

August 16, 2017

Mr. Steven Zehntner
Air Quality Bureau
Montana Dept. of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear Mr. Zehntner:

Enclosed is a copy of the Tintina Resources Inc. (Tintina) quarterly meteorological data report for the second quarter of 2017. Tintina installed a 10 meter meteorological tower at their Black Butte Copper Project site, north of White Sulphur Springs, Montana. The tower started operations on April 30, 2012. This report contains the data from April 1 through June 30, 2017.

Please contact me with any comments or questions you may have on this report. I would be happy to assist you.

Sincerely,
BISON ENGINEERING, INC.



Steven R. Heck
Meteorologist

cc: Jerry Zieg - Tintina
Vince Scartozzi – Tintina
Alan Kirk – Geomin Resources

Enclosure

**TINTINA RESOURCES, INC.
BLACK BUTTE COPPER
PROJECT AMBIENT AIR
MONITORING PROGRAM
Quarterly Data Report
Second Quarter 2017**

Prepared for:

Tintina Resources, Inc.
PO Box 431
White Sulphur Springs, MT 59645

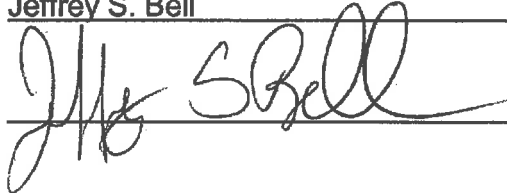
Prepared by:

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August 2, 2017

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)*.

Preparer: Jeffrey S. Bell
Signature: 
Title: Senior Field Technician
Date: 7/28/17

Reviewer: Steven R. Heck
Signature: 
Title: Meteorologist
Date: 8-2-2017

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APPENDICES

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

1.0 INTRODUCTION

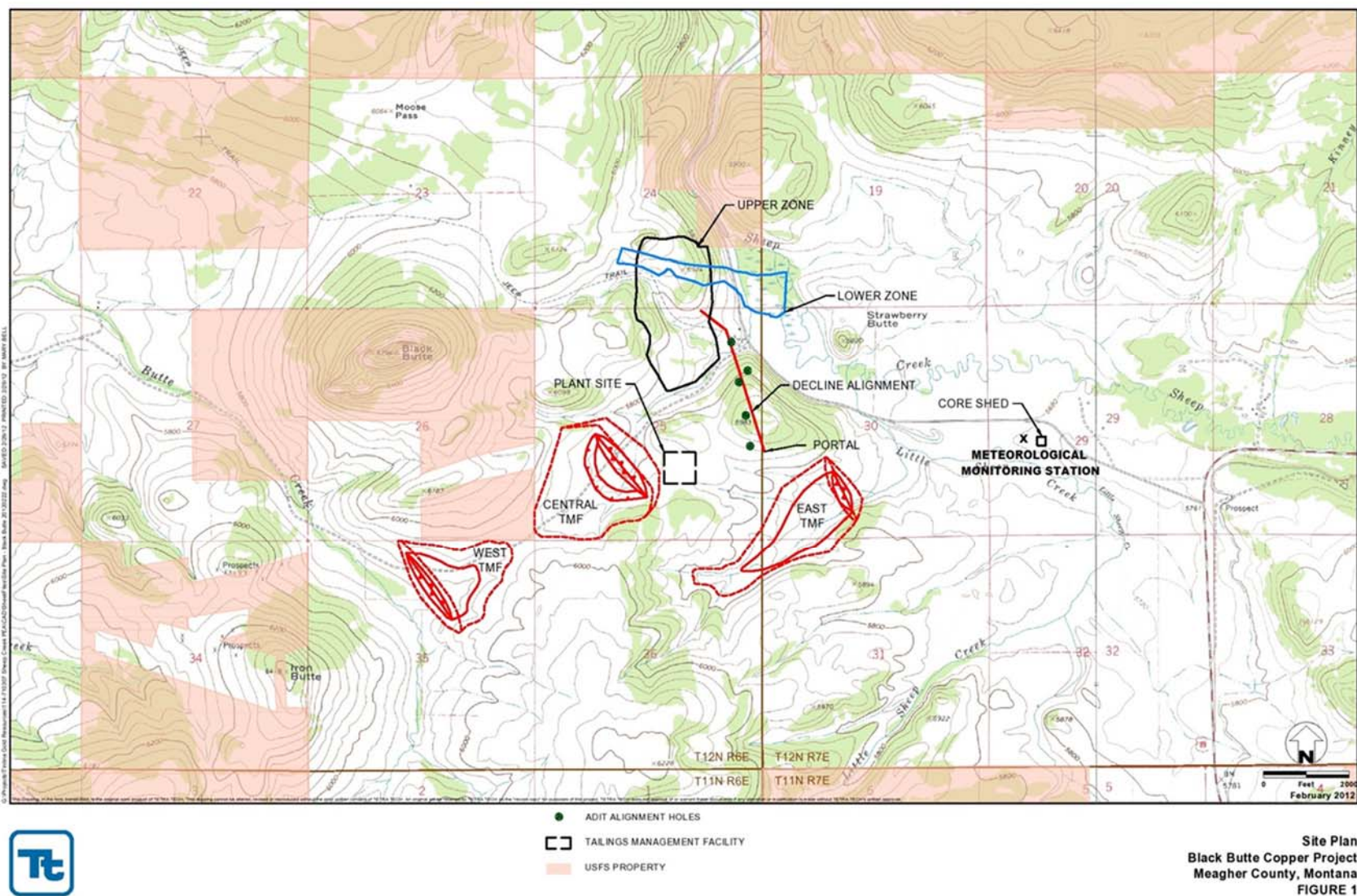
Tintina Resources, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize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

The 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 second quarter (April through June) of 2017. 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



2.0 MONITORING SYSTEM OPERATIONS

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

Steve Heck of Bison conducted performance audits of the meteorological system on June 8, 2017, 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 generally recorded by Tintina's on-site personnel two to three times per week. Operation of the evaporation pan for 2017 was initiated on May 12, when subfreezing temperatures became infrequent.

3.0 CALIBRATION DATA

As discussed in Section 4.0, the system's as-found condition was audited June 8, 2017. No calibration adjustments were made to the system other than replacement of the temperature sensors' aspirator fans, as shown in Appendix C.

4.0 PERFORMANCE AUDIT DATA

Steve Heck of Bison conducted performance audits of the meteorological system on June 8, 2017, and made no calibration adjustment beyond replacing the temperature sensors' aspirator fans. The Bison report of the audits is presented in Appendix B.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the second quarter of 2017 are given in Tables 1 and 2. In these tables, the number of possible data values during each month of the quarter is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as calibrations, performance audits, and maintenance on the sensors). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery.

During the second quarter the net percentage data recovery was 100.0 percent for all parameters at the site.

Table 1. Monthly Data Completeness

April 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	720	100.0	0	100.0
Standard Deviation	720	720	100.0	0	100.0
Temperature 9 Meters	720	720	100.0	0	100.0
Temperature 2 Meters	720	720	100.0	0	100.0
Temperature Delta T	720	720	100.0	0	100.0
Solar Radiation	720	720	100.0	0	100.0
Barometric Pressure	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,200	7,200	100.0	0	100.0

Table 1. Monthly Data Completeness (Continued)

May 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
Temperature 9 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Barometric Pressure	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Precipitation	744	744	100.0	0	100.0
Total	7,440	7,440	100.0	0	100.0

Table 1. Monthly Data Completeness (Continued)

June 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	715	99.3	5	100.0
Wind Direction	720	715	99.3	5	100.0
Standard Deviation	720	715	99.3	5	100.0
Temperature 9 Meters	720	715	99.3	5	100.0
Temperature 2 Meters	720	715	99.3	5	100.0
Temperature Delta T	720	715	99.3	5	100.0
Solar Radiation	720	715	99.3	5	100.0
Barometric Pressure	720	715	99.3	5	100.0
Relative Humidity	720	715	99.3	5	100.0
Precipitation	720	715	99.3	5	100.0
Total	7,200	7,150	99.3	50	100.0

Table 2. Quarterly Data Completeness

Second Quarter 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,184	2,179	99.8	5	100.0
Wind Direction	2,184	2,179	99.8	5	100.0
Standard Deviation	2,184	2,179	99.8	5	100.0
Temperature 9 Meters	2,184	2,179	99.8	5	100.0
Temperature 2 Meters	2,184	2,179	99.8	5	100.0
Temperature Delta T	2,184	2,179	99.8	5	100.0
Solar Radiation	2,184	2,179	99.8	5	100.0
Barometric Pressure	2,184	2,179	99.8	5	100.0
Relative Humidity	2,184	2,179	99.8	5	100.0
Precipitation	2,184	2,179	99.8	5	100.0
Total	21,840	21,790	99.8	50	100.0

6.0 MONITORING DATA

The hourly data values collected at the monitoring site 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 D. For comparison purposes, the precipitation amounts reported by the automatic rain gauge over the same time periods are provided. Overall, the precipitation amounts obtained from the manual gauge were comparable to those reported by the automated rain gauge.

Table 3. Missing Data Codes

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

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

April 2017																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.3	0.6	0.7	1.0	0.3	1.3	1.8	1.8	0.7	0.1	0.4	0.1	0.1	0.4	0.3	0.6	10.4
	1.1 - 2.0	0.6	0.1	0.8	0.7	1.8	2.9	4.0	2.6	0.6	0.6	0.3	0.4	1.3	1.8	1.1	0.1	19.7
	2.1 - 3.0	0.4	0.1	0.0	1.4	1.7	1.7	2.1	1.1	0.4	0.6	0.4	1.3	1.7	2.2	1.0	0.4	16.4
	3.1 - 4.0	0.6	0.0	0.1	0.4	1.0	0.3	1.0	1.1	0.6	0.8	1.0	1.1	1.5	2.6	0.7	0.1	12.9
	4.1 - 5.0	0.1	0.1	0.0	0.0	0.3	0.1	1.0	1.1	0.1	0.3	0.7	2.1	2.8	2.8	1.1	0.0	12.6
	5.1 - 6.0	0.0	0.1	0.0	0.0	0.0	0.1	0.6	0.6	0.6	0.7	0.3	1.4	3.5	2.2	0.6	0.4	11.0
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.1	0.4	0.3	0.3	2.1	1.7	1.0	0.1	7.5
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.8	1.7	0.8	0.7	0.0	4.9
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.0	0.4	1.0	0.4	0.0	0.0	2.6
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.8	0.0	0.0	0.0	1.3
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	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	0.1	0.0	0.0	0.0	0.0	0.1
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		1.9	1.1	1.7	3.5	5.0	6.4	11.0	9.2	4.6	4.3	3.5	8.2	16.5	15.0	6.4	1.8	100.0
Average Speed		2.4	2.2	1.3	2.0	2.3	1.8	2.5	2.9	4.3	4.8	3.8	4.8	5.3	4.2	4.3	2.9	3.7

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

May 2017																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.5	1.7	0.4	1.1	1.2	1.5	1.6	0.8	0.4	0.0	0.1	0.0	0.3	0.1	0.8	0.8	11.4
	1.1 - 2.0	0.7	1.1	1.3	2.2	4.6	6.2	3.6	0.8	0.7	0.5	0.5	0.3	0.4	0.4	0.4	0.4	24.1
	2.1 - 3.0	0.4	0.3	0.9	2.6	4.7	1.9	0.7	0.5	0.3	0.5	0.5	0.9	1.7	2.3	0.7	0.8	19.8
	3.1 - 4.0	0.7	0.1	0.1	1.7	1.2	0.7	0.4	0.7	0.5	0.8	0.1	0.9	2.8	2.8	1.1	0.9	15.7
	4.1 - 5.0	0.7	0.0	0.1	0.3	0.8	0.4	0.3	1.2	0.3	0.3	0.1	0.7	1.2	2.4	1.6	0.7	11.0
	5.1 - 6.0	0.4	0.4	0.3	0.1	0.7	0.0	0.0	0.7	0.4	0.3	0.3	1.1	1.3	1.5	1.1	0.0	8.5
	6.1 - 7.0	0.0	0.3	0.0	0.0	0.0	0.0	0.4	0.8	0.1	0.1	0.4	0.0	0.7	1.1	0.8	0.1	4.8
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.0	0.5	0.4	0.4	0.1	2.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	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	0.4	0.0	0.0	0.0	0.4
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
	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	0.4	0.0	0.0	0.0	0.4
	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	0.4	0.0	0.0	0.0	0.4
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		3.4	3.9	3.2	7.9	13.2	10.6	7.0	6.2	3.0	2.7	2.3	3.9	10.8	11.0	7.0	4.0	100.0
Average Speed		3.0	2.0	2.2	2.4	2.4	1.8	1.9	4.2	3.5	3.8	3.9	3.9	5.5	4.2	4.2	3.2	3.3

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

June 2017																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.6	0.4	0.3	0.4	0.7	0.3	0.4	0.4	0.0	0.0	0.1	0.4	0.0	0.4	0.1	0.7	5.3
	1.1 - 2.0	0.8	1.5	1.3	3.5	2.9	4.9	2.8	2.1	0.6	0.8	0.6	0.4	0.6	1.3	0.3	1.3	25.6
	2.1 - 3.0	0.3	0.3	0.1	0.4	3.4	2.8	1.1	0.8	0.6	0.4	0.3	0.7	1.8	1.8	0.8	0.3	15.9
	3.1 - 4.0	0.3	0.3	0.3	1.3	1.4	0.8	1.0	1.1	0.1	0.1	0.7	0.6	3.9	0.7	0.6	0.3	13.4
	4.1 - 5.0	0.4	0.0	0.1	0.1	1.0	0.1	0.4	0.8	0.8	0.4	0.6	1.3	3.9	3.2	1.1	0.1	14.5
	5.1 - 6.0	0.4	0.3	0.1	0.0	0.3	0.1	0.3	0.7	0.4	0.6	0.4	0.7	2.7	2.4	0.7	0.3	10.3
	6.1 - 7.0	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.6	0.1	0.4	0.1	0.7	3.4	0.7	0.6	0.3	7.7
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.0	0.0	0.0	0.1	1.4	0.4	0.4	0.0	3.4
	8.1 - 9.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.7	0.6	0.0	0.0	1.7
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.3	0.0	0.0	1.5
	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	0.6	0.0	0.0	0.0	0.6
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		2.9	3.1	2.2	5.7	9.7	9.2	7.0	7.1	2.7	2.8	2.8	5.3	19.9	11.7	4.6	3.2	100.0
Average Speed		2.9	2.5	2.2	2.1	2.5	2.2	3.0	3.6	3.6	3.8	3.6	4.5	5.3	4.4	4.4	2.6	3.7

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

Second Quarter 2017																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.5	0.9	0.5	0.8	0.7	1.0	1.3	1.0	0.4	0.0	0.2	0.2	0.1	0.3	0.4	0.7	9.1
	1.1 - 2.0	0.7	0.9	1.1	2.1	3.1	4.7	3.5	1.8	0.6	0.6	0.5	0.4	0.7	1.1	0.6	0.6	23.1
	2.1 - 3.0	0.4	0.2	0.4	1.5	3.3	2.1	1.3	0.8	0.4	0.5	0.4	1.0	1.7	2.1	0.8	0.5	17.4
	3.1 - 4.0	0.5	0.1	0.2	1.1	1.2	0.6	0.8	1.0	0.4	0.6	0.6	0.9	2.8	2.1	0.8	0.5	14.0
	4.1 - 5.0	0.4	0.0	0.1	0.1	0.7	0.2	0.6	1.1	0.4	0.3	0.5	1.3	2.6	2.8	1.3	0.3	12.7
	5.1 - 6.0	0.3	0.3	0.1	0.0	0.3	0.1	0.3	0.6	0.5	0.5	0.3	1.1	2.5	2.0	0.8	0.2	9.9
	6.1 - 7.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.6	0.5	0.3	0.3	0.3	2.0	1.1	0.8	0.2	6.7
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.0	0.3	1.2	0.6	0.5	0.0	3.4
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.2	0.6	0.3	0.0	0.0	1.6
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.6	0.1	0.0	0.0	1.1
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2	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	0.1	0.0	0.0	0.0	0.2
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.1	0.0	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	0.1	0.0	0.0	0.0	0.1
	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		2.8	2.7	2.4	5.7	9.3	8.8	8.3	7.5	3.4	3.3	2.8	5.8	15.6	12.6	6.0	3.0	100.0
Average Speed		2.8	2.2	2.0	2.2	2.4	2.0	2.5	3.5	3.9	4.2	3.7	4.5	5.4	4.3	4.3	2.9	3.5

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

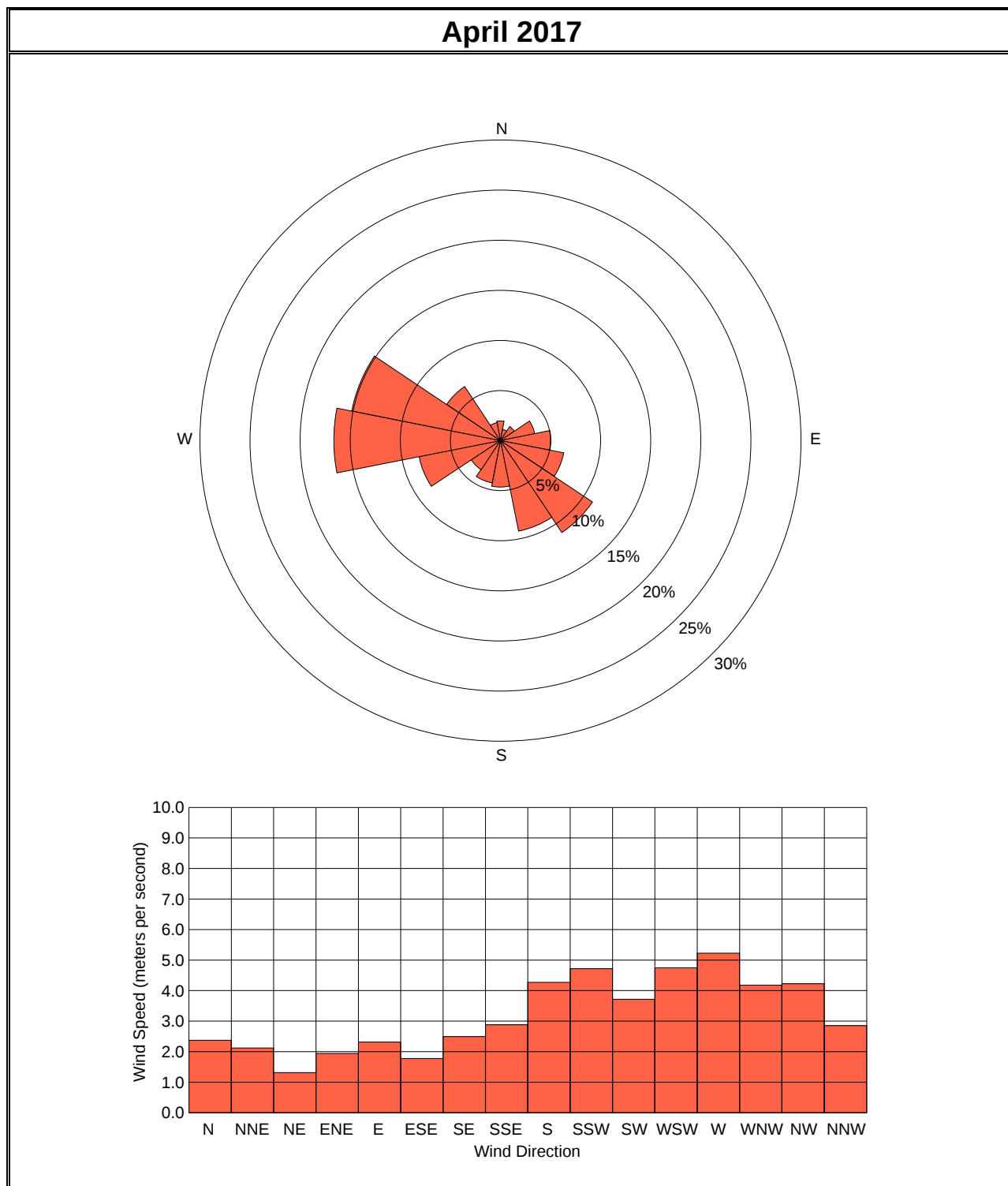


Figure 3. Monthly Wind Rose, Black Butte Copper Project Met Tower

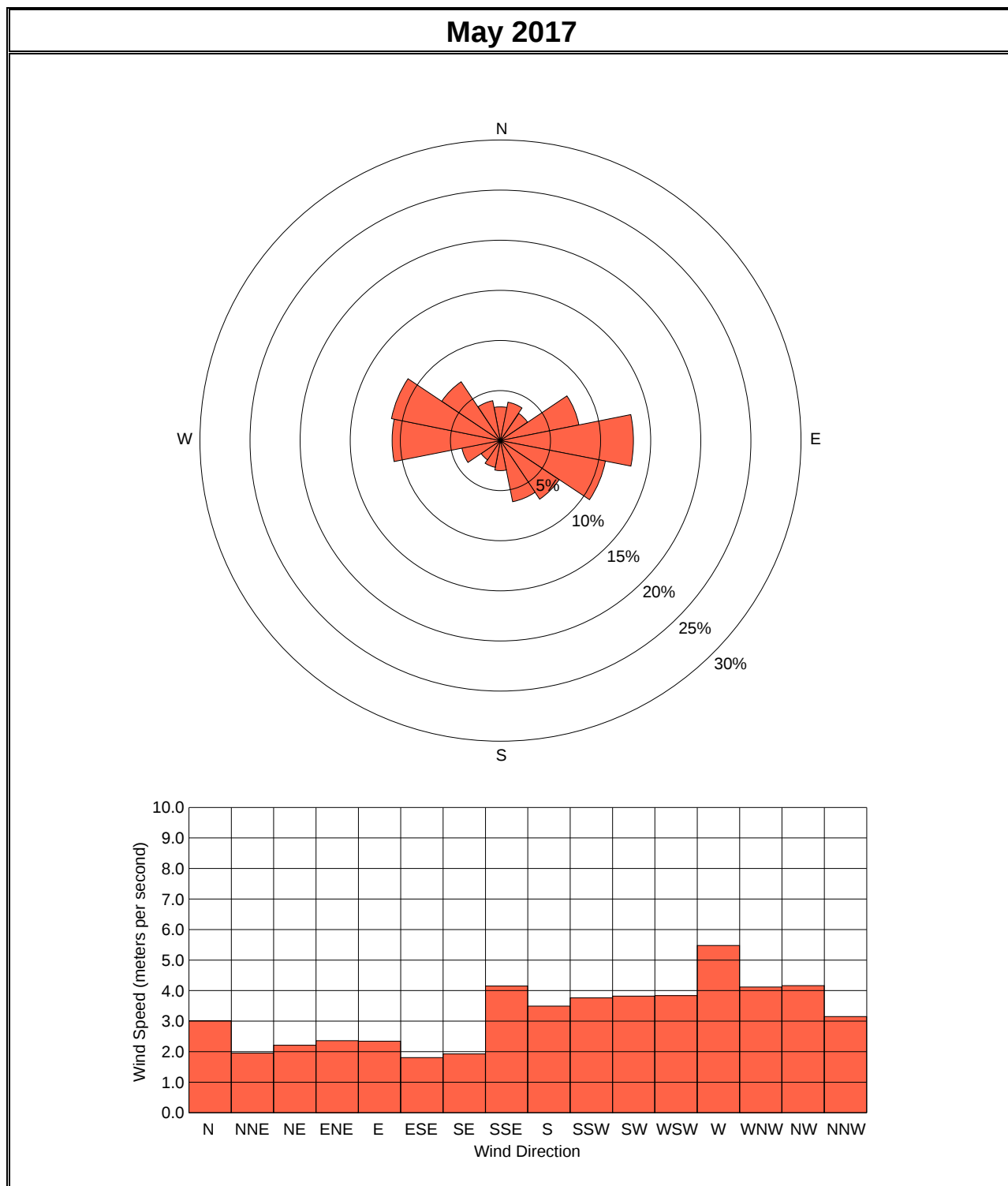


Figure 4. Monthly Wind Rose, Black Butte Copper Project Met Tower

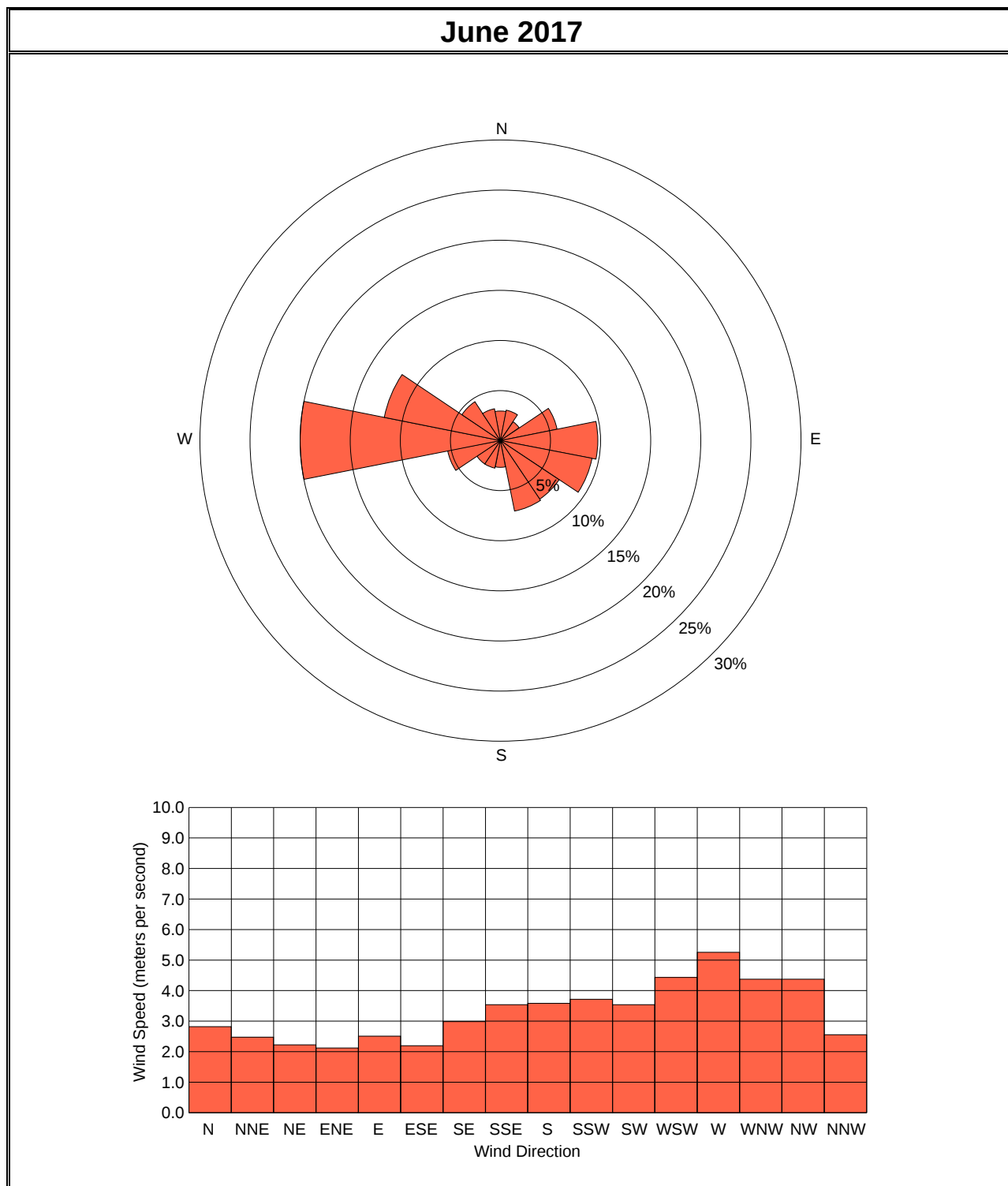
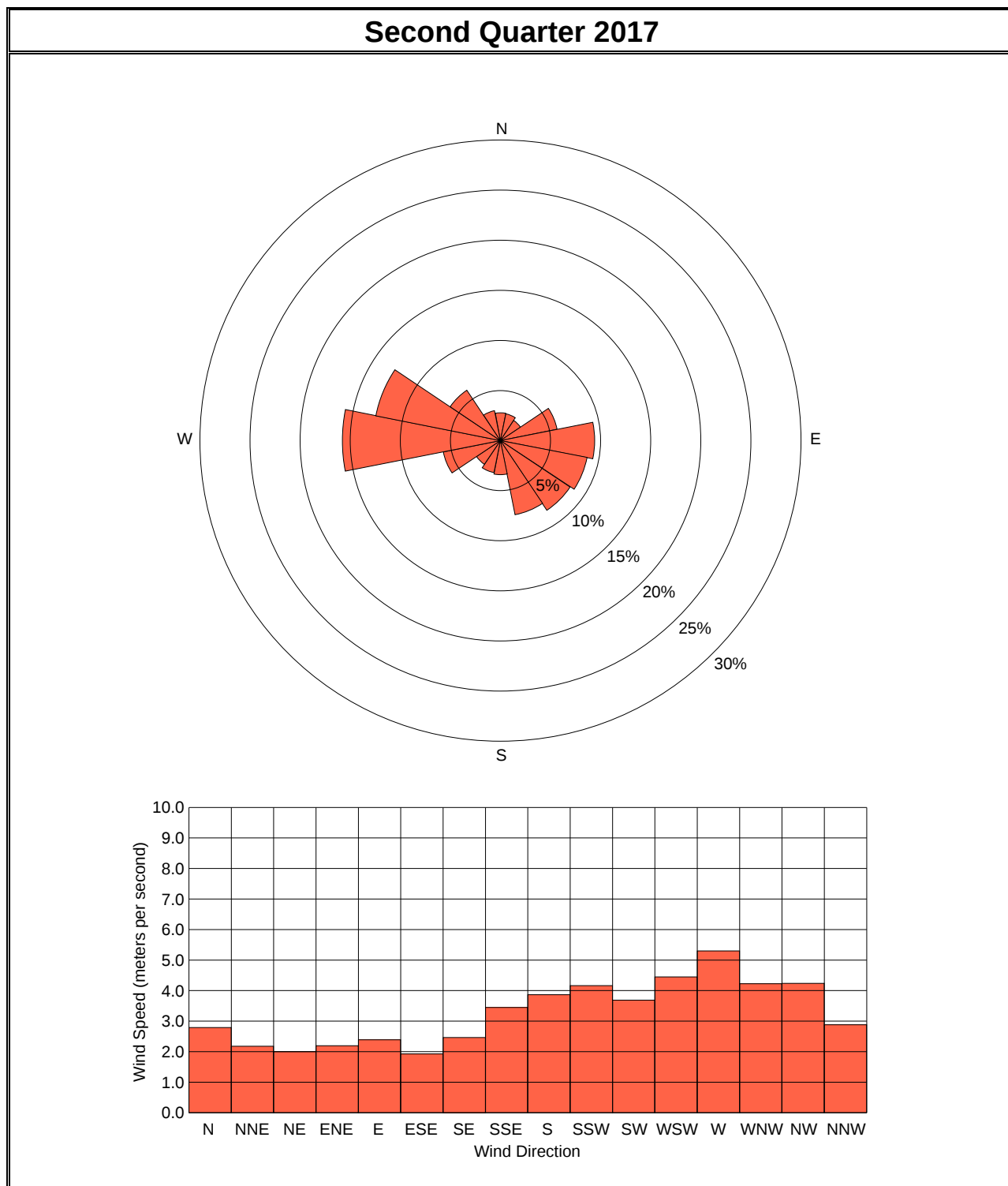


Figure 5. Quarterly Wind Rose, Black Butte Copper Project Met Tower



**APPENDIX A: HOURLY AIR QUALITY AND
METEOROLOGICAL DATA, SECOND QUARTER 2017**

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
April 2017

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	1.8	1.2	1.3	1.5	0.9	1.4	1.3	0.7	0.5	1.7	4.7	6.9	6.0	5.7	5.0	5.4	5.9	5.6	4.7	5.7	6.3	5.1	7.1	9.1	4.0	9.1	0.5
2	6.4	3.7	3.8	3.5	2.7	2.2	1.2	2.1	0.9	4.4	5.9	6.3	7.8	8.3	7.4	8.9	8.6	8.2	7.5	6.5	5.1	5.2	3.4	4.4	5.2	8.9	0.9
3	4.0	2.9	1.1	2.4	2.3	0.6	1.0	1.7	4.4	6.4	6.0	7.0	7.0	7.0	6.7	8.0	6.4	5.2	5.2	4.9	3.8	4.2	2.8	3.6	4.4	8.0	0.6
4	4.0	4.1	2.5	2.0	2.2	2.9	1.7	1.0	1.3	2.4	3.5	4.2	5.0	5.1	5.2	6.2	6.3	5.6	3.4	1.2	1.7	0.8	0.9	1.3	3.1	6.3	0.8
5	0.9	0.9	1.5	1.2	0.7	0.6	0.8	0.6	2.9	6.9	8.4	8.2	7.8	7.2	7.8	7.5	5.6	4.3	4.3	2.4	2.8	3.8	2.2	1.9	3.8	8.4	0.6
6	1.7	1.7	2.3	2.5	1.4	1.7	1.3	1.2	3.3	6.1	6.3	6.5	6.7	7.0	7.1	8.1	7.0	5.6	6.1	6.2	3.2	4.5	3.6	3.7	4.4	8.1	1.2
7	4.0	2.7	4.6	2.4	2.3	1.2	1.2	1.4	3.5	10.9	9.0	8.7	12.7	10.4	5.4	5.1	5.6	3.5	3.8	3.5	3.9	3.3	1.4	1.7	4.7	12.7	1.2
8	2.6	1.1	1.1	1.3	1.6	1.3	1.0	0.6	0.7	2.1	3.8	2.4	3.4	1.9	2.6	5.3	3.2	2.4	1.9	1.7	0.8	3.0	2.1	2.7	2.1	5.3	0.6
9	3.3	4.0	4.6	5.3	6.4	7.7	6.7	6.7	6.5	7.9	7.5	6.2	7.2	6.6	5.8	5.2	4.6	3.6	2.3	0.9	1.3	1.3	0.8	1.0	4.7	7.9	0.8
10	0.4	0.6	0.5	0.8	0.8	1.0	0.6	0.4	1.0	3.0	5.1	5.2	3.7	4.3	5.2	4.1	5.2	1.9	6.7	1.9	2.7	1.9	4.2	1.6	2.6	6.7	0.4
11	1.9	2.8	2.4	3.0	2.1	3.5	3.3	2.8	2.8	4.9	5.7	6.0	4.2	3.5	2.6	2.2	2.1	1.8	2.2	3.3	4.0	2.0	4.4	5.3	3.3	6.0	1.8
12	3.6	1.5	3.9	3.7	2.1	3.4	3.6	2.7	3.6	4.3	4.2	3.9	3.2	4.5	4.7	4.9	4.3	5.2	4.8	5.4	7.1	7.0	8.8	6.7	4.5	8.8	1.5
13	2.9	3.7	2.1	2.5	2.5	1.6	2.2	6.4	8.5	8.6	9.7	9.4	8.0	6.1	7.2	7.5	7.3	4.4	5.5	3.4	4.5	7.0	4.1	3.3	5.4	9.7	1.6
14	4.2	4.3	5.0	3.3	4.5	5.1	4.0	3.7	6.6	7.4	8.0	8.4	8.5	7.6	7.4	5.5	4.9	3.8	4.1	2.7	2.7	3.2	4.1	3.3	5.1	8.5	2.7
15	5.2	6.9	5.6	5.7	7.5	7.6	6.7	7.9	7.9	9.5	9.1	9.0	11.3	10.4	9.9	9.4	9.5	9.0	7.0	3.7	1.3	1.9	5.0	5.4	7.2	11.3	1.3
16	3.4	1.5	2.0	1.7	3.4	2.5	2.4	1.5	4.9	5.4	5.0	4.8	3.9	3.5	2.6	2.3	2.3	2.8	2.8	2.1	3.5	4.5	3.0	3.0	3.1	5.4	1.5
17	5.4	4.0	2.0	2.5	2.3	3.5	4.6	5.4	4.1	2.2	4.5	3.4	6.2	8.8	4.8	2.9	7.0	8.8	9.2	8.3	5.1	2.2	2.8	2.0	4.7	9.2	2.0
18	1.3	1.2	1.0	0.9	0.7	1.1	0.7	0.7	1.8	4.4	4.7	4.9	4.3	4.2	3.2	2.7	2.6	1.2	1.1	3.7	2.4	5.0	5.1	2.0	2.5	5.1	0.7
19	1.5	0.8	0.7	1.0	1.6	0.2	0.2	0.9	3.1	5.1	6.3	5.4	6.0	5.3	5.6	4.7	4.2	5.0	3.8	1.7	4.3	2.9	2.1	1.9	3.1	6.3	0.2
20	1.6	1.5	1.8	1.4	1.7	1.6	0.7	0.9	3.4	4.2	5.8	5.7	7.3	5.6	5.1	4.6	6.7	3.3	3.7	2.3	0.8	1.6	4.1	3.1	3.3	7.3	0.7
21	2.9	1.9	4.0	4.1	3.0	2.9	2.4	3.0	4.4	5.4	5.9	6.4	5.9	7.1	7.8	7.9	7.4	6.5	4.8	3.7	3.4	2.1	1.9	2.1	4.5	7.9	1.9
22	1.2	0.7	1.1	1.6	1.6	0.5	2.3	2.5	2.8	3.4	4.5	5.3	4.7	5.4	6.2	6.1	6.1	4.9	2.9	2.3	1.7	1.8	2.0	3.6	3.1	6.2	0.5
23	2.8	2.1	2.1	2.7	1.5	2.3	1.6	1.2	1.0	4.4	4.0	1.7	1.1	2.3	4.2	5.1	2.7	2.2	1.8	1.3	1.6	2.2	2.0	1.4	2.3	5.1	1.0
24	1.1	0.7	0.8	0.7	0.9	1.0	0.7	0.7	1.4	2.6	2.6	3.0	2.0	1.8	2.4	4.4	6.0	6.4	2.6	2.4	2.3	1.6	1.0	2.0	2.1	6.4	0.7
25	0.7	0.7	1.3	0.7	0.5	0.8	1.1	1.4	3.0	2.6	3.4	1.9	5.2	6.2	3.1	3.5	3.4	6.8	4.1	3.3	2.0	1.1	1.3	1.8	2.5	6.8	0.5
26	1.3	1.5	1.9	1.2	0.9	0.9	1.5	0.8	1.7	2.9	3.1	2.2	4.1	4.5	4.1	7.3	2.0	3.3	1.5	2.3	1.0	0.9	0.8	1.2	2.2	7.3	0.8
27	0.8	1.0	0.6	1.6	3.7	4.3	2.6	3.3	5.3	6.1	5.1	5.8	6.3	5.3	6.5	5.9	5.8	5.4	4.5	4.3	4.4	3.0	1.8	1.4	3.9	6.5	0.6
28	1.7	1.9	1.6	1.3	1.2	1.5	1.3	2.8	2.0	3.8	5.7	4.4	3.9	3.2	3.8	5.1	5.3	4.5	2.6	2.5	1.2	0.9	1.1	1.2	2.7	5.7	0.9
29	1.4	1.1	0.9	2.1	3.4	2.0	1.8	1.0	1.4	3.4	4.2	4.1	4.2	5.4	5.0	5.4	5.3	4.8	4.3	1.5	2.9	3.5	3.1	1.6	3.1	5.4	0.9
30	1.7	0.7	1.1	4.1	2.9	2.2	0.9	1.5	2.2	2.5	2.5	2.2	1.8	6.0	5.8	3.5	4.8	7.2	6.5	4.0	4.4	4.9	7.1	6.0	3.6	7.2	0.7
Avg	2.5	2.1	2.2	2.3	2.3	2.3	2.0	2.3	3.2	4.8	5.5	5.3	5.6	5.7	5.3	5.5	5.3	4.8	4.2	3.3	3.1	3.1	3.1	3.0	3.7	7.5	1.0
Max	6.4	6.9	5.6	5.7	7.5	7.7	6.7	7.9	8.5	10.9	9.7	9.4	12.7	10.4	9.9	9.4	9.5	9.0	9.2	8.3	7.1	7.0	8.8	9.1	7.2	12.7	2.7
Min	0.4	0.6	0.5	0.7	0.5	0.2	0.2	0.4	0.5	1.7	2.5	1.7	1.1	1.8	2.4	2.2	2.0	1.2	1.1	0.9	0.8	0.8	0.8	1.0	2.1	5.1	0.2

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
May 2017

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	4.3	3.2	4.3	3.2	3.5	2.0	3.9	4.3	5.6	7.0	7.0	6.5	7.6	5.4	4.0	3.0	3.8	2.7	2.5	2.7	3.1	1.0	0.4	0.8	3.8	7.6	0.4
2	1.2	1.5	1.3	2.0	3.3	2.3	2.4	3.7	4.6	4.1	3.8	4.6	5.0	5.3	5.9	6.3	5.3	5.7	4.7	3.5	2.8	1.8	1.7	1.8	3.5	6.3	1.2
3	1.0	1.3	1.4	1.3	1.6	2.0	1.5	0.8	2.8	4.1	3.7	4.5	5.2	5.8	6.4	6.4	5.7	6.0	5.6	5.7	3.5	1.5	3.1	1.7	3.4	6.4	0.8
4	1.8	1.6	1.2	1.1	1.4	0.9	0.9	0.8	2.2	3.0	4.2	3.8	3.6	3.5	3.8	3.9	3.6	3.1	1.6	2.7	4.7	3.4	1.8	2.3	2.5	4.7	0.8
5	2.0	2.0	2.0	2.4	2.0	1.8	1.1	0.9	3.3	5.3	5.3	5.4	4.6	5.5	5.8	4.9	3.7	3.3	2.4	2.3	4.4	2.0	4.4	3.3	3.3	5.8	0.9
6	3.0	2.8	1.7	2.1	1.3	1.3	1.5	0.9	1.0	3.3	3.3	3.5	3.6	4.4	5.0	4.0	5.9	4.1	2.8	2.8	1.3	2.2	1.8	1.6	2.7	5.9	0.9
7	1.8	1.8	1.5	1.4	1.3	1.1	0.6	0.9	1.3	4.2	4.1	5.4	7.3	5.1	6.9	3.9	4.5	5.9	3.9	4.0	3.6	4.3	3.3	2.4	3.4	7.3	0.6
8	1.2	1.3	0.6	1.0	0.6	0.6	0.7	1.0	1.9	3.4	3.7	3.1	2.6	2.4	2.2	2.5	2.2	2.7	2.5	2.5	2.1	1.6	2.0	1.0	1.9	3.7	0.6
9	1.5	2.1	2.4	2.4	1.9	1.0	0.9	1.2	1.1	3.1	4.5	4.7	4.7	4.8	6.3	6.1	3.9	3.7	5.2	3.9	1.5	2.6	1.7	2.0	3.1	6.3	0.9
10	2.2	2.5	2.8	1.5	1.7	1.4	1.2	1.0	2.9	3.1	3.0	2.1	2.8	3.4	3.0	2.8	3.9	2.5	1.1	4.7	1.7	2.6	2.2	2.3	2.4	4.7	1.0
11	2.7	2.7	2.2	2.0	1.2	1.4	0.9	0.7	0.7	1.2	3.0	3.1	3.2	3.2	2.0	3.0	3.9	2.9	7.8	3.6	3.3	4.7	1.7	1.2	2.6	7.8	0.7
12	0.9	1.8	2.5	1.9	2.2	1.0	1.0	3.2	5.1	5.5	7.4	7.2	8.1	10.9	9.2	10.5	10.3	5.6	2.8	6.5	3.1	8.6	7.6	6.5	5.4	10.9	0.9
13	2.9	3.2	2.6	2.3	2.7	2.3	2.7	3.2	2.9	3.6	3.9	4.4	3.7	3.7	3.4	1.8	3.9	5.3	2.3	1.7	2.2	1.9	1.7	2.4	2.9	5.3	1.7
14	1.8	1.8	1.5	1.3	1.4	1.1	0.7	0.9	2.7	4.8	6.5	6.0	4.9	4.6	5.8	5.2	5.3	4.3	4.3	1.8	1.5	3.0	2.7	1.6	3.1	6.5	0.7
15	1.0	1.9	1.1	1.1	1.0	1.5	1.6	2.5	0.8	1.3	2.0	2.3	2.2	3.7	3.2	3.7	3.0	3.8	3.2	2.6	2.2	2.6	2.2	1.9	2.2	3.8	0.8
16	1.9	1.4	1.5	1.0	1.6	0.9	0.5	0.8	3.4	6.4	5.4	6.3	7.0	6.6	6.1	7.5	4.2	1.2	1.1	1.8	2.1	4.1	3.3	1.4	3.2	7.5	0.5
17	1.0	1.0	0.9	1.7	1.8	1.0	0.9	1.1	2.2	3.0	3.3	4.9	2.5	3.2	3.8	5.2	5.9	2.5	2.4	0.9	2.6	2.0	1.6	1.4	2.4	5.9	0.9
18	1.0	3.8	3.2	2.5	2.3	2.5	2.9	4.2	2.8	3.1	4.1	4.2	3.4	3.4	3.3	5.0	6.3	7.1	6.8	4.7	2.4	3.8	2.6	0.8	3.6	7.1	0.8
19	1.6	1.2	0.7	0.5	0.7	0.6	0.5	0.4	0.8	1.2	1.7	2.5	2.5	3.3	3.3	3.1	1.7	4.1	2.7	3.2	3.1	2.3	3.2	2.7	2.0	4.1	0.4
20	2.6	2.4	2.3	2.0	1.9	1.3	0.8	0.7	1.5	2.6	3.0	3.8	2.7	3.7	3.4	4.4	3.2	2.0	4.0	1.3	1.0	0.9	1.1	1.3	2.2	4.4	0.7
21	0.6	1.1	0.5	0.9	0.7	0.4	0.7	0.9	1.8	4.3	4.9	4.3	5.2	5.4	5.0	5.6	7.1	6.0	4.4	3.9	1.3	1.6	2.3	2.1	3.0	7.1	0.4
22	1.6	1.3	2.0	2.0	1.1	1.3	1.8	4.4	4.1	6.5	6.1	4.5	4.7	5.6	5.9	5.6	5.7	5.7	5.2	1.7	1.8	2.7	3.0	2.4	3.6	6.5	1.1
23	2.4	1.7	1.7	1.8	1.7	1.4	0.5	0.6	0.9	2.5	2.9	3.7	4.0	4.1	5.6	5.4	5.0	5.2	3.8	1.8	1.4	1.6	1.6	1.5	2.6	5.6	0.5
24	1.7	1.3	1.1	1.5	3.9	6.0	7.0	6.7	11.3	14.2	15.7	15.6	13.5	14.8	14.0	15.3	14.3	11.6	11.7	8.5	6.6	7.9	7.5	7.1	9.1	15.7	1.1
25	7.2	5.4	3.7	4.1	3.5	5.0	4.2	4.9	6.6	6.1	5.1	6.1	7.3	9.2	9.6	7.5	6.3	5.3	4.5	2.1	0.8	0.9	1.4	1.7	4.9	9.6	0.8
26	1.2	1.2	0.8	0.8	0.8	0.9	0.7	0.9	2.0	3.0	3.2	2.9	3.5	4.4	4.5	4.5	4.4	4.8	2.8	3.0	2.8	1.4	2.8	4.0	2.6	4.8	0.7
27	3.9	4.0	3.0	1.7	1.3	0.8	0.7	1.0	2.7	3.7	5.1	5.1	6.0	6.3	5.9	6.1	5.7	4.6	4.3	2.6	2.0	2.1	2.4	1.8	3.4	6.3	0.7
28	1.1	1.6	1.5	1.3	1.4	0.7	1.3	1.2	2.0	5.1	4.6	3.4	3.8	4.0	4.8	4.2	5.6	6.7	3.3	2.3	1.2	2.2	3.1	3.2	2.9	6.7	0.7
29	2.6	2.3	2.0	1.2	1.3	0.9	0.6	0.6	1.0	2.3	2.6	3.8	4.2	3.1	1.7	2.1	2.4	3.3	3.0	1.3	2.7	2.8	2.7	4.0	2.3	4.2	0.6
30	3.1	2.5	3.0	2.7	2.1	1.4	1.7	1.1	2.4	4.4	4.1	4.0	2.4	5.5	6.2	6.9	5.2	6.3	5.8	3.4	2.4	1.0	1.2	2.0	3.4	6.9	1.0
31	2.5	2.4	2.2	1.8	1.8	1.4	0.9	2.0	4.4	4.4	4.0	4.3	4.5	4.4	4.2	6.1	6.9	4.3	5.1	4.9	5.4	5.2	2.7	2.5	3.7	6.9	0.9
Avg	2.1	2.1	1.9	1.8	1.8	1.6	1.5	1.9	2.9	4.2	4.6	4.7	4.7	5.1	5.2	5.2	5.1	4.6	4.0	3.2	2.6	2.8	2.6	2.3	3.3	6.5	0.8
Max	7.2	5.4	4.3	4.1	3.9	6.0	7.0	6.7	11.3	14.2	15.7	15.6	13.5	14.8	14.0	15.3	14.3	11.6	11.7	8.5	6.6	8.6	7.6	7.1	9.1	15.7	1.7
Min	0.6	1.0	0.5	0.5	0.6	0.4	0.5	0.4	0.7	1.2	1.7	2.1	2.2	2.4	1.7	1.8	1.7	1.2	1.1	0.9	0.8	0.9	0.4	0.8	1.9	3.7	0.4

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
June 2017

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	1.4	2.5	2.2	2.8	2.4	1.3	1.2	0.9	1.0	1.5	1.5	5.0	4.1	2.6	5.3	5.8	6.2	8.0	2.7	1.8	1.5	1.8	1.9	2.4	2.8	8.0	0.9
2	1.3	1.7	1.3	1.7	1.0	2.6	4.1	6.1	7.5	6.8	6.7	7.0	7.1	7.1	7.5	6.7	7.0	6.2	5.9	4.8	1.9	2.9	3.7	2.0	4.6	7.5	1.0
3	2.1	1.9	1.6	2.0	1.9	1.6	1.4	0.8	3.1	4.9	4.7	4.6	6.1	5.3	4.3	4.2	4.0	2.9	1.4	2.5	1.6	4.1	3.4	1.9	3.0	6.1	0.8
4	1.6	1.7	2.4	1.5	1.0	1.1	1.8	1.8	2.4	4.1	3.9	4.6	5.4	4.3	4.6	6.4	3.1	4.8	3.5	4.0	6.8	3.2	5.0	5.5	3.5	6.8	1.0
5	4.0	1.6	5.9	2.0	1.6	1.3	1.3	2.5	4.6	5.6	4.7	6.5	5.0	4.4	4.1	4.0	4.1	5.0	4.6	3.8	1.1	1.2	1.6	1.2	3.4	6.5	1.1
6	1.1	1.3	0.8	1.0	0.9	0.9	0.8	3.9	5.9	6.8	7.2	7.1	6.6	7.0	7.2	7.0	7.5	8.6	6.2	3.2	1.4	1.3	1.8	1.8	4.1	8.6	0.8
7	2.7	2.2	1.7	2.0	2.5	2.7	1.5	2.6	5.3	4.7	3.6	3.4	3.8	3.6	2.5	4.1	6.1	7.8	5.4	6.0	5.3	5.8	5.7	4.2	4.0	7.8	1.5
8	2.6	2.8	2.7	1.9	1.5	1.3	1.0	1.1	4.4	5.9	Au	Au	Au	Au	Au	6.1	4.9	5.5	6.2	5.5	6.7	2.0	1.4	1.7	3.4	6.7	1.0
9	2.0	1.8	1.5	0.9	2.6	1.5	2.7	2.9	3.8	4.3	6.6	6.0	3.0	6.9	3.1	4.5	1.8	2.8	1.6	1.7	2.3	2.0	1.1	1.2	2.9	6.9	0.9
10	1.8	1.7	1.4	1.3	1.6	1.4	2.3	3.7	6.0	6.3	4.7	4.7	2.6	4.9	2.8	4.0	5.0	4.7	1.7	3.1	2.7	1.8	2.4	3.1	3.2	6.3	1.3
11	2.2	2.3	1.6	2.0	1.0	1.8	1.5	4.0	4.3	3.9	3.0	3.0	2.6	2.8	2.1	2.3	2.0	3.0	2.6	2.5	3.3	3.0	2.1	1.7	2.5	4.3	1.0
12	1.3	1.2	3.1	1.3	2.9	3.1	3.6	2.2	4.3	5.5	4.5	4.5	7.1	6.9	7.2	6.0	4.4	3.8	4.6	3.1	3.9	4.3	3.1	1.4	3.9	7.2	1.2
13	3.2	3.0	3.3	5.9	3.4	2.2	2.8	3.6	3.2	3.4	2.2	1.8	2.5	2.7	3.3	5.2	5.7	4.5	4.1	5.2	4.1	3.3	4.2	3.9	3.6	5.9	1.8
14	4.8	5.4	5.9	5.8	5.9	5.8	4.9	6.5	8.4	8.9	9.3	9.2	9.9	10.1	9.5	10.4	9.3	9.5	7.7	5.4	2.8	4.6	6.2	5.4	7.1	10.4	2.8
15	4.4	5.3	3.4	3.1	1.8	2.8	1.3	0.8	1.4	2.7	4.5	3.4	3.6	4.4	5.4	5.9	6.4	6.6	5.4	3.4	2.9	1.9	2.2	1.1	3.5	6.6	0.8
16	1.1	0.8	2.1	1.7	3.9	3.6	4.7	5.0	7.1	6.7	6.3	8.3	9.1	6.4	5.7	5.0	5.3	3.5	3.8	5.2	4.3	4.1	5.5	4.1	4.7	9.1	0.8
17	4.1	4.6	4.7	4.3	4.4	3.4	5.0	6.1	7.0	6.2	5.1	4.4	5.0	4.1	4.9	4.6	5.3	5.3	4.5	3.6	1.9	2.1	2.8	2.0	4.4	7.0	1.9
18	1.6	1.5	0.8	0.8	1.4	3.5	5.2	5.1	6.2	6.4	6.4	5.7	4.3	7.2	8.0	8.1	8.4	9.2	8.2	5.0	3.8	2.6	1.6	1.8	4.7	9.2	0.8
19	2.2	2.0	1.7	1.6	1.1	1.0	0.7	1.1	3.5	4.7	4.9	3.1	3.8	3.1	3.3	2.2	1.9	1.6	1.6	2.8	2.0	3.7	1.7	2.9	2.4	4.9	0.7
20	2.5	2.2	1.8	2.5	2.0	2.1	1.4	1.2	1.2	1.9	3.5	2.0	3.3	4.4	5.1	6.8	4.9	5.6	5.7	4.9	3.9	7.2	4.9	5.8	3.6	7.2	1.2
21	4.7	4.2	4.1	3.0	3.4	5.1	5.7	6.7	6.9	7.6	6.9	7.1	9.5	9.0	9.2	10.8	10.9	9.4	8.6	6.1	5.0	4.2	2.0	1.4	6.3	10.9	1.4
22	3.1	2.1	1.7	2.0	1.7	1.1	0.9	3.3	7.6	8.8	8.5	7.5	7.5	7.7	7.5	6.9	6.0	8.1	6.2	5.1	5.1	2.3	2.0	1.5	4.8	8.8	0.9
23	1.5	1.3	1.2	1.1	1.3	0.8	0.5	0.7	1.0	2.3	4.0	4.1	4.6	4.5	5.5	5.0	4.9	4.9	4.0	2.1	1.2	1.5	1.6	1.5	2.5	5.5	0.5
24	0.8	1.4	2.0	1.0	1.2	1.2	0.6	0.7	1.0	1.4	1.4	3.1	3.6	3.2	3.1	3.6	2.7	2.2	1.9	3.9	3.0	3.7	3.7	3.1	2.2	3.9	0.6
25	3.0	3.4	4.2	2.4	2.7	1.5	1.4	1.0	1.2	2.2	1.9	2.8	2.6	2.8	3.5	3.7	3.3	3.1	3.0	1.0	1.8	4.2	3.4	1.1	2.6	4.2	1.0
26	1.4	2.1	2.2	2.1	1.8	1.3	1.1	0.7	2.3	4.1	4.0	4.8	6.0	4.2	4.4	5.2	3.3	2.6	2.1	1.6	2.1	2.0	5.6	5.1	3.0	6.0	0.7
27	2.9	2.9	1.4	3.8	1.3	1.0	1.1	1.2	6.2	6.1	4.3	4.6	5.1	6.7	6.5	5.4	6.3	4.7	2.9	4.0	3.5	4.2	3.0	2.7	3.8	6.7	1.0
28	2.9	2.2	1.9	1.6	1.6	1.6	1.3	0.9	4.5	5.5	7.0	7.0	5.4	4.3	5.5	5.9	5.9	2.5	1.8	1.9	2.2	2.1	1.6	1.6	3.3	7.0	0.9
29	1.7	1.7	1.4	1.3	1.1	1.1	1.4	6.0	5.4	4.4	5.4	5.3	6.1	6.1	5.6	5.0	6.3	5.6	3.2	3.5	1.6	1.4	1.9	1.7	3.5	6.3	1.1
30	1.7	1.4	1.7	1.6	1.6	1.0	0.8	0.5	1.8	3.4	3.0	2.4	2.8	2.8	3.0	3.1	2.7	2.6	1.1	1.0	1.5	3.3	3.3	2.8	2.1	3.4	0.5
Avg	2.4	2.3	2.4	2.2	2.1	2.0	2.1	2.8	4.3	4.9	4.8	4.9	5.1	5.2	5.2	5.5	5.2	5.2	4.1	3.6	3.0	3.1	3.0	2.6	3.7	6.9	1.1
Max	4.8	5.4	5.9	5.9	5.9	5.8	5.7	6.7	8.4	8.9	9.3	9.2	9.9	10.1	9.5	10.8	10.9	9.5	8.6	6.1	6.8	7.2	6.2	5.8	7.1	10.9	2.8
Min	0.8	0.8	0.8	0.8	0.9	0.8	0.5	0.5	1.0	1.4	1.4	1.8	2.5	2.6	2.1	2.2	1.8	1.6	1.1	1.0	1.1	1.2	1.1	1.1	2.1	3.4	0.5

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
April 2017

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	132	133	110	145	154	162	165	299	43	100	231	263	265	250	245	252	284	289	270	270	268	270	274	278	238
2	279	297	303	284	297	280	143	85	111	246	251	265	262	278	285	292	294	297	301	297	286	268	257	280	279
3	286	268	160	260	269	218	228	271	289	289	317	316	287	314	315	314	314	302	302	304	310	314	298	295	290
4	305	303	298	271	295	292	306	232	352	267	264	264	264	239	250	277	265	274	269	161	123	114	161	120	265
5	66	36	95	107	108	77	148	33	304	263	258	252	252	260	259	254	259	264	248	253	78	85	106	109	217
6	148	128	128	128	150	145	164	42	128	171	179	175	178	185	192	210	202	199	200	222	203	218	200	202	175
7	216	227	99	100	122	147	208	60	119	199	203	190	202	230	272	245	205	172	178	236	242	207	64	129	186
8	94	117	132	63	108	155	138	169	36	136	230	251	284	326	22	327	5	75	138	356	138	261	259	251	118
9	260	254	266	280	284	287	289	286	286	283	281	277	283	287	296	296	285	293	322	266	136	137	174	151	274
10	166	141	104	158	151	151	170	295	77	140	163	174	188	201	210	170	204	136	272	266	237	121	257	139	174
11	146	72	66	69	116	74	79	78	262	267	268	276	266	294	247	275	210	90	83	95	80	37	133	140	101
12	128	134	143	150	145	152	158	147	152	153	151	158	137	145	140	144	123	143	131	127	129	134	138	144	142
13	1	161	135	166	149	145	142	157	153	149	164	175	171	186	185	202	272	317	266	320	318	293	293	298	195
14	285	293	287	299	270	262	262	256	255	256	279	281	281	267	261	271	284	279	297	267	198	208	277	274	270
15	268	255	251	254	251	258	268	267	262	263	253	250	258	260	264	262	268	260	269	271	280	268	275	296	264
16	300	217	166	55	82	91	58	33	277	271	277	259	257	235	224	303	231	171	151	118	122	142	143	147	189
17	152	141	138	140	176	158	151	159	221	124	163	229	264	270	299	326	277	277	277	278	286	3	84	101	203
18	53	99	22	89	49	94	65	24	288	286	265	249	255	242	258	288	305	267	301	146	139	305	287	308	305
19	155	139	1	333	316	314	147	114	287	277	260	263	268	272	268	252	288	286	287	150	89	77	117	126	264
20	111	128	136	153	154	134	91	134	139	158	176	176	156	127	107	166	234	309	286	249	147	116	267	271	157
21	282	290	294	284	292	291	290	289	285	280	281	280	280	299	306	315	314	315	301	290	279	290	287	275	291
22	260	336	214	266	282	123	111	145	180	181	148	152	164	179	169	179	202	203	205	142	126	121	114	92	169
23	104	113	116	86	121	75	133	164	321	228	241	8	37	360	320	201	148	148	197	174	112	115	99	85	120
24	114	133	354	26	106	131	158	332	255	251	264	237	60	83	292	316	305	316	335	109	125	107	133	151	96
25	41	134	136	282	63	331	130	296	308	348	310	323	291	331	334	201	157	147	144	259	264	173	118	160	261
26	184	195	153	131	166	176	101	130	151	196	223	301	245	305	276	237	187	231	254	142	156	124	135	137	182
27	108	179	63	290	291	285	292	287	287	286	291	295	283	335	313	295	292	305	298	292	301	316	308	331	299
28	294	291	299	291	316	288	300	310	323	41	21	15	3	355	355	331	320	352	336	166	203	195	130	89	327
29	56	107	59	60	83	113	103	125	11	247	244	253	241	258	268	226	228	235	253	246	82	77	76	99	151
30	144	242	97	238	240	101	115	104	101	88	120	80	63	240	262	268	242	311	301	291	273	277	277	281	236
Prev	153	169	117	172	164	156	150	136	277	231	240	252	253	264	269	261	257	266	267	237	180	168	186	167	232

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
May 2017

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	277	275	296	303	293	288	299	291	313	309	309	293	298	308	341	262	319	6	49	83	256	33	23	167	309
2	169	173	184	265	276	287	278	270	268	288	296	291	286	294	305	296	305	290	297	311	351	104	110	123	279
3	148	112	87	143	73	76	142	94	227	261	259	255	248	266	288	277	266	271	276	274	292	106	72	98	223
4	89	67	47	50	64	51	58	23	297	276	298	272	261	284	275	270	268	251	218	96	83	83	83	107	13
5	73	91	98	118	142	123	146	341	135	190	191	202	213	224	227	226	208	199	162	135	85	46	80	54	147
6	91	70	83	65	108	104	90	145	156	162	192	202	186	206	171	183	240	181	287	248	328	21	199	212	162
7	110	34	122	69	131	32	103	105	4	283	277	282	265	255	267	276	304	298	266	276	286	295	291	300	297
8	220	77	12	83	128	29	156	132	296	281	280	287	278	266	335	296	264	269	271	162	83	94	88	171	266
9	123	110	98	79	117	73	133	121	355	293	290	278	287	330	308	306	291	321	20	58	107	86	107	93	49
10	66	65	59	28	85	70	102	122	151	177	192	243	217	212	210	238	285	288	273	134	98	88	101	82	130
11	84	71	64	85	44	115	132	322	351	14	281	270	281	261	256	227	229	271	214	59	107	108	62	96	58
12	334	137	144	131	122	182	313	149	153	152	167	171	167	167	184	193	153	152	135	266	335	277	292	290	175
13	299	330	300	283	286	276	324	299	287	282	300	283	281	291	309	340	291	260	222	218	209	163	108	108	282
14	118	112	100	61	111	131	23	94	206	239	227	249	276	253	248	252	259	262	295	225	126	74	66	122	181
15	111	34	136	145	319	135	69	122	33	21	359	265	244	273	252	285	329	316	7	87	81	114	105	119	58
16	104	157	112	104	153	134	144	57	106	143	149	153	181	197	228	295	340	20	317	134	111	83	80	112	125
17	112	116	90	118	136	230	160	137	308	339	69	70	35	10	71	81	69	48	102	266	76	80	54	87	81
18	19	78	83	59	96	72	83	75	99	103	101	91	80	81	107	149	152	156	146	141	100	98	51	84	96
19	104	85	70	344	2	278	95	18	145	99	154	183	255	257	314	333	311	265	277	78	81	110	85	89	61
20	97	93	85	80	79	97	162	298	300	283	296	4	354	198	177	155	137	203	250	248	141	79	58	135	126
21	11	96	60	121	126	91	116	126	260	278	287	321	315	315	308	303	322	308	311	302	355	92	94	75	357
22	67	91	7	183	152	196	159	1	347	16	13	9	358	355	360	349	31	34	41	22	138	86	84	81	42
23	81	102	51	88	111	136	20	6	24	303	257	273	260	245	244	259	255	250	240	184	125	123	115	104	172
24	124	121	144	97	137	211	223	271	277	276	281	277	277	276	272	278	269	266	276	273	273	274	279	280	259
25	304	301	305	295	300	290	294	296	311	301	303	308	319	320	335	327	340	316	305	307	337	105	126	112	313
26	71	137	34	54	68	308	326	316	333	331	337	326	333	313	311	327	323	329	344	283	256	124	79	76	346
27	69	75	88	134	107	98	191	29	285	255	267	292	283	288	283	288	297	305	304	328	96	109	88	31	338
28	76	92	101	26	66	20	134	103	311	266	320	341	356	4	3	355	12	286	306	38	108	101	78	68	32
29	78	53	105	89	118	116	348	70	328	297	320	290	314	81	55	54	27	29	152	122	99	98	65	76	61
30	103	77	66	76	83	105	54	101	179	154	157	166	130	86	156	154	171	154	149	154	138	127	110	109	124
31	112	104	94	104	98	106	75	127	158	152	156	153	153	153	122	135	165	49	97	104	81	88	101	76	115
Prev	90	90	81	84	101	103	106	68	298	275	271	271	275	273	278	277	288	287	276	183	91	93	84	98	75

Tintina Resources, Inc.
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Wind Direction (degrees)
June 2017

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	82	40	109	107	79	113	343	131	351	126	227	183	183	143	181	204	212	291	322	337	270	90	247	287	156
2	233	230	127	109	167	264	273	259	254	261	251	273	266	260	263	267	270	274	282	294	163	111	85	26	250
3	89	64	55	118	133	53	149	349	135	161	166	196	194	215	230	239	209	198	137	108	60	83	103	104	135
4	109	116	87	134	97	126	116	109	134	155	161	172	190	204	214	305	62	63	315	78	343	3	96	301	116
5	53	327	248	103	209	271	329	279	299	290	281	274	282	263	259	260	301	312	3	30	5	3	112	91	304
6	117	157	77	136	167	13	20	136	147	154	154	147	150	147	148	142	146	142	136	124	87	303	120	90	130
7	90	97	116	114	97	91	94	187	165	161	156	159	138	144	151	144	151	147	138	138	51	91	81	87	125
8	101	117	91	119	153	149	164	123	145	149	Au	Au	Au	Au	Au	130	168	180	172	198	279	81	284	86	142
9	69	54	82	46	92	60	223	261	243	203	195	225	287	273	81	179	96	132	149	185	143	119	119	159	145
10	120	158	123	113	159	128	146	166	229	234	245	287	246	234	161	229	257	261	206	216	261	131	88	72	189
11	94	106	63	78	101	122	12	278	261	265	260	245	271	281	318	173	171	156	154	104	108	59	74	68	120
12	212	295	83	299	113	111	67	85	109	154	160	127	119	125	139	108	91	123	337	68	62	359	170	151	111
13	328	290	236	150	126	108	149	147	146	157	205	254	300	287	291	285	280	277	274	269	283	274	267	272	251
14	271	271	259	267	276	273	270	273	264	261	260	255	254	267	262	264	265	272	273	283	288	292	295	291	271
15	290	276	282	87	99	86	54	7	40	292	272	275	272	254	247	244	248	269	270	266	282	208	179	206	267
16	88	252	293	291	260	273	278	271	264	259	257	257	268	276	295	290	270	263	271	249	266	258	273	261	269
17	264	275	264	286	301	291	293	275	264	269	283	259	264	273	254	265	263	280	283	283	181	116	90	59	272
18	64	105	130	95	284	269	277	272	260	270	277	279	295	272	270	276	280	284	287	285	276	268	358	61	283
19	99	77	63	113	47	10	308	350	263	255	280	278	272	275	260	307	360	301	251	210	85	100	103	106	327
20	121	121	70	94	95	86	88	7	296	323	277	267	269	284	299	308	307	287	280	277	277	275	308	308	306
21	298	295	281	243	281	297	298	285	280	262	259	264	277	279	278	277	266	286	288	292	302	297	137	337	282
22	114	89	75	66	77	12	108	314	284	292	299	290	311	326	320	334	8	18	13	6	20	310	157	75	4
23	33	63	108	18	103	237	14	298	344	293	265	303	306	308	299	320	357	37	26	13	218	173	164	133	343
24	61	18	83	37	104	151	331	328	299	276	332	255	259	249	307	3	359	11	74	109	82	79	77	85	23
25	85	84	82	61	83	26	133	343	23	191	12	294	337	264	233	265	289	271	266	251	133	85	71	108	31
26	123	113	119	124	138	145	140	289	134	169	153	180	209	243	216	203	154	233	280	86	135	52	245	313	166
27	103	99	52	56	68	92	16	70	267	248	266	251	283	264	255	274	282	286	329	221	60	100	114	121	340
28	114	113	132	126	150	115	149	334	263	268	271	298	303	289	290	302	335	285	288	305	18	154	127	112	268
29	136	95	72	56	29	99	342	17	5	326	322	306	319	322	319	315	354	335	338	309	346	71	92	104	6
30	77	67	92	111	121	114	214	83	336	269	262	305	304	266	301	245	257	251	207	71	131	84	86	84	123
Prev	94	88	93	96	115	97	25	311	265	239	250	254	267	261	260	262	275	272	280	273	6	76	114	85	246

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
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April 2017

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

Tintina Resources, Inc.
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Standard Deviation of Wind Direction (degrees)
May 2017

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

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Standard Deviation of Wind Direction (degrees)
June 2017

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

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
April 2017

A-10

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	-1.7	-2.8	-3.6	-4.0	-4.4	-5.1	-5.6	-3.8	-0.3	3.6	5.9	7.0	7.7	8.2	9.2	10.1	10.2	10.1	9.8	9.2	8.6	7.6	6.6	5.7	3.7	10.2	-5.6
2	4.8	4.1	3.4	3.0	2.7	1.9	0.6	1.0	2.6	4.0	4.5	4.9	6.1	6.2	6.7	6.6	5.8	4.9	3.8	2.0	0.2	-0.7	-1.9	-2.4	3.1	6.7	-2.4
3	-2.7	-3.1	-3.5	-3.6	-4.2	-4.9	-5.8	-4.3	-3.1	-2.3	-2.0	-1.4	-0.4	-1.2	-1.0	-1.4	-2.3	-2.5	-2.9	-3.1	-3.3	-3.6	-4.0	-4.1	-2.9	-0.4	-5.8
4	-4.2	-4.1	-4.2	-4.3	-3.9	-3.9	-4.1	-4.1	-2.6	-1.4	-0.2	1.0	2.0	2.9	3.5	4.0	4.3	4.1	3.0	-0.4	-2.1	-3.7	-5.0	-6.2	-1.2	4.3	-6.2
5	-6.9	-7.6	-8.1	-8.3	-7.2	-6.3	-5.8	-4.5	1.3	5.0	5.9	6.5	7.1	7.7	8.4	8.2	7.7	8.1	7.0	5.4	3.4	0.1	-1.0	-2.0	1.0	8.4	-8.3
6	-2.2	-2.3	-1.6	-1.6	-1.8	-1.6	-0.3	1.5	7.8	9.7	10.2	11.3	12.0	12.9	14.4	14.2	14.7	14.1	13.2	11.9	11.3	11.3	10.7	9.9	7.5	14.7	-2.3
7	9.4	6.3	4.1	1.6	0.9	0.3	0.6	5.9	10.1	12.7	12.8	12.7	12.9	10.6	6.3	6.0	5.4	4.9	4.9	5.9	5.9	5.1	4.0	1.6	6.3	12.9	0.3
8	1.0	0.2	-0.9	-1.3	-1.9	-2.4	-2.3	-1.5	0.6	5.1	7.3	7.4	8.4	8.4	7.5	6.9	2.9	0.9	1.1	0.7	0.7	0.3	-0.1	-0.5	2.0	8.4	-2.4
9	-0.8	-1.3	-1.7	-1.7	-2.0	-2.1	-2.3	-2.4	-2.4	-2.3	-2.1	-2.2	-2.2	-1.9	-1.6	-1.1	-1.1	-0.9	-1.4	-2.7	-4.8	-7.3	-9.7	-11.2	-2.9	-0.8	-11.2
10	-12.7	-13.3	-13.6	-12.9	-12.5	-12.8	-13.1	-11.9	-6.8	-2.1	1.2	2.1	2.9	3.2	3.2	3.7	2.0	0.6	-0.6	-1.1	-1.7	-2.6	-2.5	-4.1	-4.4	3.7	-13.6
11	-6.3	-7.0	-7.7	-7.2	-8.0	-6.7	-5.9	-3.3	-0.6	0.4	1.2	1.9	2.7	3.4	4.2	5.0	5.5	5.6	4.4	2.4	1.3	2.3	3.3	1.9	-0.3	5.6	-8.0
12	0.5	0.2	-0.1	-0.2	0.0	0.1	0.3	1.2	2.8	4.1	5.7	7.0	7.5	8.4	8.8	8.9	8.6	7.4	7.3	7.1	7.2	6.6	6.4	6.4	4.7	8.9	-0.2
13	6.0	5.4	4.8	4.2	3.4	4.4	3.6	8.2	10.9	13.7	15.9	16.4	16.5	16.6	17.0	16.1	12.1	10.5	7.9	6.0	5.1	3.1	1.9	0.8	8.8	17.0	0.8
14	0.5	0.4	0.3	0.0	-0.1	-0.6	-0.8	-0.8	-0.3	0.4	1.8	2.7	3.5	4.0	4.2	4.4	4.6	4.3	3.6	2.5	1.7	1.1	0.0	-1.1	1.5	4.6	-1.1
15	-0.7	-1.4	-1.6	-1.8	-2.1	-2.3	-2.3	-1.9	-1.4	-0.4	0.2	1.4	2.4	3.2	2.8	2.7	2.8	2.7	2.0	1.0	0.2	-0.9	-0.8	-1.1	0.1	3.2	-2.3
16	-1.9	-3.4	-4.2	-5.4	-6.3	-7.2	-6.5	-3.3	0.4	1.6	2.4	3.6	4.4	5.0	5.7	6.2	7.0	6.9	5.5	4.1	4.2	3.4	2.1	1.5	1.1	7.0	-7.2
17	0.7	0.5	1.1	1.3	2.0	2.7	3.2	2.2	2.9	2.0	3.2	4.1	6.0	5.4	2.8	4.6	7.0	6.6	6.5	5.5	4.7	3.1	0.1	-1.3	3.2	7.0	-1.3
18	-2.2	-2.7	-2.7	-2.8	-3.2	-3.5	-3.3	-1.0	4.1	6.4	7.0	8.3	9.0	9.7	10.1	10.5	10.5	10.2	9.9	8.2	6.3	4.4	2.0	0.4	4.0	10.5	-3.5
19	0.2	0.3	0.5	0.6	0.7	0.5	-0.5	-0.4	1.7	3.1	4.2	5.1	6.2	7.2	7.9	8.5	8.7	9.1	8.5	4.5	1.1	-0.4	-2.8	-3.1	3.0	9.1	-3.1
20	-3.9	-4.8	-4.6	-5.1	-5.3	-5.5	-4.4	0.1	6.0	8.5	9.9	10.4	10.9	10.7	10.9	10.8	7.9	6.5	5.7	4.5	3.9	3.5	2.2	0.5	3.3	10.9	-5.5
21	0.2	0.0	0.0	0.0	-0.2	-0.3	-0.3	-0.2	0.1	0.5	0.9	1.5	2.1	3.1	3.0	2.9	2.1	1.6	1.2	0.6	0.2	0.0	0.0	-0.2	0.8	3.1	-0.3
22	-0.3	-0.2	-0.2	-0.2	0.0	0.0	0.4	1.0	1.6	2.6	4.6	6.4	7.5	8.4	9.5	10.5	11.3	11.4	10.5	7.8	7.3	6.9	4.5	3.3	4.8	11.4	-0.3
23	2.0	1.0	0.1	0.4	-0.8	0.7	0.4	3.2	5.9	8.1	6.1	4.9	6.1	7.7	7.6	4.2	4.1	4.6	5.2	4.5	2.0	0.2	-0.5	-1.6	3.2	8.1	-1.6
24	-2.1	-2.0	-1.9	-1.6	-1.4	-1.4	-0.8	0.5	2.5	3.9	4.8	5.6	5.6	6.8	7.9	7.9	7.1	5.5	4.6	3.1	2.0	1.2	1.0	0.9	2.5	7.9	-2.1
25	1.4	0.8	0.2	0.4	0.5	0.5	0.9	1.9	2.7	1.6	2.0	3.7	3.8	3.0	5.1	4.6	5.4	4.3	3.4	3.2	1.8	0.2	-0.2	-1.9	2.1	5.4	-1.9
26	-1.3	-1.5	-1.3	-0.9	-0.8	-0.8	-0.7	0.0	1.2	2.8	3.3	3.4	4.9	5.9	4.7	2.3	2.9	3.4	3.5	2.2	1.5	1.1	0.1	-0.3	1.5	5.9	-1.5
27	-0.6	-0.9	-0.6	0.0	0.4	0.2	0.2	0.5	0.7	1.2	1.6	2.5	2.9	1.0	0.2	0.5	0.4	0.3	0.2	-0.2	-0.4	-0.6	-0.7	-0.9	0.3	2.9	-0.9
28	-0.8	-0.8	-0.9	-1.0	-0.8	-0.9	-1.0	-0.5	0.8	1.8	2.4	2.4	3.0	3.4	3.7	4.3	4.2	3.4	2.6	0.6	-1.2	-1.6	-2.2	-1.5	0.8	4.3	-2.2
29	-1.5	-3.2	-3.1	-2.9	-3.9	-4.8	-3.2	-1.4	1.0	3.0	4.1	5.0	5.4	6.8	7.5	7.4	7.7	8.1	7.7	4.9	2.0	0.0	-1.0	-3.1	1.8	8.1	-4.8
30	-3.7	-3.9	-2.8	2.8	2.2	0.4	0.2	0.5	1.4	1.4	1.9	3.2	4.7	7.1	5.3	6.6	6.8	7.5	6.2	5.2	4.7	4.2	4.0	3.0	2.9	7.5	-3.9
Avg	-1.0	-1.6	-1.8	-1.8	-1.9	-2.0	-2.0	-0.6	1.7	3.3	4.2	5.0	5.7	6.1	6.2	6.2	5.9	5.5	4.8	3.5	2.5	1.5	0.6	-0.4	2.1	7.2	-3.6
Max	9.4	6.3	4.8	4.2	3.4	4.4	3.6	8.2	10.9	13.7	15.9	16.4	16.5	16.6	17.0	16.1	14.7	14.1	13.2	11.9	11.3	11.3	10.7	9.9	8.8	17.0	0.8
Min	-12.7	-13.3	-13.6	-12.9	-12.5	-12.8	-13.1	-11.9	-6.8	-2.3	-2.1	-2.2	-2.2	-1.9	-1.6	-1.4	-2.3	-2.5	-2.9	-3.1	-4.8	-7.3	-9.7	-11.2	-4.4	-0.8	-13.6

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
May 2017

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	2.2	1.8	1.2	0.1	0.1	0.1	0.7	0.8	1.4	2.9	3.4	4.1	4.8	4.2	3.9	5.5	5.9	5.6	5.1	4.4	3.2	1.4	0.7	0.2	2.7	5.9	0.1
2	0.2	0.2	0.2	0.3	0.5	0.2	0.4	0.7	1.3	1.3	2.0	2.3	2.6	3.8	3.7	4.0	5.1	5.7	5.2	4.1	2.7	0.0	-2.0	-2.7	1.7	5.7	-2.7
3	-3.7	-4.5	-5.3	-5.0	-5.5	-5.2	-4.2	-0.1	3.8	5.3	6.6	8.2	9.7	11.4	12.3	13.2	13.9	14.5	14.2	12.5	10.7	8.3	4.3	2.6	4.9	14.5	-5.5
4	1.4	0.4	-0.3	-0.8	-1.1	-1.5	0.5	5.8	11.1	12.8	14.4	16.2	17.5	18.6	19.5	20.0	20.5	20.4	20.1	15.2	10.9	8.3	7.2	5.6	10.1	20.5	-1.5
5	5.4	4.8	3.7	2.4	2.1	2.2	5.1	10.5	17.0	19.3	20.3	21.0	21.9	22.6	22.8	22.9	22.8	22.6	22.3	17.8	14.3	12.6	11.2	10.6	14.1	22.9	2.1
6	9.0	8.1	6.2	5.2	3.6	3.3	5.7	10.2	14.2	16.4	17.7	19.0	20.1	20.8	21.3	21.1	19.3	18.3	16.5	12.8	11.2	10.7	9.9	8.6	12.9	21.3	3.3
7	6.6	4.6	4.1	3.5	3.5	3.5	4.6	6.9	10.7	12.2	11.7	10.8	9.2	7.8	6.8	4.8	5.7	5.1	4.4	3.3	3.1	2.8	1.9	1.1	5.8	12.2	1.1
8	-0.2	-1.2	-1.9	-2.4	-3.4	-4.2	-2.8	0.0	3.1	4.7	5.9	7.2	8.4	9.8	10.8	11.7	12.2	12.3	11.9	8.5	8.2	6.5	5.2	3.9	4.8	12.3	-4.2
9	4.5	2.0	0.2	-0.6	-1.9	-2.3	-0.7	3.7	8.6	10.5	11.6	12.5	13.1	13.5	13.8	13.8	14.0	13.9	12.4	10.7	7.0	5.5	3.3	1.7	7.1	14.0	-2.3
10	1.4	0.9	0.4	-0.9	-0.9	-1.7	0.7	6.6	11.4	12.9	13.8	14.8	15.8	16.7	17.2	18.0	18.4	18.3	18.2	14.8	13.4	11.5	8.1	6.0	9.8	18.4	-1.7
11	4.8	4.0	3.2	1.8	0.8	0.3	2.7	8.2	13.2	16.4	18.2	18.9	19.8	20.3	21.0	21.6	21.6	20.9	16.5	13.8	11.3	9.9	8.2	6.3	11.8	21.6	0.3
12	5.5	9.1	10.9	11.5	10.4	8.0	8.4	14.8	17.4	18.9	20.0	20.9	21.4	21.9	22.6	22.4	19.7	18.2	17.2	12.7	11.0	6.6	3.5	2.2	14.0	22.6	2.2
13	1.9	1.6	1.4	1.4	1.1	0.7	1.0	2.0	2.8	4.0	4.5	3.0	0.2	0.3	-0.2	0.4	1.6	1.8	1.4	0.7	0.6	-1.1	-2.3	-3.3	1.1	4.5	-3.3
14	-4.2	-4.7	-5.8	-5.7	-5.4	-6.2	-3.9	-0.4	1.9	3.5	4.4	3.8	4.3	4.9	6.0	6.6	6.8	7.2	6.3	4.7	2.6	1.6	1.1	0.3	1.2	7.2	-6.2
15	0.2	0.0	0.0	0.1	0.1	0.7	1.7	3.2	3.7	4.2	4.8	5.9	6.7	7.7	8.2	8.7	8.5	7.9	5.3	4.3	2.3	0.4	-0.9	-2.0	3.4	8.7	-2.0
16	-2.4	-3.6	-4.0	-4.7	-4.7	-5.0	-2.3	2.8	7.7	9.1	9.4	9.9	10.7	11.0	10.4	5.8	6.1	6.6	6.5	6.7	6.0	5.2	4.8	4.7	4.0	11.0	-5.0
17	4.4	4.3	4.5	4.9	4.2	3.9	3.8	4.1	4.6	5.4	5.3	5.9	4.3	5.0	4.6	5.4	5.8	5.4	3.9	3.2	3.2	2.9	2.2	2.2	4.3	5.9	2.2
18	2.3	3.4	3.2	3.1	2.9	2.5	3.1	3.4	3.8	4.6	5.0	5.4	5.8	6.5	7.2	7.7	7.8	7.2	6.3	5.1	2.5	0.5	-0.4	-1.4	4.1	7.8	-1.4
19	-2.2	-2.9	-3.3	-4.1	-4.7	-5.3	-4.1	-2.0	1.1	5.2	8.1	9.5	10.3	10.4	10.6	10.9	11.2	10.8	10.3	8.3	6.5	4.6	3.7	1.8	3.9	11.2	-5.3
20	1.0	0.9	0.2	-0.3	-0.9	-1.6	1.0	5.1	9.2	10.1	10.0	9.4	9.6	9.2	7.3	8.1	8.9	8.7	7.2	6.7	4.9	3.0	1.6	1.0	5.0	10.1	-1.6
21	-0.1	-0.8	-1.8	-2.3	-2.4	-2.9	-0.9	3.4	8.2	10.2	10.8	11.4	12.1	12.7	13.7	14.1	13.9	13.7	13.0	12.6	10.8	7.2	4.6	3.2	6.8	14.1	-2.9
22	2.4	1.5	3.1	4.3	4.2	5.0	7.1	9.5	10.2	10.5	9.4	10.3	12.1	13.0	13.8	13.9	13.7	13.5	13.4	12.1	7.9	5.4	3.9	2.9	8.5	13.9	1.5
23	2.1	0.8	0.7	0.1	-0.8	-0.7	1.9	7.0	11.8	14.0	15.3	16.4	17.3	18.3	19.0	19.6	19.9	20.2	19.7	16.7	13.3	10.9	9.4	6.3	10.8	20.2	-0.8
24	5.7	4.8	3.8	4.1	9.0	14.8	15.6	14.6	14.5	14.0	13.0	12.4	12.0	12.0	12.1	11.6	10.7	9.7	8.5	7.5	6.2	5.4	4.9	4.6	9.6	15.6	3.8
25	3.1	1.7	1.1	0.5	0.5	0.4	0.4	1.1	1.8	2.5	3.6	4.7	6.2	7.4	7.6	7.6	6.8	6.4	6.5	5.8	4.4	3.8	2.4	1.1	3.6	7.6	0.4
26	0.6	0.9	1.1	0.5	0.2	-0.1	2.2	5.3	7.3	8.5	9.3	9.7	10.5	10.9	11.1	11.3	11.6	11.5	10.7	9.5	8.0	6.5	4.1	3.2	6.4	11.6	-0.1
27	2.4	1.2	-0.1	-1.9	-2.2	-2.0	0.7	6.1	9.7	11.1	12.9	13.9	14.2	15.2	15.5	15.9	16.3	16.1	15.5	14.7	12.3	8.9	7.3	6.7	8.8	16.3	-2.2
28	6.3	5.0	3.0	2.4	2.1	1.5	3.1	6.6	12.4	14.5	14.8	15.5	15.2	16.4	16.5	16.2	16.1	13.6	12.6	11.6	10.9	8.7	7.1	5.9	9.9	16.5	1.5
29	4.2	3.2	1.8	0.4	-0.2	0.1	3.3	7.7	12.3	14.4	15.5	16.5	16.9	16.5	17.7	17.8	18.0	17.8	16.6	15.2	13.4	11.0	9.7	9.5	10.8	18.0	-0.2
30	8.6	7.4	6.4	5.3	4.7	4.3	6.6	11.8	15.2	16.7	17.6	18.0	18.5	18.6	16.3	16.8	16.3	17.4	16.9	15.6	13.1	12.1	10.5	8.3	12.6	18.6	4.3
31	7.4	7.3	6.7	6.2	5.6	6.4	9.3	15.1	17.7	19.1	20.3	21.5	22.4	23.1	23.5	23.3	20.8	13.0	13.0	13.9	12.5	10.7	9.1	9.8	14.1	23.5	5.6
Avg	2.6	2.0	1.4	0.9	0.7	0.6	2.3	5.6	8.7	10.2	11.0	11.6	12.1	12.6	12.8	12.9	12.9	12.4	11.5	9.9	8.0	6.2	4.7	3.6	7.4	14.0	-0.7
Max	9.0	9.1	10.9	11.5	10.4	14.8	15.6	15.1	17.7	19.3	20.3	21.5	22.4	23.1	23.5	23.3	22.8	22.6	22.3	17.8	14.3	12.6	11.2	10.6	14.1	23.5	5.6
Min	-4.2	-4.7	-5.8	-5.7	-5.5	-6.2	-4.2	-2.0	1.1	1.3	2.0	2.3	0.2	0.3	-0.2	0.4	1.6	1.8	1.4	0.7	0.6	-1.1	-2.3	-3.3	1.1	4.5	-6.2

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
June 2017

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	9.2	8.5	6.8	6.7	7.1	6.9	8.8	11.6	15.3	18.0	19.3	20.6	20.0	20.7	21.6	21.3	20.2	15.5	14.3	13.6	12.9	11.4	10.3	10.0	13.8	21.6	6.7
2	9.0	9.1	8.3	7.0	6.1	8.6	9.5	10.3	10.8	12.1	13.4	14.3	15.2	16.2	16.6	16.8	17.2	17.5	16.9	15.2	12.6	8.3	6.2	4.4	11.7	17.5	4.4
3	3.2	1.9	1.0	0.1	-0.4	0.0	3.4	9.6	15.5	17.3	18.6	20.0	20.9	21.1	21.2	22.0	22.1	21.9	21.1	18.0	15.8	14.0	11.8	10.3	12.9	22.1	-0.4
4	9.4	8.0	9.0	8.1	8.1	8.6	10.2	15.2	20.5	22.6	23.7	24.6	25.1	25.0	24.8	17.0	17.9	19.2	17.4	16.6	16.2	15.3	13.8	11.7	16.2	25.1	8.0
5	11.3	10.7	8.9	7.9	7.8	7.8	7.9	8.6	9.4	10.0	11.1	11.9	12.6	13.7	14.4	15.1	15.0	14.8	13.7	12.4	10.1	7.6	5.4	3.4	10.5	15.1	3.4
6	2.5	1.7	1.5	1.6	0.8	0.5	4.7	10.5	12.6	13.8	14.8	15.8	16.6	17.1	17.5	17.4	17.1	16.3	15.6	14.9	14.1	13.5	13.2	12.6	11.1	17.5	0.5
7	11.8	10.8	9.6	8.9	8.4	9.0	12.2	14.4	16.0	17.7	19.3	20.7	22.0	23.0	23.3	23.8	23.6	22.4	20.9	17.9	13.9	12.9	12.3	12.2	16.1	23.8	8.4
8	11.3	9.7	9.1	7.7	6.8	7.3	10.1	14.9	20.0	21.6	Au	Au	Au	Au	Au	25.0	25.1	25.1	25.3	23.8	18.2	15.2	12.5	10.8	15.8	25.3	6.8
9	8.5	7.3	6.2	4.9	5.8	6.5	11.1	11.2	11.2	11.9	13.1	12.3	12.1	8.9	9.0	8.9	8.1	8.3	8.2	7.9	7.6	7.2	6.7	6.0	8.7	13.1	4.9
10	4.7	3.1	1.8	1.2	0.2	0.7	3.0	6.5	8.0	9.2	9.1	9.4	9.7	8.2	8.5	10.1	9.8	6.8	7.0	6.7	5.6	2.8	1.6	0.3	5.6	10.1	0.2
11	-0.1	-0.7	-1.5	-2.3	-2.9	-2.3	0.6	5.0	6.5	7.7	9.0	10.3	11.5	12.7	13.4	14.5	15.0	15.3	14.8	10.9	7.6	5.9	4.2	3.3	6.6	15.3	-2.9
12	3.3	4.7	9.2	6.1	9.3	11.3	11.2	12.0	13.3	13.2	13.2	16.1	18.9	18.8	19.3	19.3	18.7	17.4	9.0	8.7	9.1	8.9	8.7	8.6	12.0	19.3	3.3
13	8.3	8.4	7.5	4.0	1.7	1.9	2.3	3.2	3.9	4.8	5.0	5.5	6.1	6.8	8.0	8.4	7.7	7.1	6.8	5.9	5.7	5.6	5.3	5.3	5.6	8.4	1.7
14	5.3	5.4	5.3	5.1	5.0	5.2	5.6	6.6	7.7	9.0	9.9	11.0	12.0	12.8	13.4	13.8	14.3	14.3	14.0	13.0	11.4	11.2	11.8	11.2	9.8	14.3	5.0
15	10.0	9.5	8.2	5.0	3.6	2.2	5.4	7.8	9.3	10.7	11.8	12.6	13.0	13.3	13.6	13.4	13.6	13.4	12.9	12.2	11.7	10.5	10.4	9.9	10.2	13.6	2.2
16	9.7	9.8	9.9	10.0	10.3	10.6	10.9	10.7	11.3	11.6	12.2	13.3	13.8	13.6	13.5	13.6	12.4	10.4	11.1	10.6	10.3	9.8	9.2	8.6	11.1	13.8	8.6
17	8.1	7.6	7.3	7.1	6.9	6.6	7.7	8.7	8.9	9.2	9.1	9.8	10.7	11.6	12.6	12.9	13.4	13.8	13.6	12.7	9.2	5.8	4.7	4.3	9.3	13.8	4.3
18	4.2	4.1	4.3	4.6	5.7	8.8	9.3	9.4	9.9	10.3	11.0	10.8	11.6	12.9	13.5	13.8	13.6	13.6	13.6	12.9	12.1	10.6	9.0	7.0	9.9	13.8	4.1
19	5.1	3.7	2.7	1.7	0.9	1.6	5.0	9.9	13.0	14.3	15.4	16.3	17.5	18.3	19.4	20.0	20.8	21.1	21.0	20.3	16.3	13.3	12.0	11.8	12.6	21.1	0.9
20	11.5	12.5	12.4	11.2	10.0	9.5	10.8	12.5	14.9	17.3	18.5	18.9	20.2	21.2	22.0	21.9	21.8	22.5	22.3	22.1	20.1	20.3	18.8	17.9	17.1	22.5	9.5
21	16.2	15.7	15.2	14.1	13.5	13.3	14.0	15.0	15.7	16.1	16.9	17.5	18.6	19.3	19.9	20.2	20.0	19.4	18.5	17.0	15.0	13.2	9.8	6.1	15.8	20.2	6.1
22	5.1	2.7	1.4	0.9	-0.3	-0.2	3.0	8.9	11.6	12.1	12.5	12.4	12.8	12.9	12.8	12.8	11.6	10.7	9.8	9.2	7.9	5.1	2.7	1.3	7.5	12.9	-0.3
23	0.9	-0.4	-1.4	-2.0	-2.5	-1.9	0.5	4.3	8.5	10.5	11.7	12.2	13.0	14.0	14.3	15.2	14.7	13.4	13.1	11.9	11.2	9.4	7.5	7.3	7.7	15.2	-2.5
24	5.1	4.0	2.7	1.6	0.9	1.1	4.2	8.7	12.3	13.5	14.5	15.4	16.0	16.8	17.0	17.5	17.1	17.0	17.2	14.9	13.1	11.7	11.2	11.2	11.0	17.5	0.9
25	10.4	9.6	7.3	5.3	4.7	4.2	6.6	11.3	14.2	16.3	17.2	18.3	18.8	19.6	20.5	21.1	21.7	21.8	21.6	19.8	16.5	14.9	13.3	11.4	14.4	21.8	4.2
26	9.8	8.4	6.6	5.6	4.2	5.6	9.0	14.3	19.4	22.0	23.4	25.0	26.0	26.6	26.9	25.5	26.2	26.9	26.6	23.4	16.8	16.4	19.0	17.1	17.9	26.9	4.2
27	14.3	12.5	12.2	11.6	10.5	9.4	10.0	12.8	15.7	15.4	14.9	15.3	16.8	17.2	18.4	19.1	19.7	19.6	19.2	16.4	12.4	10.4	9.1	8.0	14.2	19.7	8.0
28	7.2	6.2	4.6	4.1	3.1	2.8	5.7	10.2	14.4	15.2	16.3	16.9	16.8	17.2	18.3	18.1	17.7	17.2	16.8	15.7	14.4	12.4	9.9	7.7	12.0	18.3	2.8
29	7.7	7.0	5.8	4.3	3.6	4.3	5.3	9.3	9.4	10.2	11.4	12.3	12.8	13.2	13.7	14.2	13.3	13.3	13.1	12.4	10.0	6.7	5.1	3.7	9.3	14.2	3.6
30	2.7	1.7	0.9	0.3	-0.3	-0.1	2.6	7.9	12.7	14.5	15.7	16.5	17.4	18.5	19.1	19.8	20.2	20.4	20.3	18.9	13.7	11.2	9.5	8.1	11.3	20.4	-0.3
Avg	7.5	6.8	6.1	5.1	4.6	5.0	7.0	10.0	12.4	13.6	14.2	15.0	15.8	16.2	16.8	17.1	17.0	16.5	15.9	14.5	12.4	10.7	9.5	8.4	11.6	17.8	3.5
Max	16.2	15.7	15.2	14.1	13.5	13.3	14.0	15.2	20.5	22.6	23.7	25.0	26.0	26.6	26.9	25.5	26.2	26.9	26.6	23.8	20.1	20.3	19.0	17.9	17.9	26.9	9.5
Min	-0.1	-0.7	-1.5	-2.3	-2.9	-2.3	0.5	3.2	3.9	4.8	5.0	5.5	6.1	6.8	8.0	8.4	7.7	6.8	6.8	5.9	5.6	2.8	1.6	0.3	5.6	8.4	-2.9

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
April 2017

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	-2.7	-4.0	-4.9	-5.7	-5.5	-5.8	-6.3	-3.7	-0.1	4.0	6.5	7.8	8.3	8.9	10.0	10.7	10.5	10.1	9.5	8.9	8.3	7.4	6.4	5.6	3.5	10.7	-6.3
2	4.7	3.8	3.0	2.8	2.4	1.6	0.1	1.0	2.8	4.6	5.3	5.7	7.3	7.3	7.7	7.4	6.4	5.2	3.8	1.5	-0.1	-0.9	-2.1	-2.5	3.3	7.7	-2.5
3	-2.8	-3.1	-3.5	-3.7	-4.5	-5.4	-6.7	-4.0	-2.4	-1.5	-1.4	-0.8	0.9	-0.6	-0.4	-0.8	-1.9	-2.2	-2.7	-3.0	-3.2	-3.5	-4.0	-4.0	-2.7	0.9	-6.7
4	-4.1	-4.1	-4.2	-4.4	-3.8	-4.1	-4.2	-4.1	-2.2	-0.9	0.5	1.8	3.1	4.1	4.6	5.0	5.0	4.5	2.2	-1.2	-2.7	-5.4	-6.8	-7.8	-1.2	5.0	-7.8
5	-8.2	-8.6	-9.2	-8.8	-7.3	-6.4	-6.2	-4.2	1.7	5.8	7.0	7.8	8.1	8.8	9.3	8.9	8.1	8.4	6.9	4.5	1.9	-0.1	-1.9	-2.8	1.0	9.3	-9.2
6	-3.1	-3.2	-2.4	-2.3	-2.9	-2.8	-1.1	0.9	8.0	10.4	10.7	12.2	12.9	13.8	15.6	14.5	14.8	14.1	13.0	11.7	10.6	10.8	9.0	7.4	7.2	15.6	-3.2
7	6.8	4.6	3.2	0.8	-0.3	-1.3	-0.9	4.4	9.6	12.7	12.9	13.1	13.5	10.8	6.6	5.9	5.3	4.9	4.7	5.6	5.6	4.5	3.5	1.1	5.7	13.5	-1.3
8	0.9	-0.1	-1.4	-1.6	-2.4	-3.1	-2.9	-1.6	0.9	5.5	8.1	7.9	9.1	8.7	7.5	7.1	2.9	0.9	1.0	0.6	0.6	0.3	-0.1	-0.4	2.0	9.1	-3.1
9	-0.8	-1.2	-1.7	-1.7	-1.9	-2.1	-2.3	-2.3	-2.3	-2.1	-2.0	-2.0	-2.1	-1.8	-1.4	-1.0	-1.0	-0.9	-1.9	-3.6	-6.0	-8.8	-11.5	-12.6	-3.1	-0.8	-12.6
10	-13.8	-14.9	-15.1	-15.2	-14.8	-14.8	-15.0	-12.6	-7.0	-2.0	1.3	2.1	3.0	3.3	3.5	4.1	2.0	0.7	-0.5	-1.4	-2.5	-3.2	-3.4	-5.2	-5.1	4.1	-15.2
11	-6.9	-7.6	-8.1	-7.6	-8.6	-7.5	-6.6	-3.3	-0.4	0.9	1.8	2.5	3.4	4.0	4.7	5.6	6.0	5.7	4.3	2.4	1.4	1.8	3.2	1.8	-0.3	6.0	-8.6
12	0.6	0.2	0.0	-0.2	0.0	0.1	0.4	1.3	3.4	4.8	6.5	7.7	8.1	9.1	9.5	9.4	8.8	7.6	7.4	7.0	7.1	6.5	6.3	6.2	4.9	9.5	-0.2
13	5.8	5.1	4.6	3.3	2.5	3.6	2.3	8.3	11.5	14.4	16.8	17.4	17.4	17.3	17.5	16.3	12.1	10.7	8.0	5.8	4.9	3.1	1.9	0.9	8.8	17.5	0.9
14	0.6	0.5	0.4	0.1	-0.1	-0.6	-0.7	-0.8	-0.2	0.7	2.6	3.7	4.6	5.0	5.2	5.3	5.3	4.6	3.6	2.2	1.5	1.1	0.0	-1.1	1.8	5.3	-1.1
15	-0.8	-1.4	-1.6	-1.8	-2.1	-2.4	-2.4	-1.8	-1.3	0.1	1.0	2.3	3.7	4.3	3.6	3.5	3.4	3.0	2.1	0.6	-0.4	-2.0	-1.5	-1.6	0.3	4.3	-2.4
16	-2.7	-4.7	-5.1	-6.5	-6.7	-7.3	-6.4	-2.8	1.1	2.5	3.5	4.7	5.3	5.9	6.4	6.9	7.6	7.1	5.2	3.9	4.0	3.3	1.9	1.3	1.2	7.6	-7.3
17	0.5	0.3	1.1	1.4	1.9	2.6	3.2	2.4	3.2	2.4	3.7	4.6	6.9	5.9	3.2	5.2	7.7	6.6	6.4	5.3	4.2	2.3	-0.7	-1.7	3.3	7.7	-1.7
18	-2.6	-3.4	-3.1	-3.4	-3.9	-4.3	-3.9	-0.6	4.5	7.2	7.9	9.3	10.0	10.6	10.8	11.2	11.0	10.3	9.8	7.9	6.0	4.3	2.0	0.4	4.1	11.2	-4.3
19	0.2	0.3	0.4	0.5	0.4	0.0	-1.5	-0.6	1.7	3.2	4.9	5.8	7.1	8.1	8.8	9.4	9.1	9.6	8.2	3.9	0.9	-0.7	-3.8	-4.4	3.0	9.6	-4.4
20	-4.8	-5.8	-6.0	-6.6	-7.2	-6.4	-4.5	0.1	6.3	9.1	10.7	11.3	11.8	11.2	11.3	11.0	8.1	6.8	5.9	4.3	3.6	3.2	2.2	0.6	3.2	11.8	-7.2
21	0.3	0.0	0.0	0.0	-0.2	-0.2	-0.2	-0.1	0.2	0.6	1.1	1.9	2.8	4.1	3.9	3.6	2.5	2.0	1.5	0.7	0.4	0.2	0.2	0.0	1.1	4.1	-0.2
22	-0.2	-0.2	-0.1	0.0	0.0	0.1	0.6	1.4	2.0	3.2	5.5	7.5	8.5	9.5	10.6	11.5	12.1	11.6	9.9	7.1	6.9	6.7	4.1	3.2	5.1	12.1	-0.2
23	1.7	0.3	-0.3	0.2	-1.4	0.5	0.2	3.3	6.2	8.4	6.3	5.2	6.4	8.4	7.9	4.3	4.3	4.8	5.3	3.7	1.3	-0.1	-0.7	-2.0	3.1	8.4	-2.0
24	-2.6	-2.4	-2.1	-1.9	-1.8	-1.5	-0.8	0.7	2.8	4.5	5.4	6.1	6.0	7.3	8.5	8.5	7.5	5.8	4.8	3.2	2.0	1.3	0.9	1.0	2.6	8.5	-2.6
25	1.4	0.6	0.2	0.4	0.5	0.5	1.1	2.1	3.2	2.0	2.9	4.4	4.4	3.9	5.8	5.0	5.9	5.0	3.6	3.1	1.6	0.0	-0.3	-1.8	2.3	5.9	-1.8
26	-1.1	-1.3	-1.1	-0.8	-0.7	-0.6	-0.6	0.3	1.6	3.3	3.9	3.9	5.7	6.9	4.8	2.6	3.3	3.7	3.6	2.3	1.5	1.1	-0.1	-0.4	1.7	6.9	-1.3
27	-0.8	-1.0	-0.6	0.0	0.4	0.2	0.3	0.8	1.1	1.7	2.2	3.2	3.7	1.4	0.4	1.0	0.7	0.6	0.4	-0.1	-0.4	-0.7	-0.8	-0.9	0.5	3.7	-1.0
28	-0.9	-0.8	-0.8	-0.9	-0.8	-0.8	-0.8	-0.3	1.1	2.3	3.1	2.9	3.6	4.0	4.4	5.2	4.8	3.6	2.8	0.0	-1.7	-2.8	-2.7	-1.6	1.0	5.2	-2.8
29	-1.7	-3.8	-3.3	-2.8	-3.9	-5.3	-3.0	-1.2	1.4	3.8	5.1	6.0	6.2	8.0	8.6	8.2	8.4	8.6	7.7	4.3	1.6	-0.2	-1.3	-4.4	2.0	8.6	-5.3
30	-5.2	-4.7	-3.3	2.2	2.0	0.5	0.3	0.6	1.4	1.5	2.1	3.4	5.0	7.9	5.8	7.0	7.0	7.6	6.1	4.6	4.1	3.9	3.8	2.7	2.8	7.9	-5.2
Avg	-1.4	-2.0	-2.2	-2.1	-2.4	-2.4	-2.3	-0.5	2.0	3.8	4.9	5.6	6.5	6.9	6.8	6.8	6.3	5.7	4.8	3.2	2.1	1.1	0.1	-0.8	2.1	7.9	-4.2
Max	6.8	5.1	4.6	3.3	2.5	3.6	3.2	8.3	11.5	14.4	16.8	17.4	17.4	17.3	17.5	16.3	14.8	14.1	13.0	11.7	10.6	10.8	9.0	7.4	8.8	17.5	0.9
Min	-13.8	-14.9	-15.1	-15.2	-14.8	-14.8	-15.0	-12.6	-7.0	-2.1	-2.0	-2.0	-2.1	-1.8	-1.4	-1.0	-1.9	-2.2	-2.7	-3.6	-6.0	-8.8	-11.5	-12.6	-5.1	-0.8	-15.2

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
May 2017

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	2.0	1.6	1.1	0.2	0.1	0.1	0.8	1.3	2.0	3.8	4.3	5.3	5.7	5.0	4.4	6.0	6.5	5.9	5.2	4.4	3.2	1.5	0.9	0.2	3.0	6.5	0.1
2	0.2	0.2	0.2	0.4	0.4	0.2	0.4	0.8	1.6	1.5	2.2	2.6	3.0	4.4	4.2	4.4	5.6	5.9	5.2	3.2	1.4	-0.8	-2.5	-3.2	1.7	5.9	-3.2
3	-4.9	-5.2	-6.3	-6.5	-6.3	-5.7	-4.1	0.2	4.2	6.1	7.4	9.2	10.7	12.5	13.6	14.1	14.8	15.2	14.2	12.1	9.9	7.1	3.9	1.9	4.9	15.2	-6.5
4	0.5	-0.3	-1.2	-1.5	-1.8	-2.7	0.6	6.2	11.6	13.6	15.6	17.2	18.5	19.6	20.4	21.0	21.2	20.9	20.1	14.5	10.8	8.0	6.5	4.6	10.2	21.2	-2.7
5	4.6	3.8	2.5	1.2	0.6	1.1	4.6	10.9	17.4	20.1	21.2	22.0	22.8	23.6	23.8	23.6	23.2	22.8	22.0	16.9	13.8	11.7	10.9	10.2	14.0	23.8	0.6
6	8.5	7.7	5.1	4.4	2.5	2.2	5.9	10.6	14.6	17.0	18.4	19.8	21.0	21.5	22.0	21.1	19.9	18.5	16.1	12.2	10.3	10.3	9.5	8.0	12.8	22.0	2.2
7	5.6	4.1	2.9	2.9	2.9	3.1	4.8	7.3	11.1	13.0	12.5	11.7	10.2	8.3	7.2	5.1	6.1	5.5	4.6	3.5	3.2	2.9	1.5	0.2	5.8	13.0	0.2
8	-0.6	-1.5	-2.0	-2.8	-3.7	-4.1	-2.6	0.4	3.7	5.5	6.9	8.1	9.3	10.6	11.6	12.4	12.8	12.9	12.1	7.7	7.7	5.8	4.6	3.1	4.9	12.9	-4.1
9	2.9	0.9	-0.4	-1.3	-3.1	-2.8	-0.6	4.1	9.1	11.3	12.8	13.7	14.2	14.5	15.0	14.8	14.9	14.6	12.3	10.3	6.2	5.2	2.6	0.7	7.2	15.0	-3.1
10	0.8	0.6	0.1	-1.6	-2.3	-2.6	0.8	7.0	12.1	13.7	14.5	15.5	16.7	17.6	18.1	18.8	19.2	18.8	18.4	14.4	13.1	10.6	7.3	5.1	9.9	19.2	-2.6
11	4.1	3.6	2.9	0.6	-0.4	-0.9	2.8	8.6	13.6	16.9	19.0	19.8	20.8	21.1	21.6	22.3	21.9	20.8	16.2	13.2	11.1	9.7	7.6	5.4	11.8	22.3	-0.9
12	3.9	6.2	9.6	10.2	9.0	6.7	7.7	14.9	17.9	19.7	21.0	22.0	22.1	22.7	23.4	22.9	19.9	17.7	16.9	12.5	10.7	6.6	3.6	2.3	13.8	23.4	2.3
13	2.0	1.7	1.5	1.5	1.2	0.7	1.3	2.7	3.3	4.9	5.2	3.5	0.3	0.6	0.0	0.8	1.9	2.1	1.6	0.5	0.1	-1.8	-2.9	-3.4	1.2	5.2	-3.4
14	-4.7	-5.1	-6.3	-5.7	-6.1	-6.6	-3.6	0.0	2.4	4.1	5.4	4.8	5.1	5.3	6.8	7.3	7.4	7.8	6.4	4.2	2.3	1.6	1.0	0.1	1.4	7.8	-6.6
15	0.0	0.0	0.0	0.0	0.1	0.7	1.9	3.4	4.0	4.5	5.3	6.5	7.3	8.5	9.0	9.5	8.8	7.9	5.0	4.2	2.0	0.2	-1.6	-3.0	3.5	9.5	-3.0
16	-3.2	-4.9	-5.7	-6.0	-6.2	-5.7	-2.2	3.1	8.2	9.9	10.2	10.8	11.7	11.8	10.7	6.0	6.5	6.8	6.5	6.6	5.8	5.2	4.9	4.6	4.0	11.8	-6.2
17	4.3	4.3	4.6	4.9	4.2	4.0	3.9	4.3	4.8	5.6	5.6	6.2	4.6	5.2	4.8	5.6	6.0	5.6	4.0	3.4	3.3	3.1	2.3	2.2	4.4	6.2	2.2
18	2.4	3.5	3.3	3.1	2.8	2.4	3.3	3.6	4.2	5.0	5.5	6.0	6.3	7.1	7.7	8.6	8.8	7.9	6.6	4.8	2.0	0.4	-0.5	-1.7	4.3	8.8	-1.7
19	-3.2	-3.8	-4.4	-5.1	-6.0	-6.0	-4.1	-1.7	1.4	5.7	8.6	10.2	11.0	11.0	11.1	11.3	11.6	11.1	10.3	8.2	6.4	4.3	3.7	1.5	3.9	11.6	-6.0
20	0.7	0.9	-0.1	-0.8	-1.5	-1.9	1.3	5.5	9.8	10.5	10.4	9.7	10.1	9.3	6.7	8.7	9.1	8.8	7.3	6.5	4.2	2.5	1.0	0.0	4.9	10.5	-1.9
21	-0.6	-1.5	-2.3	-2.9	-3.5	-3.3	-0.8	3.4	8.6	10.9	11.4	11.9	12.8	13.5	14.8	15.0	14.5	14.1	12.8	12.1	10.0	6.0	4.1	2.8	6.8	15.0	-3.5
22	1.9	0.5	2.5	3.9	3.7	4.2	6.9	9.8	10.6	10.7	9.8	10.9	12.6	13.6	14.5	14.5	14.1	13.8	13.6	11.6	6.9	5.2	3.5	2.3	8.4	14.5	0.5
23	1.8	-0.5	0.0	-0.9	-2.3	-1.8	2.3	7.4	12.4	14.6	16.1	17.3	18.2	19.1	20.0	20.6	20.7	20.7	19.6	15.3	12.3	9.9	8.4	5.0	10.7	20.7	-2.3
24	4.6	3.1	2.3	2.8	7.3	14.0	15.5	14.6	14.8	14.7	14.0	13.5	13.2	13.1	13.1	12.5	11.5	10.1	8.6	7.3	5.9	5.1	4.6	4.5	9.6	15.5	2.3
25	3.1	1.8	1.2	0.5	0.5	0.4	0.5	1.1	1.9	2.7	3.9	5.2	6.8	8.3	8.2	7.9	7.1	6.8	6.7	5.3	3.9	3.3	2.2	0.8	3.8	8.3	0.4
26	0.6	1.1	1.1	0.4	-0.1	-0.2	2.6	5.7	7.9	9.3	10.2	10.6	11.5	11.9	12.0	12.0	12.1	11.7	10.6	9.4	7.5	6.0	3.9	3.3	6.7	12.1	-0.2
27	2.5	1.2	-0.2	-2.8	-2.9	-2.2	1.0	6.7	10.3	11.8	13.8	14.8	14.8	16.4	16.2	16.7	17.1	16.3	15.0	13.9	11.4	8.3	7.0	6.3	8.9	17.1	-2.9
28	5.9	4.0	2.1	1.3	1.2	0.6	2.9	6.9	12.9	15.4	15.2	16.0	15.5	17.0	17.1	16.6	16.4	13.8	12.4	11.1	10.3	8.3	7.0	5.5	9.8	17.1	0.6
29	4.0	2.4	0.7	-0.6	-1.4	-0.5	3.6	8.2	12.7	15.1	16.3	17.5	17.9	17.0	18.0	18.0	18.1	17.9	16.4	15.0	13.0	10.6	9.6	9.4	10.8	18.1	-1.4
30	8.6	7.2	6.1	4.9	4.3	3.5	6.8	12.2	15.6	17.3	18.4	19.0	19.1	19.4	17.0	17.7	16.7	17.9	17.0	15.0	12.4	10.6	7.7	6.6	12.5	19.4	3.5
31	6.3	6.4	5.6	4.5	4.0	5.3	9.6	15.5	18.4	19.9	21.2	22.4	23.4	24.0	24.1	23.8	20.7	12.8	13.0	13.8	12.5	10.7	8.7	9.6	14.0	24.1	4.0
Avg	2.1	1.4	0.9	0.3	-0.1	0.1	2.4	6.0	9.1	10.8	11.7	12.4	12.8	13.3	13.5	13.5	13.4	12.7	11.5	9.5	7.5	5.7	4.2	3.1	7.4	14.6	-1.4
Max	8.6	7.7	9.6	10.2	9.0	14.0	15.5	15.5	18.4	20.1	21.2	22.4	23.4	24.0	24.1	23.8	23.2	22.8	22.0	16.9	13.8	11.7	10.9	10.2	14.0	24.1	4.0
Min	-4.9	-5.2	-6.3	-6.5	-6.3	-6.6	-4.1	-1.7	1.4	1.5	2.2	2.6	0.3	0.6	0.0	0.8	1.9	2.1	1.6	0.5	0.1	-1.8	-2.9	-3.4	1.2	5.2	-6.6

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
June 2017

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	8.3	7.9	6.1	6.3	6.9	6.8	8.9	11.9	15.7	18.3	19.8	21.1	20.3	21.0	21.9	21.2	20.0	15.8	14.4	13.3	12.6	11.1	9.7	9.0	13.7	21.9	6.1
2	8.1	8.4	7.7	6.6	5.6	8.3	9.7	10.5	11.0	12.9	14.5	15.5	16.4	17.2	17.6	17.7	18.0	18.0	17.0	14.2	10.7	7.1	5.9	3.8	11.8	18.0	3.8
3	2.4	1.2	0.1	-1.0	-1.8	-0.4	3.7	10.0	16.2	18.2	19.6	21.0	21.9	21.8	21.8	22.7	22.7	22.1	20.5	17.8	15.2	13.5	11.0	9.3	12.9	22.7	-1.8
4	7.9	6.6	8.4	7.2	7.2	8.0	10.2	15.6	20.9	23.3	24.5	25.4	25.7	25.4	24.8	16.6	18.0	19.2	17.3	16.5	15.9	14.9	13.5	11.6	16.0	25.7	6.6
5	11.3	10.7	8.9	7.7	7.7	7.7	8.1	8.8	9.8	10.6	11.9	13.1	13.8	14.8	15.4	16.0	15.7	15.3	14.1	12.4	9.7	6.5	4.3	2.2	10.7	16.0	2.2
6	1.7	0.7	0.6	0.1	-0.4	0.4	5.0	11.0	13.5	14.9	16.1	17.1	17.9	18.4	18.6	18.2	17.7	16.7	15.7	14.9	14.0	12.9	12.9	12.2	11.3	18.6	-0.4
7	11.3	10.2	8.6	8.2	7.7	8.8	12.5	14.8	16.8	18.6	20.2	21.6	22.9	23.9	23.9	24.3	24.1	22.5	20.7	17.6	13.6	12.9	12.3	12.2	16.3	24.3	7.7
8	11.2	9.6	9.0	7.0	5.7	6.6	10.3	15.2	20.4	22.1	Au	Au	Au	Au	Au	25.1	24.9	24.6	24.8	22.5	17.8	13.7	11.2	9.6	15.3	25.1	5.7
9	7.7	6.7	5.4	4.2	4.9	6.4	11.1	11.1	11.3	12.4	14.1	12.8	12.6	9.2	9.3	9.0	8.3	8.5	8.4	7.9	7.6	7.1	6.7	5.9	8.7	14.1	4.2
10	4.4	2.6	1.3	0.9	-0.2	0.8	3.2	6.9	8.6	10.1	9.7	10.4	10.2	8.7	9.0	11.0	10.2	6.9	7.3	6.5	5.2	2.4	1.4	0.2	5.7	11.0	-0.2
11	-0.2	-1.0	-2.0	-2.7	-3.7	-2.7	0.9	5.5	7.2	8.6	9.8	11.1	12.4	13.5	14.2	15.1	15.6	15.8	14.8	10.2	7.4	5.6	3.6	2.6	6.7	15.8	-3.7
12	2.0	2.9	7.4	4.5	8.2	11.1	11.1	12.1	13.5	13.5	13.4	16.6	19.7	19.5	20.1	19.6	19.0	17.4	9.0	8.8	9.2	8.9	8.6	8.6	11.9	20.1	2.0
13	8.3	8.3	7.6	4.2	1.9	2.2	2.7	3.7	4.5	5.4	5.5	5.9	6.5	7.2	8.5	8.5	7.7	7.4	6.9	6.0	5.7	5.7	5.4	5.4	5.9	8.5	1.9
14	5.4	5.4	5.3	5.1	5.0	5.1	5.5	6.7	8.1	9.6	10.8	12.0	13.0	13.7	14.2	14.5	14.9	14.7	14.2	12.4	10.2	10.5	11.5	10.9	9.9	14.9	5.0
15	9.2	8.8	7.4	3.5	2.4	2.3	5.7	8.1	9.6	11.3	12.3	13.2	13.5	13.8	14.0	13.7	14.0	13.6	12.8	11.8	10.8	9.9	9.9	9.4	10.0	14.0	2.3
16	9.4	9.4	9.5	9.8	10.1	10.4	10.8	10.8	11.6	11.8	12.5	13.9	14.5	13.9	13.8	13.8	12.4	10.5	11.1	10.5	10.1	9.5	8.8	8.2	11.1	14.5	8.2
17	7.8	7.3	7.1	6.8	6.6	6.4	8.1	9.2	9.3	9.8	9.4	10.4	11.5	12.3	13.5	13.4	13.9	14.3	13.9	12.1	7.8	5.3	4.6	4.2	9.4	14.3	4.2
18	4.1	4.2	4.3	4.5	5.5	8.3	9.3	9.8	10.6	10.7	11.4	11.0	11.8	13.4	14.0	14.2	14.0	13.8	13.6	12.7	11.7	10.0	8.3	6.3	9.9	14.2	4.1
19	4.7	3.3	2.2	0.8	0.3	1.6	5.4	10.5	13.6	15.1	16.2	17.0	18.5	19.2	20.2	20.6	21.4	21.2	21.0	18.9	14.8	12.8	11.3	11.0	12.6	21.4	0.3
20	10.7	11.5	11.5	10.7	9.5	9.4	11.0	12.8	15.2	17.6	18.7	19.3	20.8	21.4	22.3	21.8	21.9	22.6	21.9	21.5	18.8	19.8	18.1	16.9	16.9	22.6	9.4
21	14.5	13.8	13.9	12.4	12.6	12.8	14.1	15.3	16.2	16.8	17.7	18.4	19.4	20.1	20.7	20.8	20.4	19.7	18.5	16.5	13.8	11.3	8.4	4.9	15.5	20.8	4.9
22	3.3	2.2	0.8	0.2	-1.1	-0.3	3.3	9.5	12.3	12.8	13.5	13.0	13.7	13.8	13.4	13.3	11.6	11.1	10.2	9.2	7.2	4.2	1.9	0.9	7.5	13.8	-1.1
23	0.2	-0.9	-2.3	-2.5	-3.3	-2.0	0.8	4.7	9.0	11.2	12.7	12.9	13.8	14.9	15.3	16.1	15.3	13.6	13.2	11.5	10.6	8.6	6.9	6.8	7.8	16.1	-3.3
24	3.6	2.6	1.7	1.0	-0.2	0.6	4.7	9.1	12.8	14.0	15.1	16.3	17.0	17.7	17.6	18.1	17.1	17.1	17.5	14.8	13.0	11.5	11.2	10.9	11.0	18.1	-0.2
25	10.2	8.6	6.9	5.2	4.6	4.4	7.0	11.8	14.7	17.0	17.8	19.0	19.6	20.4	21.3	21.9	22.3	22.2	21.6	19.4	15.8	14.1	12.5	9.8	14.5	22.3	4.4
26	7.4	5.8	4.8	3.6	2.4	4.1	9.2	14.6	19.9	22.6	24.2	25.8	26.9	27.1	27.2	24.9	26.5	26.9	26.3	21.6	15.0	14.8	18.3	16.6	17.4	27.2	2.4
27	14.1	12.5	12.1	11.5	10.2	9.3	10.1	13.3	16.0	15.5	15.2	15.7	17.4	17.7	19.0	19.6	19.9	19.7	19.2	15.9	12.0	10.4	8.9	7.4	14.3	19.9	7.4
28	6.9	5.5	3.4	2.9	2.1	2.3	6.1	10.6	14.9	16.0	17.0	17.7	17.1	17.5	19.1	18.4	18.0	17.0	16.4	15.3	13.1	12.0	9.0	6.8	11.9	19.1	2.1
29	6.4	6.1	5.0	3.5	2.7	4.0	5.4	9.8	9.9	10.7	12.2	13.2	13.9	14.3	14.7	15.1	14.0	13.9	13.5	12.1	9.0	5.8	4.2	2.5	9.2	15.1	2.5
30	1.9	0.3	-0.3	-1.0	-1.8	-0.9	3.0	8.4	13.4	15.4	16.5	17.3	18.2	19.4	19.9	20.6	20.9	20.9	20.6	18.5	12.9	11.0	9.2	7.4	11.3	20.9	-1.8
Avg	6.8	6.0	5.4	4.4	3.9	4.7	7.2	10.4	12.9	14.2	14.9	15.8	16.6	16.9	17.4	17.5	17.3	16.8	15.9	14.1	11.7	10.1	9.0	7.8	11.5	18.4	2.8
Max	14.5	13.8	13.9	12.4	12.6	12.8	14.1	15.6	20.9	23.3	24.5	25.8	26.9	27.1	27.2	25.1	26.5	26.9	26.3	22.5	18.8	19.8	18.3	16.9	17.4	27.2	9.4
Min	-0.2	-1.0	-2.3	-2.7	-3.7	-2.7	0.8	3.7	4.5	5.4	5.5	5.9	6.5	7.2	8.5	8.5	7.7	6.9	6.9	6.0	5.2	2.4	1.4	0.2	5.7	8.5	-3.7

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
April 2017

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	1.03	1.20	1.33	1.64	1.04	0.67	0.71	-0.05	-0.21	-0.37	-0.65	-0.73	-0.63	-0.66	-0.79	-0.62	-0.25	0.06	0.27	0.29	0.24	0.21	0.16	0.14	0.17	1.64	-0.79
2	0.18	0.27	0.34	0.26	0.30	0.33	0.55	0.01	-0.21	-0.58	-0.78	-0.84	-1.20	-1.10	-1.04	-0.87	-0.57	-0.22	0.05	0.42	0.32	0.18	0.21	0.16	-0.16	0.55	-1.20
3	0.08	0.01	0.02	0.10	0.36	0.50	0.85	-0.23	-0.65	-0.81	-0.61	-0.61	-1.30	-0.58	-0.66	-0.59	-0.37	-0.27	-0.15	-0.10	-0.07	-0.03	-0.08	-0.04	-0.22	0.85	-1.30
4	-0.05	-0.08	-0.02	0.11	-0.03	0.17	0.04	-0.06	-0.42	-0.53	-0.73	-0.83	-1.05	-1.15	-1.15	-0.99	-0.71	-0.38	0.80	0.78	0.63	1.69	1.79	1.57	-0.03	1.79	-1.15
5	1.30	0.94	1.11	0.57	0.06	0.16	0.41	-0.29	-0.41	-0.81	-1.03	-1.24	-1.02	-1.13	-0.89	-0.68	-0.40	-0.25	0.10	0.91	1.53	0.25	0.81	0.79	0.03	1.53	-1.24
6	0.85	0.91	0.80	0.69	1.15	1.16	0.80	0.66	-0.15	-0.69	-0.54	-0.86	-0.83	-0.98	-1.21	-0.34	-0.13	0.04	0.20	0.19	0.70	0.46	1.77	2.52	0.30	2.52	-1.21
7	2.57	1.67	0.94	0.74	1.16	1.65	1.55	1.50	0.42	0.02	-0.13	-0.33	-0.56	-0.20	-0.29	0.07	0.13	0.05	0.28	0.36	0.38	0.67	0.50	0.47	0.57	2.57	-0.56
8	0.09	0.37	0.43	0.35	0.45	0.68	0.62	0.05	-0.30	-0.42	-0.71	-0.45	-0.64	-0.26	-0.05	-0.18	0.00	0.05	0.09	0.05	0.02	0.04	-0.07	-0.06	0.01	0.68	-0.71
9	-0.06	-0.06	-0.05	-0.05	-0.05	-0.04	-0.07	-0.09	-0.12	-0.11	-0.13	-0.16	-0.15	-0.16	-0.19	-0.18	-0.18	-0.02	0.57	0.85	1.26	1.41	1.69	1.35	0.22	1.69	-0.19
10	1.12	1.53	1.53	2.24	2.43	2.09	1.88	0.65	0.19	-0.07	-0.12	-0.02	-0.09	-0.14	-0.21	-0.39	-0.08	-0.18	-0.07	0.28	0.75	0.62	0.95	1.16	0.67	2.43	-0.39
11	0.59	0.55	0.48	0.47	0.64	0.84	0.62	-0.01	-0.27	-0.45	-0.57	-0.67	-0.69	-0.62	-0.52	-0.53	-0.46	-0.12	0.10	0.06	-0.02	0.42	0.13	0.09	0.00	0.84	-0.69
12	-0.07	-0.06	-0.05	-0.01	0.01	-0.01	-0.05	-0.16	-0.53	-0.70	-0.82	-0.66	-0.61	-0.68	-0.71	-0.52	-0.24	-0.21	-0.07	0.02	0.06	0.11	0.13	0.19	-0.23	0.19	-0.82
13	0.18	0.28	0.26	0.90	0.90	0.82	1.34	-0.15	-0.58	-0.78	-0.90	-1.02	-0.96	-0.67	-0.48	-0.21	0.02	-0.26	-0.03	0.20	0.18	-0.03	-0.06	-0.07	-0.05	1.34	-1.02
14	-0.05	-0.03	-0.04	-0.06	-0.04	-0.01	-0.01	-0.02	-0.06	-0.34	-0.78	-1.00	-1.08	-0.99	-0.98	-0.86	-0.76	-0.25	0.07	0.27	0.20	0.01	-0.09	-0.01	-0.29	0.27	-1.08
15	0.15	0.00	0.02	0.01	0.02	0.04	0.02	-0.04	-0.14	-0.50	-0.72	-0.86	-1.26	-1.17	-0.76	-0.74	-0.58	-0.35	-0.10	0.39	0.64	1.06	0.66	0.54	-0.15	1.06	-1.26
16	0.76	1.36	0.90	1.11	0.41	0.09	-0.09	-0.44	-0.72	-0.94	-1.07	-1.07	-0.94	-0.87	-0.74	-0.70	-0.62	-0.25	0.24	0.17	0.11	0.07	0.20	0.23	-0.12	1.36	-1.07
17	0.22	0.18	0.02	0.00	0.08	0.08	0.03	-0.20	-0.29	-0.32	-0.53	-0.52	-0.87	-0.52	-0.32	-0.62	-0.62	-0.02	0.03	0.21	0.44	0.79	0.81	0.46	-0.06	0.81	-0.87
18	0.45	0.64	0.32	0.60	0.72	0.76	0.53	-0.33	-0.42	-0.78	-0.87	-1.00	-0.99	-0.86	-0.68	-0.71	-0.53	-0.06	0.10	0.27	0.38	0.10	0.01	-0.01	-0.10	0.76	-1.00
19	-0.02	0.01	0.07	0.12	0.32	0.49	0.95	0.23	0.06	-0.12	-0.64	-0.74	-0.91	-0.96	-0.92	-0.83	-0.49	-0.52	0.31	0.61	0.24	0.37	0.98	1.35	-0.00	1.35	-0.96
20	0.82	0.99	1.33	1.44	1.84	0.91	0.05	0.00	-0.23	-0.62	-0.84	-0.93	-0.96	-0.50	-0.34	-0.18	-0.15	-0.23	-0.11	0.20	0.26	0.24	-0.02	-0.05	0.12	1.84	-0.96
21	-0.07	-0.08	-0.06	-0.04	-0.07	-0.04	-0.06	-0.08	-0.09	-0.10	-0.21	-0.43	-0.68	-0.99	-0.87	-0.71	-0.44	-0.39	-0.25	-0.15	-0.13	-0.14	-0.15	-0.14	-0.27	-0.04	-0.99
22	-0.07	-0.07	-0.11	-0.13	-0.10	-0.15	-0.19	-0.38	-0.47	-0.61	-0.94	-1.08	-1.02	-1.00	-1.11	-0.93	-0.75	-0.26	0.59	0.64	0.35	0.22	0.35	0.11	-0.30	0.64	-1.11
23	0.34	0.70	0.50	0.16	0.57	0.21	0.21	-0.15	-0.29	-0.32	-0.21	-0.31	-0.29	-0.74	-0.29	-0.04	-0.23	-0.20	-0.14	0.75	0.69	0.31	0.17	0.39	0.07	0.75	-0.74
24	0.55	0.31	0.21	0.30	0.31	0.10	0.00	-0.23	-0.32	-0.55	-0.58	-0.56	-0.45	-0.50	-0.60	-0.64	-0.44	-0.36	-0.19	-0.09	0.01	-0.10	0.04	-0.07	-0.16	0.55	-0.64
25	0.00	0.21	-0.03	0.05	-0.01	-0.06	-0.18	-0.25	-0.44	-0.38	-0.85	-0.73	-0.62	-0.91	-0.66	-0.39	-0.44	-0.68	-0.18	0.07	0.20	0.25	0.10	-0.05	-0.25	0.25	-0.91
26	-0.18	-0.17	-0.22	-0.12	-0.09	-0.14	-0.13	-0.23	-0.36	-0.48	-0.51	-0.51	-0.86	-0.99	-0.14	-0.32	-0.35	-0.30	-0.16	-0.08	0.05	0.00	0.24	0.13	-0.25	0.24	-0.99
27	0.22	0.14	-0.03	0.00	0.02	-0.02	-0.12	-0.23	-0.34	-0.52	-0.57	-0.73	-0.79	-0.40	-0.21	-0.51	-0.34	-0.28	-0.20	-0.08	-0.03	0.08	0.06	0.04	-0.20	0.22	-0.79
28	0.05	-0.04	-0.07	-0.04	-0.08	-0.12	-0.15	-0.23	-0.22	-0.55	-0.63	-0.53	-0.58	-0.56	-0.65	-0.83	-0.64	-0.21	-0.22	0.55	0.49	1.17	0.45	0.10	-0.15	1.17	-0.83
29	0.11	0.53	0.18	-0.09	-0.03	0.44	-0.20	-0.25	-0.41	-0.83	-0.95	-0.93	-0.72	-1.14	-1.02	-0.77	-0.68	-0.54	-0.03	0.65	0.42	0.22	0.25	1.36	-0.18	1.36	-1.14
30	1.42	0.84	0.43	0.55	0.15	-0.07	-0.09	-0.08	-0.02	-0.06	-0.14	-0.24	-0.30	-0.77	-0.53	-0.34	-0.20	-0.07	0.08	0.52	0.53	0.28	0.16	0.28	0.10	1.42	-0.77
Avg	0.42	0.44	0.35	0.40	0.41	0.38	0.33	-0.04	-0.27	-0.48	-0.63	-0.69	-0.77	-0.74	-0.63	-0.54	-0.38	-0.22	0.07	0.31	0.36	0.36	0.40	0.43	-0.03	1.09	-0.91
Max	2.57	1.67	1.53	2.24	2.43	2.09	1.88	1.50	0.42	0.02	-0.12	-0.02	-0.09	-0.14	-0.05	0.07	0.13	0.06	0.80	0.91	1.53	1.69	1.79	2.52	0.67	2.57	-0.19
Min	-0.18	-0.17	-0.22	-0.13	-0.10	-0.15	-0.20	-0.44	-0.72	-0.94	-1.07	-1.24	-1.30	-1.17	-1.21	-0.99	-0.76	-0.68	-0.25	-0.15	-0.13	-0.14	-0.15	-0.14	-0.30	-0.04	-1.30

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
May 2017

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	0.17	0.05	-0.04	0.01	-0.01	-0.12	-0.41	-0.60	-0.87	-0.83	-1.16	-0.92	-0.77	-0.43	-0.53	-0.57	-0.34	-0.15	-0.07	0.03	-0.11	-0.11	-0.06	-0.32	0.26	-1.16
2	-0.04	-0.03	-0.02	0.00	0.02	0.04	0.00	-0.07	-0.25	-0.20	-0.18	-0.27	-0.40	-0.55	-0.45	-0.44	-0.41	-0.25	-0.02	0.96	1.21	0.92	0.54	0.57	0.03	1.21	-0.55
3	1.20	0.75	1.06	1.48	0.76	0.56	-0.05	-0.36	-0.47	-0.78	-0.86	-0.99	-1.00	-1.11	-1.25	-0.97	-0.88	-0.66	-0.05	0.43	0.81	1.19	0.46	0.67	-0.00	1.48	-1.25
4	0.86	0.68	0.84	0.71	0.79	1.22	-0.09	-0.38	-0.55	-0.79	-1.11	-1.02	-0.97	-1.00	-0.94	-0.94	-0.68	-0.47	0.04	0.78	0.12	0.28	0.68	1.02	-0.04	1.22	-1.11
5	0.82	0.93	1.26	1.16	1.59	1.14	0.51	-0.33	-0.45	-0.80	-0.89	-1.03	-0.91	-1.04	-0.98	-0.71	-0.48	-0.22	0.30	0.92	0.48	0.94	0.27	0.35	0.12	1.59	-1.04
6	0.49	0.39	1.09	0.78	1.16	1.05	-0.20	-0.33	-0.39	-0.56	-0.67	-0.76	-0.88	-0.74	-0.68	-0.06	-0.51	-0.18	0.46	0.57	0.88	0.39	0.39	0.61	0.10	1.16	-0.88
7	0.95	0.57	1.16	0.59	0.56	0.35	-0.18	-0.33	-0.45	-0.74	-0.79	-0.83	-0.99	-0.45	-0.42	-0.25	-0.37	-0.38	-0.25	-0.18	-0.11	-0.03	0.36	0.95	-0.05	1.16	-0.99
8	0.42	0.23	0.16	0.44	0.31	-0.08	-0.18	-0.35	-0.57	-0.79	-1.02	-0.92	-0.91	-0.82	-0.77	-0.74	-0.64	-0.62	-0.14	0.79	0.43	0.67	0.58	0.88	-0.15	0.88	-1.02
9	1.61	1.14	0.66	0.69	1.26	0.55	-0.10	-0.33	-0.49	-0.83	-1.14	-1.20	-1.17	-1.07	-1.17	-1.09	-0.84	-0.65	0.07	0.37	0.77	0.36	0.70	0.93	-0.04	1.61	-1.20
10	0.60	0.28	0.28	0.68	1.43	0.91	-0.14	-0.34	-0.66	-0.77	-0.70	-0.68	-0.84	-0.90	-0.90	-0.74	-0.83	-0.53	-0.14	0.37	0.29	0.87	0.83	0.93	-0.03	1.43	-0.90
11	0.66	0.44	0.29	1.13	1.19	1.17	-0.04	-0.40	-0.40	-0.52	-0.78	-0.85	-0.98	-0.82	-0.58	-0.69	-0.32	0.00	0.35	0.58	0.24	0.26	0.67	0.85	0.06	1.19	-0.98
12	1.60	2.93	1.27	1.37	1.38	1.27	0.69	-0.10	-0.56	-0.81	-1.03	-1.12	-0.76	-0.87	-0.85	-0.50	-0.18	0.46	0.31	0.27	0.32	0.00	-0.12	-0.11	0.20	2.93	-1.12
13	-0.14	-0.14	-0.12	-0.10	-0.07	-0.01	-0.27	-0.67	-0.55	-0.89	-0.68	-0.42	-0.14	-0.24	-0.23	-0.42	-0.29	-0.37	-0.17	0.22	0.49	0.60	0.55	0.18	-0.16	0.60	-0.89
14	0.47	0.38	0.54	0.03	0.64	0.43	-0.30	-0.39	-0.50	-0.67	-1.00	-0.99	-0.77	-0.40	-0.76	-0.71	-0.59	-0.63	-0.05	0.47	0.27	0.03	0.09	0.16	-0.18	0.64	-1.00
15	0.32	0.06	0.02	0.15	0.01	-0.02	-0.18	-0.24	-0.29	-0.36	-0.52	-0.64	-0.53	-0.82	-0.83	-0.76	-0.38	-0.04	0.28	0.10	0.35	0.22	0.64	0.98	-0.10	0.98	-0.83
16	0.82	1.26	1.63	1.24	1.47	0.75	-0.07	-0.37	-0.48	-0.84	-0.78	-0.86	-0.99	-0.75	-0.29	-0.17	-0.37	-0.19	-0.08	0.05	0.21	-0.04	-0.06	0.06	0.05	1.63	-0.99
17	0.01	-0.07	-0.03	-0.06	-0.02	-0.04	-0.14	-0.24	-0.21	-0.28	-0.27	-0.25	-0.27	-0.19	-0.20	-0.22	-0.21	-0.16	-0.16	-0.16	-0.10	-0.12	-0.11	-0.04	-0.15	0.01	-0.28
18	-0.05	-0.07	-0.08	0.05	0.10	0.08	-0.17	-0.21	-0.36	-0.42	-0.47	-0.64	-0.54	-0.57	-0.50	-0.83	-1.02	-0.70	-0.29	0.27	0.52	0.07	0.10	0.31	-0.23	0.52	-1.02
19	1.05	0.82	1.05	1.03	1.31	0.71	-0.04	-0.26	-0.30	-0.48	-0.52	-0.76	-0.70	-0.57	-0.46	-0.46	-0.37	-0.30	-0.06	0.02	0.08	0.24	0.01	0.27	0.05	1.31	-0.76
20	0.31	0.05	0.39	0.46	0.56	0.30	-0.30	-0.39	-0.54	-0.45	-0.35	-0.33	-0.42	-0.12	0.55	-0.56	-0.13	-0.11	-0.10	0.18	0.63	0.46	0.58	0.95	0.07	0.95	-0.56
21	0.55	0.65	0.53	0.63	1.06	0.45	-0.02	-0.02	-0.38	-0.74	-0.61	-0.44	-0.61	-0.79	-1.06	-0.82	-0.60	-0.36	0.17	0.46	0.82	1.21	0.55	0.45	0.05	1.21	-1.06
22	0.52	0.96	0.53	0.43	0.47	0.72	0.15	-0.25	-0.40	-0.21	-0.33	-0.51	-0.48	-0.65	-0.73	-0.59	-0.40	-0.27	-0.18	0.54	0.97	0.19	0.41	0.67	0.07	0.97	-0.73
23	0.38	1.29	0.75	1.11	1.41	1.06	-0.45	-0.39	-0.52	-0.68	-0.80	-0.99	-0.95	-0.86	-1.00	-0.95	-0.76	-0.49	0.08	1.37	1.00	1.05	1.07	1.34	0.13	1.41	-1.00
24	1.06	1.65	1.47	1.37	1.72	0.80	0.18	-0.02	-0.34	-0.76	-0.95	-1.06	-1.12	-1.11	-1.03	-0.95	-0.78	-0.39	-0.13	0.13	0.33	0.32	0.29	0.11	0.03	1.72	-1.12
25	0.02	-0.08	-0.06	0.00	-0.01	-0.03	-0.04	0.00	-0.07	-0.15	-0.28	-0.46	-0.65	-0.91	-0.57	-0.39	-0.27	-0.39	-0.19	0.44	0.46	0.53	0.21	0.27	-0.11	0.53	-0.91
26	0.00	-0.17	0.05	0.16	0.29	0.13	-0.36	-0.40	-0.56	-0.79	-0.86	-0.82	-0.98	-0.94	-0.81	-0.65	-0.42	-0.23	0.13	0.13	0.47	0.42	0.12	-0.10	-0.26	0.47	-0.98
27	-0.05	0.00	0.16	0.88	0.72	0.17	-0.29	-0.54	-0.65	-0.71	-0.96	-0.82	-0.56	-1.20	-0.77	-0.76	-0.79	-0.21	0.53	0.83	0.91	0.57	0.36	0.42	-0.11	0.91	-1.20
28	0.45	1.01	0.91	1.08	0.92	0.82	0.12	-0.28	-0.55	-0.89	-0.35	-0.52	-0.37	-0.66	-0.67	-0.36	-0.29	-0.19	0.11	0.59	0.61	0.43	0.14	0.39	0.10	1.08	-0.89
29	0.26	0.78	1.11	1.11	1.26	0.68	-0.31	-0.47	-0.42	-0.69	-0.78	-0.94	-0.94	-0.48	-0.38	-0.20	-0.10	-0.05	0.29	0.23	0.37	0.44	0.07	0.01	0.04	1.26	-0.94
30	0.09	0.24	0.26	0.39	0.44	0.83	-0.15	-0.39	-0.39	-0.58	-0.85	-0.96	-0.59	-0.78	-0.72	-0.88	-0.40	-0.50	-0.11	0.59	0.76	1.45	2.76	1.65	0.09	2.76	-0.96
31	1.09	0.93	1.12	1.73	1.59	1.11	-0.22	-0.43	-0.67	-0.80	-0.86	-0.93	-0.94	-0.91	-0.67	-0.57	0.02	0.21	-0.07	0.10	0.00	0.04	0.42	0.22	0.06	1.73	-0.94
Avg	0.54	0.58	0.59	0.67	0.78	0.55	-0.09	-0.31	-0.45	-0.64	-0.72	-0.78	-0.75	-0.74	-0.66	-0.61	-0.48	-0.30	0.03	0.40	0.47	0.45	0.43	0.51	-0.02	1.19	-0.94
Max	1.61	2.93	1.63	1.73	1.72	1.27	0.69	0.00	-0.07	-0.15	-0.18	-0.25	-0.14	-0.12	0.55	-0.06	0.02	0.46	0.53	1.37	1.21	1.45	2.76	1.65	0.20	2.93	-0.28
Min	-0.14	-0.17	-0.12	-0.10	-0.07	-0.08	-0.45	-0.67	-0.67	-0.89	-1.14	-1.20	-1.17	-1.20	-1.25	-1.09	-1.02	-0.70	-0.29	-0.18	-0.11	-0.12	-0.12	-0.11	-0.32	0.01	-1.25

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
June 2017

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	0.86	0.58	0.69	0.43	0.20	0.12	-0.14	-0.33	-0.42	-0.31	-0.40	-0.58	-0.27	-0.38	-0.27	0.12	0.21	-0.33	-0.05	0.32	0.33	0.30	0.59	1.01	0.10	1.01	-0.58
2	0.87	0.70	0.67	0.45	0.58	0.35	-0.25	-0.18	-0.14	-0.81	-1.09	-1.17	-1.22	-1.02	-0.97	-0.91	-0.77	-0.52	-0.15	0.95	1.87	1.16	0.25	0.55	-0.03	1.87	-1.22
3	0.83	0.76	0.97	1.17	1.41	0.48	-0.23	-0.39	-0.69	-0.90	-0.97	-0.98	-1.05	-0.65	-0.55	-0.73	-0.63	-0.17	0.58	0.23	0.63	0.43	0.83	1.01	0.06	1.41	-1.05
4	1.49	1.34	0.58	0.84	0.89	0.59	0.03	-0.32	-0.43	-0.72	-0.80	-0.84	-0.64	-0.43	0.05	0.41	-0.10	0.07	0.11	0.13	0.28	0.36	0.31	0.09	0.14	1.49	-0.84
5	0.06	0.02	0.03	0.21	0.04	0.09	-0.24	-0.26	-0.42	-0.54	-0.85	-1.23	-1.18	-1.09	-1.06	-0.91	-0.73	-0.54	-0.36	-0.03	0.35	1.09	1.07	1.22	-0.22	1.22	-1.23
6	0.75	0.99	0.91	1.47	1.27	0.08	-0.24	-0.52	-0.85	-1.12	-1.30	-1.30	-1.29	-1.27	-1.14	-0.84	-0.62	-0.35	-0.13	-0.03	0.11	0.64	0.29	0.35	-0.17	1.47	-1.30
7	0.56	0.65	0.96	0.74	0.73	0.18	-0.28	-0.42	-0.80	-0.94	-0.89	-0.88	-0.87	-0.92	-0.55	-0.58	-0.56	-0.13	0.17	0.30	0.34	0.00	-0.04	0.00	-0.13	0.96	-0.94
8	0.14	0.04	0.07	0.66	1.15	0.75	-0.21	-0.27	-0.34	-0.45	Au	Au	Au	Au	Au	-0.16	0.19	0.47	0.50	1.25	0.42	1.50	1.24	1.16	0.43	1.50	-0.45
9	0.78	0.67	0.76	0.65	0.95	0.00	0.06	0.07	-0.07	-0.48	-0.98	-0.41	-0.47	-0.22	-0.30	-0.13	-0.20	-0.23	-0.21	-0.04	-0.06	0.12	-0.03	0.09	0.01	0.95	-0.98
10	0.32	0.49	0.51	0.34	0.40	-0.07	-0.26	-0.43	-0.59	-0.90	-0.61	-0.98	-0.49	-0.49	-0.56	-0.85	-0.37	-0.02	-0.30	0.18	0.45	0.38	0.19	0.06	-0.15	0.51	-0.98
11	0.14	0.28	0.46	0.45	0.76	0.35	-0.39	-0.49	-0.69	-0.87	-0.83	-0.78	-0.86	-0.82	-0.75	-0.63	-0.58	-0.52	-0.04	0.69	0.21	0.38	0.60	0.69	-0.13	0.76	-0.87
12	1.29	1.74	1.84	1.65	1.11	0.18	0.06	-0.09	-0.27	-0.32	-0.22	-0.49	-0.79	-0.67	-0.75	-0.32	-0.20	0.01	-0.02	-0.13	-0.06	0.02	0.05	-0.07	0.15	1.84	-0.79
13	0.03	0.14	-0.09	-0.15	-0.14	-0.29	-0.43	-0.48	-0.58	-0.59	-0.45	-0.40	-0.43	-0.45	-0.43	-0.16	0.00	-0.31	-0.13	-0.10	-0.08	-0.06	-0.07	-0.06	-0.24	0.14	-0.59
14	-0.02	0.00	0.00	0.00	0.01	0.06	0.04	-0.10	-0.32	-0.60	-0.85	-0.97	-0.95	-0.88	-0.82	-0.77	-0.61	-0.38	-0.13	0.64	1.23	0.77	0.30	0.36	-0.17	1.23	-0.97
15	0.76	0.68	0.77	1.55	1.18	-0.08	-0.26	-0.27	-0.30	-0.52	-0.48	-0.56	-0.48	-0.44	-0.38	-0.33	-0.44	-0.20	0.06	0.39	0.88	0.60	0.50	0.43	0.13	1.55	-0.56
16	0.28	0.46	0.45	0.23	0.22	0.16	0.08	-0.05	-0.30	-0.23	-0.37	-0.58	-0.66	-0.32	-0.30	-0.24	0.00	-0.05	0.02	0.12	0.22	0.32	0.40	0.40	0.01	0.46	-0.66
17	0.35	0.28	0.24	0.29	0.27	0.18	-0.35	-0.50	-0.46	-0.59	-0.23	-0.56	-0.83	-0.76	-0.84	-0.48	-0.52	-0.52	-0.29	0.56	1.45	0.51	0.05	0.05	-0.11	1.45	-0.84
18	0.12	-0.03	-0.02	0.05	0.13	0.47	-0.02	-0.39	-0.69	-0.38	-0.40	-0.15	-0.20	-0.51	-0.51	-0.39	-0.37	-0.12	0.00	0.24	0.41	0.64	0.77	0.67	-0.03	0.77	-0.69
19	0.48	0.40	0.50	0.92	0.60	0.03	-0.33	-0.55	-0.62	-0.81	-0.72	-0.71	-0.97	-0.89	-0.79	-0.64	-0.56	-0.14	0.06	1.43	1.50	0.41	0.65	0.88	0.01	1.50	-0.97
20	0.80	1.05	0.97	0.50	0.51	0.13	-0.18	-0.33	-0.29	-0.31	-0.27	-0.39	-0.51	-0.28	-0.32	0.10	-0.05	-0.10	0.37	0.54	1.31	0.56	0.64	0.96	0.23	1.31	-0.51
21	1.74	1.92	1.25	1.66	0.93	0.44	-0.07	-0.29	-0.48	-0.70	-0.84	-0.92	-0.78	-0.78	-0.72	-0.54	-0.38	-0.22	0.02	0.42	1.18	1.91	1.41	1.22	0.31	1.92	-0.92
22	1.80	0.52	0.67	0.71	0.82	0.14	-0.30	-0.63	-0.65	-0.64	-0.96	-0.65	-0.93	-0.85	-0.62	-0.56	-0.05	-0.33	-0.34	0.02	0.67	0.93	0.85	0.42	0.00	1.80	-0.96
23	0.71	0.52	0.84	0.53	0.81	0.02	-0.35	-0.36	-0.52	-0.70	-0.97	-0.73	-0.74	-0.94	-0.97	-0.92	-0.65	-0.18	-0.08	0.37	0.60	0.78	0.57	0.52	-0.08	0.84	-0.97
24	1.47	1.41	0.97	0.64	1.17	0.52	-0.44	-0.40	-0.46	-0.54	-0.59	-0.90	-0.98	-0.94	-0.60	-0.62	-0.05	-0.06	-0.29	0.10	0.09	0.18	0.03	0.25	-0.00	1.47	-0.98
25	0.18	0.97	0.44	0.13	0.05	-0.16	-0.33	-0.47	-0.51	-0.66	-0.60	-0.75	-0.81	-0.78	-0.83	-0.77	-0.65	-0.41	-0.04	0.43	0.64	0.74	0.80	1.60	-0.07	1.60	-0.83
26	2.42	2.59	1.85	2.01	1.79	1.45	-0.15	-0.35	-0.48	-0.66	-0.85	-0.86	-0.82	-0.57	-0.29	0.56	-0.34	-0.02	0.33	1.81	1.81	1.54	0.73	0.47	0.58	2.59	-0.86
27	0.27	-0.02	0.06	0.11	0.31	0.10	-0.14	-0.51	-0.32	-0.12	-0.25	-0.42	-0.57	-0.48	-0.61	-0.49	-0.24	-0.07	0.02	0.58	0.38	-0.01	0.11	0.61	-0.07	0.61	-0.61
28	0.31	0.69	1.19	1.19	1.06	0.46	-0.38	-0.42	-0.50	-0.73	-0.73	-0.80	-0.34	-0.37	-0.80	-0.28	-0.25	0.27	0.42	0.35	1.27	0.44	0.98	0.84	0.16	1.27	-0.80
29	1.31	0.96	0.78	0.79	0.96	0.32	-0.11	-0.55	-0.49	-0.54	-0.77	-0.90	-1.03	-1.01	-0.98	-0.90	-0.66	-0.55	-0.47	0.26	1.00	0.94	0.86	1.19	0.02	1.31	-1.03
30	0.83	1.31	1.25	1.37	1.55	0.83	-0.34	-0.54	-0.70	-0.83	-0.87	-0.82	-0.76	-0.99	-0.85	-0.80	-0.69	-0.51	-0.29	0.37	0.82	0.15	0.38	0.70	0.02	1.55	-0.99
Avg	0.73	0.74	0.69	0.72	0.72	0.26	-0.21	-0.36	-0.48	-0.62	-0.69	-0.75	-0.76	-0.70	-0.64	-0.46	-0.36	-0.21	-0.02	0.41	0.68	0.59	0.51	0.59	0.02	1.28	-0.87
Max	2.42	2.59	1.85	2.01	1.79	1.45	0.08	0.07	-0.07	-0.12	-0.22	-0.15	-0.20	-0.22	0.05	0.56	0.21	0.47	0.58	1.81	1.87	1.91	1.41	1.60	0.58	2.59	-0.45
Min	-0.02	-0.03	-0.09	-0.15	-0.14	-0.29	-0.44	-0.63	-0.85	-1.12	-1.30	-1.30	-1.29	-1.27	-1.14	-0.92	-0.77	-0.55	-0.47	-0.13	-0.08	-0.06	-0.07	-0.07	-0.24	0.14	-1.30

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
April 2017

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	30	174	328	463	522	508	399	392	527	385	184	83	15	0	0	0	0	0	167	527	0
2	0	0	0	0	0	0	18	85	183	303	422	441	763	635	632	482	314	152	59	0	0	0	0	0	187	763	0
3	0	0	0	0	0	0	25	73	318	374	249	357	818	302	357	280	101	51	16	0	0	0	0	0	138	818	0
4	0	0	0	0	0	0	28	214	454	595	646	712	749	889	720	520	354	181	23	0	0	0	0	0	254	889	0
5	0	0	0	0	0	4	46	232	436	622	718	828	595	671	426	316	172	100	33	0	0	0	0	0	217	828	0
6	0	0	0	0	0	0	45	130	364	426	313	513	467	638	749	230	148	74	15	0	0	0	0	0	171	749	0
7	0	0	0	0	0	3	31	68	113	148	179	295	337	132	210	35	35	42	11	0	0	0	0	0	68	337	0
8	0	0	0	0	0	0	39	140	320	532	603	317	483	156	143	112	17	41	5	0	0	0	0	0	121	603	0
9	0	0	0	0	0	0	19	84	185	294	332	331	377	396	438	358	253	159	41	2	0	0	0	0	136	438	0
10	0	0	0	0	0	1	54	250	471	630	771	522	442	432	467	522	89	148	24	1	0	0	0	0	201	771	0
11	0	0	0	0	0	3	122	301	465	665	795	869	886	850	748	596	405	132	29	0	0	0	0	0	286	886	0
12	0	0	0	0	0	2	33	156	470	549	671	675	680	510	480	253	159	86	38	1	0	0	0	0	198	680	0
13	0	0	0	0	0	3	104	297	485	650	776	786	696	509	373	229	67	140	8	0	0	0	0	0	213	786	0
14	0	0	0	0	0	5	86	186	343	611	792	820	808	613	567	455	361	133	40	0	0	0	0	0	243	820	0
15	0	0	0	0	0	7	58	106	169	470	490	583	882	770	417	381	300	173	89	2	0	0	0	0	204	882	0
16	0	0	0	0	0	5	119	326	518	616	773	911	911	860	750	602	456	151	36	1	0	0	0	0	293	911	0
17	0	0	0	0	0	2	23	76	93	205	218	344	466	266	182	525	410	47	40	1	0	0	0	0	121	525	0
18	0	0	0	0	0	4	78	278	495	558	624	732	715	567	479	479	240	70	56	2	0	0	0	0	224	732	0
19	0	0	0	0	0	2	32	221	299	584	768	634	741	784	655	625	276	273	90	3	0	0	0	0	249	784	0
20	0	0	0	0	0	16	141	235	332	640	704	731	714	427	364	157	82	85	44	2	0	0	0	0	195	731	0
21	0	0	0	0	0	2	36	128	266	369	489	510	450	700	529	388	172	123	43	2	0	0	0	0	175	700	0
22	0	0	0	0	0	4	94	196	239	487	818	818	751	686	734	598	429	187	42	2	0	0	0	0	254	818	0
23	0	0	0	0	0	6	55	146	261	192	103	258	280	701	123	37	74	73	91	3	0	0	0	0	100	701	0
24	0	0	0	0	0	6	60	176	287	457	424	503	584	570	587	329	161	111	42	4	0	0	0	0	179	587	0
25	0	0	0	0	0	5	37	107	176	208	594	910	502	697	425	299	266	272	33	3	0	0	0	0	189	910	0
26	0	0	0	0	0	3	29	162	218	363	346	333	707	696	143	177	212	109	58	3	0	0	0	0	148	707	0
27	0	0	0	0	0	8	59	118	162	253	257	420	406	233	198	262	159	111	56	4	0	0	0	0	113	420	0
28	0	0	0	0	0	8	27	113	182	494	419	324	296	379	414	503	325	108	92	8	0	0	0	0	154	503	0
29	0	0	0	0	0	14	48	219	443	647	798	653	582	775	662	415	404	306	106	8	0	0	0	0	253	798	0
30	0	0	0	0	0	4	29	123	128	124	248	212	276	667	442	303	173	135	46	8	0	0	0	0	122	667	0
Avg	0	0	0	0	0	4	54	171	307	451	529	562	592	563	465	362	227	129	44	2	0	0	0	0	186	709	0
Max	0	0	0	0	0	16	141	326	518	665	818	911	911	889	750	625	456	306	106	8	0	0	0	0	293	911	0
Min	0	0	0	0	0	0	18	68	93	124	103	212	276	132	123	35	17	41	5	0	0	0	0	0	68	337	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
May 2017

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	16	118	194	414	662	550	831	591	557	308	420	262	130	50	4	0	0	0	0	213	831	0
2	0	0	0	0	0	7	40	81	266	151	197	195	278	349	271	235	229	157	74	8	0	0	0	0	106	349	0
3	0	0	0	0	0	47	230	405	581	734	781	888	900	845	789	608	506	336	131	14	0	0	0	0	325	900	0
4	0	0	0	0	0	56	218	394	573	728	846	919	935	892	803	669	505	324	144	14	0	0	0	0	334	935	0
5	0	0	0	0	0	51	222	408	591	743	836	985	905	903	823	574	451	298	163	10	0	0	0	0	332	985	0
6	0	0	0	0	0	47	213	403	410	442	592	768	884	655	557	213	433	215	82	7	0	0	0	0	247	884	0
7	0	0	0	0	0	37	84	262	564	341	364	450	433	127	157	50	177	156	51	9	0	0	0	0	136	564	0
8	0	0	0	0	0	50	242	422	580	755	874	958	952	900	822	690	524	340	146	10	0	0	0	0	344	958	0
9	0	0	0	0	1	56	150	391	581	630	865	939	960	912	839	687	522	345	87	20	0	0	0	0	333	960	0
10	0	0	0	0	1	63	231	415	594	749	749	942	948	916	829	682	523	341	153	18	0	0	0	0	340	948	0
11	0	0	0	0	1	67	233	419	599	750	868	939	951	863	759	623	358	205	10	4	0	0	0	0	319	951	0
12	0	0	0	0	0	21	161	347	550	732	855	925	678	736	739	508	232	120	32	6	0	0	0	0	277	925	0
13	0	0	0	0	0	39	148	399	264	588	339	146	99	128	187	287	130	185	52	10	0	0	0	0	125	588	0
14	0	0	0	0	2	76	274	413	438	545	720	721	446	180	452	425	305	325	103	16	0	0	0	0	227	721	0
15	0	0	0	0	1	20	68	98	158	199	333	507	375	491	531	443	160	56	37	17	0	0	0	0	146	531	0
16	0	0	0	0	2	102	255	383	550	609	435	610	607	428	189	185	237	108	43	9	0	0	0	0	198	610	0
17	0	0	0	0	0	8	32	118	102	163	204	174	126	88	147	206	210	68	24	10	0	0	0	0	70	210	0
18	0	0	0	0	2	28	116	169	342	562	439	840	505	523	528	626	587	368	186	34	0	0	0	0	244	840	0
19	0	0	0	0	2	67	103	170	420	773	889	965	797	292	258	285	263	180	61	20	0	0	0	0	231	965	0
20	0	0	0	0	5	100	233	383	525	365	369	366	416	230	76	435	182	139	98	22	0	0	0	0	164	525	0
21	0	0	0	0	3	110	271	447	600	670	492	445	564	741	902	621	466	282	77	18	1	0	0	0	280	902	0
22	0	0	0	0	0	36	122	288	351	190	234	431	420	590	660	479	303	231	173	41	1	0	0	0	190	660	0
23	0	0	0	0	2	88	252	425	572	706	853	915	945	892	855	714	541	366	170	24	1	0	0	0	347	945	0
24	0	0	0	0	4	64	193	164	454	787	898	973	993	951	860	730	566	292	155	40	0	0	0	0	339	993	0
25	0	0	0	0	0	20	66	156	344	286	327	460	616	848	540	297	185	219	123	27	0	0	0	0	188	848	0
26	0	0	0	0	6	89	291	456	625	787	854	763	903	812	589	512	326	220	61	58	0	0	0	0	306	903	0
27	0	0	0	0	4	109	266	442	552	598	786	742	466	937	570	565	554	218	102	39	1	0	0	0	290	937	0
28	0	0	0	0	2	23	104	270	642	719	365	587	620	863	678	410	301	144	74	15	0	0	0	0	242	863	0
29	0	0	0	0	7	111	265	391	619	771	895	989	853	506	463	235	235	248	87	34	1	0	0	0	280	989	0
30	0	0	0	0	4	72	236	509	454	526	826	959	709	904	480	570	329	387	210	60	0	0	0	0	301	959	0
31	0	0	0	0	10	100	269	448	617	760	888	960	947	884	728	543	120	14	53	17	0	0	0	0	307	960	0
Avg	0	0	0	0	2	57	184	331	482	581	630	719	672	643	561	469	346	226	97	20	0	0	0	0	251	811	0
Max	0	0	0	0	10	111	291	509	642	787	898	989	993	951	902	730	587	387	210	60	1	0	0	0	347	993	0
Min	0	0	0	0	0	7	32	81	102	151	197	146	99	88	76	50	120	14	10	4	0	0	0	0	70	210	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
June 2017

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	6	57	108	399	414	427	644	678	370	492	420	209	152	276	135	38	0	0	0	0	201	678	0
2	0	0	0	0	3	67	265	221	236	646	929	984	978	827	778	698	564	394	213	44	2	0	0	0	327	984	0
3	0	0	0	0	7	117	284	465	634	781	883	926	941	618	570	698	560	290	109	35	2	0	0	0	330	941	0
4	0	0	0	0	4	42	109	412	622	770	878	911	731	654	348	165	280	175	93	18	0	0	0	0	259	911	0
5	0	0	0	0	2	45	131	237	328	378	691	1013	1014	979	890	761	505	362	217	76	2	0	0	0	318	1014	0
6	0	0	0	0	7	115	281	459	629	775	887	916	925	870	753	528	404	268	126	40	2	0	0	0	333	925	0
7	0	0	0	0	7	102	266	438	608	763	863	938	959	914	608	585	513	252	34	3	0	0	0	0	327	959	0
8	0	0	0	0	4	108	262	445	615	764	Au	Au	Au	Au	Au	424	354	255	257	72	5	0	0	0	188	764	0
9	0	0	0	0	7	103	109	97	133	401	797	421	498	167	205	54	54	131	59	19	0	0	0	0	136	797	0
10	0	0	0	0	5	105	214	356	550	796	423	729	283	385	514	706	234	46	204	35	2	0	0	0	233	796	0
11	0	0	0	0	9	144	295	467	639	795	926	911	975	996	876	779	552	468	215	31	3	0	0	0	378	996	0
12	0	0	0	0	6	14	54	195	341	286	216	704	1037	814	694	342	198	26	0	0	0	0	0	0	205	1037	0
13	0	0	0	0	18	38	126	146	316	248	172	276	245	294	220	72	54	178	30	23	1	0	0	0	102	316	0
14	0	0	0	0	1	16	63	217	429	663	876	982	999	958	872	759	592	421	244	54	2	0	0	0	340	999	0
15	0	0	0	0	7	111	155	149	212	433	403	467	403	385	331	290	364	214	72	35	1	0	0	0	168	467	0
16	0	0	0	0	3	24	40	89	275	199	356	560	614	302	303	259	110	106	108	52	2	0	0	0	142	614	0
17	0	0	0	0	3	102	305	422	366	467	190	386	636	642	707	416	434	411	253	80	2	0	0	0	243	707	0
18	0	0	0	0	1	27	99	310	454	231	288	115	158	468	452	369	337	210	140	43	3	0	0	0	154	468	0
19	0	0	0	0	4	127	275	450	510	714	623	771	1047	976	869	673	592	290	201	85	5	0	0	0	342	1047	0
20	0	0	0	0	7	51	115	212	233	331	356	483	627	499	575	322	385	396	187	113	7	0	0	0	204	627	0
21	0	0	0	0	7	111	277	455	623	773	883	960	989	950	871	755	588	420	256	92	3	0	0	0	376	989	0
22	0	0	0	0	5	106	277	454	647	675	917	564	864	856	606	554	153	272	237	92	4	0	0	0	303	917	0
23	0	0	0	0	7	51	161	298	564	644	858	567	701	882	849	846	520	162	145	46	2	0	0	0	304	882	0
24	0	0	0	0	4	99	270	448	620	777	907	1012	986	928	646	627	287	226	219	28	3	0	0	0	337	1012	0
25	0	0	0	0	6	104	268	443	613	764	814	952	975	943	865	743	589	421	250	88	5	0	0	0	368	975	0
26	0	0	0	0	6	113	273	435	600	752	881	930	913	787	589	280	509	368	250	27	2	0	0	0	321	930	0
27	0	0	0	0	2	44	97	390	441	195	241	339	567	510	618	542	440	325	182	14	3	0	0	0	206	618	0
28	0	0	0	0	3	87	263	458	626	768	864	925	514	574	841	430	447	136	56	35	3	0	0	0	293	925	0
29	0	0	0	0	8	44	145	392	303	361	584	645	906	845	795	711	487	404	271	86	4	0	0	0	291	906	0
30	0	0	0	0	5	95	251	405	608	746	874	890	910	952	867	745	589	420	246	81	4	0	0	0	362	952	0
Avg	0	0	0	0	5	79	195	345	473	577	663	723	751	706	639	511	395	277	167	50	2	0	0	0	270	838	0
Max	0	0	0	0	18	144	305	467	647	796	929	1013	1047	996	890	846	592	468	271	113	7	0	0	0	378	1047	0
Min	0	0	0	0	1	14	40	89	133	195	172	115	158	167	205	54	54	26	0	0	0	0	0	0	102	316	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
April 2017

	<< Hour >>																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min	
1	24.41	24.40	24.40	24.40	24.38	24.36	24.34	24.36	24.37	24.35	24.33	24.31	24.30	24.28	24.26	24.24	24.23	24.22	24.22	24.22	24.23	24.24	24.23	24.24	24.31	24.41	24.22	
	24.24	24.24	24.24	24.24	24.24	24.24	24.24	24.24	24.23	24.22	24.21	24.20	24.18	24.16	24.15	24.14	24.14	24.14	24.15	24.17	24.19	24.20	24.20	24.20	24.20	24.24	24.14	
	24.21	24.21	24.20	24.20	24.19	24.19	24.20	24.20	24.20	24.21	24.21	24.21	24.20	24.20	24.21	24.21	24.22	24.23	24.24	24.25	24.26	24.26	24.26	24.26	24.22	24.26	24.19	
	24.27	24.28	24.29	24.30	24.31	24.33	24.34	24.36	24.39	24.39	24.39	24.39	24.38	24.37	24.36	24.35	24.35	24.35	24.34	24.33	24.34	24.34	24.34	24.34	24.35	24.34	24.27	
	24.34	24.34	24.34	24.33	24.33	24.33	24.33	24.33	24.34	24.33	24.34	24.33	24.33	24.33	24.33	24.34	24.34	24.35	24.34	24.35	24.36	24.36	24.35	24.35	24.34	24.36	24.33	
6	24.34	24.32	24.31	24.31	24.31	24.30	24.30	24.30	24.30	24.29	24.28	24.25	24.22	24.20	24.17	24.14	24.13	24.12	24.12	24.13	24.13	24.12	24.11	24.10	24.22	24.34	24.10	
	24.09	24.08	24.06	24.04	24.01	23.98	23.96	23.96	23.95	23.94	23.97	23.96	23.94	23.95	23.97	23.97	23.99	23.98	23.99	24.00	24.02	24.03	24.04	24.04	24.00	24.09	23.94	
	24.04	24.04	24.03	24.02	24.02	24.01	24.01	24.02	24.01	24.01	24.01	23.99	23.97	23.95	23.94	23.94	23.98	23.98	23.98	23.98	23.99	24.00	24.01	24.02	24.00	24.04	23.94	
	24.03	24.04	24.05	24.06	24.08	24.09	24.12	24.14	24.17	24.19	24.21	24.23	24.25	24.27	24.28	24.29	24.30	24.31	24.31	24.32	24.34	24.35	24.36	24.36	24.21	24.36	24.03	
	24.36	24.36	24.35	24.35	24.34	24.34	24.34	24.33	24.33	24.33	24.33	24.32	24.30	24.29	24.28	24.27	24.26	24.26	24.27	24.29	24.31	24.32	24.34	24.34	24.36	24.32	24.36	24.26
11	24.36	24.36	24.37	24.36	24.36	24.36	24.36	24.38	24.39	24.38	24.37	24.37	24.37	24.36	24.36	24.34	24.33	24.33	24.32	24.30	24.30	24.31	24.31	24.31	24.31	24.35	24.39	24.30
	24.31	24.30	24.29	24.30	24.30	24.31	24.32	24.33	24.34	24.34	24.34	24.35	24.34	24.33	24.32	24.31	24.31	24.30	24.30	24.29	24.27	24.27	24.27	24.25	24.23	24.30	24.35	24.23
	24.20	24.19	24.17	24.15	24.11	24.10	24.09	24.09	24.08	24.06	24.04	24.03	24.01	23.99	23.97	23.96	23.99	24.00	24.00	23.98	23.97	24.02	24.02	24.02	24.05	24.20	23.96	
	24.03	24.03	24.04	24.06	24.08	24.09	24.11	24.13	24.13	24.15	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.17	24.17	24.17	24.19	24.20	24.21	24.21	24.14	24.21	24.03	
	24.22	24.24	24.25	24.26	24.27	24.27	24.29	24.30	24.30	24.32	24.32	24.31	24.31	24.31	24.31	24.31	24.31	24.32	24.33	24.34	24.34	24.35	24.35	24.35	24.30	24.35	24.22	
16	24.36	24.36	24.37	24.38	24.38	24.39	24.39	24.40	24.40	24.41	24.41	24.41	24.41	24.40	24.40	24.39	24.38	24.37	24.35	24.34	24.35	24.34	24.33	24.31	24.38	24.41	24.31	
	24.29	24.26	24.23	24.21	24.18	24.15	24.11	24.09	24.11	24.11	24.11	24.12	24.12	24.12	24.16	24.17	24.17	24.20	24.21	24.23	24.25	24.26	24.26	24.25	24.18	24.29	24.09	
	24.24	24.23	24.23	24.22	24.22	24.23	24.24	24.27	24.27	24.26	24.26	24.24	24.21	24.22	24.21	24.20	24.20	24.20	24.20	24.20	24.22	24.23	24.25	24.27	24.23	24.27	24.20	
	24.28	24.28	24.30	24.31	24.31	24.32	24.33	24.36	24.37	24.39	24.40	24.41	24.41	24.41	24.41	24.42	24.42	24.42	24.42	24.42	24.43	24.43	24.43	24.43	24.38	24.43	24.28	
	24.42	24.41	24.40	24.40	24.39	24.38	24.37	24.37	24.37	24.35	24.33	24.31	24.30	24.29	24.27	24.27	24.29	24.31	24.31	24.31	24.33	24.33	24.33	24.36	24.34	24.42	24.27	
21	24.37	24.37	24.38	24.39	24.40	24.41	24.42	24.43	24.43	24.44	24.45	24.46	24.47	24.48	24.48	24.49	24.51	24.52	24.52	24.52	24.53	24.53	24.53	24.54	24.46	24.54	24.37	
	24.54	24.53	24.52	24.53	24.52	24.52	24.50	24.48	24.47	24.46	24.44	24.41	24.39	24.37	24.33	24.30	24.28	24.27	24.26	24.26	24.25	24.26	24.25	24.24	24.39	24.54	24.24	
	24.23	24.21	24.20	24.18	24.16	24.15	24.15	24.15	24.14	24.13	24.12	24.11	24.09	24.08	24.06	24.08	24.08	24.07	24.07	24.07	24.07	24.07	24.06	24.06	24.12	24.23	24.06	
	24.05	24.04	24.03	24.02	24.02	24.02	24.01	24.01	24.01	24.00	23.99	23.98	23.97	23.96	23.95	23.94	23.94	23.95	23.96	23.97	23.99	24.00	24.00	24.01	23.99	24.05	23.94	
	24.02	24.02	24.03	24.04	24.05	24.06	24.08	24.10	24.11	24.12	24.13	24.12	24.12	24.12	24.11	24.11	24.10	24.11	24.11	24.13	24.14	24.15	24.14	24.13	24.10	24.15	24.02	
26	24.12	24.10	24.09	24.09	24.08	24.08	24.07	24.07	24.06	24.05	24.04	24.03	24.01	23.99	23.98	23.98	23.98	23.98	23.97	23.97	23.97	23.97	23.96	23.95	24.02	24.12	23.95	
	23.95	23.94	23.95	23.95	23.96	23.97	23.98	23.99	24.00	24.00	24.01	24.01	24.01	24.02	24.04	24.06	24.07	24.08	24.10	24.11	24.13	24.14	24.14	24.15	24.03	24.15	23.94	
	24.16	24.16	24.17	24.18	24.19	24.21	24.22	24.24	24.27	24.29	24.30	24.32	24.33	24.34	24.35	24.36	24.36	24.38	24.40	24.41	24.42	24.44	24.44	24.45	24.31	24.45	24.16	
	29	24.45	24.44	24.44	24.45	24.45	24.46	24.47	24.49	24.50	24.48	24.48	24.47	24.45	24.44	24.42	24.40	24.39	24.38	24.38	24.37	24.37	24.37	24.35	24.34	24.43	24.50	24.34
	30	24.33	24.30	24.30	24.30	24.31	24.31	24.32	24.32	24.31	24.31	24.31	24.29	24.27	24.25	24.25	24.24	24.24	24.24	24.25	24.27	24.28	24.29	24.30	24.30	24.29	24.33	24.24
Avg	24.24	24.24	24.23	24.23	24.23	24.23	24.23	24.24	24.24	24.24	24.24	24.24	24.23	24.22	24.22	24.22	24.21	24.21	24.22	24.22	24.22	24.23	24.24	24.24	24.24	24.23	24.31	24.15
Max	24.54	24.53	24.52	24.53	24.52	24.52	24.50	24.49	24.50	24.48	24.48	24.47	24.47	24.48	24.48	24.49	24.51	24.52	24.52	24.52	24.53	24.53	24.53	24.54	24.46	24.54	24.37	
Min	23.95	23.94	23.95	23.95	23.96	23.97	23.96	23.96	23.95	23.94	23.97	23.96	23.94	23.95	23.94	23.94	23.94	23.95	23.96	23.97	23.97	23.97	23.96	23.95	23.99	24.04	23.94	

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
May 2017

	<< Hour >>																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min	
1	24.30	24.30	24.32	24.32	24.33	24.33	24.35	24.36	24.36	24.36	24.36	24.36	24.34	24.34	24.34	24.32	24.32	24.30	24.29	24.28	24.30	24.30	24.29	24.28	24.32	24.36	24.28	
2	24.28	24.27	24.27	24.27	24.27	24.28	24.29	24.30	24.31	24.32	24.33	24.35	24.36	24.37	24.38	24.39	24.39	24.40	24.40	24.42	24.44	24.46	24.47	24.48	24.35	24.48	24.27	
3	24.49	24.50	24.51	24.51	24.51	24.51	24.51	24.52	24.51	24.50	24.49	24.49	24.47	24.46	24.45	24.45	24.45	24.44	24.44	24.45	24.48	24.48	24.48	24.48	24.48	24.48	24.44	
4	24.48	24.48	24.48	24.49	24.50	24.51	24.53	24.54	24.53	24.53	24.51	24.50	24.49	24.48	24.47	24.46	24.45	24.44	24.43	24.42	24.43	24.43	24.42	24.40	24.47	24.54	24.40	
5	24.39	24.38	24.37	24.37	24.35	24.35	24.35	24.33	24.31	24.30	24.29	24.28	24.26	24.25	24.24	24.22	24.21	24.20	24.18	24.17	24.17	24.18	24.18	24.18	24.27	24.39	24.17	
6	24.19	24.18	24.19	24.19	24.18	24.19	24.20	24.19	24.17	24.16	24.16	24.16	24.14	24.14	24.12	24.11	24.13	24.13	24.12	24.12	24.14	24.14	24.15	24.16	24.16	24.20	24.11	
7	24.16	24.15	24.16	24.16	24.17	24.19	24.20	24.20	24.19	24.19	24.20	24.19	24.19	24.20	24.20	24.23	24.23	24.26	24.28	24.30	24.33	24.35	24.35	24.37	24.23	24.37	24.15	
8	24.38	24.38	24.38	24.39	24.40	24.42	24.44	24.46	24.46	24.46	24.45	24.44	24.42	24.41	24.40	24.38	24.37	24.36	24.35	24.36	24.37	24.38	24.37	24.36	24.40	24.46	24.35	
9	24.35	24.34	24.33	24.33	24.33	24.33	24.34	24.35	24.35	24.34	24.34	24.33	24.32	24.32	24.32	24.32	24.32	24.31	24.32	24.33	24.34	24.35	24.35	24.35	24.33	24.35	24.31	
10	24.35	24.34	24.33	24.33	24.34	24.35	24.36	24.36	24.35	24.35	24.34	24.33	24.32	24.31	24.31	24.30	24.30	24.30	24.30	24.32	24.34	24.36	24.36	24.37	24.33	24.37	24.30	
11	24.37	24.38	24.39	24.39	24.38	24.40	24.41	24.41	24.40	24.39	24.39	24.38	24.37	24.36	24.34	24.33	24.32	24.31	24.37	24.35	24.33	24.33	24.32	24.30	24.36	24.41	24.30	
12	24.29	24.28	24.26	24.25	24.24	24.23	24.21	24.21	24.20	24.18	24.16	24.13	24.10	24.07	24.05	24.03	24.03	24.02	24.01	24.03	24.03	24.08	24.11	24.14	24.14	24.29	24.01	
13	24.15	24.15	24.14	24.14	24.14	24.13	24.12	24.12	24.11	24.10	24.09	24.09	24.10	24.12	24.15	24.16	24.16	24.18	24.18	24.18	24.20	24.20	24.20	24.20	24.15	24.20	24.09	
14	24.19	24.20	24.21	24.21	24.22	24.22	24.24	24.25	24.25	24.24	24.24	24.24	24.24	24.23	24.23	24.23	24.22	24.23	24.23	24.23	24.23	24.23	24.23	24.23	24.23	24.25	24.19	
15	24.22	24.21	24.21	24.21	24.20	24.21	24.21	24.20	24.20	24.19	24.19	24.19	24.18	24.16	24.15	24.15	24.15	24.15	24.16	24.15	24.15	24.16	24.15	24.14	24.18	24.22	24.14	
16	24.13	24.11	24.11	24.10	24.09	24.08	24.07	24.05	24.04	24.02	24.00	23.99	23.97	23.96	23.95	23.98	23.98	23.97	23.96	23.96	23.95	23.95	23.94	23.94	24.01	24.13	23.94	
17	23.93	23.93	23.92	23.93	23.94	23.95	23.96	23.97	23.99	24.00	24.02	24.04	24.06	24.09	24.13	24.15	24.19	24.22	24.25	24.27	24.30	24.32	24.32	24.33	24.09	24.33	23.92	
18	24.34	24.34	24.36	24.36	24.38	24.40	24.42	24.44	24.45	24.45	24.46	24.46	24.46	24.45	24.45	24.45	24.45	24.45	24.45	24.46	24.46	24.46	24.45	24.44	24.43	24.46	24.34	
19	24.43	24.43	24.42	24.43	24.43	24.43	24.42	24.42	24.43	24.42	24.42	24.41	24.40	24.39	24.39	24.38	24.38	24.37	24.37	24.38	24.39	24.40	24.40	24.40	24.41	24.43	24.37	
20	24.40	24.39	24.39	24.39	24.39	24.40	24.41	24.42	24.41	24.42	24.42	24.42	24.42	24.41	24.42	24.43	24.44	24.45	24.46	24.47	24.48	24.49	24.50	24.49	24.43	24.50	24.39	
21	24.49	24.50	24.50	24.50	24.51	24.52	24.54	24.56	24.56	24.55	24.55	24.55	24.54	24.54	24.53	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.53	24.56	24.49	
22	24.51	24.50	24.51	24.51	24.51	24.53	24.54	24.55	24.55	24.56	24.58	24.57	24.56	24.55	24.56	24.55	24.55	24.56	24.55	24.55	24.55	24.56	24.55	24.55	24.54	24.58	24.50	
23	24.54	24.53	24.52	24.52	24.51	24.51	24.52	24.51	24.49	24.48	24.46	24.44	24.41	24.39	24.37	24.34	24.31	24.28	24.26	24.24	24.22	24.20	24.17	24.15	24.39	24.54	24.15	
24	24.12	24.08	24.04	24.01	23.97	23.94	23.92	23.91	23.90	23.90	23.89	23.89	23.90	23.89	23.88	23.88	23.89	23.91	23.92	23.95	23.96	23.96	23.96	23.96	23.94	24.12	23.88	
25	23.97	23.97	23.98	23.98	24.00	24.01	24.02	24.04	24.06	24.08	24.09	24.10	24.12	24.13	24.14	24.16	24.18	24.19	24.20	24.21	24.22	24.24	24.24	24.25	24.11	24.25	23.97	
26	24.25	24.26	24.27	24.27	24.27	24.27	24.28	24.28	24.28	24.27	24.27	24.27	24.27	24.27	24.27	24.27	24.28	24.29	24.31	24.33	24.34	24.36	24.37	24.37	24.29	24.37	24.25	
27	24.38	24.38	24.39	24.39	24.40	24.42	24.44	24.45	24.46	24.46	24.46	24.46	24.47	24.47	24.48	24.48	24.49	24.49	24.49	24.50	24.50	24.51	24.52	24.53	24.46	24.53	24.38	
28	24.53	24.53	24.53	24.53	24.54	24.55	24.56	24.57	24.57	24.57	24.57	24.56	24.56	24.55	24.55	24.55	24.55	24.57	24.57	24.56	24.57	24.58	24.57	24.57	24.56	24.58	24.53	
29	24.57	24.57	24.57	24.56	24.56	24.57	24.58	24.58	24.57	24.55	24.54	24.53	24.52	24.51	24.50	24.49	24.48	24.47	24.47	24.48	24.49	24.50	24.50	24.49	24.53	24.58	24.47	
30	24.48	24.48	24.48	24.48	24.48	24.48	24.48	24.47	24.47	24.46	24.45	24.44	24.42	24.42	24.42	24.41	24.41	24.39	24.38	24.37	24.38	24.38	24.37	24.38	24.43	24.48	24.37	
31	24.36	24.35	24.34	24.33	24.32	24.32	24.32	24.31	24.30	24.30	24.30	24.29	24.28	24.27	24.25	24.24	24.25	24.30	24.26	24.27	24.25	24.26	24.26	24.25	24.29	24.36	24.24	
Avg	24.32	24.32	24.32	24.32	24.32	24.32	24.33	24.33	24.33	24.33	24.32	24.32	24.31	24.31	24.30	24.30	24.30	24.31	24.31	24.31	24.32	24.33	24.32	24.32	24.32	24.32	24.39	24.25
Max	24.57	24.57	24.57	24.56	24.56	24.57	24.58	24.58	24.57	24.57	24.58	24.57	24.56	24.55	24.56	24.55	24.55	24.57	24.57	24.56	24.57	24.58	24.57	24.57	24.56	24.58	24.53	
Min	23.93	23.93	23.92	23.93	23.94	23.94	23.92	23.91	23.90	23.90	23.89	23.89	23.90	23.89	23.88	23.88	23.89	23.91	23.92	23.95	23.95	23.95	23.94	23.94	23.94	24.12	23.88	

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
June 2017

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	24.25	24.24	24.25	24.23	24.24	24.25	24.26	24.26	24.26	24.25	24.24	24.23	24.23	24.22	24.20	24.19	24.21	24.24	24.25	24.26	24.27	24.28	24.28	24.29	24.24	24.29	24.19
2	24.29	24.30	24.31	24.32	24.34	24.36	24.38	24.37	24.39	24.39	24.39	24.40	24.39	24.39	24.39	24.39	24.39	24.38	24.39	24.40	24.42	24.44	24.45	24.46	24.38	24.46	24.29
3	24.46	24.47	24.47	24.47	24.48	24.49	24.50	24.48	24.47	24.45	24.44	24.42	24.41	24.40	24.39	24.39	24.38	24.38	24.37	24.38	24.39	24.38	24.38	24.37	24.43	24.50	24.37
4	24.37	24.36	24.35	24.34	24.34	24.35	24.36	24.35	24.34	24.33	24.32	24.30	24.29	24.27	24.25	24.30	24.29	24.27	24.27	24.24	24.27	24.26	24.26	24.34	24.31	24.37	24.24
5	24.31	24.31	24.33	24.32	24.34	24.37	24.40	24.42	24.43	24.44	24.46	24.47	24.47	24.47	24.47	24.47	24.47	24.48	24.50	24.51	24.53	24.54	24.55	24.55	24.44	24.55	24.31
6	24.56	24.57	24.56	24.56	24.56	24.57	24.58	24.57	24.57	24.55	24.54	24.54	24.52	24.51	24.50	24.49	24.48	24.48	24.48	24.49	24.49	24.49	24.49	24.48	24.53	24.58	24.48
7	24.47	24.46	24.46	24.46	24.45	24.45	24.45	24.44	24.43	24.42	24.41	24.40	24.39	24.38	24.37	24.36	24.35	24.34	24.35	24.38	24.44	24.42	24.39	24.38	24.41	24.47	24.34
8	24.38	24.36	24.34	24.31	24.30	24.30	24.29	24.27	24.25	24.24	Au	Au	Au	Au	Au	24.13	24.10	24.08	24.08	24.09	24.12	24.14	24.15	24.16	24.22	24.38	24.08
9	24.16	24.15	24.15	24.16	24.17	24.19	24.18	24.18	24.18	24.16	24.14	24.13	24.12	24.12	24.10	24.11	24.11	24.10	24.09	24.08	24.09	24.09	24.10	24.10	24.13	24.19	24.08
10	24.09	24.08	24.08	24.08	24.08	24.08	24.07	24.07	24.07	24.06	24.06	24.05	24.05	24.06	24.07	24.06	24.06	24.10	24.11	24.14	24.16	24.17	24.18	24.19	24.09	24.19	24.05
11	24.19	24.19	24.20	24.20	24.21	24.24	24.27	24.28	24.28	24.28	24.28	24.29	24.28	24.28	24.27	24.26	24.26	24.25	24.25	24.24	24.24	24.26	24.25	24.25	24.25	24.29	24.19
12	24.24	24.22	24.22	24.22	24.22	24.24	24.21	24.20	24.20	24.19	24.17	24.14	24.11	24.10	24.08	24.08	24.07	24.06	24.14	24.13	24.11	24.08	24.07	24.07	24.15	24.24	24.06
13	24.02	23.99	23.99	24.01	24.01	24.00	24.00	23.99	24.00	24.02	24.02	24.04	24.05	24.07	24.08	24.10	24.12	24.15	24.16	24.18	24.20	24.21	24.21	24.23	24.08	24.23	23.99
14	24.25	24.25	24.25	24.26	24.27	24.27	24.27	24.27	24.28	24.28	24.29	24.29	24.28	24.29	24.30	24.29	24.30	24.31	24.32	24.33	24.33	24.34	24.35	24.34	24.29	24.35	24.25
15	24.34	24.34	24.35	24.34	24.35	24.36	24.38	24.37	24.38	24.38	24.37	24.36	24.36	24.35	24.34	24.34	24.33	24.32	24.32	24.32	24.32	24.31	24.31	24.30	24.34	24.38	24.30
16	24.29	24.28	24.27	24.27	24.27	24.28	24.29	24.29	24.29	24.29	24.29	24.28	24.27	24.27	24.27	24.25	24.25	24.26	24.25	24.25	24.25	24.27	24.28	24.28	24.27	24.29	24.25
17	24.28	24.29	24.30	24.31	24.33	24.34	24.36	24.36	24.38	24.39	24.41	24.41	24.42	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.42	24.41	24.41	24.38	24.42	24.28
18	24.40	24.40	24.40	24.41	24.41	24.41	24.42	24.43	24.43	24.43	24.43	24.44	24.44	24.44	24.44	24.45	24.46	24.46	24.47	24.48	24.49	24.50	24.51	24.51	24.44	24.51	24.40
19	24.51	24.51	24.51	24.52	24.52	24.54	24.55	24.55	24.54	24.53	24.52	24.52	24.51	24.50	24.49	24.49	24.47	24.45	24.44	24.44	24.45	24.46	24.45	24.44	24.50	24.55	24.44
20	24.43	24.41	24.41	24.40	24.39	24.40	24.41	24.42	24.41	24.40	24.40	24.40	24.38	24.36	24.34	24.33	24.33	24.31	24.30	24.30	24.31	24.30	24.31	24.32	24.37	24.43	24.30
21	24.33	24.34	24.35	24.35	24.36	24.37	24.37	24.37	24.37	24.36	24.36	24.35	24.32	24.30	24.29	24.28	24.27	24.28	24.29	24.30	24.32	24.35	24.36	24.36	24.33	24.37	24.27
22	24.36	24.37	24.37	24.38	24.38	24.39	24.40	24.40	24.39	24.39	24.40	24.41	24.42	24.44	24.46	24.47	24.49	24.50	24.53	24.54	24.55	24.57	24.57	24.58	24.45	24.58	24.36
23	24.57	24.56	24.56	24.57	24.57	24.58	24.59	24.60	24.60	24.59	24.58	24.57	24.57	24.56	24.56	24.56	24.56	24.57	24.58	24.58	24.59	24.61	24.61	24.61	24.58	24.61	24.56
24	24.61	24.61	24.61	24.62	24.62	24.63	24.65	24.65	24.64	24.63	24.63	24.63	24.62	24.62	24.61	24.61	24.61	24.61	24.61	24.62	24.64	24.66	24.67	24.67	24.63	24.67	24.61
25	24.66	24.65	24.64	24.64	24.64	24.65	24.66	24.65	24.64	24.63	24.62	24.61	24.60	24.60	24.59	24.58	24.56	24.55	24.55	24.54	24.55	24.55	24.55	24.54	24.60	24.66	24.54
26	24.53	24.52	24.51	24.50	24.49	24.49	24.48	24.47	24.44	24.42	24.41	24.39	24.37	24.34	24.32	24.31	24.29	24.26	24.25	24.24	24.25	24.26	24.29	24.32	24.38	24.53	24.24
27	24.32	24.30	24.29	24.22	24.23	24.24	24.25	24.25	24.23	24.23	24.23	24.24	24.24	24.23	24.23	24.21	24.21	24.21	24.21	24.23	24.24	24.25	24.24	24.24	24.24	24.32	24.21
28	24.24	24.23	24.22	24.22	24.22	24.22	24.23	24.23	24.22	24.21	24.20	24.20	24.20	24.20	24.19	24.18	24.19	24.21	24.22	24.25	24.26	24.28	24.29	24.31	24.23	24.31	24.18
29	24.33	24.34	24.34	24.35	24.36	24.38	24.40	24.42	24.43	24.45	24.45	24.46	24.46	24.47	24.48	24.48	24.49	24.50	24.51	24.52	24.52	24.53	24.54	24.53	24.45	24.54	24.33
30	24.53	24.52	24.51	24.51	24.51	24.52	24.53	24.53	24.52	24.51	24.50	24.49	24.48	24.47	24.46	24.46	24.45	24.44	24.44	24.43	24.44	24.44	24.44	24.44	24.48	24.53	24.43
Avg	24.36	24.35	24.35	24.35	24.36	24.37	24.37	24.37	24.37	24.36	24.36	24.36	24.35	24.35	24.34	24.33	24.33	24.33	24.34	24.34	24.36	24.36	24.36	24.37	24.35	24.43	24.29
Max	24.66	24.65	24.64	24.64	24.64	24.65	24.66	24.65	24.64	24.63	24.63	24.63	24.62	24.62	24.61	24.61	24.61	24.61	24.61	24.62	24.64	24.66	24.67	24.67	24.63	24.67	24.61
Min	24.02	23.99	23.99	24.01	24.01	24.00	24.00	23.99	24.00	24.02	24.02	24.04	24.05	24.06	24.07	24.06	24.06	24.06	24.08	24.08	24.09	24.08	24.07	24.07	24.08	24.19	23.99

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
April 2017

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	90.6	90.6	91.4	91.8	91.1	90.5	90.1	91.5	90.4	72.5	54.8	46.2	42.6	41.6	39.6	37.2	36.7	38.0	39.5	43.0	48.1	56.2	59.5	58.4	63.8	91.8	36.7
2	57.9	62.8	66.1	68.6	70.6	72.2	77.5	75.9	65.3	58.0	50.3	46.8	39.1	35.5	28.9	22.7	24.9	22.3	25.3	38.0	48.3	52.7	60.1	62.3	51.3	77.5	22.3
3	63.8	66.9	70.2	70.9	76.6	82.0	85.0	78.9	72.1	68.0	67.6	60.5	54.9	68.8	65.5	66.1	71.3	72.8	74.0	75.3	78.1	78.1	85.6	86.2	72.5	86.2	54.9
4	86.5	86.6	87.3	86.9	83.1	79.3	79.5	70.1	59.3	57.7	53.6	47.3	42.0	36.2	31.4	32.8	31.4	33.3	39.6	51.9	59.6	68.6	75.2	79.2	60.8	87.3	31.4
5	80.4	81.3	81.8	81.5	81.0	79.4	79.1	69.7	46.6	33.0	35.6	36.6	37.9	39.3	41.1	43.8	47.4	47.6	55.4	64.0	71.6	78.0	82.2	85.9	61.7	85.9	33.0
6	87.3	87.9	86.6	85.4	87.7	87.2	83.2	79.4	47.6	38.3	37.4	34.9	34.5	32.2	29.4	29.9	28.9	29.8	31.7	37.6	41.8	40.8	44.0	47.3	52.9	87.9	28.9
7	49.5	57.7	63.5	72.5	75.0	80.8	81.1	66.6	46.7	34.0	35.1	37.2	38.1	51.9	82.2	79.6	74.5	81.9	81.6	63.5	63.1	63.5	66.6	79.7	63.6	82.2	34.0
8	82.6	85.3	89.3	88.6	89.7	90.9	90.1	87.6	79.2	62.1	46.0	40.8	38.2	37.4	50.6	47.3	75.4	92.2	92.0	93.4	93.8	93.3	93.4	93.9	76.4	93.9	37.4
9	93.5	91.8	90.4	90.9	89.8	88.1	89.1	88.9	88.5	85.9	84.3	84.0	83.1	81.6	81.3	80.0	81.9	79.1	81.9	87.0	90.4	88.9	86.2	84.8	86.3	93.5	79.1
10	83.5	82.4	82.5	82.3	82.5	82.5	83.3	88.0	80.6	59.7	58.6	54.8	52.3	56.1	57.9	56.2	70.8	83.5	85.7	84.6	81.0	77.1	73.3	80.0	74.1	88.0	52.3
11	87.0	85.9	85.2	83.8	84.8	81.3	78.3	67.2	48.2	43.5	39.1	35.8	32.6	32.0	29.9	32.1	31.8	33.5	47.9	63.8	67.0	58.5	42.8	58.9	56.3	87.0	29.9
12	77.8	79.9	83.6	88.5	86.6	85.8	86.3	82.9	77.6	73.4	67.1	61.5	59.6	56.8	55.5	56.3	58.2	66.8	69.7	69.9	68.0	73.2	74.0	71.1	72.1	88.5	55.5
13	71.9	75.5	77.2	79.3	82.5	75.7	78.1	57.7	45.6	36.9	26.3	23.2	24.5	25.0	22.4	25.3	52.0	62.7	77.8	88.2	87.3	88.7	89.9	91.9	61.1	91.9	22.4
14	92.1	91.8	92.6	94.5	94.6	92.4	87.3	83.4	79.8	73.6	68.5	58.7	52.7	51.0	45.0	44.7	41.1	40.5	47.6	53.2	62.3	65.1	75.4	84.3	69.7	94.6	40.5
15	66.9	73.0	69.1	68.9	66.5	65.8	63.1	58.1	55.8	54.6	50.6	42.9	35.8	34.3	32.3	34.0	34.2	36.0	37.9	43.4	47.7	55.4	53.9	52.6	51.4	73.0	32.3
16	59.0	66.2	69.7	75.0	75.9	78.6	75.7	64.3	52.8	48.3	40.3	32.1	24.7	25.1	24.7	24.5	23.3	26.9	34.8	36.2	37.0	41.7	50.1	51.1	47.4	78.6	23.3
17	53.3	55.2	52.8	53.9	54.0	53.2	53.8	57.7	56.0	67.7	70.0	73.9	61.5	66.2	85.0	75.5	55.5	52.7	51.7	54.6	57.4	63.1	75.6	80.5	61.7	85.0	51.7
18	83.6	85.7	86.6	86.9	88.7	88.9	87.9	76.7	57.6	48.4	45.2	40.0	36.5	35.1	34.3	33.8	33.9	38.2	43.1	52.8	65.7	78.5	90.0	93.4	63.0	93.4	33.8
19	94.4	94.6	94.7	94.4	87.7	81.7	84.3	78.3	70.8	66.4	60.9	52.0	47.1	41.0	36.5	35.3	33.3	27.4	29.9	43.1	61.2	66.5	75.9	79.1	64.0	94.7	27.4
20	79.5	82.2	82.4	82.9	83.9	81.8	76.3	72.4	47.4	33.1	29.4	28.8	26.7	30.5	28.8	28.5	48.9	59.9	67.2	78.1	80.5	85.8	88.9	92.4	62.3	92.4	26.7
21	92.4	94.4	94.6	94.9	95.1	95.1	95.0	94.4	89.6	83.3	84.6	85.6	85.9	82.4	79.3	76.3	76.8	76.3	79.2	83.6	86.6	89.3	89.5	92.4	87.4	95.1	76.3
22	93.6	93.5	92.2	92.2	92.9	92.7	88.5	78.9	75.6	70.4	61.2	54.0	49.1	45.1	43.2	36.0	34.5	36.6	41.8	56.9	61.3	64.4	74.5	78.1	67.0	93.6	34.5
23	81.5	84.2	85.6	82.1	88.1	82.6	86.2	75.4	63.6	50.3	66.4	77.6	69.7	64.4	66.6	82.6	84.7	83.6	80.9	83.2	89.1	92.4	92.3	92.5	79.4	92.5	50.3
24	93.0	92.8	92.4	92.7	92.3	92.3	91.4	89.0	80.1	65.5	57.8	50.9	56.0	50.9	42.0	45.6	51.8	63.6	69.1	82.2	86.8	88.5	89.8	91.2	75.3	93.0	42.0
25	89.6	90.6	92.8	92.4	92.7	92.7	91.4	85.1	79.4	87.5	86.6	70.7	72.7	85.7	67.6	71.7	67.0	75.4	77.6	77.2	81.3	88.8	91.1	93.5	83.4	93.5	67.0
26	94.5	94.2	94.7	94.5	94.3	94.3	93.9	91.2	87.7	78.0	75.9	78.1	69.7	63.5	67.8	84.7	80.0	78.4	73.3	85.9	87.7	88.4	90.9	92.8	84.8	94.7	63.5
27	93.4	93.5	93.6	93.3	89.6	87.7	87.9	81.9	77.9	75.2	74.4	71.3	67.4	84.5	89.5	87.4	88.3	85.5	87.5	88.5	86.3	85.2	84.3	86.0	85.0	93.6	67.4
28	87.3	87.5	89.4	90.8	90.3	91.3	92.3	90.8	78.1	69.6	63.9	61.8	58.3	56.6	56.2	53.9	55.5	61.8	68.5	82.4	90.4	89.0	90.8	91.0	77.0	92.3	53.9
29	88.7	90.6	90.1	87.6	86.3	87.9	86.8	85.9	73.1	62.0	53.0	48.3	46.4	37.3	32.0	35.6	35.5	32.9	33.1	44.5	60.8	69.3	74.8	82.8	63.6	90.6	32.0
30	85.9	84.8	85.3	64.8	74.4	91.1	92.5	89.6	87.6	87.3	88.1	83.0	77.0	62.6	75.0	71.9	65.7	56.2	63.9	60.5	62.0	62.7	59.0	63.5	74.8	92.5	56.2
Avg	81.4	83.0	83.8	83.8	84.3	84.2	83.8	78.6	68.7	61.5	57.8	54.0	50.6	50.4	50.7	51.0	53.2	55.8	59.6	65.6	70.1	73.1	76.0	79.2	68.3	89.5	43.2
Max	94.5	94.6	94.7	94.9	95.1	95.1	95.0	94.4	90.4	87.5	88.1	85.6	85.9	85.7	89.5	87.4	88.3	92.2	92.0	93.4	93.8	93.3	93.4	93.9	87.4	95.1	79.1
Min	49.5	55.2	52.8	53.9	54.0	53.2	53.8	57.7	45.6	33.0	26.3	23.2	24.5	25.0	22.4	22.7	23.3	22.3	25.3	36.2	37.0	40.8	42.8	47.3	47.4	73.0	22.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
May 2017

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	64.8	67.2	75.9	87.5	87.7	86.4	81.0	82.2	79.2	66.5	60.0	57.6	51.1	63.2	62.9	50.0	47.4	53.0	58.0	61.9	71.0	88.2	89.1	92.4	70.2	92.4	47.4
2	93.8	94.2	94.5	94.3	92.5	90.5	89.9	88.7	85.3	85.8	80.3	77.1	74.7	67.0	68.3	66.2	57.3	50.3	53.7	59.0	67.6	80.4	85.2	87.2	78.5	94.5	50.3
3	87.8	89.3	89.2	90.1	89.0	86.0	83.9	71.9	54.9	48.0	43.9	39.3	35.4	32.6	33.3	33.2	32.1	33.0	37.5	44.1	53.5	63.6	76.8	82.6	59.6	90.1	32.1
4	86.3	89.2	90.1	90.3	92.0	89.7	82.2	71.9	57.5	51.4	45.8	39.5	34.8	30.9	28.3	24.1	22.4	22.0	23.4	41.3	53.3	63.6	68.3	73.9	57.2	92.0	22.0
5	74.4	77.2	82.8	84.8	88.2	86.6	75.2	54.4	33.7	24.9	24.3	22.2	19.5	15.9	18.5	19.4	19.5	19.6	21.6	37.1	47.1	54.3	57.4	58.8	46.6	88.2	15.9
6	65.3	68.7	76.8	80.7	84.8	85.4	76.3	57.6	45.4	46.5	43.2	36.7	31.5	31.4	30.1	32.0	33.8	37.8	45.2	65.7	70.7	70.3	74.5	79.3	57.1	85.4	30.1
7	84.6	89.0	91.3	91.1	90.7	91.6	88.5	80.1	64.3	66.8	71.9	76.0	81.7	86.5	87.8	91.8	89.2	85.0	85.7	88.9	87.2	85.9	88.6	90.0	84.8	91.8	64.3
8	92.0	92.9	92.6	93.5	92.3	92.3	90.5	79.3	61.1	53.8	47.8	42.0	40.1	36.6	32.7	27.0	23.4	25.9	25.9	50.7	54.0	59.5	62.9	67.7	59.9	93.5	23.4
9	68.7	76.3	81.9	84.7	87.8	86.5	81.8	70.6	50.3	47.5	39.7	35.2	30.7	26.7	29.9	27.7	24.1	26.9	37.2	43.7	60.1	65.5	75.2	80.5	55.8	87.8	24.1
10	80.2	80.8	81.6	85.3	87.2	86.7	78.4	61.7	45.2	39.5	36.2	31.9	28.4	27.6	27.6	26.0	21.7	20.3	20.1	45.2	48.1	55.8	67.2	74.4	52.4	87.2	20.1
11	78.6	79.4	81.3	85.1	88.4	88.0	79.3	63.2	44.1	34.7	26.6	22.5	21.5	22.8	21.8	19.9	18.4	24.5	41.7	56.4	67.0	69.5	75.9	80.6	53.8	88.4	18.4
12	84.4	74.9	68.0	61.8	64.8	74.6	75.7	49.3	37.2	32.7	27.8	26.2	26.0	25.6	23.4	22.1	32.2	40.6	41.0	72.5	83.2	84.9	89.4	88.1	54.4	89.4	22.1
13	90.2	90.0	87.6	85.4	84.5	84.4	80.2	75.3	71.5	63.8	60.8	71.3	93.0	94.0	94.1	92.3	86.5	80.5	76.9	77.7	76.7	86.6	90.3	88.5	82.6	94.1	60.8
14	89.3	89.3	87.9	88.7	88.0	85.6	77.3	69.2	62.1	54.7	48.0	55.8	55.7	50.8	42.7	39.5	37.6	36.6	40.5	51.3	65.5	69.1	71.0	77.5	63.9	89.3	36.6
15	79.1	78.2	79.3	81.0	82.3	80.8	77.9	70.2	65.1	62.4	60.1	53.3	49.2	47.3	42.9	39.8	44.8	47.9	69.0	74.4	81.3	84.7	86.8	89.9	67.8	89.9	39.8
16	88.4	91.0	90.9	91.3	90.9	89.1	78.7	72.2	50.8	45.8	47.5	46.3	41.8	38.1	40.6	78.3	74.2	66.5	70.4	69.4	72.5	74.9	76.4	79.0	69.4	91.3	38.1
17	81.7	81.7	82.2	82.1	89.3	91.0	89.7	84.0	83.6	79.1	77.4	74.4	83.1	82.0	81.0	77.9	75.0	77.1	85.4	89.7	88.2	88.6	90.1	91.2	83.6	91.2	74.4
18	91.9	84.2	84.3	85.2	82.5	85.4	78.3	73.8	69.8	63.2	63.8	61.7	56.6	55.1	52.9	52.1	52.4	52.6	53.1	58.1	70.6	81.6	84.0	87.1	70.0	91.9	52.1
19	88.3	89.6	89.7	90.1	89.6	87.4	85.5	82.6	71.3	45.9	39.4	37.1	38.8	42.8	41.6	39.2	36.3	43.4	46.9	59.6	69.5	78.9	82.1	85.9	65.1	90.1	36.3
20	86.9	87.3	88.9	88.9	90.5	88.4	80.7	69.8	53.7	53.3	55.8	60.8	59.0	64.7	75.4	75.2	69.9	73.2	76.9	78.9	86.5	90.8	91.6	93.0	76.7	93.0	53.3
21	93.4	93.3	93.6	93.9	93.6	92.5	84.7	76.3	64.4	55.0	46.6	38.4	37.4	36.0	31.4	31.9	34.2	35.3	39.0	42.1	50.8	67.7	76.8	80.7	62.0	93.9	31.4
22	83.4	87.2	84.9	84.2	85.4	86.2	79.1	58.9	54.8	50.7	58.3	54.3	45.5	41.1	36.0	35.4	39.5	41.8	42.0	46.8	68.3	75.4	79.5	83.0	62.6	87.2	35.4
23	83.9	88.2	87.6	89.0	90.1	89.2	74.2	62.2	44.3	43.1	40.4	37.8	34.6	32.7	31.1	31.5	32.1	32.6	35.4	51.3	63.0	70.8	75.2	86.0	58.6	90.1	31.1
24	86.1	89.9	89.9	88.3	72.6	48.3	44.2	50.8	37.4	29.0	29.1	22.6	20.4	18.5	20.2	19.8	22.2	25.5	27.4	32.0	36.1	39.8	43.9	47.6	43.4	89.9	18.5
25	65.8	82.8	88.3	92.9	94.1	94.8	95.3	92.3	87.8	84.8	80.3	76.8	66.4	56.4	49.8	51.2	56.8	61.1	59.0	64.6	73.4	80.1	85.4	88.5	76.2	95.3	49.8
26	89.7	90.7	91.5	91.8	92.9	91.2	78.4	62.2	48.2	40.0	37.5	38.6	37.7	37.8	39.3	39.1	33.9	35.3	42.5	52.5	61.9	69.3	77.1	76.6	60.7	92.9	33.9
27	78.0	81.2	84.4	90.3	90.7	84.8	76.0	62.9	53.6	51.4	42.9	36.9	37.1	34.1	33.7	33.9	33.2	34.8	37.3	40.4	53.6	65.8	70.8	74.1	57.6	90.7	33.2
28	78.4	81.1	85.3	88.0	87.2	88.5	86.0	75.0	51.1	46.0	45.3	40.3	45.6	39.4	40.4	41.4	40.4	55.9	59.5	67.9	69.4	75.9	78.4	81.1	64.5	88.5	39.4
29	84.3	87.6	88.9	92.6	92.7	89.8	77.3	64.2	52.5	42.3	37.5	35.8	35.2	34.7	30.1	32.0	32.2	33.6	44.1	51.5	57.9	66.3	71.8	68.4	58.5	92.7	30.1
30	72.5	76.4	79.2	81.5	85.2	85.7	77.3	57.2	42.3	35.2	33.1	33.5	33.9	36.4	49.0	48.0	50.3	41.7	47.7	51.1	60.4	64.5	73.6	76.9	58.0	85.7	33.1
31	78.6	77.6	80.5	83.2	84.2	80.3	69.0	48.2	39.7	35.5	32.5	30.3	29.1	27.1	28.6	33.1	40.4	75.1	76.3	70.9	75.8	82.1	86.4	82.4	60.3	86.4	27.1
Avg	82.3	84.1	85.5	87.0	87.5	86.1	79.8	69.0	56.8	50.9	47.9	45.6	44.4	43.1	42.8	42.9	42.4	44.8	49.0	58.0	65.9	72.7	77.5	80.4	63.6	90.5	36.3
Max	93.8	94.2	94.5	94.3	94.1	94.8	95.3	92.3	87.8	85.8	80.3	77.1	93.0	94.0	94.1	92.3	89.2	85.0	85.7	89.7	88.2	90.8	91.6	93.0	84.8	95.3	74.4
Min	64.8	67.2	68.0	61.8	64.8	48.3	44.2	48.2	33.7	24.9	24.3	22.2	19.5	15.9	18.5	19.4	18.4	19.6	20.1	32.0	36.1	39.8	43.9	47.6	43.4	85.4	15.9

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
June 2017

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	84.8	86.6	89.7	88.9	86.9	88.8	84.8	72.3	61.6	46.7	36.7	33.9	38.0	36.4	32.6	32.4	33.7	57.1	57.0	61.0	62.3	71.2	79.8	77.6	62.5	89.7	32.4
2	81.2	81.9	85.1	86.8	88.5	73.5	65.9	60.2	56.4	51.7	44.1	40.9	39.1	35.3	34.2	34.9	32.1	31.3	34.3	41.7	51.3	67.0	73.0	79.9	57.1	88.5	31.3
3	82.9	86.3	86.6	87.7	89.8	82.3	76.0	58.8	38.3	36.0	34.0	32.6	31.0	27.4	26.7	23.6	24.2	26.5	33.7	45.8	53.6	57.6	64.0	71.6	53.2	89.8	23.6
4	77.3	82.5	78.5	81.9	84.0	83.9	82.0	62.3	36.6	28.8	24.8	22.8	22.8	23.5	25.5	59.8	60.2	49.6	54.8	61.3	57.5	62.1	70.9	85.9	57.5	85.9	22.8
5	85.4	89.6	87.5	90.0	90.2	84.4	80.3	76.0	73.0	69.2	63.2	61.9	56.4	49.1	43.1	37.0	41.2	45.1	55.0	60.5	69.7	81.3	87.8	90.1	69.5	90.2	37.0
6	93.1	93.3	93.7	93.9	94.0	88.6	77.9	63.9	57.4	53.2	51.6	48.8	46.2	45.4	46.4	49.1	50.9	53.0	55.4	56.5	58.8	62.1	60.1	59.8	64.7	94.0	45.4
7	62.1	66.9	71.8	75.0	80.1	75.9	62.2	55.8	55.0	49.3	43.7	39.2	37.4	35.9	33.7	33.6	36.4	41.8	49.3	62.1	79.3	79.8	78.6	78.6	57.6	80.1	33.6
8	82.0	88.8	90.1	91.8	94.4	92.8	83.6	66.6	46.8	42.2	Au	Au	Au	Au	Au	36.9	29.6	27.7	21.7	26.0	47.2	62.1	72.4	77.7	62.1	94.4	21.7
9	82.2	85.8	87.0	90.9	88.4	84.1	61.7	61.4	57.4	54.5	53.2	59.9	59.8	76.5	78.9	83.9	85.9	84.9	84.6	87.7	87.9	87.3	90.0	89.0	77.6	90.9	53.2
10	91.1	92.5	93.5	94.2	94.1	92.7	89.4	77.0	64.3	54.2	54.1	56.4	54.4	66.6	65.0	51.8	53.0	72.2	70.9	71.4	72.3	85.0	88.5	89.7	74.8	94.2	51.8
11	88.9	89.4	89.5	89.5	90.0	85.6	78.3	58.7	49.6	44.4	40.7	32.8	30.1	27.3	26.5	22.9	19.3	19.3	25.5	45.9	57.1	62.5	69.8	73.5	54.9	90.0	19.3
12	79.4	76.3	57.4	65.7	56.5	44.5	48.6	45.7	48.9	53.5	54.9	48.5	42.6	43.3	42.9	42.6	46.7	52.9	87.3	92.0	89.1	90.1	89.4	91.1	62.1	92.0	42.6
13	91.0	88.1	90.1	90.1	90.7	92.0	89.7	87.9	83.7	79.9	80.8	81.0	84.4	84.2	84.0	86.2	84.4	86.6	88.4	89.9	89.3	87.7	88.7	88.1	87.0	92.0	79.9
14	87.1	86.2	86.9	87.5	85.9	83.8	80.2	72.7	65.1	59.9	55.1	52.2	46.7	40.9	39.0	36.9	35.5	34.8	34.2	38.5	47.1	44.5	37.9	39.3	57.4	87.5	34.2
15	42.4	39.7	44.8	66.1	70.6	75.5	69.2	61.8	49.7	47.3	45.8	45.1	43.4	44.0	49.1	53.9	54.1	56.0	58.5	63.1	67.6	74.0	74.6	77.7	57.2	77.7	39.7
16	77.2	77.1	77.6	75.4	72.6	70.8	66.8	67.0	63.9	62.2	60.3	53.8	51.3	55.2	55.8	55.4	64.6	80.2	73.4	68.3	63.4	69.4	69.2	70.7	66.7	80.2	51.3
17	71.8	74.7	72.8	71.1	71.6	70.7	65.3	62.8	61.3	56.4	55.8	54.0	51.3	49.0	45.1	43.9	41.7	39.0	37.8	43.7	61.2	73.8	78.0	81.0	59.7	81.0	37.8
18	83.8	85.4	86.7	88.2	83.9	64.1	60.4	63.8	64.3	64.1	62.0	64.8	62.8	58.5	56.0	55.0	54.8	53.8	53.0	56.3	59.9	68.0	74.8	81.2	66.9	88.2	53.0
19	86.0	89.0	90.8	92.1	93.5	89.1	77.2	67.0	63.4	59.7	54.2	52.2	46.7	42.9	39.3	35.6	33.9	33.3	37.4	45.8	63.6	69.4	73.1	76.0	63.0	93.5	33.3
20	78.3	75.0	76.0	80.1	83.8	85.6	82.1	77.5	70.6	60.1	56.5	53.5	48.5	43.4	43.4	42.8	43.7	40.5	39.2	39.5	48.0	39.1	42.4	42.8	58.0	85.6	39.1
21	50.6	50.5	52.1	57.2	56.0	57.0	52.7	44.8	39.2	42.3	37.1	32.4	24.3	26.6	27.0	21.2	20.3	23.0	24.9	27.5	30.9	37.2	46.2	65.8	39.4	65.8	20.3
22	68.9	71.5	75.6	77.1	80.1	78.7	66.1	49.7	37.2	33.9	33.5	36.9	37.3	34.1	33.6	33.7	39.7	48.3	51.0	53.0	61.6	73.3	80.5	83.4	55.8	83.4	33.5
23	86.2	86.5	87.9	89.6	89.0	87.9	80.9	71.8	52.6	48.2	45.9	43.2	39.5	36.1	32.9	29.1	34.9	41.8	45.9	54.5	57.4	66.8	73.9	74.3	60.7	89.6	29.1
24	82.9	85.2	84.1	85.2	88.6	84.9	71.7	57.2	37.3	32.7	31.1	34.4	33.8	30.1	31.0	31.9	33.7	34.1	32.9	44.3	50.0	54.2	54.2	54.6	52.5	88.6	30.1
25	57.4	64.2	69.1	75.6	77.0	75.5	68.5	53.3	43.8	35.1	33.8	32.1	29.4	28.0	25.4	25.7	25.8	26.7	29.8	38.5	49.4	51.3	54.5	63.6	47.2	77.0	25.4
26	70.2	74.0	77.6	81.0	84.4	78.9	65.2	46.3	35.7	30.5	29.5	27.5	25.0	23.5	21.7	26.4	23.7	21.6	24.1	32.6	53.6	54.1	42.5	56.1	46.1	84.4	21.6
27	74.7	86.3	87.9	88.1	90.7	91.4	90.9	74.5	63.8	64.7	65.7	63.1	55.3	53.4	47.2	40.8	35.7	35.4	41.0	50.9	75.0	84.1	88.3	90.7	68.3	91.4	35.4
28	91.3	93.2	93.8	95.1	95.0	95.2	90.5	75.0	48.1	44.5	33.5	30.2	31.5	30.3	27.9	28.1	32.8	34.5	38.4	37.2	43.0	50.3	65.3	73.3	57.4	95.2	27.9
29	72.7	76.4	80.5	84.2	87.2	83.1	83.8	70.5	70.8	66.3	60.6	58.0	56.4	53.4	51.2	48.3	55.3	52.3	53.8	57.1	69.9	81.9	85.7	89.2	68.7	89.2	48.3
30	91.2	90.6	93.2	93.2	93.3	91.8	83.1	67.4	54.5	49.1	40.7	36.2	33.3	31.3	29.3	27.0	25.9	25.7	24.0	35.0	58.0	61.7	67.0	71.1	57.2	93.3	24.0
Avg	78.5	80.5	81.3	83.8	84.4	81.1	74.5	64.3	55.0	50.7	47.7	45.8	43.4	42.5	41.2	41.0	41.8	44.3	47.2	52.9	61.2	67.0	70.7	74.8	60.8	87.4	36.0
Max	93.1	93.3	93.8	95.1	95.0	95.2	90.9	87.9	83.7	79.9	80.8	81.0	84.4	84.2	84.0	86.2	85.9	86.6	88.4	92.0	89.3	90.1	90.0	91.1	87.0	95.2	79.9
Min	42.4	39.7	44.8	57.2	56.0	44.5	48.6	44.8	35.7	28.8	24.8	22.8	22.8	23.5	21.7	21.2	19.3	19.3	21.7	26.0	30.9	37.2	37.9	39.3	39.4	65.8	19.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
April 2017

Day	<< Hour >>																								Tot	Max	
	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.040	0.060
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.080	0.050	0.010	0.000	0.010	0.000	0.010	0.240	0.080	0.080
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.040	0.030	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.140	0.050	0.050
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.050	0.020	0.020
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.060	0.020	0.000	0.100	0.060	0.060
14	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.020	0.020
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.030	0.030
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.090	0.030	0.130	0.090	0.090
19	0.010	0.000	0.000	0.000	0.010	0.010	0.000	0.020	0.040	0.060	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.190	0.060	0.060
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010
21	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.010	0.000	0.080	0.060	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.200	0.080	0.080
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.000	0.010	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.050	0.050
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.030	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.030	0.030
26	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.030	0.030
27	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.020	0.020
28	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.010	0.010
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.090	0.060	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.200	0.090	0.090
Tot	0.030	0.010	0.020	0.010	0.010	0.030	0.030	0.050	0.060	0.270	0.200	0.050	0.050	0.090	0.160	0.170	0.100	0.090	0.090	0.010	0.000	0.080	0.110	0.050	1.770	0.000	0.000
Max	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.040	0.090	0.060	0.020	0.030	0.050	0.040	0.050	0.080	0.080	0.050	0.010	0.000	0.060	0.090	0.030	0.240	0.090	0.090

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
May 2017

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.030	0.010	
2	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.020	0.090	0.020	0.040	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210	0.090
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.060	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	0.060
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010	0.010
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.030	0.030
13	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.020	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.130	0.060
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.010
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.030
17	0.000	0.000	0.000	0.000	0.030	0.030	0.060	0.000	0.010	0.000	0.000	0.010	0.030	0.040	0.050	0.000	0.010	0.000	0.060	0.020	0.040	0.030	0.020	0.000	0.440	0.060
18	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.090	0.110	0.000	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.110
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.010	0.000	0.000	0.010	0.000	0.170	0.070	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.270	0.170
26	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.050	0.010	0.000	0.000	0.000	0.000	0.000	0.080	0.050
Tot	0.010	0.020	0.010	0.010	0.030	0.030	0.070	0.020	0.270	0.090	0.060	0.040	0.070	0.170	0.210	0.150	0.090	0.050	0.080	0.060	0.040	0.030	0.030	0.010	1.650	0.000
Max	0.010	0.010	0.010	0.010	0.030	0.030	0.060	0.020	0.170	0.070	0.040	0.020	0.030	0.090	0.110	0.060	0.030	0.050	0.060	0.030	0.040	0.030	0.020	0.010	0.440	0.170

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
June 2017

Day	<< Hour >>																								Tot	Max	
	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.110	0.200	0.10	
5	0.020	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.020	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.330	0.110	0.010	0.000	0.000	0.450	0.330	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Au	Au	Au	Au	Au	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.020	0.010	0.060	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.060	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.050	0.050	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.340	0.300	0.180	0.070	0.000	0.030	0.920	0.340	
13	0.040	0.000	0.000	0.250	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.010	0.000	0.040	0.090	0.020	0.060	0.060	0.000	0.000	0.000	0.000	0.750	0.250	
14	0.000	0.010	0.000	0.020	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.030	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.010	0.020	0.000	0.080	0.050	
17	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.040	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.070	0.000	0.010	0.000	0.140	0.070	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tot	0.100	0.050	0.010	0.270	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.010	0.170	0.160	0.080	0.400	0.700	0.360	0.100	0.040	0.140	2.850	0.000	
Max	0.040	0.020	0.010	0.250	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.030	0.020	0.010	0.070	0.090	0.050	0.340	0.330	0.180	0.070	0.020	0.110	0.920	0.340	

APPENDIX B: PERFORMANCE AUDIT REPORT

SECOND QUARTER 2017



Bison Engineering

Preliminary Meteorological Parameters Audit Form

Audit Dates: 06/08/2017 Tower Lowered : 10:05 MST Tower Back Up : 14:50 MST
 Client: Tintina Resources
 Site: Black Butte
 AUDITOR: Steve Heck STATION OPERATOR: Jeff Bell

Temperature

Audit Device: Control Company - digital thermometer Model 4000
 Meter S/N: 130236679 Temperature Sensor: Climatronics 100093
 Last certified: 7/20/2016 S/N P12535 (Upper), S/N P12535 (Lower) - Matched Set

Temperature bath results

	9m	9m	2m	2m	9m - 2m
Audit	DAS	DAS	DAS	DAS	DAS
Value	Value	Diff.	Value	Diff.	Diff.
°C	°C	°C	°C	°C	°C
0.07	0.19	0.12	0.25	0.18	-0.06
19.51	19.40	-0.11	19.47	-0.04	-0.07
37.10	37.24	0.14	37.29	0.19	-0.05

Wind Direction

Sensor height: 9 Meter	Sensor (Make/model number): Climatronics/ 102083	Serial Number : P1336C	Crossarm orientation (from Garmin GPS): 1.0 / 181.0	Setpoint	Clockwise	Linearity Check from DAS		
						Counter-CW	Diff CW	Diff CCW
				0	0.1	0.1	0.1	0.1
				30	29.9	29.5	-0.1	-0.5
				60	59.7	59.3	-0.3	-0.7
				90	89.8	89.4	-0.2	-0.6
				120	119.6	119.1	-0.4	-0.9
				150	149.5	149.0	-0.5	-1.0
				180	179.1	178.9	-0.9	-1.1
				210	208.9	208.5	-1.1	-1.5
				240	238.6	238.2	-1.4	-1.8
				270	268.5	268.1	-1.5	-1.9
				300	298.0	297.6	-2.0	-2.4
				330	328.8	328.4	-1.2	-1.6
						Max Diff	-2.0	-2.4

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

Wind Speed

Sensor height:: 9 Meter
 Sensor (Make/model number): Climatronics/ 102083
 Serial Number : P1336C
 Calibration device: Weathertronics 300 rpm synchronous motor
 Weathertronics 600 rpm synchronous motor

Synchronous motor checks

Known	Known	DAS	DAS
Value	Value	Value	Diff.
RPM	m/s	m/s	m/s
0	0.22	0.22	0.00
300	6.66	6.65	-0.01
600	13.09	13.08	-0.01

Threshold Torque: 0.004 oz.-in.
 (Waters Model 366-3 torque watch)

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley August 2016)

Time (MST)	CTS Value (W/m2)	Site Value (W/m2)	Diff. (%)	Diff. (% FS)
1423	505	507	0.4	0.2
1429	394	396	0.5	0.2
1436	317	321	1.3	0.3

Relative Humidity

Site Sensor: Met One 083E-0-35
Sensor Height: 2 meters
Reference Std: Assmann Psychrometer, thermometer calibrations checked March 2017

Ref Dry-Bulb: 24.8 deg C BP = 24.18 in. Hg
Ref Wet-Bulb: 15.9 deg C
Ref RH: 42.6 %RH
Station RH: 39.3 %RH
Diff: -3.3 %RH

Barometric Pressure

Audit Device: Wallace & Tiernan Model FA185260, S/N LL03297.
Checked against Bison Mercury barometer (Butte) June 2017

Audit Value: 24.18 in Hg
Station Value: 24.15 in Hg
Diff: -0.03 in Hg

Precipitation

Rain Gauge = Met One Model 375
Level checked OK
Wind Screen in place
8" opening Precip audit performed during hour ending at 1500 MST

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

Unit registered 70 tips
% difference from expected = 4.5%

Signature Site Operator : _____

Signature Auditor : 

APPENDIX C: CALIBRATION REPORT

SECOND QUARTER 2017

No calibration adjustments were made to any instruments based on the performance audit results. The aspirator fans were replaced as preventative maintenance.

APPENDIX D: EVAPORATION AND PRECIPITATION SUMMARY, SECOND QUARTER 2017

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
5/1/2017	N/A**	No Data	No Data	No Data	No Data	No Data	No Data
5/8/2017	1000	No Data	No Data	0.25	0.35	No Data	No Data
5/12/2017	0900	Start	3.500	0.00	0.01	No Data	No Data
5/15/2017	1300	3.312	3.312	0.05	0.16	0.238	0.188
5/18/2017	1000	3.592	3.592	0.51	0.50	0.230	-0.280
6/1/2017	1130	1.696	3.500	0.65	0.63	2.546	1.896
TOTAL PRECIPITATION FOR MAY 1 - JUNE 1				1.46	1.65		
TOTAL EVAPORATION FOR MAY 12 - JUNE 1						2.78	1.62

** Data sheet for April could not be found, assumed May 1 start date for manual gauge total shown on May 8.
The evaporation pan was not operated during April.

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
6/1/2017	1130		3.500				
6/8/2017	1015	2.594	2.594	0.72	0.70	1.626	0.906
6/14/2017	1120	3.174	3.174	1.99	1.92	1.410	-0.580
6/15/2017	1135	2.930	2.930	0.00	0.00	0.244	0.244
6/16/2017	1400	2.808	2.808	0.00	0.00	0.122	0.122
6/21/2017	1040	2.024	2.024	0.07	0.09	0.854	0.784
6/26/2017	1240	1.020	3.500	0.00	0.00	1.004	1.004
6/27/2017	1140	3.402	3.402	0.05	0.05	0.148	0.098
6/30/2017	1200	2.865	2.865	0.10	0.09	0.637	0.537
TOTAL FOR JUNE 1 - JUNE 30				2.93	2.85	6.05	3.12