.26	24.28	24.29	24.31	24.17	24.31	24.10	
25	24.32	24.33	24.34	24.36	24.36	24.37	24.39	24.41	24.43	24.43	24.44	24.43	24.42	24.41	24.42	24.43	24.45	24.47	24.49	24.49	24.50	24.50	24.50	24.49	24.42	24.50	24.32	
26	24.50	24.50	24.51	24.52	24.53	24.55	24.56	24.57	24.61	24.63	24.63	24.61	24.61	24.60	24.61	24.61	24.64	24.65	24.65	24.65	24.65	24.66	24.66	24.65	24.60	24.66	24.50	
27	24.65	24.64	24.64	24.63	24.62	24.61	24.60	24.60	24.62	24.63	24.61	24.61	24.60	24.59	24.58	24.57	24.56	24.57	24.57	24.57	24.57	24.56	24.56	24.56	24.60	24.65	24.56	
28	24.55	24.54	24.55	24.54	24.53	24.53	24.53	24.53	24.53	24.53	24.52	24.52	24.50	24.48	24.46	24.44	24.45	24.46	24.47	24.47	24.47	24.46	24.47	24.46	24.50	24.55	24.44	
29	24.46	24.44	24.43	24.43	24.42	24.42	24.43	24.43	24.44	24.43	24.42	24.41	24.39	24.37	24.35	24.34	24.34	24.34	24.34	24.34	24.34	24.34	24.33	24.32	24.39	24.46	24.32	
30	24.31	24.32	24.32	24.31	24.30	24.30	24.30	24.30	24.31	24.32	24.32	24.31	24.30	24.29	24.28	24.28	24.28	24.30	24.31	24.32	24.32	24.33	24.33	24.34	24.31	24.34	24.28	
Avg	24.31	24.30	24.31	24.31	24.31	24.31	24.31	24.32	24.33	24.33	24.34	24.33	24.32	24.31	24.30	24.30	24.30	24.31	24.31	24.31	24.31	24.32	24.32	24.31	24.31	24.40	24.22	
Max	24.65	24.64	24.64	24.63	24.62	24.61	24.60	24.60	24.62	24.63	24.63	24.61	24.61	24.60	24.61	24.61	24.64	24.65	24.65	24.65	24.66	24.66	24.65	24.60	24.66	24.56		
Min	23.75	23.72	23.77	23.83	23.88	23.94	24.00	24.05	24.09	24.10	24.08	24.07	24.04	24.02	24.00	23.98	23.97	23.97	23.96	23.94	23.90	23.87	23.82	23.79	24.05	24.19	23.72	

**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Barometric Pressure (InHg)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	24.34	24.34	24.35	24.36	24.36	24.37	24.39	24.40	24.41	24.42	24.43	24.43	24.43	24.43	24.42	24.43	24.43	24.44	24.45	24.46	24.46	24.46	24.45	24.45	24.41	24.46	24.34
2	24.45	24.44	24.44	24.44	24.43	24.42	24.41	24.41	24.42	24.42	24.41	24.41	24.40	24.41	24.42	24.42	24.42	24.44	24.44	24.45	24.47	24.49	24.51	24.51	24.44	24.51	24.40
3	24.52	24.51	24.50	24.49	24.47	24.46	24.46	24.45	24.45	24.42	24.41	24.40	24.37	24.34	24.32	24.31	24.30	24.28	24.27	24.26	24.24	24.21	24.19	24.17	24.37	24.52	24.17
4	24.15	24.14	24.14	24.14	24.14	24.14	24.15	24.14	24.15	24.17	Au	Au	Au	24.19	24.21	24.23	24.26	24.27	24.30	24.31	24.32	24.33	24.36	24.38	24.22	24.38	24.14
5	24.38	24.40	24.44	24.46	24.47	24.49	24.51	24.52	24.54	24.56	24.58	24.58	24.56	24.55	24.54	24.54	24.54	24.55	24.56	24.54	24.53	24.53	24.52	24.51	24.52	24.58	24.38
6	24.50	24.48	24.48	24.45	24.43	24.41	24.40	24.38	24.37	24.36	24.35	24.33	24.30	24.30	24.31	24.31	24.32	24.34	24.35	24.36	24.37	24.38	24.38	24.38	24.38	24.50	24.30
7	24.38	24.37	24.36	24.34	24.32	24.30	24.27	24.25	24.23	24.23	24.22	24.18	24.16	24.14	24.14	24.13	24.12	24.09	24.08	24.08	24.07	24.09	24.09	24.12	24.20	24.38	24.07
8	24.13	24.15	24.17	24.19	24.21	24.24	24.24	24.25	24.27	24.29	24.29	24.28	24.25	24.24	24.22	24.20	24.20	24.18	24.16	24.14	24.13	24.13	24.10	24.10	24.20	24.29	24.10
9	24.09	24.08	24.07	24.05	24.05	24.03	24.01	24.00	23.99	23.97	23.97	23.95	23.94	23.94	23.97	23.98	23.99	24.02	24.03	24.05	24.05	24.05	24.08	24.09	24.02	24.09	23.94
10	24.09	24.09	24.10	24.10	24.09	24.08	24.06	24.01	23.98	23.96	23.94	23.91	23.85	23.83	23.82	23.81	23.81	23.83	23.84	23.86	23.87	23.87	23.88	23.89	23.94	24.10	23.81
11	23.90	23.92	23.92	23.93	23.94	23.95	23.96	23.97	23.99	24.00	24.02	24.02	24.02	24.01	24.01	24.02	24.03	24.05	24.08	24.09	24.09	24.09	24.10	24.11	24.01	24.11	23.90
12	24.11	24.12	24.14	24.15	24.15	24.15	24.17	24.18	24.19	24.19	24.19	24.18	24.16	24.15	24.15	24.15	24.13	24.12	24.10	24.09	24.07	24.04	24.02	24.14	24.19	24.02	
13	24.00	24.00	24.00	23.98	23.97	23.97	23.98	23.99	23.99	23.98	23.97	23.95	23.94	23.92	23.91	23.90	23.90	23.89	23.88	23.88	23.89	23.89	23.88	23.88	23.94	24.00	23.88
14	23.88	23.88	23.88	23.89	23.90	23.90	23.92	23.95	23.98	24.01	24.03	24.05	24.06	24.08	24.09	24.12	24.14	24.16	24.17	24.18	24.19	24.20	24.21	24.23	24.05	24.23	23.88
15	24.23	24.24	24.24	24.25	24.26	24.26	24.27	24.27	24.27	24.28	24.27	24.26	24.24	24.22	24.21	24.21	24.21	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.24	24.28	24.21
16	24.21	24.20	24.20	24.20	24.19	24.19	24.18	24.18	24.18	24.17	24.16	24.14	24.13	24.12	24.14	24.17	24.19	24.21	24.24	24.25	24.28	24.29	24.30	24.30	24.20	24.30	24.12
17	24.31	24.31	24.32	24.32	24.31	24.31	24.31	24.31	24.30	24.31	24.30	24.28	24.28	24.26	24.25	24.23	24.25	24.24	24.24	24.23	24.22	24.22	24.22	24.21	24.27	24.32	24.21
18	24.20	24.19	24.17	24.17	24.15	24.15	24.15	24.15	24.16	24.15	24.17	24.18	24.19	24.19	24.19	24.19	24.18	24.18	24.18	24.17	24.16	24.16	24.15	24.15	24.17	24.20	24.15
19	24.15	24.14	24.13	24.11	24.10	24.09	24.09	24.09	24.11	24.12	24.13	24.12	24.10	24.09	24.08	24.08	24.09	24.10	24.11	24.11	24.11	24.12	24.13	24.14	24.11	24.15	24.08
20	24.15	24.15	24.16	24.16	24.15	24.15	24.15	24.15	24.15	24.14	24.13	24.12	24.10	24.08	24.06	24.05	24.05	24.06	24.06	24.05	24.05	24.06	24.06	24.06	24.10	24.16	24.05
21	24.06	24.06	24.07	24.07	24.06	24.07	24.07	24.06	24.04	24.04	24.02	23.98	23.93	23.88	23.83	23.80	23.75	23.72	23.69	23.67	23.66	23.64	23.62	23.62	23.89	24.07	23.62
22	23.61	23.61	23.62	23.63	23.63	23.63	23.64	23.65	23.66	23.67	23.68	23.68	23.67	23.67	23.67	23.68	23.70	23.72	23.73	23.75	23.76	23.77	23.77	23.77	23.68	23.77	23.61
23	23.77	23.77	23.79	23.79	23.79	23.78	23.79	23.78	23.79	23.80	23.82	23.81	23.79	23.79	23.80	23.82	23.84	23.85	23.85	23.86	23.86	23.86	23.86	23.87	23.81	23.87	23.77
24	23.87	23.87	23.89	23.89	23.89	23.90	23.91	23.92	23.93	23.95	23.96	23.96	23.94	23.93	23.94	23.96	23.98	24.01	24.02	24.03	24.04	24.05	24.06	24.07	23.96	24.07	23.87
25	24.07	24.08	24.09	24.10	24.12	24.13	24.16	24.18	24.20	24.22	24.24	24.23	24.24	24.25	24.27	24.31	24.34	24.37	24.39	24.41	24.43	24.44	24.45	24.46	24.26	24.46	24.07
26	24.46	24.47	24.49	24.51	24.53	24.54	24.55	24.57	24.58	24.63	24.65	24.64	24.62	24.61	24.61	24.62	24.64	24.65	24.65	24.64	24.63	24.62	24.61	24.59	24.59	24.65	24.46
27	24.57	24.55	24.54	24.54	24.53	24.51	24.50	24.50	24.48	24.47	24.46	24.44	24.40	24.38	24.37	24.35	24.35	24.33	24.31	24.30	24.29	24.28	24.27	24.25	24.42	24.57	24.25
28	24.23	24.21	24.21	24.20	24.19	24.18	24.17	24.16	24.16	24.16	24.15	24.15	24.14	24.13	24.12	24.13	24.15	24.15	24.16	24.17	24.18	24.19	24.19	24.21	24.17	24.23	24.12
29	24.20	24.20	24.21	24.22	24.22	24.22	24.23	24.24	24.24	24.24	24.24	24.23	24.22	24.22	24.22	24.23	24.24	24.26	24.27	24.27	24.28	24.28	24.29	24.30	24.24	24.30	24.20
30	24.30	24.30	24.31	24.33	24.33	24.34	24.36	24.37	24.38	24.40	24.42	24.40	24.39	24.40	24.41	24.41	24.43	24.44	24.46	24.47	24.48	24.50	24.49	24.50	24.40	24.50	24.30
31	24.52	24.52	24.55	24.56	24.56	24.58	24.60	24.62	24.63	24.65	24.66	24.65	24.65	24.64	24.64	24.63	24.65	24.66	24.66	24.67	24.66	24.66	24.66	24.66	24.62	24.67	24.52
Avg	24.19	24.19	24.19	24.19	24.19	24.19	24.20	24.20	24.20	24.21	24.21	24.20	24.18	24.17	24.17	24.17	24.18	24.19	24.19	24.19	24.20	24.20	24.20	24.20	24.19	24.29	24.09
Max	24.57	24.55	24.55	24.56	24.56	24.58	24.60	24.62	24.63	24.65	24.66	24.65	24.65	24.64	24.64	24.63	24.65	24.66	24.66	24.67	24.66	24.66	24.66	24.66	24.62	24.67	24.52
Min	23.61	23.61	23.62	23.63	23.63	23.63	23.64	23.65	23.66	23.67	23.68	23.68	23.67	23.67	23.67	23.68	23.70	23.72	23.69	23.67	23.66	23.64	23.62	23.62	23.68	23.77	23.61



**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Relative Humidity (% RH)**  
**October 2015**

Day	<< Hour >>																								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	24			
1	59.8	55.6	53.7	60.2	59.4	62.0	60.3	60.1	59.4	45.5	31.7	33.1	35.9	36.9	35.6	34.0	33.9	43.3	53.3	57.6	61.6	67.0	75.3	85.7	52.5	85.7	31.7
2	86.1	85.7	78.6	86.8	90.7	90.9	90.5	91.0	81.1	72.8	57.1	59.0	60.6	61.0	61.2	59.7	58.8	61.4	65.9	70.1	74.1	76.9	79.0	79.9	74.1	91.0	57.1
3	79.0	79.5	81.3	75.9	81.7	80.3	79.4	80.3	83.6	82.3	79.2	76.5	78.5	74.8	77.8	82.2	83.5	84.7	86.6	87.1	87.2	86.9	85.0	90.4	81.8	90.4	74.8
4	89.3	86.5	86.4	86.2	87.6	89.3	88.9	85.1	81.6	78.5	72.4	69.0	65.1	62.8	61.1	58.4	56.5	65.5	76.9	80.2	83.4	86.8	89.9	90.9	78.3	90.9	56.5
5	92.6	93.0	92.3	91.7	91.0	91.4	90.1	89.9	86.2	68.4	55.2	50.3	45.7	38.1	36.2	38.0	38.1	42.9	65.0	73.7	79.0	84.2	86.8	87.7	71.1	93.0	36.2
6	90.4	91.3	92.5	92.4	92.9	92.4	92.2	87.8	75.7	56.9	40.4	35.5	30.3	27.5	25.9	25.0	30.3	37.2	53.0	62.0	70.3	77.5	82.5	86.7	64.5	92.9	25.0
7	87.6	88.6	88.5	86.9	86.1	85.9	84.9	76.2	61.8	37.9	35.2	33.2	32.4	35.4	49.5	55.6	67.8	86.5	91.0	91.6	94.2	94.8	95.4	95.9	72.6	95.9	32.4
8	96.0	96.3	96.4	96.3	96.3	96.8	96.7	97.4	96.5	87.4	77.0	71.1	66.2	65.7	61.2	55.0	57.5	65.5	77.7	86.1	89.3	91.0	93.7	95.0	83.7	97.4	55.0
9	95.7	95.2	94.8	95.4	96.3	96.8	94.9	91.7	85.5	61.4	42.5	31.5	24.5	24.2	22.4	23.8	24.7	32.2	41.5	56.0	61.2	71.0	74.5	74.0	63.0	96.8	22.4
10	79.0	81.3	83.0	84.5	85.2	87.0	88.8	85.0	80.9	75.4	36.2	24.6	21.3	19.8	19.5	19.0	19.1	22.6	29.6	37.5	48.1	53.5	62.6	61.6	54.4	88.8	19.0
11	70.1	58.8	34.8	53.9	59.8	60.5	62.4	62.2	57.6	51.4	43.1	34.7	30.5	28.2	27.9	29.1	31.3	35.6	38.8	44.8	49.6	58.8	71.8	76.5	48.8	76.5	27.9
12	79.2	77.4	79.1	79.3	81.2	80.6	79.6	76.2	55.7	32.0	22.9	21.9	21.9	22.3	21.1	18.9	20.4	22.6	31.1	36.2	34.9	29.6	31.2	32.7	45.3	81.2	18.9
13	35.2	35.9	37.0	38.8	57.6	61.0	63.8	63.1	50.8	35.4	33.9	31.4	31.1	31.0	30.4	30.2	31.1	36.8	44.8	49.8	52.3	52.7	51.5	54.0	43.3	63.8	30.2
14	56.3	60.6	65.0	72.1	80.1	83.7	89.6	86.3	69.8	52.0	48.5	44.5	38.6	36.6	32.9	25.1	24.4	30.6	40.6	54.1	60.7	66.6	71.3	75.3	56.9	89.6	24.4
15	81.4	84.2	83.1	84.9	85.6	85.5	85.5	83.8	67.0	46.6	41.4	39.2	37.3	34.8	34.3	34.7	37.7	42.3	46.1	50.3	51.4	53.1	57.0	64.7	58.8	85.6	34.3
16	73.2	78.4	81.5	84.2	85.7	87.0	86.6	84.0	70.1	47.8	30.7	26.3	25.3	22.3	21.9	25.0	28.9	36.4	37.9	47.4	56.9	61.7	69.5	73.4	55.9	87.0	21.9
17	78.7	81.0	83.7	85.6	86.2	88.7	89.1	86.2	64.8	50.6	30.7	23.1	21.2	18.5	18.8	18.5	19.4	28.8	43.8	52.9	60.9	65.2	66.5	73.3	55.7	89.1	18.5
18	76.8	79.3	78.4	76.6	76.6	73.6	75.8	74.6	67.5	61.3	55.1	49.0	48.7	42.7	46.9	50.3	46.8	50.7	67.4	77.1	77.4	87.0	88.7	88.8	67.4	88.8	42.7
19	91.4	92.7	90.7	93.0	91.7	92.4	92.1	91.1	89.2	80.9	60.3	52.8	53.0	52.5	50.1	50.2	55.0	67.3	84.2	91.8	92.6	84.5	83.3	83.7	77.8	93.0	50.1
20	78.6	74.7	78.0	77.4	75.2	79.3	82.7	81.4	84.9	87.9	83.8	83.1	79.3	77.4	66.5	65.5	70.7	84.0	87.7	87.0	89.5	92.4	93.4	93.1	81.4	93.4	65.5
21	92.6	91.5	91.4	91.1	90.3	89.6	89.5	90.3	92.3	90.4	68.1	52.6	46.0	39.1	36.2	33.3	35.7	52.7	68.5	75.7	82.7	84.3	87.5	92.1	73.5	92.6	33.3
22	91.0	91.5	92.0	91.5	91.8	91.7	92.5	91.7	85.3	70.8	47.5	38.9	35.9	32.5	31.5	29.4	33.0	39.7	55.5	59.9	65.2	71.6	70.7	73.1	65.6	92.5	29.4
23	81.4	84.3	86.2	90.3	89.3	90.9	89.2	89.4	80.9	70.9	57.5	51.5	42.5	36.7	31.7	30.8	30.9	44.3	52.1	58.2	65.9	74.9	79.9	82.1	66.3	90.9	30.8
24	85.3	86.2	86.3	86.8	87.9	87.2	86.3	84.6	75.0	61.2	30.0	22.3	20.6	21.4	20.9	21.9	25.6	29.8	29.2	35.0	42.7	47.2	51.8	54.9	53.3	87.9	20.6
25	61.1	72.2	77.4	82.7	85.5	86.3	86.8	90.3	80.6	69.7	54.9	46.1	43.1	45.2	49.5	49.5	49.7	52.3	53.9	61.5	66.7	67.2	67.3	65.7	65.2	90.3	43.1
26	65.9	64.7	65.1	65.3	73.8	72.9	71.0	74.0	71.6	64.3	58.3	62.2	59.6	54.8	50.7	46.2	53.8	64.8	74.3	80.1	83.7	82.2	82.6	85.1	67.8	85.1	46.2
27	85.5	90.6	90.2	91.5	88.2	87.8	85.5	89.1	86.5	83.7	85.0	79.5	77.7	75.5	71.1	74.8	74.5	76.8	81.0	83.4	84.6	85.7	89.2	92.7	83.8	92.7	71.1
28	92.1	90.5	89.1	87.9	87.8	86.8	86.8	87.0	90.7	90.1	67.3	53.1	46.2	39.7	36.1	35.4	40.3	54.7	67.4	71.5	79.0	82.5	85.7	87.1	72.3	92.1	35.4
29	88.1	88.8	88.4	87.9	88.2	87.7	87.9	87.2	86.5	83.8	71.7	66.2	69.7	71.0	69.1	74.8	81.2	74.7	74.5	74.2	75.0	74.2	75.9	78.7	79.4	88.8	66.2
30	78.8	79.7	82.2	86.0	87.5	89.1	88.8	88.7	79.4	58.4	54.6	53.8	56.6	51.5	49.9	50.7	55.1	57.8	57.5	58.8	64.5	67.3	70.9	82.0	68.7	89.1	49.9
31	85.3	86.1	87.6	84.7	81.1	79.9	79.7	82.7	86.3	82.9	84.0	82.3	74.4	69.0	70.9	79.6	83.8	79.7	73.4	62.3	53.6	50.0	48.0	59.9	75.3	87.6	48.0
Avg	80.1	80.7	80.5	82.2	83.8	84.4	84.4	83.5	76.9	65.8	53.4	48.3	45.8	43.5	42.5	42.7	45.1	51.7	59.7	65.0	69.0	71.9	74.8	78.0	66.4	89.0	39.3
Max	96.0	96.3	96.4	96.3	96.3	96.8	96.7	97.4	96.5	90.4	85.0	83.1	79.3	77.4	77.8	82.2	83.8	86.5	91.0	91.8	94.2	94.8	95.4	95.9	83.8	97.4	74.8
Min	35.2	35.9	34.8	38.8	57.6	60.5	60.3	60.1	50.8	32.0	22.9	21.9	20.6	18.5	18.8	18.5	19.1	22.6	29.2	35.0	34.9	29.6	31.2	32.7	43.3	63.8	18.5

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Relative Humidity (% RH)**  
**November 2015**

Day	<< Hour >>																								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	24			
1	82.0	87.3	88.4	88.4	82.5	81.3	82.6	79.3	77.3	68.4	57.1	50.2	46.6	43.0	32.5	32.1	50.3	61.2	67.2	74.8	71.2	66.9	75.3	74.2	67.5	88.4	32.1
2	72.7	66.0	69.8	76.1	79.8	83.0	86.6	85.9	85.5	80.3	69.9	53.4	48.1	45.4	43.5	45.6	52.4	58.2	69.1	78.6	80.9	83.2	85.2	90.3	70.4	90.3	43.5
3	93.0	94.0	94.9	95.2	95.7	95.6	95.6	95.5	95.0	91.6	92.1	91.2	88.4	90.7	91.1	92.2	93.9	91.8	92.3	93.2	93.3	93.5	94.1	94.2	93.3	95.7	88.4
4	94.1	91.9	90.4	90.5	90.3	91.5	90.7	90.3	89.5	89.8	88.7	85.8	86.6	86.6	84.4	82.5	84.1	86.4	85.1	83.1	84.5	82.3	80.4	80.2	87.1	94.1	80.2
5	81.0	80.0	79.9	82.3	82.4	82.1	78.5	77.1	76.3	76.2	76.4	76.9	76.4	77.2	75.2	78.3	84.7	87.3	87.3	89.9	91.2	91.0	90.4	89.1	82.0	91.2	75.2
6	87.5	87.9	87.4	85.8	84.9	85.4	85.7	87.0	88.2	89.5	84.3	70.4	67.5	64.5	62.7	64.0	65.5	69.7	70.5	76.2	80.7	82.7	82.7	85.1	79.0	89.5	62.7
7	86.8	87.6	87.9	86.9	86.4	86.7	87.0	86.1	81.3	75.1	65.6	56.1	54.2	52.7	52.0	53.2	59.5	64.4	70.8	70.4	70.4	65.8	69.6	70.3	72.0	87.9	52.0
8	75.0	81.8	82.2	82.7	84.0	83.3	84.7	82.0	69.5	46.9	37.9	34.4	33.6	32.7	34.2	35.9	41.6	52.5	56.4	68.8	61.8	70.6	74.3	78.1	61.9	84.7	32.7
9	80.7	83.5	81.7	84.9	84.2	85.3	84.6	82.2	81.5	73.7	60.5	48.2	41.2	47.1	50.5	62.9	80.7	82.7	88.4	93.5	95.5	95.4	93.1	92.1	77.3	95.5	41.2
10	90.5	87.5	86.0	84.9	88.8	89.3	89.0	90.1	91.1	90.5	89.0	85.1	80.8	81.4	84.8	84.2	84.7	85.0	82.0	81.3	86.2	89.6	88.2	88.1	86.6	91.1	80.8
11	88.6	79.8	79.0	78.4	77.9	82.8	85.0	84.4	80.3	67.8	59.4	58.4	55.1	59.0	61.9	63.8	71.0	75.0	74.5	65.0	63.4	60.1	63.0	73.4	71.1	88.6	55.1
12	81.0	84.9	81.6	82.4	82.1	83.0	83.5	84.0	77.7	74.5	58.8	57.8	57.0	55.8	51.8	53.0	60.2	66.0	71.6	78.0	78.5	79.7	83.9	83.7	72.9	84.9	51.8
13	81.6	80.8	79.6	81.3	76.7	77.3	74.0	68.7	63.1	58.9	55.9	56.9	58.9	59.0	58.7	60.1	60.0	63.5	65.4	64.1	62.2	61.8	61.6	62.2	66.3	81.6	55.9
14	66.0	67.9	67.8	70.1	76.6	78.9	80.5	84.2	76.6	63.2	40.1	37.2	37.1	36.1	36.5	40.5	41.8	50.0	54.9	47.9	36.2	39.2	49.9	49.5	55.4	84.2	36.1
15	63.7	67.8	74.1	79.8	82.0	82.3	82.0	79.2	72.4	72.6	67.8	38.4	29.3	28.2	29.6	35.3	43.8	56.1	57.2	67.9	74.4	73.4	72.5	75.8	62.7	82.3	28.2
16	79.8	81.6	80.9	82.5	83.2	79.9	88.3	90.9	90.0	86.4	84.6	79.4	69.5	64.9	61.6	61.6	59.1	64.3	66.0	71.5	80.1	83.9	84.3	82.3	77.4	90.9	59.1
17	83.0	82.2	81.9	83.2	84.7	85.2	79.9	82.5	78.8	69.4	60.0	54.1	58.7	59.6	61.4	61.8	65.0	63.2	64.2	62.7	63.2	59.1	58.3	58.6	69.2	85.2	54.1
18	59.0	67.3	84.2	61.7	42.8	63.0	87.8	84.1	79.2	78.2	80.1	80.0	75.4	68.8	69.4	70.7	75.1	73.8	77.4	85.3	87.2	86.4	84.0	83.7	75.2	87.8	42.8
19	73.5	73.7	68.4	63.9	65.9	68.9	69.2	68.9	67.3	66.3	63.2	63.3	61.9	58.7	56.2	58.6	64.8	71.6	76.2	80.4	86.7	88.1	88.8	88.2	70.5	88.8	56.2
20	88.0	87.8	86.2	84.5	84.2	84.8	85.1	85.8	75.8	66.0	62.4	59.9	71.1	66.7	58.4	59.4	67.5	76.1	81.1	81.6	83.0	81.2	80.0	79.0	76.5	88.0	58.4
21	78.4	78.3	78.1	78.1	78.0	78.4	79.4	80.7	61.4	45.0	40.4	37.0	35.7	33.1	32.2	33.2	33.3	34.0	37.9	39.9	54.2	61.3	66.5	70.5	56.0	80.7	32.2
22	73.3	74.6	76.6	78.5	78.5	77.8	77.6	75.7	69.2	60.7	47.1	33.8	35.1	35.2	38.1	43.6	49.1	60.8	66.8	74.3	80.9	83.0	84.9	86.3	65.1	86.3	33.8
23	86.7	86.3	86.0	85.6	85.3	85.2	83.3	83.3	83.0	78.5	65.0	42.0	31.8	32.0	30.3	33.7	40.6	47.1	55.8	58.6	67.4	70.1	74.2	75.3	65.3	86.7	30.3
24	77.1	75.8	75.1	75.6	76.2	76.4	78.1	78.0	76.3	71.1	86.8	89.7	87.4	84.5	81.5	78.0	74.5	74.4	71.2	73.3	76.3	73.5	69.2	69.6	77.1	89.7	69.2
25	70.2	70.6	69.7	70.3	69.3	74.8	74.7	75.6	75.6	72.6	71.7	64.8	62.2	69.8	73.5	72.1	77.6	83.1	79.1	77.6	77.4	76.7	75.3	74.4	73.3	83.1	62.2
26	73.7	73.3	72.4	72.0	72.3	72.6	72.0	72.3	72.9	76.2	77.6	68.4	60.8	61.9	64.3	64.8	74.3	82.1	82.6	80.2	78.1	77.3	75.9	75.6	73.1	82.6	60.8
27	75.5	74.4	74.0	74.0	73.3	73.6	73.0	72.5	74.4	74.9	76.6	67.1	47.2	35.8	39.9	52.9	65.9	78.3	84.3	84.1	82.5	80.7	80.2	79.8	70.6	84.3	35.8
28	78.8	78.7	78.7	79.0	78.9	78.7	79.0	78.1	79.1	78.9	64.6	45.1	35.9	37.3	37.4	42.4	48.0	64.8	76.8	81.4	83.6	82.9	81.7	80.4	68.8	83.6	35.9
29	79.9	79.8	79.6	78.6	79.0	78.0	77.9	77.5	78.1	78.7	72.2	55.5	38.8	43.9	41.2	46.5	52.6	66.7	77.6	81.7	84.6	83.7	82.2	81.0	70.6	84.6	38.8
30	81.8	80.8	80.1	79.3	78.8	79.3	78.6	78.8	79.8	81.0	82.0	79.6	61.1	39.6	39.3	42.9	50.4	68.4	72.0	75.9	78.8	79.3	80.7	79.7	72.0	82.0	39.3
Avg	79.4	79.8	80.1	79.9	79.5	80.8	81.8	81.4	78.2	73.4	67.9	60.7	56.4	55.0	54.5	56.9	62.4	68.6	72.1	74.7	76.5	76.7	77.7	78.4	72.2	87.1	50.8
Max	94.1	94.0	94.9	95.2	95.7	95.6	95.6	95.5	95.0	91.6	92.1	91.2	88.4	90.7	91.1	92.2	93.9	91.8	92.3	93.5	93.5	94.1	94.2	94.2	93.3	95.7	88.4
Min	59.0	66.0	67.8	61.7	42.8	63.0	69.2	68.7	61.4	45.0	37.9	33.8	29.3	28.2	29.6	32.1	33.3	34.0	37.9	39.9	36.2	39.2	49.9	49.5	55.4	80.7	28.2

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**Tintina Resources, Inc.**  
**Black Butte Copper Project Met Tower Air Monitoring Summary**  
**Relative Humidity (% RH)**  
**December 2015**

Day	<< Hour >>																								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	24			
1	80.3	79.2	80.7	78.8	79.4	80.1	79.6	79.9	75.6	65.1	52.9	39.5	39.5	42.2	45.7	50.0	55.4	64.1	71.0	77.7	81.1	84.1	85.6	84.8	68.8	85.6	39.5
2	83.2	82.7	81.8	81.3	80.7	79.5	79.4	79.4	80.8	83.2	76.0	67.4	45.6	54.5	88.3	88.9	88.8	89.1	87.1	89.4	87.8	86.4	85.1	83.3	80.4	89.4	45.6
3	83.1	82.1	81.5	82.7	84.2	83.7	83.5	84.4	85.5	90.1	78.8	53.2	45.4	40.2	39.1	44.6	44.7	61.6	63.7	63.6	60.6	59.8	51.3	55.5	66.8	90.1	39.1
4	67.7	67.5	71.8	56.4	60.7	51.8	57.4	62.0	51.2	49.6	Au	Au	Au	50.2	57.0	55.6	64.5	66.2	66.6	72.0	76.6	75.7	82.2	88.1	64.3	88.1	49.6
5	91.8	83.3	72.1	73.0	77.2	79.9	85.4	84.6	84.0	73.5	67.7	54.7	55.6	46.6	48.1	52.0	59.0	66.2	68.8	59.7	60.5	55.1	59.0	43.4	66.7	91.8	43.4
6	45.2	43.1	40.6	39.1	40.2	39.9	37.9	36.8	40.7	36.2	35.3	36.7	37.1	39.8	41.4	44.3	49.5	50.4	54.6	58.2	59.8	60.4	60.4	60.1	45.3	60.4	35.3
7	62.9	62.2	60.8	58.4	62.1	58.5	62.8	63.0	62.5	59.5	53.3	52.9	51.4	52.8	55.9	73.2	78.0	76.6	75.1	81.4	83.7	87.2	89.3	85.2	67.0	89.3	51.4
8	76.1	75.7	73.3	73.5	74.4	85.2	79.6	73.3	69.9	68.7	69.3	71.7	67.4	61.2	60.8	59.7	60.4	61.4	60.7	61.8	59.8	58.3	58.3	58.0	67.4	85.2	58.0
9	59.3	58.7	56.8	55.0	53.7	50.6	50.4	48.4	48.5	44.7	43.0	46.7	54.4	72.5	68.7	58.5	52.9	56.1	57.6	58.2	58.5	58.3	56.0	60.5	55.3	72.5	43.0
10	61.7	58.1	59.7	62.9	67.6	73.1	79.5	77.9	74.6	65.5	57.7	82.0	91.6	92.7	92.4	90.9	90.5	92.3	92.6	92.8	89.6	81.7	84.1	85.8	79.1	92.8	57.7
11	86.7	86.5	85.6	83.9	85.9	86.2	87.8	88.3	88.6	81.5	75.5	69.2	62.6	60.9	62.2	65.6	74.8	83.0	88.3	86.6	87.8	86.5	87.0	87.0	80.7	88.6	60.9
12	86.4	87.3	86.5	86.1	86.4	86.4	86.1	85.9	83.6	81.2	71.7	68.1	65.2	59.3	55.1	58.9	65.1	73.1	72.4	74.2	73.5	69.0	67.3	63.1	74.7	87.3	55.1
13	65.9	78.9	86.2	84.6	81.7	79.1	76.1	73.3	74.0	80.6	72.6	69.4	69.1	66.1	63.0	65.5	65.3	67.4	71.3	73.5	81.2	92.5	93.8	94.5	76.1	94.5	63.0
14	94.9	94.8	94.7	94.4	94.0	89.5	81.5	77.4	76.0	75.6	72.2	71.1	69.2	66.8	66.7	66.3	65.0	67.4	70.6	70.7	68.9	68.4	69.8	71.8	76.6	94.9	65.0
15	72.8	76.6	81.8	84.5	86.3	83.6	81.6	80.7	79.3	77.4	74.2	70.9	67.0	71.4	73.4	74.5	77.9	82.2	84.5	87.4	86.3	85.8	84.8	84.1	79.5	87.4	67.0
16	85.1	85.3	85.7	88.0	87.9	88.0	88.2	87.9	86.7	85.2	80.0	75.2	76.0	81.0	70.0	70.4	68.7	68.1	71.1	77.5	80.3	79.4	82.0	81.4	80.4	88.2	68.1
17	79.7	79.6	80.0	80.2	79.8	79.7	79.9	80.0	79.5	77.8	70.3	65.5	58.7	58.4	55.1	58.5	77.8	81.9	81.8	80.9	79.5	80.2	81.1	81.5	75.3	81.9	55.1
18	82.9	84.3	84.5	84.0	85.8	86.5	86.2	86.1	87.2	85.0	83.1	80.7	75.2	77.2	78.3	82.2	82.9	81.7	86.2	88.6	88.5	83.2	83.6	82.4	83.6	88.6	75.2
19	79.4	76.6	78.0	76.6	73.6	72.9	82.6	82.6	88.2	90.9	87.5	86.0	86.3	86.6	88.0	89.7	91.1	91.6	92.6	92.0	92.2	91.9	92.2	91.6	85.9	92.6	72.9
20	89.7	89.1	87.3	85.0	82.4	81.1	83.6	83.3	83.1	84.8	81.8	79.8	72.2	67.4	64.1	68.2	80.4	85.2	85.2	85.0	84.6	83.6	85.3	86.4	81.6	89.7	64.1
21	83.3	81.7	83.5	84.5	81.6	83.5	82.9	85.9	86.0	80.0	76.5	74.3	61.0	62.2	67.5	78.1	88.7	88.5	87.3	87.3	89.5	88.6	88.9	88.8	81.7	89.5	61.0
22	89.5	89.5	89.4	89.4	89.6	88.7	81.5	78.8	75.5	73.8	75.3	72.4	73.2	73.8	69.7	68.7	72.5	74.8	72.2	74.9	77.6	77.8	76.7	81.7	78.6	89.6	68.7
23	79.4	80.0	79.9	81.3	84.8	84.5	82.0	80.1	78.5	77.5	80.4	81.5	78.0	65.1	65.9	74.6	84.8	86.2	86.5	86.0	85.9	85.3	85.2	85.2	80.8	86.5	65.1
24	85.2	84.6	84.7	85.0	85.0	84.7	84.9	84.4	84.5	83.0	79.8	78.9	67.3	63.0	60.3	54.7	64.7	73.9	77.1	78.9	79.6	84.1	83.9	84.0	78.2	85.2	54.7
25	82.5	82.0	81.8	82.6	82.5	82.0	82.0	81.4	81.6	80.0	73.6	69.8	74.3	79.4	75.3	76.2	81.2	83.2	81.6	78.5	77.8	76.0	75.9	74.7	79.0	83.2	69.8
26	74.9	74.5	73.9	74.6	73.8	73.7	73.2	73.0	72.2	73.3	75.0	76.5	77.6	64.0	61.9	59.5	65.9	77.6	82.0	80.7	79.4	77.2	76.9	75.5	73.6	82.0	59.5
27	76.2	76.5	77.3	76.8	78.6	79.2	78.7	79.1	79.3	79.5	81.6	82.6	83.1	82.7	76.2	67.1	66.1	71.3	78.3	81.5	84.8	85.1	83.3	83.4	78.7	85.1	66.1
28	84.0	84.4	84.2	83.9	84.6	85.1	85.8	84.7	84.6	83.8	82.0	78.8	64.2	74.0	79.3	78.9	80.5	79.0	78.2	79.3	82.2	81.5	81.4	81.4	81.1	85.8	64.2
29	80.7	80.7	80.9	81.1	80.7	82.2	82.8	82.9	82.8	80.4	75.1	69.9	74.1	78.3	80.1	80.1	82.2	82.7	83.6	83.8	84.2	84.3	84.3	84.3	80.9	84.3	69.9
30	84.1	83.0	82.1	81.8	81.3	80.8	80.5	80.8	81.1	78.7	74.2	73.5	69.9	74.8	74.5	75.2	79.5	82.4	83.9	85.0	85.8	85.4	83.9	83.2	80.2	85.8	69.9
31	82.0	83.0	82.5	83.5	84.2	84.7	84.8	86.5	85.3	82.2	80.3	70.1	65.6	63.7	62.2	63.1	71.1	76.5	78.6	84.7	84.2	83.2	81.0	80.3	78.5	86.5	62.2
Avg	78.6	78.4	78.4	77.8	78.4	78.2	78.3	77.8	77.1	75.1	71.9	69.0	65.9	65.4	66.0	67.5	71.9	75.5	77.1	78.4	79.1	78.6	78.7	78.4	75.1	86.5	58.7
Max	94.9	94.8	94.7	94.4	94.0	89.5	88.2	88.3	88.6	90.9	87.5	86.0	91.6	92.7	92.4	90.9	91.1	92.3	92.6	92.8	92.2	92.5	93.8	94.5	85.9	94.9	75.2
Min	45.2	43.1	40.6	39.1	40.2	39.9	37.9	36.8	40.7	36.2	35.3	36.7	37.1	39.8	39.1	44.3	44.7	50.4	54.6	58.2	58.5	55.1	51.3	43.4	45.3	60.4	35.3







**APPENDIX B: PERFORMANCE AUDIT REPORTS**  
**FOURTH QUARTER 2015**

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**PRELIMINARY METEOROLOGICAL AUDIT REPORT**

Client : Tintina Resources  
 SITE : Black Butte DATE : 12/04/15

Audit Start Time : 10:30 MST Audit End Time : 12:10 MST

**Temperature**

Audit Device : Control Company Digital Thermometer  
 Model Number : 4000 Serial Number : 140251289  
 Last certified : 04/10/15  
 Sensor Make : Climatronics  
 Model Number : 100093 Serial Number Upper: P12535 Serial Number Lower: P12535

Temperature bath results as is

Audit Value	9m DAS Value	9m DAS Diff.	2m DAS Value	2m DAS Diff.	9m - 2m DAS Diff.
-9.95	-9.80	0.15	-9.80	0.15	0.00
19.71	19.50	-0.21	19.70	-0.01	0.20
49.21	49.10	-0.11	49.30	0.09	0.20

**Wind Direction**

Alignment Audit Device :	Nextar	Model Number :	X3-T	Linearity Check from DAS (as found)
Linearity Audit Device :	Climatronics	Model Number :	101966	Serial Number : 72
Sensor height :	10 Meter	Sensor Make :	Climatronics	Model Number : 102083
Crossarm Orientation :	N-S	Magnetic Declination :	12	Measured Degrees :
Sensor response aligned with crossarm (as found) :	0.9	Sensor response aligned with crossarm (as left) :	0.9	

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.6	0.6	0.6	0.6
30	34.2	33.1	4.2	3.1
60	63.4	62.2	3.4	2.2
90	93.3	91.7	3.3	1.7
120	123.0	123.2	3.0	3.2
150	152.4	152.1	2.4	2.1
180	182.4	182.1	2.4	2.1
210	211.3	211.4	1.3	1.4
240	241.7	241.4	1.7	1.4
270	271.1	271.1	1.1	1.1
300	301.4	299.5	1.4	-0.5
330	331.2	331.1	1.2	1.1
		Max Diff	4.2	3.1

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.9	0.9	0.9	0.9
90	92	92	2.0	2.0
180	181	181	1.0	1.0
270	271	271	1.0	1.0
		Max Diff	2.0	2.0

**Wind Speed**

Audit Device : RMYoung  
 Model Number : 18811 Serial Number : CA02929  
 Last certified : NA  
 Sensor height : 10 Meter  
 Sensor Make : Climatronics  
 Model Number : 102083 Serial Number : 1849

Synchronous motor checks

Known Value	Audit Value	DAS Station Value	DAS Diff. Value
RPM	MPS	MPS	MPS
0	0.2	0.2	0.0
300	6.7	6.7	0.0
600	13.1	13.0	-0.1
950	20.6	20.5	-0.1



**Relative Humidity**

Audit Device : Taylor Hygometer  
Model Number : 5522 Serial Number : 66978  
Last certified : NA  
Sensor height : 10 Meter  
Sensor Make : Met One  
Model Number : 083E-0-35 Serial Number : P18245

Audit Dry-Bulb: °C	Audit Wet-Bulb °C	Audit RH %RH	Station RH %RH	Audit Diff %RH
42.0	35.0	48.0	47.6	-0.4

**Barometric Pressure**

Audit Device : Delta Cal  
Model Number : Delta Cal Serial Number : 999  
Last certified : 03/19/15  
Sensor Make : Climatronics  
Model Number : 102663-G0 Serial Number : 42017

Audit Value In Hg	Station Value In Hg	Audit Diff. In Hg
24.00	24.18	0.18

**Solar Radiation**

Audit Device : Li Cor  
Model Number : LI-200 Serial Number : PY82228  
Last certified : 05/21/15 uA/m² : 98.51  
Sensor Make : Met One  
Model Number : 096-1 Serial Number : PY69829

Audit Value w/m2	Station Value w/m2	DAS Diff. %
320	315	-1.6

**Precipitation**

Audit Device : Fisher Scientific  
Model Number : S32814A Serial Number : 250 ml  
Last certified : NA  
Sensor Make : Climatronics  
Model Number : 100097-1-G0-H0 Serial Number : N3939  
Opening : 8 Inch  
Bucket Tip : 0.254 MM  
Bucket Tip Volume : 8.24 ML  
Level checked : OK  
Wind Screen in place : OK

Known Value ML	Known Value Bucket Tips	Station Value Bucket Tips	% Diff
250.0	30	28	-7.7

Signature Site Operator : 

Signature Auditor : 

Note: These preliminary results are subject to appropriate changes following verification of audit equipment, procedures, and calculations.

**APPENDIX C: EVAPORATION AND PRECIPITATION  
SUMMARY, FOURTH QUARTER 2015**

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## EVAPORATION AND PRECIPITATION SUMMARY FOR TINTINA SITE

(All values in inches)

DATE	TIME	EVAPORATION AS-FOUND	EVAPORATION AS-LEFT	PRECIPITATION (MANUAL)	PRECIPITATION (AUTOMATED)	TOTAL EVAPORATION	NET EVAPORATION
9/30/2015	1130	1.692	1.692				
10/5/2015	1000	1.316	3.500	0.10	0.07	0.476	0.376
10/7/2015	1430	3.218	3.218	0.00	0.00	0.282	0.282
10/9/2015	1030	3.285	3.285	0.12	0.10	0.053	-0.067
10/12/2015	0900	2.700	2.700	0.00	0.00	0.585	0.585
10/13/2015	0930	2.518	2.518	0.00	0.00	0.182	0.182
10/15/2015	1400	2.230	2.230	0.00	0.00	0.288	0.288
10/19/2015	0900	1.926	1.926	0.01	0.00	0.314	0.304
10/21/2015	1100	1.822	1.822	0.00	0.00	0.104	0.104
10/23/2015	1400	----	----	0.00	0.00	----	----
10/26/2015	1000	----	----	0.00	0.00	----	----
10/28/2015	0930	----	----	0.00	0.00	----	----
10/30/2015	0800	----	----	0.00	0.00	----	----
			<b>TOTAL</b>	0.23	0.17	2.28	2.05

## EVAPORATION AND PRECIPITATION SUMMARY FOR TINTINA SITE

(All values in inches)

DATE	TIME	EVAPORATION AS-FOUND	EVAPORATION AS-LEFT	PRECIPITATION (MANUAL)	PRECIPITATION (AUTOMATED)	TOTAL EVAPORATION	NET EVAPORATION
11/5/2015	1100	-----	-----	0.60	0.27		
11/16/2015	1200	-----	-----	0.53	0.33	-----	-----
11/23/2015	1000	-----	-----	0.05	0.15	-----	-----
11/30/2015	0800	-----	-----	0.03	0.02	-----	-----
			<b>TOTAL</b>	1.21	0.77	-----	-----

## EVAPORATION AND PRECIPITATION SUMMARY FOR TINTINA SITE

(All values in inches)

DATE	TIME	EVAPORATION AS-FOUND	EVAPORATION AS-LEFT	PRECIPITATION (MANUAL)	PRECIPITATION (AUTOMATED)	TOTAL EVAPORATION	NET EVAPORATION
12/8/2015	1000	-----	-----	0.08	0.15		
12/11/2015	1400	-----	-----	0.20	0.21	-----	-----
12/15/2015	0800	-----	-----	0.10	0.22		
12/21/2015	1000	-----	-----	0.21	0.25	-----	-----
12/28/2015	1130	-----	-----	0.00	0.06	-----	-----
			<b>TOTAL</b>	0.59	0.89	-----	-----