

**APPENDIX A: HOURLY METEOROLOGICAL DATA, SECOND
QUARTER 2012**

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Wind Speed (meters per second)
May 2012

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	3.0	2.5	2.3	2.9	2.9	3.7	5.1	5.4	4.7	8.4	9.6	12.3	11.9	11.1	9.6	9.2	8.8	7.1	5.5	2.6	1.3	1.9	1.1	5.6	12.3	1.1
2	1.8	1.9	1.7	1.5	2.0	2.2	1.6	1.4	4.8	5.1	6.0	5.0	4.3	5.9	6.4	7.8	6.2	5.2	6.2	4.5	2.3	2.0	2.1	1.5	3.7	7.8	1.4
3	1.8	1.6	1.8	1.7	1.3	1.2	1.6	1.4	5.0	5.9	6.0	6.0	5.7	3.6	2.8	4.9	4.1	2.0	1.9	2.7	2.3	2.7	2.5	2.1	3.0	6.0	1.2
4	1.6	0.9	1.0	0.8	0.8	1.0	0.7	1.0	3.2	4.6	4.9	4.5	3.1	3.6	3.2	2.6	1.9	3.3	6.4	4.3	2.9	2.8	1.2	3.0	2.6	6.4	0.7
5	3.5	2.9	4.2	4.5	3.4	3.4	5.0	4.4	5.4	6.1	6.9	8.4	7.9	8.3	7.6	9.0	9.7	7.8	9.2	7.3	6.5	6.8	4.1	3.6	6.1	9.7	2.9
6	5.5	3.9	2.2	1.8	1.2	2.3	1.9	5.2	7.1	6.0	5.4	6.4	6.4	5.5	5.9	5.9	4.7	4.9	3.8	1.9	1.8	2.9	1.7	1.0	4.0	7.1	1.0
7	0.9	0.9	1.0	0.9	0.5	0.6	0.9	0.6	1.1	2.7	2.2	2.5	3.6	3.1	3.7	3.7	4.1	3.9	3.6	2.3	2.3	2.1	2.8	2.4	2.2	4.1	0.5
8	1.8	1.6	1.7	2.0	2.3	1.0	1.0	0.6	0.8	2.0	4.5	3.6	4.3	5.8	5.8	5.6	5.0	4.3	2.6	1.6	4.6	4.7	3.6	2.2	3.0	5.8	0.6
9	2.0	1.2	1.2	1.5	1.7	1.8	1.2	0.8	1.7	5.7	6.2	6.6	6.5	6.8	7.8	6.3	6.2	5.4	5.1	5.1	5.5	3.3	1.6	2.1	3.9	7.8	0.8
10	2.3	4.8	3.6	6.3	4.4	2.1	1.3	2.3	0.9	3.7	3.2	7.3	7.7	9.0	9.9	9.3	9.0	8.0	6.2	4.0	2.3	2.2	2.0	1.6	4.7	9.9	0.9
11	1.7	1.5	1.6	2.1	1.6	1.5	1.2	0.7	2.3	2.8	2.7	3.4	3.4	3.3	3.0	3.4	3.9	3.9	3.0	1.6	4.7	4.2	3.3	2.4	2.6	4.7	0.7
12	1.9	1.3	1.2	1.6	1.1	1.4	0.7	0.7	1.0	1.4	2.7	4.0	2.8	3.3	3.3	2.6	2.8	2.8	1.5	1.4	3.3	4.3	3.5	3.1	2.2	4.3	0.7
13	2.2	1.4	1.4	1.4	1.1	1.2	1.2	0.7	2.5	3.8	3.5	3.6	3.6	3.9	3.9	4.5	4.1	4.3	3.2	1.6	4.3	4.0	4.1	3.5	2.9	4.5	0.7
14	1.6	1.1	1.5	1.3	0.8	1.2	0.8	0.7	0.9	2.2	3.5	4.2	4.4	4.3	4.0	3.6	3.4	2.8	2.6	4.8	4.7	3.2	2.4	3.2	2.6	4.8	0.7
15	3.6	2.9	3.9	3.3	2.3	1.5	1.3	2.8	5.8	5.2	3.8	3.3	2.7	2.4	3.3	4.2	2.6	3.0	2.6	1.3	1.4	1.5	2.5	3.6	2.9	5.8	1.3
16	3.1	2.2	1.8	1.4	1.4	0.9	1.2	0.8	1.7	6.1	5.1	3.1	5.4	6.9	5.8	4.8	4.0	2.4	2.4	4.3	2.9	2.7	3.8	2.7	3.2	6.9	0.8
17	1.9	2.3	2.1	3.5	2.8	2.7	1.1	1.1	1.8	2.9	3.0	2.1	2.8	5.3	2.7	5.0	1.6	1.9	1.3	2.2	1.5	2.2	1.3	0.9	2.3	5.3	0.9
18	0.9	0.9	1.4	2.8	2.3	3.7	3.1	2.7	3.8	3.9	5.2	4.5	4.5	4.6	5.0	6.9	6.5	4.5	4.2	2.8	1.9	2.9	2.8	2.3	3.5	6.9	0.9
19	1.5	0.7	0.9	1.3	1.1	0.8	0.5	0.7	2.0	3.2	2.4	3.5	3.9	3.1	3.3	4.9	6.3	2.5	3.9	2.1	2.1	2.3	1.7	1.8	2.4	6.3	0.5
20	1.5	1.4	1.7	1.9	1.6	1.6	0.9	0.8	2.5	3.6	3.8	4.1	3.3	4.7	4.2	3.9	3.7	1.5	1.6	3.0	3.3	2.4	2.9	1.1	2.5	4.7	0.8
21	0.7	1.5	2.5	2.7	2.1	1.7	2.2	1.5	3.7	4.9	3.8	5.6	4.4	4.9	6.1	5.4	2.2	0.9	2.7	2.0	3.1	2.8	3.2	2.2	3.0	6.1	0.7
22	3.0	4.3	2.7	3.7	4.5	1.8	2.7	4.3	5.6	5.9	5.2	7.6	5.3	6.1	6.7	6.3	7.7	8.2	6.3	5.7	4.7	6.2	7.1	5.8	5.3	8.2	1.8
23	5.7	4.0	4.8	4.4	3.4	5.4	5.2	5.9	7.0	8.0	8.1	7.3	3.8	7.3	8.0	8.0	7.8	6.5	4.5	5.1	4.8	2.1	0.9	2.2	5.4	8.1	0.9
24	2.4	3.3	2.7	2.0	0.9	0.7	1.8	3.4	4.2	5.2	4.9	6.0	5.4	5.6	4.2	4.2	6.5	7.1	5.8	3.8	3.6	1.6	3.3	1.5	3.8	7.1	0.7
25	0.9	1.1	1.7	2.3	4.1	5.8	3.5	5.5	6.4	5.9	5.2	6.2	5.5	5.4	4.1	4.1	3.1	5.4	4.4	4.7	4.9	3.4	3.1	2.6	4.1	6.4	0.9
26	2.2	3.3	2.3	2.3	1.1	1.1	2.2	2.0	1.5	2.7	2.7	3.4	3.0	2.1	1.2	2.7	2.4	4.4	2.3	3.1	3.3	2.6	2.6	2.2	2.4	4.4	1.1
27	1.6	2.3	2.2	1.9	1.7	1.0	2.5	2.1	4.3	5.5	5.4	5.8	7.1	6.5	6.8	8.1	7.7	6.5	6.1	5.7	5.4	5.1	6.4	7.1	4.8	8.1	1.0
28	7.1	5.9	4.7	4.8	3.0	1.1	0.8	2.5	3.8	3.5	2.4	2.2	3.7	3.3	3.3	4.1	3.2	2.8	2.5	1.8	1.8	2.3	2.6	1.3	3.1	7.1	0.8
29	0.9	1.0	1.1	0.8	1.2	1.1	1.2	0.8	2.7	3.8	5.0	6.0	7.4	6.6	1.8	1.9	3.6	3.8	2.2	1.0	1.8	5.5	4.8	4.5	2.9	7.4	0.8
30	3.5	3.5	1.7	2.4	2.0	1.6	2.9	5.2	5.9	5.2	6.2	6.7	7.0	6.5	6.9	6.5	6.2	6.4	5.3	4.6	3.6	1.2	0.9	2.2	4.3	7.0	0.9
31	2.0	1.7	1.5	1.3	1.2	0.7	0.8	1.0	3.9	5.2	5.0	5.8	3.6	3.2	1.8	4.2	4.5	3.8	5.1	5.9	3.6	2.0	1.3	1.7	2.9	5.9	0.7
Avg	2.4	2.3	2.1	2.3	2.0	1.8	1.8	2.2	3.5	4.4	4.6	5.1	5.0	5.3	5.0	5.3	5.0	4.5	4.1	3.5	3.3	3.1	2.8	2.5	3.5	6.7	0.9
Max	7.1	5.9	4.8	6.3	4.5	5.8	5.2	5.9	7.1	8.0	8.4	9.6	12.3	11.9	11.1	9.6	9.7	8.8	9.2	7.3	6.5	6.8	7.1	7.1	6.1	12.3	2.9
Min	0.7	0.7	0.9	0.8	0.5	0.6	0.5	0.6	0.8	1.4	2.2	2.1	2.7	2.1	1.2	1.9	1.6	0.9	1.3	1.0	1.4	1.2	0.9	0.9	2.2	4.1	0.5

A-2

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Wind Speed (meters per second)
June 2012

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	1.5	2.0	1.2	1.8	1.1	1.5	0.8	1.3	4.1	3.6	6.4	4.7	5.7	3.7	4.0	7.3	6.1	5.5	3.3	1.9	2.2	2.3	2.6	1.8	3.2	7.3	0.8	
2	1.6	1.6	2.0	1.2	1.7	1.3	1.4	0.9	2.0	3.6	5.3	5.3	4.5	5.0	6.5	7.1	4.8	3.3	4.8	4.1	3.9	3.1	2.8	2.5	3.3	7.1	0.9	
3	2.1	1.8	1.8	2.8	1.8	1.4	1.2	1.0	0.8	2.2	2.8	1.9	3.1	3.0	3.6	1.8	3.1	3.0	3.1	1.8	1.1	2.5	1.7	1.3	2.1	3.6	0.8	
4	1.0	0.9	0.8	1.1	0.9	0.7	1.3	1.6	2.6	1.7	1.6	1.8	5.5	9.4	8.0	9.4	11.0	10.6	10.3	8.4	9.2	6.0	4.6	8.2	4.9	11.0	0.7	
5	10.0	7.9	5.8	6.9	5.4	4.9	2.1	1.5	1.3	2.3	4.6	4.8	6.2	5.7	4.2	12.0	3.7	1.9	3.2	3.8	5.6	6.4	2.4	1.7	4.8	12.0	1.3	
6	3.1	4.4	4.8	3.4	5.4	2.4	2.2	4.8	4.6	3.0	4.3	2.5	5.4	7.6	6.1	5.7	7.2	6.1	6.4	5.6	2.5	0.9	1.7	2.1	4.3	7.6	0.9	
7	2.3	2.6	2.5	1.7	0.9	0.8	1.1	1.8	4.9	5.7	6.3	5.6	5.2	4.9	3.9	4.2	4.2	3.1	1.3	1.3	2.3	1.1	0.8	1.0	2.9	6.3	0.8	
8	1.7	2.0	1.1	1.7	1.8	1.2	1.4	1.6	1.5	5.2	4.6	4.5	6.3	4.0	3.8	5.2	4.6	6.9	3.7	4.9	3.8	4.0	2.8	1.2	3.3	6.9	1.1	
9	0.9	0.8	0.8	0.8	0.9	1.2	1.6	1.3	2.5	4.2	5.3	6.2	6.2	5.7	6.3	7.0	6.2	6.0	6.9	5.7	4.7	3.3	4.1	6.1	3.9	7.0	0.8	
10	6.0	5.9	4.7	5.1	5.0	4.1	4.9	6.0	5.2	6.1	5.8	7.0	4.7	3.1	2.8	5.9	5.3	5.5	6.3	6.0	4.8	1.8	2.5	2.1	4.9	7.0	1.8	
11	1.1	1.1	1.3	2.5	2.5	2.6	2.3	1.4	3.0	3.6	2.6	3.6	5.0	5.0	4.7	5.2	4.0	2.9	1.8	0.9	3.2	3.8	3.8	3.4	3.0	5.2	0.9	
12	2.4	2.2	1.6	2.0	1.7	1.6	0.7	0.6	1.8	4.2	4.4	4.0	4.5	4.1	4.0	2.3	2.7	3.8	6.6	3.1	2.4	2.4	2.4	2.3	2.8	6.6	0.6	
13	2.0	1.5	2.0	4.9	2.1	2.8	3.8	6.4	7.5	7.7	7.1	7.2	7.1	5.8	8.7	7.5	7.2	7.4	9.5	7.5	4.8	6.6	4.8	3.9	5.7	9.5	1.5	
14	2.5	2.5	3.1	2.6	2.0	1.6	1.4	2.8	3.9	4.2	4.1	4.9	4.8	4.6	4.5	4.4	2.3	1.3	1.4	0.8	1.7	3.9	3.8	2.6	3.0	4.9	0.8	
15	1.7	0.9	1.1	1.8	1.6	1.7	1.0	1.3	3.2	5.0	6.3	7.1	4.7	5.5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	3.1	7.1	0.9
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	3.0	2.0	2.3	2.2	2.4	1.6	2.3	3.0	1.6
26	1.2	0.9	1.2	1.1	0.9	0.9	0.9	0.8	3.2	7.1	12.8	13.9	13.1	11.1	10.5	9.6	9.6	9.6	9.8	7.4	5.3	7.7	8.3	5.9	6.4	13.9	0.8	
27	7.8	5.0	4.6	3.6	7.2	7.1	5.2	4.8	7.8	7.3	8.3	8.8	8.2	7.2	7.3	6.8	6.8	5.4	4.4	3.2	1.8	2.7	2.4	2.1	5.7	8.8	1.8	
28	2.2	1.9	0.9	0.9	1.6	1.0	1.2	0.9	1.4	1.8	1.7	3.5	4.6	3.3	3.0	2.6	2.7	1.4	2.1	3.6	2.5	4.1	3.5	1.9	2.3	4.6	0.9	
29	2.0	1.8	1.0	1.6	0.7	1.3	1.1	0.7	2.6	5.5	5.8	7.9	6.8	5.4	5.4	4.8	6.5	7.3	3.2	3.0	1.6	2.0	2.7	2.4	3.5	7.9	0.7	
30	1.2	1.1	0.9	1.2	1.3	0.6	0.8	0.8	1.2	2.8	2.5	3.6	3.8	3.3	2.2	4.1	2.1	1.7	1.7	1.5	4.3	1.6	1.5	1.2	2.0	4.3	0.6	
Avg	2.7	2.4	2.2	2.4	2.3	2.0	1.8	2.1	3.3	4.3	5.1	5.4	5.8	5.4	5.2	5.9	5.3	4.9	4.6	3.8	3.5	3.4	3.1	2.8	3.7	7.2	1.0	
Max	10.0	7.9	5.8	6.9	7.2	7.1	5.2	6.4	7.8	7.7	12.8	13.9	13.1	11.1	10.5	12.0	11.0	10.6	10.3	8.4	9.2	7.7	8.3	8.2	6.4	13.9	1.8	
Min	0.9	0.8	0.8	0.8	0.7	0.6	0.7	0.6	0.8	1.7	1.6	1.8	3.1	3.0	2.2	1.8	2.1	1.3	1.3	0.8	1.1	0.9	0.8	1.0	2.0	3.0	0.6	

A-3

**Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Wind Direction (degrees)
April 2012**

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																											
2																											
3																											
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5																											
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27																											
28																											
29																											
30																											
Prev																					Ca	101	75	98	76	87	87
																						101	75	98	76	87	87

A-4

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Wind Direction (degrees)
May 2012

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	9	259	70	271	273	309	270	250	259	255	256	247	258	261	250	266	272	271	271	277	220	156	57	305	267
2	285	134	100	134	97	81	76	42	289	264	262	276	258	252	248	278	257	262	267	265	247	122	103	64	247
3	62	85	66	136	113	169	143	136	134	141	130	129	133	198	108	123	142	104	65	79	70	68	98	102	113
4	104	124	169	98	126	75	131	117	279	275	261	270	281	246	292	321	59	187	91	116	317	303	270	263	222
5	257	267	258	263	276	271	259	266	255	285	273	251	252	262	263	261	266	264	274	268	267	275	276	273	266
6	283	311	321	315	67	286	343	304	300	291	285	305	316	323	317	311	320	295	282	289	118	73	56	84	318
7	62	107	113	174	171	346	138	44	316	247	304	269	280	257	253	242	260	262	279	27	91	81	79	84	269
8	82	80	90	98	100	98	150	238	98	171	237	255	264	262	267	251	257	256	257	168	79	71	79	52	156
9	106	66	150	111	54	57	77	145	100	209	209	223	211	228	222	221	276	281	301	305	310	319	330	66	213
10	76	305	311	298	312	294	273	237	192	255	267	261	268	277	281	275	279	278	291	300	305	58	122	86	283
11	99	120	67	87	112	143	153	69	309	263	265	263	275	258	258	283	249	250	264	190	86	72	78	90	182
12	119	82	82	128	142	135	186	20	348	324	306	274	279	262	236	203	281	288	251	250	96	78	64	74	218
13	99	105	96	100	49	71	338	14	306	257	268	287	259	265	267	273	255	249	239	229	78	79	64	68	315
14	39	360	9	72	48	81	275	327	342	285	262	244	246	258	268	281	298	339	28	66	66	80	103	77	352
15	82	99	94	92	115	133	144	129	150	149	149	157	184	170	257	229	237	229	194	143	104	64	62	73	139
16	83	37	30	87	101	56	168	314	309	254	263	285	270	273	250	229	199	163	117	149	100	75	70	97	123
17	47	69	130	131	79	79	216	254	261	322	318	342	326	328	71	72	150	91	185	232	206	302	250	20	22
18	167	145	309	281	300	297	313	319	294	303	314	298	310	295	296	4	10	356	326	325	20	87	82	79	325
19	138	188	116	159	145	148	7	335	112	181	246	250	287	266	243	276	312	315	26	57	56	92	58	82	131
20	27	68	112	109	112	123	196	327	153	180	207	229	239	254	245	224	228	175	91	73	58	71	93	161	149
21	245	54	85	84	92	71	103	121	150	164	171	198	179	301	297	74	102	327	292	276	100	93	58	113	108
22	244	238	168	269	298	258	260	279	249	245	258	275	271	271	275	266	267	271	272	292	269	274	272	269	265
23	267	294	275	296	280	260	257	263	259	255	250	269	312	267	270	280	271	294	318	270	261	264	270	67	275
24	75	82	79	107	96	55	320	293	285	290	303	280	270	283	247	339	8	7	4	352	348	351	52	28	351
25	349	355	308	82	72	72	80	93	97	96	79	90	91	88	118	164	140	164	159	156	153	157	152	157	110
26	159	73	120	197	159	243	180	174	181	171	176	172	174	120	217	314	358	94	262	301	326	336	315	312	196
27	317	312	311	283	286	253	309	294	272	271	277	287	278	287	293	289	291	282	278	282	275	275	291	289	287
28	289	269	273	276	298	188	104	297	277	272	302	289	298	281	281	306	272	286	295	219	96	95	98	101	280
29	77	81	140	121	107	141	153	104	128	167	187	196	208	318	6	319	285	305	320	1	305	292	282	269	210
30	268	254	344	61	63	52	330	296	278	290	290	292	291	293	279	258	276	275	281	276	268	113	328	112	296
31	75	84	66	64	114	48	165	44	281	255	258	261	296	283	24	285	259	281	271	270	258	265	154	124	281
Prev	69	74	80	114	95	91	187	316	263	247	258	259	264	268	267	273	271	274	283	273	38	62	63	77	271

A-5

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Wind Direction (degrees)
June 2012

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	111	81	57	77	17	76	343	9	286	269	245	250	249	254	269	257	268	279	309	279	87	77	87	97	323
2	148	35	116	125	104	69	143	114	137	138	184	192	212	218	202	294	296	269	280	267	264	273	220	69	185
3	147	124	81	82	49	98	127	8	84	270	260	288	277	267	271	305	203	231	321	285	156	75	28	45	4
4	10	1	20	92	82	10	307	322	166	112	180	77	150	140	129	133	127	123	127	118	115	152	151	117	110
5	129	125	171	161	147	143	138	118	358	319	278	296	265	266	307	272	327	32	230	336	232	270	287	128	246
6	214	261	266	238	232	263	209	251	230	195	173	121	205	227	245	229	227	230	211	188	143	101	121	103	210
7	82	73	75	86	45	104	131	132	202	189	208	192	176	192	166	161	175	192	188	136	83	142	60	116	140
8	129	112	149	182	118	92	128	325	323	205	242	230	228	255	264	290	330	319	313	312	300	292	326	310	272
9	122	191	347	260	137	279	171	334	243	264	248	264	266	253	235	247	261	251	250	249	242	222	239	254	246
10	251	243	247	251	259	254	260	244	256	265	267	277	286	303	316	279	268	271	276	288	300	300	305	316	274
11	1	79	59	79	73	68	71	7	294	288	266	259	261	253	283	269	262	287	272	134	99	84	77	81	356
12	91	91	51	73	89	134	158	294	337	215	255	271	270	264	239	284	245	257	253	101	91	119	98	36	188
13	47	47	216	268	184	235	266	257	249	243	248	258	298	270	292	291	287	289	274	281	286	284	280	301	272
14	307	63	85	67	81	68	38	284	273	255	259	274	259	265	249	243	228	20	356	204	129	80	68	111	318
15	107	18	358	88	54	112	148	46	274	273	281	276	287	303	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	350
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	169	133	106	131	51	136	123
26	162	119	131	76	73	141	355	350	153	176	193	202	191	254	269	262	263	274	277	275	279	281	275	256	233
27	257	253	287	267	238	242	259	255	289	256	239	249	255	247	248	252	253	252	276	281	101	51	92	67	258
28	61	124	27	15	57	75	157	14	78	100	338	263	282	296	308	305	311	271	261	34	51	90	94	75	25
29	120	99	74	127	90	57	42	16	327	263	264	264	277	299	301	293	320	322	300	260	283	56	91	87	341
30	59	84	29	120	147	57	41	7	336	255	308	228	242	239	277	306	336	7	34	44	79	70	81	255	15
Prev	108	90	63	107	96	95	134	338	275	238	247	250	250	257	263	269	269	278	271	260	122	91	72	83	252

A-6

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
May 2012

A-8

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

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
June 2012

6-A

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	27	47	25	32	28	71	88	19	25	13	17	16	16	17	13	13	9	22	47	30	24	20	34	31	88	9	
2	35	54	39	47	26	79	26	49	61	19	17	17	31	17	22	60	20	19	16	24	16	59	40	36	35	79	16	
3	35	47	32	42	48	61	76	85	91	77	29	57	62	40	26	41	41	41	10	25	67	46	40	44	48	91	10	
4	49	71	69	74	56	88	75	39	40	58	58	79	20	11	12	11	11	13	12	14	13	20	13	14	38	88	11	
5	12	16	14	8	10	28	23	64	57	29	15	19	17	29	58	53	75	89	76	82	64	13	77	53	41	89	8	
6	36	15	14	13	11	74	96	19	25	21	16	25	15	14	22	18	15	18	17	11	75	65	38	29	29	96	11	
7	32	23	21	27	83	75	89	83	21	20	17	19	18	23	20	20	22	23	51	33	14	63	93	71	40	93	14	
8	22	22	76	28	60	55	72	23	34	20	38	41	30	31	24	33	41	17	16	10	13	14	55	38	34	76	10	
9	95	89	84	84	57	41	52	67	51	30	18	17	19	16	20	13	13	14	12	11	15	15	15	15	36	95	11	
10	12	11	10	12	13	14	14	10	13	12	13	9	12	26	43	11	11	10	9	10	9	38	28	52	17	52	9	
11	102	51	38	8	10	11	14	38	26	21	33	35	17	24	15	19	20	24	32	84	40	7	8	10	29	102	7	
12	15	29	40	35	37	20	34	71	96	28	29	24	31	26	31	67	33	17	25	46	22	38	40	30	36	96	15	
13	43	56	81	12	83	13	26	14	12	13	15	20	19	28	13	15	11	12	10	11	12	10	14	11	23	83	10	
14	44	29	10	37	28	41	47	60	22	25	28	22	22	29	27	28	36	99	46	53	52	15	18	27	35	99	10	
15	24	64	37	35	51	38	77	87	22	24	20	16	21	23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	39	87	16
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	12	11	13	98	47	83	44	98	11
26	51	96	55	84	59	73	99	51	34	19	14	14	14	25	13	14	13	13	9	9	11	9	9	12	33	99	9	
27	9	13	16	17	9	10	17	20	14	15	14	16	16	13	14	20	20	18	16	13	51	35	37	41	19	51	9	
28	28	20	67	37	48	50	41	39	74	62	43	33	21	34	31	24	16	37	12	58	63	33	15	62	40	74	12	
29	40	34	80	38	82	52	95	57	60	17	18	16	21	18	15	16	14	13	22	65	81	63	21	42	41	95	13	
30	66	50	61	25	49	57	76	83	51	26	32	41	30	50	56	23	33	37	45	40	18	74	47	86	48	86	18	
Avg	41	41	45	34	43	45	56	52	41	28	24	27	23	25	25	26	24	28	24	33	34	37	34	40	35	87	11	
Max	102	96	84	84	83	88	99	88	96	77	58	79	62	50	58	67	75	99	76	84	81	98	93	86	48	102	18	
Min	9	11	10	8	9	10	14	10	12	12	13	9	12	11	12	11	11	9	9	9	9	7	8	10	17	51	7	

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
May 2012

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	3.1	2.3	2.6	2.2	2.2	2.2	2.4	2.3	2.4	3.9	4.6	5.0	5.1	5.6	5.6	5.7	5.7	5.0	3.9	1.8	-0.1	-0.2	-1.1	3.1	5.7	-1.1
2	-1.8	-2.3	-3.7	-5.0	-5.1	-6.1	-4.2	-0.3	1.8	2.5	3.0	3.6	4.3	5.7	5.8	5.0	2.8	2.5	3.0	1.9	-0.2	-2.0	-3.6	-4.0	0.2	5.8	-6.1
3	-5.1	-6.0	-5.8	-6.4	-6.2	-6.4	-3.7	1.4	5.5	6.6	7.3	7.3	7.9	6.3	6.6	7.5	6.7	5.7	5.7	4.8	3.7	3.3	2.2	0.9	2.1	7.9	-6.4
4	-0.3	-1.1	-2.0	-2.7	-2.8	-2.5	-1.6	2.7	5.7	6.7	7.7	8.8	9.3	10.7	11.3	12.2	12.0	11.4	8.5	7.8	4.6	4.3	4.0	3.6	4.9	12.2	-2.8
5	2.8	2.2	1.3	1.1	0.9	0.5	0.3	0.2	0.7	1.7	2.4	3.4	4.0	4.1	4.8	4.8	4.2	3.2	2.7	1.5	0.5	-0.6	-1.4	-1.4	1.8	4.8	-1.4
6	-1.0	-1.3	-1.4	-1.7	-2.0	-2.1	-1.9	0.1	0.5	0.3	1.2	2.4	3.1	3.9	4.8	5.4	5.6	6.3	6.0	4.0	1.1	-1.1	-2.3	-3.2	1.1	6.3	-3.2
7	-4.2	-5.3	-6.1	-6.6	-6.9	-7.0	-4.8	-0.3	3.9	5.8	7.2	8.6	9.5	10.6	11.3	11.9	12.4	12.4	11.9	9.5	5.6	3.0	1.6	0.7	3.5	12.4	-7.0
8	0.2	-0.2	-1.1	-2.0	-1.9	-2.5	-1.7	1.4	6.4	11.0	12.7	13.7	14.9	16.0	16.9	17.7	17.9	18.0	17.5	13.3	8.5	6.6	5.2	3.7	8.0	18.0	-2.5
9	2.4	1.3	0.8	0.0	0.5	0.0	1.0	6.9	13.6	16.6	17.6	18.3	18.9	20.1	20.8	21.1	20.9	20.1	18.3	16.5	14.9	13.2	11.1	7.8	11.8	21.1	0.0
10	6.9	7.8	5.6	2.9	0.5	0.2	0.0	0.2	0.0	0.9	1.1	2.2	3.5	4.5	4.9	5.3	5.4	5.0	4.4	3.1	1.5	-1.3	-3.6	-5.0	2.3	7.8	-5.0
11	-5.8	-6.6	-7.2	-7.5	-8.4	-8.7	-6.2	-2.2	1.0	2.3	3.7	5.0	6.3	7.4	8.5	9.2	9.9	10.1	9.8	6.8	2.0	0.5	-0.8	-2.4	1.1	10.1	-8.7
12	-3.8	-4.6	-4.7	-4.9	-6.1	-5.7	-3.5	0.9	7.0	9.2	10.8	11.6	12.4	13.4	13.9	14.5	14.6	14.7	14.5	10.8	5.9	3.8	2.3	0.9	5.3	14.7	-6.1
13	-1.3	-2.6	-3.0	-3.9	-4.3	-4.1	-1.2	3.9	10.6	12.5	13.7	14.9	16.3	17.6	18.6	19.3	19.8	19.9	19.1	15.6	9.6	6.8	5.7	3.8	8.6	19.9	-4.3
14	1.7	0.7	0.0	-1.1	-1.9	-1.7	0.7	6.1	12.4	15.8	16.7	17.5	18.3	18.9	19.5	19.9	20.2	19.9	19.2	16.2	13.6	11.7	10.5	12.5	11.1	20.2	-1.9
15	11.7	11.2	11.2	10.2	9.9	9.5	11.3	13.5	15.1	16.4	17.6	19.3	20.9	22.0	22.9	23.6	23.7	23.6	22.2	18.2	14.5	11.2	9.6	9.1	15.8	23.7	9.1
16	7.2	6.3	6.0	3.7	2.7	2.4	4.3	8.5	14.5	18.1	18.9	20.0	21.3	21.4	21.7	21.3	20.3	18.9	19.6	16.9	14.5	11.8	10.1	8.3	13.3	21.7	2.4
17	8.2	8.0	9.2	10.4	8.2	7.1	7.6	10.8	13.3	14.2	14.9	15.0	15.1	14.4	14.2	10.8	10.7	10.8	10.5	9.1	7.8	7.3	6.7	6.6	10.5	15.1	6.6
18	6.0	5.9	6.2	6.2	5.9	5.8	5.4	5.6	6.3	7.2	7.2	8.5	8.9	9.9	10.1	8.6	7.0	7.2	7.4	6.6	3.6	1.4	-0.2	-1.5	6.1	10.1	-1.5
19	-3.0	-3.8	-4.2	-4.9	-5.3	-5.4	-2.5	2.3	7.4	8.8	9.4	9.8	10.3	10.8	11.7	11.5	10.5	9.9	9.4	8.3	5.1	3.0	1.7	0.7	4.2	11.7	-5.4
20	-0.4	-0.7	-1.5	-2.0	-2.6	-2.6	0.0	5.2	10.0	11.9	12.7	13.3	14.1	15.1	15.5	15.8	16.2	16.0	14.8	12.7	12.3	11.4	10.4	9.5	8.6	16.2	-2.6
21	9.0	7.9	7.0	6.3	5.9	5.7	6.7	10.7	14.4	15.8	16.9	18.7	20.2	17.1	12.3	13.2	16.0	16.5	15.2	13.9	12.6	12.4	11.9	11.5	12.4	20.2	5.7
22	11.1	10.4	9.2	8.7	7.9	7.2	7.3	7.9	8.4	8.5	9.5	8.4	7.0	7.1	8.1	7.7	8.6	8.6	8.6	7.9	7.0	6.3	5.8	5.1	8.0	11.1	5.1
23	4.5	4.2	3.5	3.1	3.2	3.3	3.5	4.2	4.6	4.8	4.7	5.0	4.4	6.4	7.5	8.2	8.6	7.4	6.4	6.3	4.6	3.0	2.1	0.6	4.8	8.6	0.6
24	-1.1	-0.9	-0.5	-0.7	-0.8	-0.2	1.6	2.6	3.5	4.5	4.6	5.0	5.0	5.0	4.4	5.8	5.2	4.6	4.1	3.0	1.8	1.4	1.3	0.0	2.5	5.8	-1.1
25	-1.0	-0.4	-0.7	-1.1	0.2	0.6	1.1	1.7	1.4	2.2	2.4	2.6	2.8	3.0	2.5	2.0	1.8	0.8	0.5	0.4	0.1	0.4	0.3	0.4	1.0	3.0	-1.1
26	0.2	0.7	0.5	0.0	-0.5	-0.5	-0.1	-0.2	0.2	0.6	1.2	1.2	1.1	0.5	0.2	0.6	1.5	1.4	0.3	-0.1	0.0	0.4	0.3	-0.1	0.4	1.5	-0.5
27	-0.8	-1.1	-1.2	-1.3	-2.0	-2.2	-2.1	-1.6	-1.1	-0.7	-0.6	-0.5	-0.1	0.1	0.1	0.3	0.0	-0.4	-0.6	-0.8	-1.2	-1.2	-1.1	-1.1	-0.9	0.3	-2.2
28	-1.0	-1.2	-1.3	-1.3	-1.6	-2.3	-1.5	0.1	0.6	0.8	1.1	1.8	2.0	2.4	3.1	4.7	5.4	6.2	6.8	5.6	4.0	2.0	0.5	-0.4	1.5	6.8	-2.3
29	-0.8	-1.0	-1.8	-2.8	-2.2	-1.5	1.1	4.9	9.0	10.9	12.2	13.4	13.0	7.4	7.9	9.6	10.5	10.6	10.4	9.6	8.6	9.3	9.0	8.2	6.5	13.4	-2.8
30	6.8	6.1	4.8	3.3	3.2	4.1	6.4	7.5	7.9	8.5	9.4	10.0	9.9	9.9	9.6	9.3	9.7	10.3	10.2	9.7	8.5	7.3	4.8	3.1	7.5	10.3	3.1
31	1.5	0.0	-0.9	-1.8	-2.6	-2.4	0.0	4.9	9.2	10.1	10.7	11.4	11.5	11.5	11.0	11.3	11.1	11.0	11.1	10.9	9.4	8.6	8.1	7.8	6.8	11.5	-2.6
Avg	1.7	1.2	0.7	0.0	-0.4	-0.5	0.8	3.6	6.3	7.6	8.4	9.2	9.7	9.9	10.2	10.4	10.5	10.3	9.8	8.2	6.0	4.6	3.6	2.7	5.6	11.5	-1.5
Max	11.7	11.2	11.2	10.4	9.9	9.5	11.3	13.5	15.1	18.1	18.9	20.0	21.3	22.0	22.9	23.6	23.7	23.6	22.2	18.2	14.9	13.2	11.9	12.5	15.8	23.7	9.1
Min	-5.8	-6.6	-7.2	-7.5	-8.4	-8.7	-6.2	-2.2	-1.1	-0.7	-0.6	-0.5	-0.1	0.1	0.1	0.3	0.0	-0.4	-0.6	-0.8	-1.2	-2.0	-3.6	-5.0	-0.9	0.3	-8.7

A-11

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
June 2012

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	7.5	6.9	5.9	5.6	4.8	4.4	5.6	9.0	10.9	11.7	12.8	12.8	13.1	13.5	14.4	15.2	15.4	15.3	15.0	13.1	9.7	7.6	6.3	4.8	10.1	15.4	4.4	
2	4.1	3.5	3.4	3.0	3.5	4.0	6.1	11.3	14.6	14.5	16.6	17.7	19.2	19.5	20.0	14.6	11.7	11.0	11.0	10.9	9.9	8.6	7.6	6.6	10.5	20.0	3.0	
3	4.4	2.9	1.5	0.8	0.2	0.0	1.7	5.7	8.8	10.3	11.4	12.8	14.4	15.4	16.6	17.2	18.9	19.4	18.5	17.0	13.3	10.7	9.9	8.8	10.0	19.4	0.0	
4	6.9	6.2	6.1	5.2	4.7	5.2	8.9	13.2	16.0	18.1	20.1	21.6	23.5	24.0	24.9	24.3	24.4	24.1	22.7	21.5	20.8	19.7	18.4	21.1	16.7	24.9	4.7	
5	21.0	20.9	18.8	18.7	17.4	17.4	17.0	17.4	20.2	22.3	22.3	22.1	21.6	21.9	20.8	14.2	12.1	12.2	11.9	11.3	10.7	8.2	7.7	7.0	16.5	22.3	7.0	
6	6.4	5.1	3.1	2.5	1.8	1.8	2.7	3.6	4.0	4.1	5.2	5.9	7.7	8.7	9.3	9.7	10.2	10.5	10.3	8.8	7.1	4.9	2.6	1.4	5.7	10.5	1.4	
7	0.5	-0.1	-0.6	-1.3	-2.2	-1.7	1.1	5.6	9.4	10.1	11.1	11.8	12.9	13.8	14.6	15.5	16.0	16.0	15.7	13.0	10.2	8.2	8.6	9.9	8.3	16.0	-2.2	
8	9.9	10.4	10.1	9.0	8.2	7.9	9.7	11.5	13.3	15.1	15.3	16.0	16.6	16.0	14.9	13.1	12.4	10.3	8.3	7.8	6.8	6.3	5.5	4.4	10.8	16.6	4.4	
9	3.2	2.8	2.4	1.8	1.0	0.8	1.4	3.7	5.0	6.2	6.9	7.3	7.5	8.1	8.7	8.9	8.8	8.3	7.7	6.5	5.2	3.8	3.8	3.5	5.1	8.9	0.8	
10	2.6	1.9	1.0	1.2	1.6	2.0	2.7	2.5	1.1	1.6	2.0	2.0	1.7	1.1	2.5	4.2	4.6	4.8	5.0	4.9	4.5	4.6	4.6	4.6	2.9	5.0	1.0	
11	4.6	4.1	4.0	3.6	3.7	3.7	4.6	5.6	7.1	8.0	8.8	10.2	11.4	12.4	13.0	13.5	14.1	14.2	14.0	12.9	9.1	6.6	5.1	4.1	8.3	14.2	3.6	
12	2.8	2.1	1.5	1.4	0.5	0.5	3.7	8.5	13.0	14.9	15.3	15.8	16.4	17.0	17.4	15.6	17.1	17.7	14.5	11.3	9.5	8.1	7.7	7.6	10.0	17.7	0.5	
13	7.6	7.1	7.4	8.0	7.2	7.4	8.1	9.3	10.1	11.1	11.5	11.8	8.8	9.8	11.7	12.8	12.6	12.5	12.6	11.3	10.1	8.8	7.9	6.6	9.7	12.8	6.6	
14	5.7	4.2	2.4	1.1	0.2	0.7	4.0	7.9	9.2	10.1	10.8	12.0	12.9	13.7	14.4	14.7	14.9	15.6	15.5	14.8	10.2	7.9	6.9	4.4	8.9	15.6	0.2	
15	3.4	2.8	2.8	3.0	2.0	1.9	4.2	7.8	11.0	11.9	13.2	14.0	14.3	15.1	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	7.7	15.1	1.9	
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	25.1	22.8	19.4	16.7	15.1	12.3	18.6	25.1	12.3
26	11.1	8.7	8.8	7.8	6.4	7.3	10.8	15.9	21.9	24.2	24.8	24.3	24.0	21.6	18.9	18.8	18.2	16.8	15.0	13.5	11.5	10.4	8.9	7.4	14.9	24.8	6.4	
27	6.9	6.1	5.7	5.0	6.1	7.2	8.3	9.4	10.0	11.2	12.5	13.5	14.3	15.5	16.7	17.7	18.3	18.5	18.0	16.7	12.5	8.5	6.3	4.9	11.2	18.5	4.9	
28	4.2	2.4	1.2	1.2	1.4	1.2	4.9	10.6	15.5	17.9	19.1	20.5	21.4	22.3	23.1	23.7	23.8	24.0	24.2	21.7	18.9	16.7	14.9	13.6	14.5	24.2	1.2	
29	10.4	8.6	8.0	8.6	7.7	7.5	10.2	14.5	19.2	20.9	21.9	23.0	23.2	23.1	23.6	23.6	23.3	20.6	19.8	18.4	15.4	12.9	10.6	8.1	16.0	23.6	7.5	
30	7.2	5.7	5.3	4.1	3.5	3.7	7.1	12.2	16.5	18.2	19.1	20.8	21.8	22.7	23.4	24.0	24.3	24.6	24.3	22.2	18.7	17.6	16.5	15.3	15.8	24.6	3.5	
Avg	6.5	5.6	4.9	4.5	4.0	4.1	6.1	9.3	11.8	13.1	14.0	14.8	15.3	15.8	16.3	15.9	15.8	15.6	15.5	14.0	11.7	9.8	8.7	7.8	10.8	17.9	3.5	
Max	21.0	20.9	18.8	18.7	17.4	17.4	17.0	17.4	21.9	24.2	24.8	24.3	24.0	24.0	24.9	24.3	24.4	24.6	25.1	22.8	20.8	19.7	18.4	21.1	18.6	25.1	12.3	
Min	0.5	-0.1	-0.6	-1.3	-2.2	-1.7	1.1	2.5	1.1	1.6	2.0	2.0	1.7	1.1	2.5	4.2	4.6	4.8	5.0	4.9	4.5	3.8	2.6	1.4	2.9	5.0	-2.2	

A-12

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
May 2012

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	2.3	2.5	1.7	2.1	1.7	2.0	2.1	2.7	2.7	2.7	4.4	5.5	6.0	6.1	6.7	6.5	6.6	6.2	5.1	3.4	0.5	-1.2	-0.9	-1.7	3.2	6.7	-1.7
2	-2.9	-3.2	-4.7	-5.8	-5.6	-6.5	-4.0	0.0	2.6	3.4	4.2	4.8	5.4	6.8	6.5	5.9	3.2	3.0	3.2	1.3	-1.3	-3.4	-4.5	-4.6	0.2	6.8	-6.5
3	-5.8	-6.8	-6.4	-7.2	-7.1	-7.3	-4.1	1.7	5.9	7.4	7.9	7.7	8.3	6.5	6.9	7.7	6.7	5.8	5.6	4.5	3.1	2.9	1.9	0.7	1.9	8.3	-7.3
4	-0.7	-2.1	-3.1	-3.4	-3.4	-3.1	-1.6	3.0	6.2	7.6	8.6	9.8	10.1	11.7	12.1	12.9	12.3	11.6	8.6	7.7	4.6	4.3	3.9	3.6	5.0	12.9	-3.4
5	2.9	2.3	1.3	1.1	0.9	0.5	0.3	0.5	1.2	2.6	3.1	4.7	5.1	4.9	5.8	5.9	4.8	3.5	2.8	1.4	0.3	-0.6	-1.4	-1.3	2.2	5.9	-1.4
6	-1.0	-1.5	-1.7	-2.0	-2.3	-2.9	-1.8	0.4	0.9	0.9	1.7	3.3	3.9	4.7	5.6	6.1	6.1	7.0	6.2	3.2	0.5	-1.6	-2.9	-4.6	1.2	7.0	-4.6
7	-5.6	-6.3	-7.1	-7.6	-7.7	-7.6	-4.9	0.0	4.2	6.5	8.0	9.4	10.6	11.5	12.3	12.7	13.2	13.0	12.1	8.3	5.0	2.4	1.2	0.0	3.5	13.2	-7.7
8	-0.7	-1.2	-2.4	-3.5	-2.8	-3.2	-2.1	1.6	6.7	11.6	13.7	14.7	15.9	17.2	18.0	18.6	18.7	18.5	17.4	12.2	8.2	6.3	4.9	3.0	8.0	18.7	-3.5
9	1.2	0.3	-0.4	-1.0	-0.3	-0.8	0.6	7.3	14.1	17.4	18.6	19.2	19.9	21.2	21.6	21.8	21.7	20.3	17.7	15.9	14.4	11.6	10.2	6.7	11.6	21.8	-1.0
10	5.8	7.2	5.4	2.8	0.4	0.2	0.0	0.1	0.0	0.7	1.0	2.2	3.9	5.3	5.7	6.1	6.2	5.6	4.6	2.4	0.4	-1.9	-4.3	-5.6	2.3	7.2	-5.6
11	-6.5	-7.5	-8.0	-8.2	-9.5	-9.7	-6.0	-1.8	1.6	3.1	4.5	5.9	7.2	8.4	9.3	10.0	10.7	10.7	9.9	5.7	1.6	0.2	-1.2	-3.6	1.1	10.7	-9.7
12	-5.9	-6.1	-6.0	-6.4	-7.2	-6.9	-3.5	1.3	7.4	9.7	11.5	12.7	13.2	14.4	14.7	15.2	15.3	15.2	14.6	9.7	5.7	3.4	1.8	0.2	5.2	15.3	-7.2
13	-2.7	-4.0	-4.4	-5.2	-5.3	-5.3	-1.0	4.3	11.2	13.4	14.6	15.8	17.3	18.5	19.5	20.2	20.5	20.2	18.6	13.9	8.9	6.3	5.2	3.0	8.5	20.5	-5.3
14	0.0	-0.4	-1.1	-2.4	-3.2	-2.6	0.8	6.5	12.8	16.4	17.6	18.6	19.4	20.0	20.5	20.6	20.9	20.3	19.3	15.7	12.7	11.0	8.8	11.3	11.0	20.9	-3.2
15	10.7	10.2	10.4	9.1	8.7	8.7	11.3	13.9	16.0	17.5	18.5	20.2	21.8	22.8	23.8	24.4	24.2	23.8	21.1	17.2	13.1	9.6	8.5	8.2	15.6	24.4	8.2
16	6.1	5.2	5.0	2.2	1.1	1.5	3.9	8.9	14.9	19.0	19.9	20.8	22.4	22.4	22.4	21.5	20.2	18.5	19.6	16.4	14.0	10.8	9.6	7.8	13.1	22.4	1.1
17	7.8	7.8	8.5	9.7	7.9	7.0	7.8	11.1	13.8	15.0	15.7	15.5	15.6	14.7	14.5	11.0	10.9	10.9	10.5	9.1	7.9	7.2	6.7	6.6	10.5	15.7	6.6
18	5.8	6.0	6.2	6.1	5.7	5.7	5.5	5.8	6.7	7.8	8.0	9.4	9.5	10.8	10.7	9.3	7.4	7.6	7.7	6.0	2.6	1.0	-0.4	-2.0	6.2	10.8	-2.0
19	-4.3	-4.8	-5.3	-6.2	-6.5	-5.7	-2.1	2.6	8.0	9.6	10.1	10.6	11.0	11.4	12.1	12.1	11.0	10.1	9.7	7.8	4.3	2.4	1.1	-0.1	4.1	12.1	-6.5
20	-1.2	-1.7	-2.9	-3.6	-4.1	-3.6	0.1	5.6	10.6	12.7	13.4	14.0	14.8	16.1	16.2	16.2	16.7	16.1	14.3	12.5	12.0	11.1	10.2	9.3	8.5	16.7	-4.1
21	8.7	7.5	6.9	6.2	5.7	5.6	6.9	11.0	15.0	16.4	17.6	19.5	21.2	17.1	12.1	13.7	16.3	16.5	14.9	13.4	12.5	12.2	11.5	11.2	12.5	21.2	5.6
22	10.8	10.3	9.1	8.5	7.8	7.1	7.4	8.2	8.8	9.1	10.2	8.6	7.3	7.0	8.6	8.0	8.9	8.6	8.7	7.7	6.4	5.9	5.5	4.9	8.1	10.8	4.9
23	4.2	4.0	3.1	2.5	2.7	3.2	3.7	4.6	5.3	5.6	5.4	5.6	4.7	7.0	8.4	9.2	9.4	7.5	6.4	6.1	4.1	2.5	1.3	-1.1	4.8	9.4	-1.1
24	-1.7	-1.1	-0.7	-0.7	-0.9	-0.1	1.8	3.0	4.2	5.4	5.2	6.0	5.9	5.6	4.8	6.3	5.6	4.9	4.2	2.8	1.4	1.0	0.9	-0.4	2.6	6.3	-1.7
25	-1.6	-1.3	-1.4	-1.6	0.1	0.7	1.4	2.0	1.7	2.6	2.9	2.9	3.1	3.3	2.9	2.6	2.2	1.1	0.7	0.6	0.2	0.4	0.4	0.5	1.1	3.3	-1.6
26	0.3	0.7	0.5	0.0	-0.4	-0.4	0.1	0.0	0.4	1.0	1.7	1.7	1.5	0.6	0.3	0.7	1.6	1.5	0.4	0.0	0.0	0.4	0.3	-0.1	0.5	1.7	-0.4
27	-0.7	-1.0	-1.1	-1.4	-2.0	-2.1	-2.0	-1.5	-1.0	-0.5	-0.2	-0.2	0.2	0.6	0.5	0.9	0.4	0.0	-0.4	-0.7	-1.1	-1.1	-1.1	-1.0	-0.7	0.9	-2.1
28	-1.0	-1.2	-1.2	-1.3	-2.0	-2.5	-1.4	0.3	0.8	1.0	1.4	2.1	2.3	2.7	3.6	5.6	6.2	6.9	7.3	5.6	3.6	1.6	0.3	-0.7	1.7	7.3	-2.5
29	-1.1	-1.5	-2.0	-3.0	-2.6	-1.5	1.2	5.2	9.2	11.7	13.1	14.6	13.4	7.6	8.3	10.0	10.8	10.9	10.3	9.2	8.1	8.8	8.5	7.6	6.5	14.6	-3.0
30	5.2	5.2	4.2	2.3	1.9	3.5	6.7	7.9	8.6	9.5	10.5	11.1	10.7	10.4	10.1	9.9	10.1	10.8	10.4	9.5	8.1	6.6	3.8	2.2	7.5	11.1	1.9
31	0.8	-0.6	-1.9	-2.3	-3.5	-2.7	0.2	5.3	9.8	11.0	11.5	12.2	11.9	11.8	11.1	11.1	10.9	10.7	10.7	10.5	9.0	8.4	7.9	7.6	6.7	12.2	-3.5
Avg	0.9	0.5	0.0	-0.7	-1.0	-0.9	0.9	3.9	6.8	8.3	9.2	10.0	10.4	10.6	10.8	11.1	11.0	10.6	9.7	7.7	5.5	4.1	3.2	2.2	5.6	12.2	-2.2
Max	10.8	10.3	10.4	9.7	8.7	8.7	11.3	13.9	16.0	19.0	19.9	20.8	22.4	22.8	23.8	24.4	24.2	23.8	21.1	17.2	14.4	12.2	11.5	11.3	15.6	24.4	8.2
Min	-6.5	-7.5	-8.0	-8.2	-9.5	-9.7	-6.0	-1.8	-1.0	-0.5	-0.2	-0.2	0.2	0.6	0.3	0.7	0.4	0.0	-0.4	-0.7	-1.3	-3.4	-4.5	-5.6	-0.7	0.9	-9.7

A-14

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
June 2012

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	7.0	6.5	5.5	5.4	4.5	4.4	5.8	9.3	11.5	12.1	13.6	13.3	13.6	13.8	14.8	15.7	15.8	15.5	14.9	12.0	9.2	7.1	5.6	4.3	10.0	15.8	4.3	
2	3.1	2.7	2.2	1.7	2.4	3.7	6.1	11.5	14.6	14.7	17.1	18.2	20.1	20.0	20.5	14.5	11.6	11.1	10.9	10.6	9.3	7.8	6.8	5.6	10.3	20.5	1.7	
3	3.6	2.3	1.0	0.7	-0.2	-0.1	1.9	6.0	9.1	10.8	12.0	13.3	15.1	16.1	17.4	17.7	19.4	19.9	18.6	16.2	12.4	9.7	9.1	8.0	10.0	19.9	-0.2	
4	6.1	5.1	4.8	4.1	3.4	4.5	8.7	13.4	16.3	18.3	20.5	22.1	24.5	24.9	25.5	24.8	24.7	24.2	22.8	21.5	20.8	19.1	17.6	21.0	16.6	25.5	3.4	
5	20.8	20.7	18.0	18.0	16.7	16.9	16.7	17.4	20.6	22.8	23.2	23.0	22.7	22.7	20.9	14.1	11.9	12.1	11.5	11.2	10.5	8.1	7.6	7.0	16.5	23.2	7.0	
6	6.5	5.1	3.1	2.5	1.9	1.9	2.8	3.8	4.3	4.4	5.6	6.2	8.2	9.0	9.6	9.9	10.6	11.0	10.5	8.5	6.3	4.2	1.9	1.2	5.8	11.0	1.2	
7	0.2	-0.2	-0.9	-1.8	-2.7	-1.6	1.4	6.0	10.0	11.0	12.0	12.8	13.9	14.7	15.4	16.3	16.6	16.2	15.6	12.3	9.5	7.1	7.6	9.2	8.4	16.6	-2.7	
8	9.3	10.2	9.5	7.9	7.2	7.6	9.8	11.8	13.7	15.9	16.0	16.6	17.5	16.2	14.7	13.2	12.5	10.2	8.4	7.7	6.8	6.3	5.4	4.2	10.8	17.5	4.2	
9	2.9	2.7	2.5	1.9	1.2	1.0	1.8	4.1	5.6	6.8	7.7	8.4	8.4	9.2	9.8	9.7	9.3	8.4	7.8	6.4	4.7	2.5	3.2	3.5	5.4	9.8	1.0	
10	2.6	1.9	0.9	1.1	1.5	1.9	2.7	2.6	1.1	1.7	2.2	2.3	2.0	1.3	2.8	4.4	4.8	4.9	5.0	4.9	4.5	4.6	4.6	4.5	2.9	5.0	0.9	
11	4.5	4.1	3.9	3.7	3.7	3.9	4.7	5.8	7.6	8.6	9.3	10.8	12.3	13.2	13.9	14.1	14.6	14.4	13.8	12.5	8.8	6.5	5.0	3.8	8.5	14.6	3.7	
12	2.2	1.7	1.0	0.7	-0.3	-0.1	3.8	8.8	13.4	15.6	16.2	16.7	17.1	17.5	17.9	15.5	17.2	17.8	14.0	11.2	9.4	7.9	7.6	7.6	10.0	17.9	-0.3	
13	7.5	7.2	7.4	8.0	7.3	7.2	8.1	9.3	10.5	11.7	12.2	12.4	8.8	10.2	12.7	13.4	13.0	12.7	12.7	10.9	9.7	8.3	7.3	5.7	9.8	13.4	5.7	
14	4.9	2.3	1.7	0.8	0.0	0.8	4.4	8.5	9.9	10.8	11.4	12.9	13.9	14.6	15.3	15.3	15.4	16.0	15.8	14.6	9.6	7.7	6.7	3.7	9.0	16.0	0.0	
15	2.6	2.3	2.2	2.3	1.5	1.5	4.5	8.0	11.3	12.6	14.0	15.1	15.3	16.0	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	7.8	16.0	1.5	
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	22.7	22.0	18.9	15.1	13.5	10.9	17.2	22.7	10.9
26	9.5	7.6	7.6	6.8	5.5	6.3	10.9	16.5	22.5	24.8	25.3	25.0	24.9	22.7	19.9	19.7	19.0	17.4	15.3	13.5	10.9	9.9	8.6	7.0	14.9	25.3	5.5	
27	6.6	5.7	5.1	4.0	5.5	6.8	8.5	9.9	10.8	12.2	13.6	14.6	15.5	16.7	17.7	18.5	18.9	18.9	18.1	15.6	11.1	7.5	5.5	4.1	11.3	18.9	4.0	
28	3.2	0.6	0.6	0.2	0.1	0.8	5.1	11.1	16.1	18.4	19.7	21.4	22.4	23.2	23.8	24.2	24.0	24.0	23.7	20.8	18.1	16.0	14.2	11.9	14.3	24.2	0.1	
29	8.7	7.2	6.4	6.4	6.2	6.5	10.3	14.9	19.7	21.6	22.7	23.9	23.7	23.6	24.1	23.8	23.7	20.2	19.1	17.5	14.0	11.7	9.7	7.5	15.5	24.1	6.2	
30	6.2	4.4	4.0	3.2	2.3	3.1	7.5	12.5	17.0	18.9	19.9	21.8	22.7	23.6	24.1	24.8	24.8	25.2	24.6	21.3	18.0	16.8	15.8	13.7	15.7	25.2	2.3	
Avg	5.9	5.0	4.3	3.9	3.4	3.8	6.3	9.6	12.3	13.7	14.7	15.5	16.1	16.5	16.9	16.3	16.2	15.8	15.3	13.6	11.1	9.2	8.2	7.2	10.8	18.2	2.9	
Max	20.8	20.7	18.0	18.0	16.7	16.9	16.7	17.4	22.5	24.8	25.3	25.0	24.9	24.9	25.5	24.8	24.8	25.2	24.6	22.0	20.8	19.1	17.6	21.0	17.2	25.5	10.9	
Min	0.2	-0.2	-0.9	-1.8	-2.7	-1.6	1.4	2.6	1.1	1.7	2.2	2.3	2.0	1.3	2.8	4.4	4.8	4.9	5.0	4.9	4.5	2.5	1.9	1.2	2.9	5.0	-2.7	

A-15

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
May 2012

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	0.41	0.63	0.58	0.45	0.58	0.23	0.08	-0.28	-0.36	-0.33	-0.55	-0.88	-1.01	-0.99	-1.02	-0.89	-0.82	-0.51	-0.10	0.47	1.25	1.11	0.75	0.55	-0.03	1.25	-1.02
2	1.12	0.88	0.97	0.83	0.45	0.42	-0.15	-0.30	-0.78	-0.87	-1.17	-1.22	-1.08	-1.19	-0.74	-0.88	-0.44	-0.44	-0.18	0.57	1.10	1.42	0.92	0.64	-0.01	1.42	-1.22
3	0.68	0.78	0.63	0.80	0.88	0.98	0.34	-0.28	-0.49	-0.80	-0.57	-0.45	-0.38	-0.17	-0.25	-0.16	0.01	-0.06	0.01	0.30	0.56	0.41	0.24	0.12	0.13	0.98	-0.80
4	0.44	1.01	1.03	0.73	0.60	0.58	-0.03	-0.26	-0.52	-0.87	-0.85	-1.02	-0.78	-0.99	-0.86	-0.75	-0.29	-0.14	-0.05	0.12	0.08	0.01	0.11	-0.03	-0.11	1.03	-1.02
5	-0.05	-0.06	-0.04	0.01	0.03	-0.01	-0.07	-0.22	-0.52	-0.87	-0.73	-1.24	-1.14	-0.79	-1.04	-1.04	-0.61	-0.30	-0.08	0.08	0.13	-0.04	-0.04	-0.02	-0.36	0.13	-1.24
6	0.05	0.20	0.34	0.33	0.33	0.81	-0.10	-0.21	-0.41	-0.54	-0.55	-0.92	-0.81	-0.83	-0.79	-0.73	-0.52	-0.68	-0.23	0.83	0.52	0.45	0.55	1.38	-0.06	1.38	-0.92
7	1.38	1.03	1.01	0.97	0.85	0.66	0.09	-0.37	-0.34	-0.71	-0.78	-0.80	-1.06	-0.96	-0.99	-0.82	-0.85	-0.59	-0.19	1.13	0.65	0.61	0.44	0.79	0.05	1.38	-1.06
8	0.90	1.00	1.30	1.46	0.90	0.78	0.43	-0.23	-0.32	-0.60	-1.03	-1.01	-1.05	-1.23	-1.14	-0.97	-0.80	-0.52	0.10	1.10	0.28	0.27	0.26	0.69	0.02	1.46	-1.23
9	1.19	0.99	1.21	1.09	0.83	0.91	0.41	-0.30	-0.44	-0.83	-1.04	-0.94	-1.00	-1.13	-0.86	-0.68	-0.75	-0.20	0.69	0.54	0.50	1.56	0.93	1.12	0.16	1.56	-1.13
10	1.02	0.57	0.18	0.05	0.02	-0.02	0.03	0.10	0.13	0.22	0.08	0.01	-0.42	-0.80	-0.84	-0.83	-0.77	-0.55	-0.18	0.64	1.08	0.66	0.76	0.65	0.07	1.08	-0.84
11	0.66	0.93	0.75	0.68	0.96	1.03	-0.18	-0.32	-0.57	-0.74	-0.80	-0.93	-0.98	-0.93	-0.88	-0.87	-0.82	-0.56	-0.09	1.11	0.47	0.31	0.39	1.21	-0.01	1.21	-0.98
12	2.14	1.48	1.29	1.48	1.14	1.20	-0.01	-0.43	-0.36	-0.49	-0.73	-1.08	-0.80	-1.00	-0.81	-0.72	-0.66	-0.51	-0.10	1.11	0.25	0.37	0.45	0.73	0.16	2.14	-1.08
13	1.34	1.37	1.44	1.33	0.96	1.25	-0.16	-0.38	-0.59	-0.92	-0.91	-0.95	-0.99	-0.98	-0.91	-0.87	-0.66	-0.32	0.50	1.75	0.65	0.52	0.51	0.81	0.16	1.75	-0.99
14	1.66	1.21	1.16	1.30	1.31	0.93	-0.16	-0.31	-0.33	-0.63	-0.85	-1.04	-1.01	-1.06	-0.97	-0.77	-0.71	-0.45	-0.11	0.46	0.90	0.74	1.65	1.24	0.17	1.66	-1.06
15	0.95	0.93	0.79	1.08	1.23	0.81	-0.02	-0.38	-0.88	-1.07	-0.85	-0.96	-0.82	-0.74	-0.87	-0.80	-0.45	-0.15	1.12	0.96	1.40	1.60	1.07	0.90	0.20	1.60	-1.07
16	1.05	1.17	1.03	1.49	1.58	0.91	0.35	-0.31	-0.41	-0.87	-0.99	-0.82	-1.03	-0.98	-0.77	-0.15	0.12	0.33	0.06	0.47	0.55	0.97	0.47	0.50	0.20	1.58	-1.03
17	0.36	0.21	0.71	0.70	0.33	0.09	-0.20	-0.33	-0.47	-0.80	-0.79	-0.47	-0.43	-0.30	-0.29	-0.22	-0.20	-0.15	0.00	0.05	-0.04	0.17	0.02	0.03	-0.08	0.71	-0.80
18	0.27	-0.07	-0.05	0.07	0.17	0.10	-0.05	-0.16	-0.37	-0.65	-0.81	-0.86	-0.58	-0.88	-0.61	-0.65	-0.39	-0.41	-0.22	0.65	1.01	0.39	0.26	0.56	-0.14	1.01	-0.88
19	1.25	1.03	1.05	1.27	1.18	0.32	-0.35	-0.34	-0.61	-0.79	-0.66	-0.76	-0.72	-0.60	-0.42	-0.64	-0.56	-0.20	-0.29	0.48	0.87	0.57	0.57	0.84	0.10	1.27	-0.79
20	0.80	1.04	1.42	1.60	1.46	1.09	-0.21	-0.33	-0.53	-0.87	-0.72	-0.73	-0.75	-0.95	-0.68	-0.44	-0.50	-0.10	0.44	0.17	0.30	0.27	0.19	0.28	0.09	1.60	-0.95
21	0.35	0.40	0.13	0.11	0.24	0.11	-0.17	-0.33	-0.55	-0.67	-0.70	-0.80	-1.00	0.05	0.14	-0.50	-0.34	-0.05	0.31	0.47	0.08	0.27	0.45	0.37	-0.07	0.47	-1.00
22	0.31	0.14	0.14	0.21	0.07	0.10	-0.08	-0.28	-0.40	-0.58	-0.73	-0.23	-0.33	0.07	-0.42	-0.22	-0.32	-0.02	0.00	0.16	0.59	0.37	0.24	0.19	-0.04	0.59	-0.73
23	0.22	0.20	0.41	0.58	0.46	0.04	-0.17	-0.34	-0.67	-0.72	-0.67	-0.63	-0.32	-0.64	-0.87	-0.91	-0.85	-0.07	-0.01	0.21	0.55	0.52	0.70	1.76	-0.05	1.76	-0.91
24	0.64	0.17	0.23	0.08	0.11	-0.03	-0.26	-0.38	-0.63	-0.80	-0.67	-1.01	-0.84	-0.63	-0.35	-0.55	-0.40	-0.32	-0.09	0.21	0.45	0.44	0.41	0.46	-0.16	0.64	-1.01
25	0.56	0.81	0.73	0.53	0.05	-0.06	-0.26	-0.36	-0.30	-0.44	-0.46	-0.34	-0.32	-0.33	-0.30	-0.62	-0.38	-0.36	-0.23	-0.15	-0.09	0.00	-0.05	-0.03	-0.10	0.81	-0.62
26	-0.07	-0.02	-0.01	-0.05	-0.09	-0.11	-0.18	-0.25	-0.28	-0.42	-0.46	-0.49	-0.38	-0.14	-0.10	-0.11	-0.08	-0.07	-0.05	-0.08	-0.02	0.06	0.05	0.00	-0.14	0.06	-0.49
27	-0.07	-0.06	-0.04	0.04	0.00	-0.02	-0.08	-0.11	-0.12	-0.17	-0.32	-0.29	-0.39	-0.51	-0.45	-0.54	-0.45	-0.31	-0.19	-0.11	-0.07	-0.05	-0.04	-0.03	-0.18	0.04	-0.54
28	-0.01	-0.01	-0.02	0.05	0.39	0.12	-0.14	-0.17	-0.17	-0.19	-0.26	-0.28	-0.27	-0.31	-0.58	-0.88	-0.85	-0.72	-0.46	0.01	0.39	0.37	0.27	0.27	-0.14	0.39	-0.88
29	0.31	0.44	0.22	0.23	0.39	0.01	-0.13	-0.24	-0.18	-0.77	-0.99	-1.15	-0.37	-0.20	-0.40	-0.33	-0.28	-0.28	0.09	0.48	0.55	0.50	0.50	0.62	-0.04	0.62	-1.15
30	1.65	0.93	0.65	0.98	1.35	0.69	-0.28	-0.44	-0.68	-0.98	-1.10	-1.05	-0.79	-0.51	-0.51	-0.52	-0.46	-0.51	-0.18	0.14	0.39	0.68	1.00	0.83	0.05	1.65	-1.10
31	0.69	0.62	1.04	0.54	0.85	0.33	-0.18	-0.36	-0.64	-0.87	-0.73	-0.75	-0.45	-0.23	-0.13	0.23	0.20	0.27	0.38	0.41	0.38	0.27	0.16	0.24	0.09	1.04	-0.87
Avg	0.72	0.64	0.65	0.68	0.63	0.46	-0.06	-0.29	-0.44	-0.67	-0.72	-0.78	-0.72	-0.67	-0.64	-0.61	-0.48	-0.29	0.02	0.48	0.51	0.51	0.46	0.57	-0.00	1.11	-0.95
Max	2.14	1.48	1.44	1.60	1.58	1.25	0.43	0.10	0.13	0.22	0.08	0.01	-0.27	0.07	0.14	0.23	0.20	0.33	1.12	1.75	1.40	1.60	1.65	1.76	0.20	2.14	-0.49
Min	-0.07	-0.07	-0.05	-0.05	-0.09	-0.11	-0.35	-0.44	-0.88	-1.07	-1.17	-1.24	-1.14	-1.23	-1.14	-1.04	-0.85	-0.72	-0.46	-0.15	-0.09	-0.05	-0.05	-0.03	-0.36	0.04	-1.24

A-17

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
June 2012

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	0.52	0.45	0.35	0.20	0.31	-0.03	-0.23	-0.34	-0.57	-0.38	-0.78	-0.50	-0.47	-0.28	-0.43	-0.51	-0.46	-0.22	0.13	1.12	0.56	0.48	0.63	0.49	0.00	1.12	-0.78	
2	1.03	0.82	1.19	1.35	1.11	0.31	-0.05	-0.19	0.00	-0.15	-0.45	-0.56	-0.88	-0.50	-0.53	0.15	0.09	-0.08	0.12	0.31	0.63	0.79	0.87	1.01	0.27	1.35	-0.88	
3	0.75	0.63	0.42	0.17	0.48	0.19	-0.23	-0.31	-0.30	-0.53	-0.60	-0.47	-0.63	-0.72	-0.79	-0.45	-0.49	-0.47	-0.05	0.78	0.88	0.97	0.84	0.80	0.04	0.97	-0.79	
4	0.79	1.07	1.32	1.07	1.35	0.60	0.23	-0.16	-0.23	-0.28	-0.37	-0.52	-0.92	-0.92	-0.59	-0.50	-0.34	-0.15	-0.04	0.03	0.06	0.65	0.84	0.15	0.13	1.35	-0.92	
5	0.28	0.21	0.76	0.75	0.69	0.48	0.28	-0.01	-0.41	-0.57	-0.87	-0.93	-1.09	-0.76	-0.08	0.11	0.25	0.04	0.42	0.13	0.15	0.10	0.07	0.07	0.00	0.76	-1.09	
6	-0.05	-0.05	-0.06	-0.03	-0.05	-0.05	-0.18	-0.24	-0.30	-0.31	-0.37	-0.28	-0.44	-0.27	-0.32	-0.21	-0.41	-0.49	-0.24	0.26	0.77	0.67	0.69	0.25	-0.07	0.77	-0.49	
7	0.30	0.17	0.25	0.51	0.46	-0.12	-0.28	-0.36	-0.64	-0.82	-0.88	-1.02	-1.03	-0.96	-0.86	-0.82	-0.65	-0.26	0.04	0.71	0.76	1.13	1.01	0.68	-0.11	1.13	-1.03	
8	0.59	0.16	0.58	1.05	1.06	0.37	-0.14	-0.31	-0.43	-0.72	-0.71	-0.61	-0.89	-0.21	0.22	-0.14	-0.12	0.07	-0.04	0.09	0.03	0.02	0.06	0.19	0.01	1.06	-0.89	
9	0.24	0.04	-0.13	-0.14	-0.16	-0.21	-0.32	-0.38	-0.58	-0.68	-0.82	-1.01	-0.86	-1.04	-1.06	-0.80	-0.48	-0.17	-0.07	0.16	0.54	1.37	0.59	0.07	-0.25	1.37	-1.06	
10	-0.03	-0.01	0.11	0.13	0.16	0.14	0.03	-0.06	0.01	-0.16	-0.27	-0.30	-0.30	-0.22	-0.20	-0.16	-0.18	-0.10	-0.01	0.03	0.05	0.03	0.04	0.09	-0.05	0.16	-0.30	
11	0.05	0.04	0.02	-0.06	0.00	-0.13	-0.17	-0.26	-0.51	-0.54	-0.52	-0.60	-0.91	-0.79	-0.83	-0.56	-0.50	-0.22	0.15	0.41	0.28	0.09	0.10	0.21	-0.22	0.41	-0.91	
12	0.56	0.43	0.51	0.63	0.79	0.64	-0.17	-0.27	-0.40	-0.70	-0.91	-0.82	-0.72	-0.54	-0.58	0.08	-0.14	-0.15	0.51	0.19	0.10	0.21	0.12	0.06	-0.02	0.79	-0.91	
13	0.08	-0.03	-0.01	0.04	-0.01	0.19	0.02	-0.08	-0.39	-0.56	-0.67	-0.63	0.02	-0.42	-0.94	-0.64	-0.38	-0.18	-0.09	0.38	0.44	0.47	0.62	0.91	-0.08	0.91	-0.94	
14	0.74	1.98	0.72	0.31	0.26	-0.10	-0.39	-0.53	-0.66	-0.67	-0.64	-0.97	-0.96	-0.98	-0.85	-0.62	-0.45	-0.39	-0.20	0.23	0.59	0.17	0.25	0.65	-0.10	1.98	-0.98	
15	0.80	0.52	0.61	0.67	0.49	0.41	-0.22	-0.25	-0.35	-0.74	-0.80	-1.03	-0.96	-0.97	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	-0.13	0.80	-1.03	
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	2.35	0.74	0.56	1.67	1.58	1.37	1.38	2.35	0.56
26	1.60	1.10	1.21	1.08	0.83	0.92	-0.08	-0.57	-0.52	-0.62	-0.57	-0.66	-0.83	-1.01	-1.02	-0.90	-0.78	-0.62	-0.36	-0.02	0.56	0.50	0.30	0.39	-0.00	1.60	-1.02	
27	0.37	0.45	0.59	1.07	0.61	0.34	-0.18	-0.54	-0.77	-1.00	-1.13	-1.07	-1.16	-1.11	-1.06	-0.86	-0.67	-0.45	-0.05	1.09	1.43	0.98	0.76	0.86	-0.06	1.43	-1.16	
28	1.01	1.79	0.57	1.03	1.32	0.43	-0.16	-0.48	-0.51	-0.51	-0.60	-0.84	-0.97	-0.83	-0.73	-0.52	-0.15	0.01	0.48	0.85	0.84	0.67	0.71	1.66	0.21	1.79	-0.97	
29	1.67	1.40	1.60	2.23	1.57	0.95	-0.08	-0.43	-0.48	-0.64	-0.76	-0.81	-0.57	-0.49	-0.46	-0.19	-0.40	0.34	0.76	0.93	1.32	1.21	0.88	0.66	0.43	2.23	-0.81	
30	1.02	1.28	1.27	0.87	1.20	0.67	-0.33	-0.37	-0.48	-0.73	-0.77	-0.95	-0.94	-0.88	-0.65	-0.77	-0.51	-0.56	-0.25	0.98	0.73	0.77	0.71	1.58	0.12	1.58	-0.95	
Avg	0.62	0.62	0.59	0.65	0.62	0.30	-0.13	-0.31	-0.43	-0.57	-0.67	-0.73	-0.78	-0.70	-0.62	-0.44	-0.36	-0.21	0.18	0.47	0.56	0.65	0.58	0.61	0.03	1.23	-0.83	
Max	1.67	1.98	1.60	2.23	1.57	0.95	0.28	-0.01	0.01	-0.15	-0.27	-0.28	0.02	-0.21	0.22	0.15	0.25	0.34	2.35	1.12	1.43	1.67	1.58	1.66	1.38	2.35	0.56	
Min	-0.05	-0.05	-0.13	-0.14	-0.16	-0.21	-0.39	-0.57	-0.77	-1.00	-1.13	-1.07	-1.16	-1.11	-1.06	-0.90	-0.78	-0.62	-0.36	-0.02	0.03	0.02	0.04	0.06	-0.25	0.16	-1.16	

A-18

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
May 2012

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.0	0.0	0.0	0.0	0.0	32.9	84.7	305.6	300.5	316.9	612.8	866.0	995.9	921.0	830.0	649.7	516.3	326.4	136.3	11.6	0.0	0.0	0.0	0.0	287.8	995.9	0.0
2	0.0	0.0	0.0	0.0	0.0	33.2	196.1	368.1	580.3	482.6	705.7	805.0	771.2	825.0	402.9	495.4	163.2	184.0	131.7	16.5	0.0	0.0	0.0	0.0	256.7	825.0	0.0
3	0.0	0.0	0.0	0.0	0.0	33.2	194.1	371.4	543.7	545.1	509.2	336.0	320.5	139.6	256.0	181.8	72.9	46.3	31.0	5.2	0.0	0.0	0.0	0.0	149.4	545.1	0.0
4	0.0	0.0	0.0	0.0	0.1	61.6	245.8	379.2	542.9	705.7	629.3	800.0	706.6	958.0	690.0	683.5	206.4	124.1	41.7	2.5	0.0	0.0	0.0	0.0	282.4	958.0	0.0
5	0.0	0.0	0.0	0.0	0.0	9.7	50.9	135.3	261.7	588.5	408.2	815.0	664.0	458.2	656.4	594.1	314.0	145.9	83.3	11.3	0.0	0.0	0.0	0.0	216.5	815.0	0.0
6	0.0	0.0	0.0	0.0	0.0	34.1	202.6	314.2	425.3	336.6	299.0	769.9	554.9	645.7	500.4	396.0	290.3	354.6	128.7	13.0	0.0	0.0	0.0	0.0	219.4	769.9	0.0
7	0.0	0.0	0.0	0.0	0.6	53.1	212.2	397.8	580.3	734.0	857.0	925.0	941.0	900.0	813.0	684.2	514.8	334.1	154.8	15.7	0.0	0.0	0.0	0.0	338.2	941.0	0.0
8	0.0	0.0	0.0	0.0	0.7	27.9	94.9	243.7	496.0	730.6	835.0	918.0	939.0	904.0	816.0	683.9	525.3	346.9	149.4	16.5	0.0	0.0	0.0	0.0	322.0	939.0	0.0
9	0.0	0.0	0.0	0.0	0.0	15.7	193.2	394.8	568.1	723.8	829.0	767.3	792.6	946.0	750.9	612.7	506.2	255.5	65.8	24.6	0.0	0.0	0.0	0.0	310.3	946.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.6	14.5	37.6	80.5	351.7	652.4	944.0	951.0	932.0	797.7	680.7	543.0	359.1	171.4	25.3	0.0	0.0	0.0	0.0	272.6	951.0	0.0
11	0.0	0.0	0.0	0.0	1.2	79.6	248.4	425.0	606.1	755.8	881.0	950.0	969.0	931.0	845.0	713.0	550.6	364.8	167.3	21.0	0.0	0.0	0.0	0.0	354.5	969.0	0.0
12	0.0	0.0	0.0	0.0	1.1	51.2	233.3	414.1	607.2	759.0	879.0	950.0	967.0	925.0	836.0	701.8	535.1	350.5	173.4	25.0	0.0	0.0	0.0	0.0	350.4	967.0	0.0
13	0.0	0.0	0.0	0.0	0.7	51.1	232.8	423.8	605.1	757.0	878.0	944.0	963.0	925.0	840.0	712.5	550.6	365.5	165.8	25.0	0.0	0.0	0.0	0.0	351.7	963.0	0.0
14	0.0	0.0	0.0	0.0	1.3	64.9	234.5	419.7	600.9	754.6	874.0	931.0	960.0	922.0	835.0	704.1	541.8	361.9	182.1	32.1	0.0	0.0	0.0	0.0	350.8	960.0	0.0
15	0.0	0.0	0.0	0.0	1.9	69.8	237.6	421.4	601.9	754.0	874.0	930.0	950.0	897.0	838.0	720.8	500.1	331.1	110.7	15.2	0.0	0.0	0.0	0.0	343.9	950.0	0.0
16	0.0	0.0	0.0	0.0	1.6	37.5	185.8	354.1	491.6	744.1	846.0	923.0	960.0	814.0	673.1	300.9	168.8	162.8	170.0	16.0	0.0	0.0	0.0	0.0	285.4	960.0	0.0
17	0.0	0.0	0.0	0.0	0.8	46.1	183.9	408.5	557.0	748.8	746.4	377.5	334.5	265.2	160.4	119.0	129.5	68.7	27.7	1.3	0.0	0.0	0.0	0.0	174.0	748.8	0.0
18	0.0	0.0	0.0	0.0	0.4	13.0	64.3	102.7	251.2	490.4	687.0	760.8	471.1	685.2	398.4	406.8	203.4	240.4	164.5	37.7	0.1	0.0	0.0	0.0	207.4	760.8	0.0
19	0.0	0.0	0.0	0.0	4.3	88.1	258.3	426.8	644.3	731.5	655.7	652.4	493.8	524.2	342.3	396.5	321.1	148.9	160.0	38.4	0.2	0.0	0.0	0.0	245.3	731.5	0.0
20	0.0	0.0	0.0	0.0	4.0	87.6	245.9	423.7	600.5	735.2	566.2	590.3	607.3	659.5	535.5	332.5	373.0	110.1	17.6	11.5	0.0	0.0	0.0	0.0	245.9	735.2	0.0
21	0.0	0.0	0.0	0.0	3.6	33.3	118.8	367.7	405.5	483.3	521.4	674.1	920.0	189.0	48.9	596.7	450.0	94.5	53.2	10.4	0.0	0.0	0.0	0.0	207.1	920.0	0.0
22	0.0	0.0	0.0	0.0	1.2	33.3	113.6	306.0	304.0	421.5	497.7	158.9	309.5	130.8	490.9	223.8	321.1	140.4	115.6	31.7	0.4	0.0	0.0	0.0	150.0	497.7	0.0
23	0.0	0.0	0.0	0.0	4.1	54.0	121.9	218.5	441.4	445.8	381.8	394.8	204.1	475.0	643.0	641.1	536.7	100.7	100.7	39.3	0.2	0.0	0.0	0.0	200.1	643.0	0.0
24	0.0	0.0	0.0	0.0	2.2	40.7	155.3	171.1	372.8	506.2	405.1	602.6	457.7	415.9	218.5	433.1	237.4	210.8	100.6	28.8	0.2	0.0	0.0	0.0	181.6	602.6	0.0
25	0.0	0.0	0.0	0.0	5.5	111.4	215.2	388.3	260.9	476.9	304.9	228.3	226.1	206.0	217.2	244.8	135.7	116.0	61.1	17.7	0.0	0.0	0.0	0.0	134.0	476.9	0.0
26	0.0	0.0	0.0	0.0	0.2	16.9	37.9	53.1	104.7	179.6	200.0	161.4	126.7	59.1	87.4	129.7	88.5	43.2	18.3	9.5	0.0	0.0	0.0	0.0	54.8	200.0	0.0
27	0.0	0.0	0.0	0.0	0.0	18.0	63.6	124.6	384.3	514.4	651.6	437.5	664.4	550.8	373.8	403.8	292.4	139.8	60.4	21.4	0.0	0.0	0.0	0.0	195.9	664.4	0.0
28	0.0	0.0	0.0	0.0	4.6	35.8	105.8	192.1	118.9	106.9	136.7	142.0	128.6	165.1	394.2	665.2	553.7	386.3	205.3	44.8	0.8	0.0	0.0	0.0	141.1	665.2	0.0
29	0.0	0.0	0.0	0.0	5.3	112.8	178.5	445.8	566.4	752.3	858.0	978.0	272.3	184.7	437.5	253.6	219.9	208.5	74.1	11.1	0.0	0.0	0.0	0.0	231.6	978.0	0.0
30	0.0	0.0	0.0	0.0	9.6	112.6	265.6	365.1	505.5	781.8	869.0	742.0	484.6	321.2	320.4	290.0	286.3	316.9	158.4	26.6	1.3	0.0	0.0	0.0	244.0	869.0	0.0
31	0.0	0.0	0.0	0.0	7.3	91.3	199.5	400.7	535.9	585.5	435.7	436.5	269.4	211.2	104.7	97.0	101.0	48.5	14.1	7.8	0.0	0.0	0.0	0.0	147.8	585.5	0.0
Avg	0.0	0.0	0.0	0.0	2.0	50.0	167.4	316.1	449.9	580.6	628.6	674.6	625.0	583.4	521.1	475.8	346.7	218.9	109.5	19.8	0.1	0.0	0.0	0.0	240.4	791.4	0.0
Max	0.0	0.0	0.0	0.0	9.6	112.8	265.6	445.8	644.3	781.8	881.0	978.0	995.9	958.0	845.0	720.8	553.7	386.3	205.3	44.8	1.3	0.0	0.0	0.0	354.5	995.9	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.6	14.5	37.6	80.5	106.9	136.7	142.0	126.7	59.1	48.9	97.0	72.9	43.2	14.1	1.3	0.0	0.0	0.0	0.0	54.8	200.0	0.0

A-20

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
June 2012

Day	<< Hour >>																								Avg	Max	Min				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
1	0.0	0.0	0.0	0.0	5.5	98.2	264.0	411.0	511.6	314.8	601.9	384.8	345.3	214.1	341.9	425.0	373.7	235.4	120.9	16.0	1.4	0.0	0.0	0.0	194.4	601.9	0.0				
2	0.0	0.0	0.0	0.0	7.1	85.1	206.4	380.8	155.8	353.5	459.5	577.6	925.0	560.4	528.7	77.2	11.7	140.6	100.6	31.0	1.8	0.0	0.0	0.0	191.8	925.0	0.0				
3	0.0	0.0	0.0	0.0	10.1	96.9	203.8	288.5	372.8	618.0	578.6	487.5	802.0	783.9	806.0	585.8	473.5	393.9	209.5	56.1	2.0	0.0	0.0	0.0	282.0	806.0	0.0				
4	0.0	0.0	0.0	0.0	5.7	116.8	201.4	270.7	359.7	481.9	767.4	925.0	950.0	941.0	831.0	620.1	559.3	379.9	209.4	61.4	2.2	0.0	0.0	0.0	320.1	950.0	0.0				
5	0.0	0.0	0.0	0.0	1.9	24.8	123.7	297.5	593.6	748.5	858.0	930.0	969.0	709.2	191.5	2.5	6.7	65.5	1.5	0.0	0.0	0.0	0.0	0.0	230.2	969.0	0.0				
6	0.0	0.0	0.0	0.0	1.8	24.7	83.9	225.8	185.0	154.3	201.9	245.6	379.8	311.8	349.4	261.6	421.4	427.0	278.8	67.6	1.8	0.0	0.0	0.0	150.9	427.0	0.0				
7	0.0	0.0	0.0	0.0	8.1	139.1	221.9	425.8	629.0	776.6	887.0	961.0	988.0	956.0	873.0	751.5	595.6	336.0	168.0	36.2	1.0	0.0	0.0	0.0	364.7	988.0	0.0				
8	0.0	0.0	0.0	0.0	5.8	86.3	158.9	329.0	626.0	769.5	778.4	777.8	902.0	331.1	74.5	225.6	156.9	51.3	69.2	40.7	0.3	0.0	0.0	0.0	224.3	902.0	0.0				
9	0.0	0.0	0.0	0.0	2.1	25.7	184.9	412.2	464.3	469.5	620.2	693.9	562.4	814.0	749.5	524.5	317.8	177.8	128.1	45.7	1.9	0.0	0.0	0.0	258.1	814.0	0.0				
10	0.0	0.0	0.0	0.0	2.1	26.2	58.7	91.5	114.6	174.9	207.5	215.4	175.8	169.8	125.1	113.4	111.6	75.3	41.4	17.0	1.3	0.0	0.0	0.0	71.7	215.4	0.0				
11	0.0	0.0	0.0	0.0	2.8	40.3	83.0	197.0	418.0	347.6	448.5	615.1	777.3	728.0	647.2	455.1	437.4	298.9	156.1	67.7	3.1	0.0	0.0	0.0	238.5	777.3	0.0				
12	0.0	0.0	0.0	0.0	8.7	127.7	281.9	452.8	623.3	769.6	897.0	839.0	766.9	636.6	575.2	276.2	308.0	324.9	31.7	43.0	1.7	0.0	0.0	0.0	290.2	897.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	21.7	178.0	188.4	481.9	540.3	671.8	623.3	172.6	749.5	888.0	575.6	387.1	246.7	234.9	38.5	2.3	0.0	0.0	0.0	250.0	888.0	0.0				
14	0.0	0.0	0.0	0.0	5.6	119.4	281.4	457.1	543.2	604.7	623.0	958.0	995.9	957.0	825.0	553.9	488.6	454.6	192.7	80.2	2.0	0.0	0.0	0.0	339.3	995.9	0.0				
15	0.0	0.0	0.0	0.0	4.4	61.3	204.6	299.7	381.6	670.6	824.0	978.0	995.9	964.0	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	384.6	995.9	0.0	
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	109.9	85.8	3.0	0.0	0.0	0.0	33.1	109.9	0.0			
26	0.0	0.0	0.0	0.0	6.5	98.0	254.5	435.8	615.7	766.2	869.0	949.0	974.0	886.0	836.0	728.4	581.1	417.5	249.2	85.7	4.0	0.0	0.0	0.0	364.9	974.0	0.0				
27	0.0	0.0	0.0	0.0	5.7	109.0	274.7	451.8	624.0	773.1	886.0	960.0	986.0	956.0	881.0	759.1	605.0	433.8	257.2	93.6	3.5	0.0	0.0	0.0	377.5	986.0	0.0				
28	0.0	0.0	0.0	0.0	5.8	101.2	266.3	443.9	615.9	769.2	880.0	954.0	980.0	943.0	860.0	655.8	436.0	322.1	239.4	75.6	1.8	0.0	0.0	0.0	356.3	980.0	0.0				
29	0.0	0.0	0.0	0.0	7.7	116.7	215.4	441.2	613.3	763.0	873.0	958.0	737.8	722.0	700.8	533.9	588.9	105.5	98.4	31.1	14.2	0.0	0.0	0.0	313.4	958.0	0.0				
30	0.0	0.0	0.0	0.0	5.3	97.9	255.5	427.0	595.9	744.5	776.7	910.0	920.0	879.0	811.0	776.9	563.7	480.1	237.6	82.6	3.4	0.0	0.0	0.0	357.0	920.0	0.0				
Avg	0.0	0.0	0.0	0.0	5.1	80.9	200.1	346.4	476.3	580.5	685.5	747.1	765.3	710.6	626.0	468.5	390.7	282.5	156.7	52.8	2.6	0.0	0.0	0.0	272.7	813.3	0.0				
Max	0.0	0.0	0.0	0.0	10.1	139.1	281.9	457.1	629.0	776.6	897.0	978.0	995.9	964.0	888.0	776.9	605.0	480.1	278.8	93.6	14.2	0.0	0.0	0.0	384.6	995.9	0.0				
Min	0.0	0.0	0.0	0.0	0.0	21.7	58.7	91.5	114.6	154.3	201.9	215.4	172.6	169.8	74.5	2.5	6.7	51.3	1.5	0.0	0.0	0.0	0.0	0.0	33.1	109.9	0.0				

A-21

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
May 2012

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	24.03	24.03	24.03	24.03	24.04	24.04	24.06	24.07	24.06	24.06	24.05	24.04	24.04	24.05	24.05	24.06	24.07	24.07	24.07	24.08	24.09	24.09	24.09	24.09	24.06	24.09	24.03	
2	24.08	24.07	24.06	24.06	24.08	24.09	24.09	24.10	24.10	24.11	24.12	24.13	24.13	24.13	24.14	24.15	24.18	24.19	24.19	24.21	24.22	24.23	24.23	24.23	24.14	24.23	24.06	
3	24.23	24.23	24.23	24.23	24.23	24.23	24.22	24.22	24.20	24.19	24.18	24.17	24.15	24.16	24.14	24.13	24.14	24.16	24.16	24.17	24.19	24.20	24.19	24.19	24.19	24.19	24.23	24.13
4	24.19	24.19	24.20	24.22	24.23	24.24	24.27	24.28	24.28	24.28	24.28	24.28	24.27	24.26	24.25	24.24	24.23	24.23	24.23	24.24	24.27	24.29	24.29	24.31	24.25	24.31	24.19	
5	24.32	24.29	24.31	24.33	24.35	24.35	24.36	24.36	24.37	24.38	24.38	24.37	24.37	24.37	24.38	24.39	24.39	24.41	24.42	24.43	24.44	24.46	24.47	24.48	24.38	24.48	24.29	
6	24.48	24.48	24.49	24.49	24.50	24.51	24.54	24.55	24.55	24.56	24.58	24.58	24.59	24.59	24.59	24.58	24.58	24.58	24.58	24.58	24.59	24.59	24.60	24.60	24.56	24.60	24.48	
7	24.61	24.60	24.60	24.60	24.60	24.60	24.61	24.63	24.62	24.61	24.60	24.58	24.57	24.56	24.54	24.53	24.52	24.52	24.52	24.52	24.52	24.53	24.52	24.52	24.57	24.63	24.52	
8	24.51	24.50	24.50	24.49	24.49	24.49	24.49	24.50	24.49	24.47	24.46	24.44	24.42	24.41	24.40	24.39	24.37	24.36	24.36	24.35	24.36	24.36	24.36	24.35	24.43	24.51	24.35	
9	24.35	24.35	24.34	24.34	24.33	24.33	24.33	24.34	24.32	24.30	24.28	24.26	24.23	24.21	24.19	24.18	24.17	24.16	24.16	24.18	24.21	24.22	24.22	24.21	24.26	24.35	24.16	
10	24.21	24.23	24.24	24.26	24.27	24.28	24.27	24.29	24.29	24.30	24.32	24.32	24.33	24.34	24.34	24.35	24.36	24.37	24.38	24.38	24.40	24.42	24.42	24.44	24.33	24.44	24.21	
11	24.45	24.46	24.47	24.48	24.49	24.50	24.50	24.52	24.52	24.52	24.51	24.51	24.50	24.49	24.48	24.47	24.47	24.47	24.47	24.47	24.48	24.50	24.50	24.50	24.49	24.52	24.45	
12	24.51	24.52	24.52	24.53	24.55	24.56	24.58	24.59	24.59	24.59	24.59	24.59	24.58	24.57	24.56	24.55	24.55	24.55	24.55	24.55	24.56	24.57	24.56	24.56	24.56	24.59	24.51	
13	24.55	24.55	24.56	24.56	24.57	24.57	24.59	24.60	24.59	24.59	24.59	24.58	24.57	24.56	24.54	24.53	24.52	24.51	24.50	24.50	24.51	24.52	24.52	24.52	24.55	24.60	24.50	
14	24.51	24.51	24.52	24.52	24.53	24.55	24.57	24.57	24.56	24.56	24.56	24.55	24.54	24.53	24.52	24.51	24.51	24.50	24.49	24.50	24.52	24.53	24.53	24.54	24.53	24.57	24.49	
15	24.53	24.52	24.51	24.51	24.50	24.50	24.50	24.49	24.48	24.47	24.46	24.44	24.42	24.40	24.39	24.37	24.36	24.34	24.33	24.34	24.34	24.35	24.35	24.34	24.43	24.53	24.33	
16	24.34	24.33	24.32	24.31	24.31	24.32	24.32	24.32	24.31	24.30	24.30	24.29	24.26	24.25	24.23	24.22	24.21	24.21	24.21	24.23	24.25	24.25	24.26	24.25	24.27	24.34	24.21	
17	24.25	24.25	24.26	24.26	24.25	24.24	24.24	24.23	24.22	24.22	24.20	24.20	24.18	24.17	24.17	24.16	24.15	24.13	24.13	24.15	24.15	24.15	24.16	24.15	24.19	24.26	24.13	
18	24.15	24.15	24.15	24.15	24.16	24.17	24.18	24.19	24.19	24.20	24.20	24.21	24.21	24.22	24.22	24.23	24.27	24.29	24.30	24.31	24.33	24.34	24.34	24.34	24.23	24.34	24.15	
19	24.35	24.35	24.36	24.37	24.38	24.38	24.39	24.40	24.39	24.40	24.39	24.39	24.37	24.37	24.36	24.37	24.39	24.40	24.41	24.41	24.42	24.43	24.44	24.44	24.39	24.44	24.35	
20	24.44	24.44	24.45	24.44	24.44	24.45	24.47	24.48	24.47	24.47	24.46	24.45	24.44	24.43	24.42	24.42	24.41	24.41	24.40	24.40	24.41	24.43	24.43	24.44	24.44	24.48	24.40	
21	24.44	24.43	24.43	24.43	24.42	24.42	24.42	24.42	24.41	24.40	24.39	24.36	24.33	24.32	24.37	24.31	24.28	24.27	24.27	24.26	24.23	24.21	24.20	24.17	24.34	24.44	24.17	
22	24.18	24.19	24.17	24.16	24.16	24.14	24.13	24.13	24.13	24.11	24.10	24.09	24.11	24.12	24.12	24.12	24.11	24.10	24.11	24.12	24.12	24.12	24.11	24.10	24.13	24.19	24.09	
23	24.08	24.08	24.07	24.07	24.07	24.08	24.08	24.08	24.08	24.07	24.07	24.07	24.07	24.06	24.06	24.05	24.06	24.07	24.08	24.08	24.09	24.10	24.10	24.10	24.08	24.10	24.05	
24	24.10	24.10	24.11	24.11	24.11	24.11	24.12	24.11	24.11	24.11	24.11	24.11	24.10	24.10	24.11	24.12	24.13	24.14	24.15	24.17	24.20	24.22	24.23	24.23	24.13	24.23	24.10	
25	24.23	24.22	24.22	24.23	24.24	24.24	24.25	24.25	24.27	24.27	24.27	24.26	24.26	24.25	24.25	24.25	24.26	24.26	24.25	24.26	24.27	24.28	24.26	24.26	24.25	24.28	24.22	
26	24.26	24.25	24.24	24.24	24.23	24.21	24.23	24.23	24.22	24.21	24.20	24.20	24.20	24.19	24.18	24.18	24.17	24.16	24.16	24.17	24.16	24.15	24.15	24.13	24.20	24.26	24.13	
27	24.13	24.10	24.09	24.09	24.09	24.09	24.09	24.10	24.09	24.09	24.10	24.11	24.12	24.13	24.14	24.16	24.18	24.20	24.21	24.21	24.21	24.22	24.21	24.22	24.14	24.22	24.09	
28	24.22	24.23	24.24	24.24	24.24	24.25	24.26	24.28	24.29	24.30	24.32	24.33	24.34	24.36	24.37	24.37	24.38	24.38	24.38	24.38	24.38	24.39	24.39	24.38	24.32	24.39	24.22	
29	24.38	24.37	24.37	24.36	24.36	24.37	24.37	24.37	24.37	24.34	24.33	24.32	24.31	24.35	24.34	24.33	24.32	24.32	24.32	24.32	24.33	24.34	24.35	24.34	24.35	24.38	24.31	
30	24.34	24.33	24.34	24.35	24.36	24.37	24.39	24.40	24.40	24.40	24.41	24.41	24.41	24.42	24.43	24.43	24.43	24.43	24.43	24.43	24.44	24.45	24.47	24.47	24.41	24.47	24.33	
31	24.48	24.47	24.47	24.46	24.45	24.46	24.47	24.47	24.46	24.45	24.44	24.43	24.42	24.41	24.39	24.39	24.38	24.38	24.38	24.38	24.38	24.38	24.38	24.37	24.42	24.48	24.37	
Avg	24.32	24.32	24.32	24.32	24.32	24.33	24.34	24.34	24.34	24.33	24.33	24.32	24.32	24.32	24.31	24.31	24.31	24.31	24.31	24.32	24.33	24.33	24.33	24.33	24.32	24.39	24.26	
Max	24.61	24.60	24.60	24.60	24.60	24.60	24.61	24.63	24.62	24.61	24.60	24.59	24.59	24.59	24.59	24.58	24.58	24.58	24.58	24.58	24.59	24.59	24.60	24.60	24.57	24.63	24.52	
Min	24.03	24.03	24.03	24.03	24.04	24.04	24.06	24.07	24.06	24.06	24.05	24.04	24.04	24.05	24.05	24.05	24.06	24.07	24.07	24.08	24.09	24.09	24.09	24.09	24.06	24.09	24.03	

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Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
June 2012

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	24.36	24.35	24.36	24.36	24.37	24.37	24.39	24.39	24.38	24.38	24.37	24.37	24.37	24.36	24.35	24.34	24.34	24.33	24.33	24.32	24.32	24.32	24.31	24.30	24.35	24.39	24.30
2	24.29	24.28	24.26	24.24	24.23	24.23	24.22	24.21	24.20	24.19	24.18	24.17	24.15	24.13	24.11	24.14	24.19	24.21	24.21	24.21	24.22	24.25	24.25	24.26	24.21	24.29	24.11
3	24.27	24.28	24.28	24.28	24.29	24.31	24.31	24.32	24.33	24.33	24.33	24.33	24.32	24.32	24.31	24.30	24.29	24.29	24.29	24.31	24.33	24.35	24.34	24.34	24.31	24.35	24.27
4	24.33	24.33	24.33	24.32	24.32	24.32	24.33	24.34	24.34	24.32	24.32	24.30	24.27	24.26	24.23	24.20	24.18	24.15	24.14	24.14	24.11	24.10	24.11	24.09	24.25	24.34	24.09
5	24.08	24.07	24.07	24.07	24.07	24.08	24.08	24.08	24.07	24.06	24.05	24.04	24.03	24.01	23.98	23.98	24.00	23.98	24.00	24.02	24.03	24.10	24.10	24.10	24.05	24.10	23.98
6	24.11	24.15	24.17	24.17	24.19	24.21	24.22	24.25	24.27	24.28	24.29	24.30	24.31	24.31	24.31	24.33	24.34	24.35	24.36	24.38	24.39	24.40	24.40	24.40	24.29	24.40	24.11
7	24.41	24.41	24.41	24.42	24.42	24.44	24.44	24.44	24.43	24.43	24.42	24.41	24.40	24.38	24.37	24.35	24.34	24.33	24.31	24.30	24.30	24.29	24.28	24.26	24.37	24.44	24.26
8	24.25	24.23	24.22	24.20	24.20	24.20	24.19	24.19	24.17	24.16	24.16	24.15	24.13	24.12	24.12	24.12	24.11	24.14	24.15	24.15	24.16	24.18	24.17	24.15	24.17	24.25	24.11
9	24.13	24.12	24.12	24.11	24.11	24.11	24.11	24.12	24.11	24.10	24.10	24.09	24.09	24.10	24.10	24.11	24.12	24.13	24.13	24.15	24.17	24.18	24.17	24.16	24.12	24.18	24.09
10	24.16	24.15	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.17	24.19	24.21	24.23	24.25	24.28	24.31	24.34	24.37	24.39	24.41	24.43	24.45	24.46	24.25	24.46	24.15
11	24.46	24.47	24.48	24.48	24.48	24.49	24.50	24.52	24.52	24.52	24.52	24.51	24.51	24.50	24.49	24.49	24.48	24.48	24.48	24.48	24.48	24.49	24.49	24.47	24.49	24.52	24.46
12	24.46	24.46	24.46	24.45	24.44	24.44	24.44	24.43	24.42	24.40	24.40	24.39	24.37	24.36	24.35	24.34	24.33	24.32	24.33	24.33	24.32	24.32	24.31	24.29	24.38	24.46	24.29
13	24.26	24.24	24.25	24.26	24.25	24.25	24.24	24.24	24.23	24.22	24.22	24.22	24.23	24.23	24.23	24.23	24.22	24.22	24.21	24.23	24.25	24.28	24.28	24.29	24.24	24.29	24.21
14	24.29	24.29	24.30	24.31	24.31	24.33	24.35	24.35	24.35	24.35	24.35	24.34	24.34	24.33	24.32	24.32	24.32	24.31	24.31	24.31	24.31	24.31	24.31	24.31	24.32	24.35	24.29
15	24.31	24.31	24.31	24.32	24.33	24.34	24.35	24.37	24.37	24.38	24.38	24.39	24.40	24.40	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	24.35	24.40	24.31
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	24.21	24.20	24.20	24.21	24.21	24.19	24.20	24.21	24.19
26	24.17	24.15	24.15	24.14	24.12	24.13	24.12	24.10	24.09	24.08	24.07	24.09	24.09	24.10	24.13	24.15	24.17	24.19	24.21	24.22	24.24	24.26	24.28	24.28	24.16	24.28	24.07
27	24.28	24.29	24.31	24.32	24.34	24.35	24.36	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.38	24.39	24.40	24.41	24.42	24.43	24.36	24.43	24.28
28	24.43	24.43	24.43	24.43	24.43	24.45	24.45	24.45	24.45	24.44	24.43	24.43	24.42	24.41	24.40	24.39	24.37	24.36	24.36	24.37	24.39	24.39	24.38	24.38	24.41	24.45	24.36
29	24.38	24.38	24.38	24.37	24.38	24.39	24.40	24.40	24.40	24.40	24.40	24.39	24.39	24.39	24.38	24.38	24.38	24.40	24.40	24.41	24.43	24.43	24.44	24.44	24.40	24.44	24.37
30	24.45	24.44	24.44	24.43	24.44	24.45	24.45	24.45	24.44	24.43	24.42	24.41	24.40	24.39	24.38	24.37	24.35	24.34	24.33	24.31	24.32	24.32	24.31	24.30	24.39	24.45	24.30
Avg	24.29	24.29	24.29	24.29	24.29	24.30	24.31	24.31	24.31	24.30	24.30	24.29	24.29	24.29	24.27	24.27	24.27	24.28	24.28	24.28	24.29	24.30	24.30	24.30	24.29	24.36	24.22
Max	24.46	24.47	24.48	24.48	24.48	24.49	24.50	24.52	24.52	24.52	24.52	24.51	24.51	24.50	24.49	24.49	24.48	24.48	24.48	24.48	24.49	24.49	24.47	24.49	24.52	24.46	
Min	24.08	24.07	24.07	24.07	24.07	24.08	24.08	24.08	24.07	24.06	24.05	24.04	24.03	24.01	23.98	23.98	24.00	23.98	24.00	24.02	24.03	24.10	24.10	24.09	24.05	24.10	23.98

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**Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Relative Humidity (RH)
May 2012**

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	83.7	75.6	81.7	79.2	76.8	68.8	67.5	60.9	60.8	59.8	51.4	48.6	44.6	40.7	36.7	38.4	37.1	34.7	38.4	45.0	56.4	67.1	71.3	74.7	58.3	83.7	34.7
2	75.4	74.4	79.9	82.2	82.6	83.3	77.3	62.9	53.8	49.6	46.5	46.3	43.4	40.8	36.8	49.0	66.4	63.0	44.3	46.4	55.1	66.7	72.6	75.5	61.4	83.3	36.8
3	79.0	82.0	81.6	84.3	82.7	84.7	77.5	55.5	41.0	42.0	44.6	47.5	46.7	71.8	72.2	66.9	77.6	87.2	89.2	91.5	94.8	95.7	94.5	95.2	74.4	95.7	41.0
4	95.4	97.4	97.7	97.0	96.6	94.6	90.5	81.4	67.8	63.3	57.2	52.2	49.1	41.0	38.0	34.2	34.1	35.9	58.8	64.2	89.6	94.4	95.1	93.8	71.6	97.7	34.1
5	93.3	93.4	90.6	88.0	86.4	87.0	83.1	79.6	73.9	63.8	59.0	54.2	50.7	47.8	43.7	42.7	43.2	52.1	50.1	56.8	64.3	80.0	91.6	91.9	69.5	93.4	42.7
6	86.8	85.6	85.2	83.5	84.1	81.9	77.9	69.4	72.8	82.7	81.9	76.3	63.9	55.7	47.7	44.4	43.9	43.6	45.8	56.7	71.0	80.0	84.0	86.7	70.5	86.8	43.6
7	88.7	89.8	89.7	90.2	91.0	87.7	84.5	68.7	48.8	42.4	38.3	33.9	31.8	29.3	28.0	26.8	28.9	29.9	33.1	44.7	59.1	70.4	73.6	77.5	57.8	91.0	26.8
8	80.1	82.7	85.2	88.2	86.3	86.5	87.5	77.7	59.0	36.4	31.0	28.9	26.2	23.9	23.5	22.6	21.5	21.5	24.7	40.6	55.2	60.1	64.9	72.3	53.6	88.2	21.5
9	78.9	83.5	85.7	86.4	84.7	83.6	80.3	60.0	40.2	28.9	25.4	23.6	23.0	21.9	20.9	20.8	22.2	24.3	31.3	34.8	36.6	44.3	48.6	67.1	48.2	86.4	20.8
10	71.5	68.4	85.4	89.4	97.7	98.6	98.4	91.8	86.0	72.6	63.5	59.1	58.2	41.8	31.4	27.3	25.7	26.3	28.2	34.8	40.9	63.6	73.6	81.8	63.2	98.6	25.7
11	83.2	83.8	84.2	84.2	85.2	84.5	79.7	54.6	40.4	35.3	31.3	30.7	29.6	27.3	24.6	22.5	17.6	17.6	20.6	31.6	54.3	58.8	64.2	72.7	50.8	85.2	17.6
12	80.3	81.4	81.4	82.0	83.8	82.1	74.4	61.0	33.4	26.5	23.4	20.9	19.3	19.8	19.4	18.8	19.9	19.5	18.8	36.6	51.9	58.2	61.8	66.5	47.5	83.8	18.8
13	77.7	82.4	82.9	84.1	85.1	83.7	73.3	56.8	35.3	29.2	25.9	24.5	21.1	19.2	16.6	14.3	12.1	11.7	16.7	26.5	44.0	51.5	53.0	60.2	45.3	85.1	11.7
14	71.3	73.2	73.7	78.7	82.1	78.5	70.0	58.0	36.1	25.4	25.2	25.2	23.9	22.6	21.8	21.1	21.8	23.3	26.9	34.0	41.5	46.8	53.4	41.9	44.9	82.1	21.1
15	40.8	41.1	40.6	45.6	45.9	44.9	38.2	34.4	33.4	31.8	28.8	26.9	24.6	22.0	20.3	18.2	17.7	18.4	25.5	35.3	45.7	59.6	64.2	62.7	36.1	64.2	17.7
16	69.6	73.3	72.6	82.3	86.4	85.4	81.3	68.8	48.6	32.3	28.6	24.4	22.9	26.3	26.1	29.1	33.5	43.3	35.1	41.6	48.1	60.0	65.8	72.5	52.4	86.4	22.9
17	73.5	74.7	69.9	58.2	69.4	74.5	70.3	50.9	34.3	34.3	32.7	34.6	38.4	42.2	44.1	72.9	78.6	77.8	82.1	90.2	94.4	91.2	93.3	94.0	65.7	94.4	32.7
18	96.8	98.2	97.0	94.0	94.4	87.1	84.8	82.6	77.0	69.0	67.9	56.4	51.4	45.0	41.1	57.6	65.2	61.1	56.5	58.2	73.4	82.6	86.6	88.3	73.8	98.2	41.1
19	92.8	93.1	93.2	92.7	92.4	87.6	78.6	72.5	49.0	35.9	34.7	32.5	34.7	36.5	34.1	35.8	41.1	43.2	50.8	57.2	73.2	80.9	84.4	87.2	63.1	93.2	32.5
20	90.7	91.5	95.0	94.8	94.8	92.5	86.1	71.9	55.4	42.8	39.2	38.0	38.3	34.7	33.4	34.6	34.4	36.3	47.0	58.5	59.2	63.0	67.8	74.4	61.4	95.0	33.4
21	77.8	81.3	82.9	84.0	85.8	86.6	84.4	66.1	48.5	43.0	40.7	37.2	33.2	53.5	83.9	81.9	65.2	61.7	74.2	72.2	82.9	81.8	86.3	87.8	70.1	87.8	33.2
22	91.5	91.2	92.1	92.1	93.3	93.9	86.8	81.5	76.4	70.9	68.9	76.4	87.1	72.4	60.3	57.1	49.2	46.8	46.1	47.5	55.1	52.4	55.8	59.5	71.0	93.9	46.1
23	62.1	62.5	65.3	66.4	68.5	72.5	72.6	63.8	60.4	58.6	62.9	63.9	71.0	57.5	49.8	44.8	40.8	49.4	58.3	55.6	58.7	65.9	70.4	83.0	61.9	83.0	40.8
24	86.8	86.8	86.9	87.9	89.8	90.0	85.1	79.0	70.2	60.2	63.8	64.2	68.2	70.4	77.8	61.0	64.2	64.7	65.6	70.1	80.9	81.5	76.0	79.7	75.5	90.0	60.2
25	84.1	80.9	77.5	80.2	72.4	66.8	60.7	59.7	63.9	60.8	62.4	62.6	61.5	64.8	74.5	83.5	85.7	91.9	94.3	93.3	94.4	91.2	91.1	90.9	77.0	94.4	59.7
26	92.9	83.8	85.7	92.9	95.5	95.5	92.0	92.8	91.4	89.4	87.5	87.2	89.9	95.0	96.8	93.8	84.6	81.8	93.9	97.2	95.3	87.5	86.0	90.0	90.8	97.2	81.8
27	95.1	97.1	97.3	95.8	94.3	93.4	90.7	85.3	81.6	83.4	85.9	90.7	89.2	89.3	88.1	84.7	87.1	89.4	90.2	89.7	91.5	91.9	91.9	92.2	90.2	97.3	81.6
28	90.7	90.8	92.7	93.4	93.5	95.2	90.3	85.7	87.4	87.3	86.6	81.9	80.2	78.9	76.8	72.8	74.1	73.5	82.3	91.0	94.4	95.0	96.5	86.0	96.5	72.8	
29	98.1	98.3	98.2	97.5	97.6	96.7	96.2	85.3	64.9	55.8	50.5	43.1	42.6	83.1	82.7	73.5	64.5	65.3	65.5	72.1	73.4	45.4	41.3	42.4	72.3	98.3	41.3
30	48.5	44.0	53.6	69.1	72.5	63.1	49.7	43.8	41.2	39.1	38.8	38.1	38.3	42.7	45.5	48.4	48.8	48.4	51.0	55.6	61.5	67.9	78.0	84.6	53.0	84.6	38.1
31	88.6	90.7	93.7	93.6	94.5	91.0	85.8	76.2	61.6	59.1	57.1	55.3	56.7	62.3	72.2	74.0	77.9	77.4	74.0	73.6	86.0	91.7	95.4	96.2	78.5	96.2	55.3
Avg	81.5	81.7	83.2	84.4	85.4	83.9	79.2	69.0	57.9	52.0	49.7	47.9	47.1	47.7	47.4	47.5	47.9	49.1	52.0	57.9	67.1	71.8	75.2	78.7	64.4	90.1	38.3
Max	98.1	98.3	98.2	97.5	97.7	98.6	98.4	92.8	91.4	89.4	87.5	90.7	89.9	95.0	96.8	93.8	87.1	91.9	94.3	97.2	95.3	95.7	95.4	96.5	90.8	98.6	81.8
Min	40.8	41.1	40.6	45.6	45.9	44.9	38.2	34.4	33.4	25.4	23.4	20.9	19.3	19.2	16.6	14.3	12.1	11.7	16.7	26.5	36.6	44.3	41.3	41.9	36.1	64.2	11.7

A-26

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Relative Humidity (RH)
June 2012

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	96.2	96.8	97.9	97.5	98.3	98.7	92.1	78.2	70.0	67.9	63.8	65.0	66.4	64.5	62.8	60.6	60.1	58.2	60.4	71.8	84.4	89.9	92.4	96.5	78.8	98.7	58.2	
2	97.9	98.4	97.5	98.5	98.2	94.8	92.1	74.9	69.1	72.5	59.6	54.9	47.3	43.2	42.7	72.5	89.4	88.7	81.5	75.3	80.8	82.6	82.4	85.7	78.4	98.5	42.7	
3	90.0	92.2	95.1	94.5	96.0	93.8	91.9	83.9	58.5	54.0	49.3	47.7	43.6	43.0	42.3	42.4	41.7	40.0	48.4	56.8	73.6	83.2	84.3	88.2	68.1	96.0	40.0	
4	93.3	95.4	96.5	96.2	97.9	91.9	88.0	79.2	62.9	54.2	42.9	40.3	34.4	34.6	33.3	39.1	39.8	41.0	44.1	49.2	51.3	59.0	62.2	34.7	60.9	97.9	33.3	
5	33.8	34.2	43.6	44.5	51.5	51.5	56.6	56.5	45.1	38.4	43.5	44.7	53.1	57.9	56.8	88.7	92.4	94.1	96.0	96.6	93.3	86.4	84.3	90.5	63.9	96.6	33.8	
6	93.7	92.0	91.6	91.9	92.5	90.9	87.1	80.3	78.5	80.4	73.6	67.5	57.1	51.3	49.3	48.7	45.0	43.7	45.9	58.0	69.2	79.1	86.9	88.5	72.6	93.7	43.7	
7	89.8	90.0	90.7	91.9	93.1	85.8	84.2	69.5	44.4	41.2	40.1	36.6	31.3	27.0	27.5	25.6	20.8	20.7	24.6	46.0	58.1	72.1	68.3	61.3	55.9	93.1	20.7	
8	60.8	56.9	61.3	72.6	78.8	81.1	76.1	67.7	55.2	38.0	38.5	36.5	32.0	33.8	40.9	54.1	60.9	74.3	87.9	83.5	86.0	90.7	91.0	95.5	64.8	95.5	32.0	
9	97.4	98.5	99.3	99.3	99.4	99.5	99.4	90.6	69.2	63.4	57.7	56.5	54.8	49.0	46.4	44.1	41.8	44.8	50.0	56.1	59.5	74.5	71.9	68.5	70.5	99.5	41.8	
10	78.6	85.0	94.4	92.1	89.6	86.8	83.3	85.3	94.1	93.2	92.5	92.8	94.4	95.7	94.6	91.5	92.2	91.1	89.8	90.1	93.0	91.1	90.0	88.1	90.4	95.7	78.6	
11	87.6	93.5	94.1	95.7	94.3	94.8	90.3	82.8	77.7	72.4	67.4	61.8	58.8	53.2	52.4	49.7	46.9	46.9	49.7	59.0	76.6	84.0	87.2	89.1	73.6	95.7	46.9	
12	93.3	93.7	95.3	95.2	96.7	92.9	84.0	69.5	57.1	44.8	44.7	43.5	41.9	38.7	39.7	52.6	46.0	39.6	57.0	72.7	85.9	91.3	90.3	89.0	69.0	96.7	38.7	
13	89.1	93.0	95.1	93.6	95.8	91.2	85.5	78.2	72.4	65.4	64.3	63.2	77.8	69.8	61.1	53.7	51.2	50.2	42.0	44.8	56.7	61.1	64.9	72.2	70.5	95.8	42.0	
14	76.7	85.1	88.8	91.5	93.3	88.8	80.0	63.0	60.6	56.6	54.3	51.3	44.8	43.7	37.8	39.3	38.3	34.6	38.7	46.5	69.6	74.4	75.7	86.0	63.3	93.3	34.6	
15	90.3	90.9	91.0	87.9	91.4	90.8	84.5	73.7	51.2	47.9	42.9	31.1	32.6	30.7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	66.9	91.4	30.7	
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	30.9	33.1	39.7	49.7	55.6	69.6	46.4	69.6	30.9
26	77.6	87.0	87.8	91.1	93.4	87.6	77.7	63.8	41.6	27.7	14.6	14.3	16.2	35.7	40.1	36.1	32.9	34.9	37.2	39.2	44.2	46.0	51.3	52.6	51.3	93.4	14.3	
27	48.6	55.9	61.4	63.4	54.5	50.0	47.3	45.3	44.7	43.4	36.9	31.1	30.1	27.3	24.6	24.4	23.1	24.4	25.0	31.0	43.9	58.9	65.3	71.7	43.0	71.7	23.1	
28	73.0	81.2	83.6	83.9	83.0	78.1	69.0	51.6	35.8	26.1	28.8	24.8	22.7	22.2	21.0	20.7	24.5	24.8	25.1	36.6	42.0	46.1	50.0	57.5	46.3	83.9	20.7	
29	69.3	74.6	77.7	76.5	77.3	74.0	69.4	49.5	37.6	32.6	27.8	22.2	23.1	26.1	23.9	25.5	31.1	38.7	41.1	40.6	55.5	65.4	69.5	77.8	50.3	77.8	22.2	
30	82.2	88.0	88.8	91.8	92.6	86.9	77.3	66.5	49.1	43.5	43.0	39.3	35.1	33.3	29.8	30.0	28.6	27.0	31.3	43.0	49.7	56.8	60.8	66.5	55.9	92.6	27.0	
Avg	81.0	84.1	86.6	87.5	88.4	85.5	80.8	70.5	58.7	53.2	49.3	46.3	44.9	44.0	43.5	47.3	47.7	48.3	50.3	56.5	65.7	72.1	74.2	76.5	64.4	91.8	36.0	
Max	97.9	98.5	99.3	99.3	99.4	99.5	99.4	90.6	94.1	93.2	92.5	92.8	94.4	95.7	94.6	91.5	92.4	94.1	96.0	96.6	93.3	91.3	92.4	96.5	90.4	99.5	78.6	
Min	33.8	34.2	43.6	44.5	51.5	50.0	47.3	45.3	35.8	26.1	14.6	14.3	16.2	22.2	21.0	20.7	20.8	20.7	24.6	31.0	39.7	46.0	50.0	34.7	43.0	69.6	14.3	

A-27

Tintina
Black Butte Mine Met Tower Air Monitoring Summary
Precipitation (Inches)
April 2012

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																													
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Tot	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max																													

A-28

