

## **Rosemont Copper Company**

**Addendum to:**

# **CALPUFF Modeling Report to Assess Impacts in Class I Areas**

**Prepared for:**

SWCA Environmental Consultants  
343 West Franklin Street  
Tucson, Arizona 85701

**Prepared by:**

Applied Environmental Consultants, a JBR company  
1553 W. Elna Rae, Ste. 101  
Tempe, Arizona 85281  
Contact: 480.829.0457

**August 23, 2010**

# TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION.....	1

## LIST OF TABLES

Table 1.1	Year 1 Hourly Emissions Inventory - Impacts on Saguaro NM East.....	2
Table 1.2	Year 1 Annual Emissions Inventory - Impacts on Saguaro NM East.....	3
Table 1.3	Year 1 Hourly Emissions Inventory – Impacts on Saguaro NM West.....	4
Table 1.4	Year 1 Annual Emissions Inventory – Impacts on Saguaro NM West.....	5
Table 1.5	Year 1 Hourly Emissions Inventory – Impacts on Galiuro Wilderness.....	6
Table 1.6	Year 1 Annual Emissions Inventory - Impacts on Galiuro Wilderness.....	7
Table 1.7	Year 5 Hourly Emissions Inventory - Impacts on Saguaro NM East.....	8
Table 1.8	Year 5 Annual Emissions Inventory - Impacts on Saguaro NM East.....	9
Table 1.9	Year 5 Hourly Emissions Inventory - Impacts on Saguaro NM West.....	10
Table 1.10	Year 5 Annual Emissions Inventory - Impacts on Saguaro NM West.....	11
Table 1.11	Year 5 Hourly Emissions Inventory - Impacts on Galiuro Wilderness.....	12
Table 1.12	Year 5 Annual Emissions Inventory - Impacts on Galiuro Wilderness.....	13
Table 1.13	Year 1 Hourly Emissions – Visibility Impacts .....	14
Table 1.14	Year 1 Annual Emissions – Visibility Impacts.....	15
Table 1.15	Year 5 Hourly Emissions – Visibility Impacts .....	16
Table 1.16	Year 5 Annual Emissions – Visibility Impacts.....	17

## 1. INTRODUCTION

The modeling results presented herein are being provided as an addendum to the report titled *“Rosemont Copper Company: CALPUFF Modeling Report to Assess Impacts In Class I Areas”* submitted on July 28<sup>th</sup> 2010. As stated in the Executive Summary (page 14), the modeling results in the July 28, 2010 report are based on the maximum hourly emission rates that are used to demonstrate protection of the NAAQS, and that use of annual emission rates would provide reduced impacts. Because the maximum hourly emissions will not occur on a continuous basis, predicted impacts based on average emissions (i.e. annual emissions) provide a more accurate representation of annual and visual impacts. Additionally, the July 28, 2010 report did not distinguish between visual impacts predicted in the Saguaro National Monument East and the Saguaro National Monument West.

The tables presented in this addendum supplement the modeling results in the July 28, 2010 report by presenting air quality and visual impacts based upon both, the hourly and annual emission inventories for Years 1 and 5 of the mine’s operation. Additionally, visual impacts are presented separately for the Saguaro National Monument East and Saguaro National Monument West.

<b>Table 1.1 Year 1 Hourly Emissions Inventory - Impacts on Saguaro NM East</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	1.61*	531.032	3560.155
	Annual	0.17	531.82	3559.233
PM2.5	24-hr	0.37*	531.82	3559.233
	Annual	0.05	531.82	3559.233
SO2	3-hr	0.14*	535.755	3557.399
	24-hr	0.04*	541.279	3551.878
	Annual	0.003	542.065	3551.881
NOX	Annual	0.26	531.82	3559.233
<b>2002 Meteorology</b>				
PM10	24-hr	2.79*	531.82	3559.233
	Annual	0.18	531.82	3559.233
PM2.5	24-hr	0.50*	531.82	3559.233
	Annual	0.05	531.82	3559.233
SO2	3-hr	0.15*	535.745	3560.17
	24-hr	0.02*	531.82	3559.233
	Annual	0.003	542.065	3551.881
NOX	Annual	0.27	531.82	3559.233
<b>2003 Meteorology</b>				
PM10	24-hr	2.00*	534.165	3562.936
	Annual	0.15	531.032	3560.155
PM2.5	24-hr	0.45*	534.165	3562.936
	Annual	0.04	531.032	3560.155
SO2	3-hr	0.12*	541.279	3551.878
	24-hr	0.03*	541.279	3551.878
	Annual	0.003	542.065	3551.881
NOX	Annual	0.21	531.032	3560.155
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.2 Year 1 Annual Emissions Inventory - Impacts on Saguaro NM East</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.14	531.82	3559.233
PM2.5	Annual	0.03	531.82	3559.233
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.24	531.82	3559.233
<b>2002 Meteorology</b>				
PM10	Annual	0.15	531.82	3559.233
PM2.5	Annual	0.03	531.82	3559.233
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.26	531.82	3559.233
<b>2003 Meteorology</b>				
PM10	Annual	0.12	531.032	3560.155
PM2.5	Annual	0.025	531.032	3560.155
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.2	531.032	3560.155

<b>Table 1.3 Year 1 Hourly Emissions Inventory – Impacts on Saguaro NM West</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	0.56*	486.266	3570.277
	Annual	0.07	486.266	3570.277
PM2.5	24-hr	0.15*	486.266	3570.277
	Annual	0.02	486.266	3570.277
SO2	3-hr	0.04*	487.050	3570.276
	24-hr	0.01*	483.910	3569.357
	Annual	0.001	486.266	3570.277
NOX	Annual	0.1	486.266	3570.277
<b>2002 Meteorology</b>				
PM10	24-hr	0.41*	486.266	3570.277
	Annual	0.04	486.266	3570.277
PM2.5	24-hr	0.12*	486.266	3570.277
	Annual	0.01	486.266	3570.277
SO2	3-hr	0.04*	480.770	3569.363
	24-hr	0.01*	485.478	3568.431
	Annual	0.001	486.266	3570.277
NOX	Annual	0.06	486.266	3570.277
<b>2003 Meteorology</b>				
PM10	24-hr	0.550*	486.266	3570.277
	Annual	0.070	486.266	3570.277
PM2.5	24-hr	0.150*	486.266	3570.277
	Annual	0.020	486.266	3570.277
SO2	3-hr	0.050*	486.266	3570.277
	24-hr	0.020*	486.266	3570.277
	Annual	0.001	486.266	3570.277
NOX	Annual	0.090	486.266	3570.277
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.4 Year 1 Annual Emissions Inventory – Impacts on Saguaro NM West</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.06	486.266	3570.277
PM2.5	Annual	0.013	486.266	3570.277
SO2	Annual	0.0005	486.266	3570.277
NOX	Annual	0.095	486.266	3570.277
<b>2002 Meteorology</b>				
PM10	Annual	0.035	486.266	3570.277
PM2.5	Annual	0.008	486.266	3570.277
SO2	Annual	0.0003	486.266	3570.277
NOX	Annual	0.06	486.266	3570.277
<b>2003 Meteorology</b>				
PM10	Annual	0.063	486.266	3570.277
PM2.5	Annual	0.013	486.266	3570.277
SO2	Annual	0.0005	486.266	3570.277
NOX	Annual	0.088	486.266	3570.277



<b>Table 1.5 Year 1 Hourly Emissions Inventory – Impacts on Galiuro Wilderness</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	0.29*	568.414	3608.375
	Annual	0.01	562.217	3599.096
PM2.5	24-hr	0.08*	568.414	3608.375
	Annual	0.006	560.64	3600.934
SO2	3-hr	0.03*	568.528	3591.747
	24-hr	0.008*	565.383	3593.574
	Annual	0.0006	570.107	3589.911
NOX	Annual	0.02	562.217	3599.096
<b>2002 Meteorology</b>				
PM10	24-hr	0.52*	570.107	3589.911
	Annual	0.02	570.107	3589.911
PM2.5	24-hr	0.12*	570.107	3589.911
	Annual	0.007	570.107	3589.911
SO2	3-hr	0.03*	571.674	3589.922
	24-hr	0.006*	570.107	3589.911
	Annual	0.0006	570.107	3589.911
NOX	Annual	0.03	570.107	3589.911
<b>2003 Meteorology</b>				
PM10	24-hr	0.60*	560.595	3608.324
	Annual	0.01	570.107	3589.911
PM2.5	24-hr	0.15*	560.595	3608.324
	Annual	0.005	570.107	3589.911
SO2	3-hr	0.03*	571.674	3589.922
	24-hr	0.007*	570.107	3589.911
	Annual	0.0005	570.107	3589.911
NOX	Annual	0.02	570.107	3589.911
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.6 Year 1 Annual Emissions Inventory - Impacts on Galiuro Wilderness</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.01	562.217	3599.096
PM2.5	Annual	0.004	562.217	3599.096
SO2	Annual	0.0003	570.107	3589.911
NOX	Annual	0.02	562.217	3599.096
<b>2002 Meteorology</b>				
PM10	Annual	0.02	570.107	3589.911
PM2.5	Annual	0.005	570.107	3589.911
SO2	Annual	0.0003	570.107	3589.911
NOX	Annual	0.03	570.107	3589.911
<b>2003 Meteorology</b>				
PM10	Annual	0.012	570.107	3589.911
PM2.5	Annual	0.003	570.107	3589.911
SO2	Annual	0.0002	570.107	3589.911
NOX	Annual	0.02	570.107	3589.911

<b>Table 1.7 Year 5 Hourly Emissions Inventory - Impacts on Saguaro NM East</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	2.69*	536.518	3563.868
	Annual	0.24	531.82	3559.233
PM2.5	24-hr	0.46*	536.518	3563.868
	Annual	0.05	531.82	3559.233
SO2	3-hr	0.14*	535.755	3557.399
	24-hr	0.03*	541.279	3551.878
	Annual	0.003	542.065	3551.881
NOX	Annual	0.29	531.82	3559.233
<b>2002 Meteorology</b>				
PM10	24-hr	5.21*	531.82	3559.233
	Annual	0.27	531.82	3559.233
PM2.5	24-hr	0.80*	531.82	3559.233
	Annual	0.05	531.82	3559.233
SO2	3-hr	0.15*	535.745	3560.17
	24-hr	0.02*	531.82	3559.233
	Annual	0.003	542.065	3551.881
NOX	Annual	0.32	531.82	3559.233
<b>2003 Meteorology</b>				
PM10	24-hr	3.63*	534.165	3562.936
	Annual	0.22	531.032	3560.155
PM2.5	24-hr	0.62*	534.165	3562.936
	Annual	0.04	531.032	3560.155
SO2	3-hr	0.11*	533.392	3559.239
	24-hr	0.03*	541.279	3551.878
	Annual	0.002	542.065	3551.881
NOX	Annual	0.24	531.032	3560.155
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.8 Year 5 Annual Emissions Inventory - Impacts on Saguaro NM East</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.18	531.82	3559.233
PM2.5	Annual	0.03	531.82	3559.233
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.23	531.82	3559.233
<b>2002 Meteorology</b>				
PM10	Annual	0.21	531.82	3559.233
PM2.5	Annual	0.04	531.82	3559.233
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.27	531.82	3559.233
<b>2003 Meteorology</b>				
PM10	Annual	0.17	531.032	3560.155
PM2.5	Annual	0.03	531.032	3560.155
SO2	Annual	0.001	542.065	3551.881
NOX	Annual	0.2	531.032	3560.155

<b>Table 1.9 Year 5 Hourly Emissions Inventory - Impacts on Saguaro NM West</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	0.71*	486.266	3570.277
	Annual	0.1	486.266	3570.277
PM2.5	24-hr	0.15*	486.266	3570.277
	Annual	0.02	486.266	3570.277
SO2	3-hr	0.04*	487.050	3570.276
	24-hr	0.01*	483.125	3569.358
	Annual	0.001	486.266	3570.277
NOX	Annual	0.1	486.266	3570.277
<b>2002 Meteorology</b>				
PM10	24-hr	0.53*	485.481	3570.278
	Annual	0.05	486.266	3570.277
PM2.5	24-hr	0.12*	486.266	3570.277
	Annual	0.01	486.266	3570.277
SO2	3-hr	0.04*	480.770	3569.363
	24-hr	0.01*	485.478	3568.431
	Annual	0.001	486.266	3570.277
NOX	Annual	0.06	486.266	3570.277
<b>2003 Meteorology</b>				
PM10	24-hr	0.71*	486.266	3570.277
	Annual	0.1	486.266	3570.277
PM2.5	24-hr	0.14*	486.266	3570.277
	Annual	0.02	486.266	3570.277
SO2	3-hr	0.05*	485.481	3570.278
	24-hr	0.01*	486.266	3570.277
	Annual	0.001	486.266	3570.277
NOX	Annual	0.1	486.266	3570.277
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.10 Year 5 Annual Emissions Inventory - Impacts on Saguaro NM West</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.07	486.266	3570.277
PM2.5	Annual	0.01	486.266	3570.277
SO2	Annual	0.0004	486.266	3570.277
NOX	Annual	0.1	486.266	3570.277
<b>2002 Meteorology</b>				
PM10	Annual	0.04	486.266	3570.277
PM2.5	Annual	0.01	486.266	3570.277
SO2	Annual	0.0003	486.266	3570.277
NOX	Annual	0.05	486.266	3570.277
<b>2003 Meteorology</b>				
PM10	Annual	0.07	486.266	3570.277
PM2.5	Annual	0.01	486.266	3570.277
SO2	Annual	0.0005	486.266	3570.277
NOX	Annual	0.08	486.266	3570.277

<b>Table 1.11 Year 5 Hourly Emissions Inventory - Impacts on Galiuro Wilderness</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	24-hr	0.56*	566.85	3608.375
	Annual	0.02	562.217	3599.096
PM2.5	24-hr	0.11*	565.287	3608.354
	Annual	0.006	560.64	3600.934
SO2	3-hr	0.03*	570.094	3591.758
	24-hr	0.007*	565.383	3593.574
	Annual	0.0005	570.107	3589.911
NOX	Annual	0.02	568.528	3591.747
<b>2002 Meteorology</b>				
PM10	24-hr	1.00*	570.107	3589.911
	Annual	0.03	570.107	3589.911
PM2.5	24-hr	0.19*	570.107	3589.911
	Annual	0.008	570.107	3589.911
SO2	3-hr	0.03*	571.674	3589.922
	24-hr	0.006*	570.107	3589.911
	Annual	0.0006	570.107	3589.911
NOX	Annual	0.03	570.107	3589.911
<b>2003 Meteorology</b>				
PM10	24-hr	1.14*	559.042	3606.468
	Annual	0.02	559.064	3602.772
PM2.5	24-hr	0.22*	560.595	3608.324
	Annual	0.006	559.064	3602.772
SO2	3-hr	0.03*	571.674	3589.922
	24-hr	0.007*	570.107	3589.911
	Annual	0.0005	570.107	3589.911
NOX	Annual	0.02	570.107	3589.911
*Represents the high 2 <sup>nd</sup> high concentration				

<b>Table 1.12 Year 5 Annual Emissions Inventory - Impacts on Galiuro Wilderness</b>				
<b>2001 Meteorology</b>				
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Modeled Impact (µg/m<sup>3</sup>)</b>	<b>UTM Northing (Km)</b>	<b>UTM Easting (Km)</b>
PM10	Annual	0.02	562.217	3599.096
PM2.5	Annual	0.005	560.64	3600.934
SO2	Annual	0.0002	570.107	3589.911
NOX	Annual	0.02	562.217	3599.096
<b>2002 Meteorology</b>				
PM10	Annual	0.02	570.107	3589.911
PM2.5	Annual	0.006	570.107	3589.911
SO2	Annual	0.0002	570.107	3589.911
NOX	Annual	0.03	570.107	3589.911
<b>2003 Meteorology</b>				
PM10	Annual	0.02	559.064	3602.772
PM2.5	Annual	0.004	559.064	3602.772
SO2	Annual	0.0002	570.107	3589.911
NOX	Annual	0.02	559.064	3602.772



<b>Table 1.13 Year 1 Hourly Emissions – Visibility Impacts</b>						
<b>Class I Area</b>	<b>Saguaro NM East</b>		<b>Saguaro NM West</b>		<b>Galiuro Wilderness</b>	
<b>Natural Conditions</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>
<b>2001 Meteorology</b>						
Number of days with Delta Deciview => 0.5	44	63	6	10	1	3
Number of days with Delta Deciview => 1	18	25	0	2	1	1
Largest Delta Deciview =	2.357	2.823	0.96	1.116	1.386	1.739
Number of days with Extinction Change => 5%	45	65	6	10	2	4
Number of days with Extinction Change => 10%	19	27	1	3	1	1
Largest Extinction Change =	26.58%	32.62%	10.08%	12.36%	14.87%	19.00%
<b>2002 Meteorology</b>						
Number of days with Delta Deciview => 0.5	42	64	5	5	2	2
Number of days with Delta Deciview => 1	15	19	0	0	0	0
Largest Delta Deciview =	4.345	5.127	0.792	0.966	0.684	0.866
Number of days with Extinction Change => 5%	43	66	5	5	2	2
Number of days with Extinction Change => 10%	16	21	0	1	0	0
Largest Extinction Change =	54.42%	66.98%	8.24%	10.14%	7.08%	9.05%
<b>2003 Meteorology</b>						
Number of days with Delta Deciview => 0.5	44	51	17	24	4	5
Number of days with Delta Deciview => 1	14	18	1	3	2	3
Largest Delta Deciview =	2.644	3.157	1.412	1.706	1.196	1.5
Number of days with Extinction Change => 5%	44	54	19	25	5	5
Number of days with Extinction Change => 10%	16	21	2	3	2	3
Largest Extinction Change =	30.27%	37.13%	15.17%	18.60%	12.70%	16.19%

<b>Table 1.14 Year 1 Annual Emissions – Visibility Impacts</b>						
<b>Class I Area</b>	<b>Saguaro NM East</b>		<b>Saguaro NM West</b>		<b>Galiuro Wilderness</b>	
<b>Natural Conditions</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>
<b>2001 Meteorology</b>						
Number of days with Delta Deciview => 0.5	37	46	4	7	2	3
Number of days with Delta Deciview => 1	12	19	0	0	1	1
Largest Delta Deciview =	2.243	2.689	0.818	0.995	1.344	1.687
Number of days with Extinction Change => 5%	38	50	4	7	2	3
Number of days with Extinction Change => 10%	14	20	0	1	1	1
Largest Extinction Change =	25.15%	30.85%	8.52%	10.46%	14.38%	18.38%
<b>2002 Meteorology</b>						
Number of days with Delta Deciview => 0.5	30	44	3	5	2	2
Number of days with Delta Deciview => 1	10	17	0	0	0	0
Largest Delta Deciview =	4.646	5.468	0.722	0.881	0.598	0.758
Number of days with Extinction Change => 5%	32	47	2	5	2	2
Number of days with Extinction Change => 10%	13	18	0	0	0	0
Largest Extinction Change =	59.13%	72.77%	7.49%	9.21%	6.16%	7.87%
<b>2003 Meteorology</b>						
Number of days with Delta Deciview => 0.5	36	45	15	19	4	5
Number of days with Delta Deciview => 1	14	16	1	1	2	3
Largest Delta Deciview =	2.552	3.042	1.216	1.472	1.255	1.573
Number of days with Extinction Change => 5%	36	45	15	21	4	5
Number of days with Extinction Change => 10%	15	17	1	2	2	3
Largest Extinction Change =	29.08%	35.56%	12.93%	15.85%	13.37%	17.03%

<b>Table 1.15 Year 5 Hourly Emissions – Visibility Impacts</b>						
<b>Class I Area</b>	<b>Saguaro NM East</b>		<b>Saguaro NM West</b>		<b>Galiuro Wilderness</b>	
<b>Natural Conditions</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>
<b>2001 Meteorology</b>						
Number of days with Delta Deciview => 0.5	61	75	7	12	3	6
Number of days with Delta Deciview => 1	25	31	0	3	1	1
Largest Delta Deciview =	2.963	3.529	0.995	1.207	1.97	2.456
Number of days with Extinction Change => 5%	62	76	8	14	3	6
Number of days with Extinction Change => 10%	28	32	1	4	1	2
Largest Extinction Change =	34.49%	42.32%	10.46%	12.83%	21.78%	27.83%
<b>2002 Meteorology</b>						
Number of days with Delta Deciview => 0.5	66	87	5	6	2	2
Number of days with Delta Deciview => 1	21	27	0	0	1	2
Largest Delta Deciview =	6.274	7.296	0.811	0.988	1.24	1.558
Number of days with Extinction Change => 5%	68	88	5	8	2	2
Number of days with Extinction Change => 10%	23	29	0	1	1	2
Largest Extinction Change =	87.27%	107.43%	8.44%	10.39%	13.20%	16.86%
<b>2003 Meteorology</b>						
Number of days with Delta Deciview => 0.5	57	70	22	25	6	6
Number of days with Delta Deciview => 1	23	29	1	3	3	4
Largest Delta Deciview =	4.216	4.971	1.448	1.749	1.789	2.21
Number of days with Extinction Change => 5%	58	70	22	28	6	6
Number of days with Extinction Change => 10%	24	30	2	5	4	4
Largest Extinction Change =	52.44%	64.39%	15.58%	19.11%	19.60%	24.73%

<b>Table 1.16 Year 5 Annual Emissions – Visibility Impacts</b>						
<b>Class I Area</b>	<b>Saguaro NM East</b>		<b>Saguaro NM West</b>		<b>Galiuro Wilderness</b>	
<b>Natural Conditions</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>	<b>Annual Average</b>	<b>Best 20%</b>
<b>2001 Meteorology</b>						
Number of days with Delta Deciview => 0.5	45	55	4	6	3	5
Number of days with Delta Deciview => 1	17	25	0	0	1	1
Largest Delta Deciview =	2.532	3.027	0.774	0.941	1.698	2.123
Number of days with Extinction Change => 5%	45	57	4	7	3	5
Number of days with Extinction Change => 10%	19	26	0	0	1	1
Largest Extinction Change =	28.81%	35.35%	8.04%	9.87%	18.50%	23.65%
<b>2002 Meteorology</b>						
Number of days with Delta Deciview => 0.5	38	58	2	5	2	2
Number of days with Delta Deciview => 1	15	20	0	0	0	1
Largest Delta Deciview =	5.728	6.687	0.663	0.809	0.995	1.255
Number of days with Extinction Change => 5%	41	62	3	5	2	2
Number of days with Extinction Change => 10%	17	22	0	0	1	2
Largest Extinction Change =	77.33%	95.17%	6.85%	8.43%	10.46%	13.37%
<b>2003 Meteorology</b>						
Number of days with Delta Deciview => 0.5	48	54	13	19	4	5
Number of days with Delta Deciview => 1	19	22	1	1	3	4
Largest Delta Deciview =	3.549	4.207	1.139	1.379	1.543	1.91
Number of days with Extinction Change => 5%	50	56	13	20	4	5
Number of days with Extinction Change => 10%	20	23	1	1	3	4
Largest Extinction Change =	42.61%	52.31%	12.06%	14.79%	16.68%	21.05%