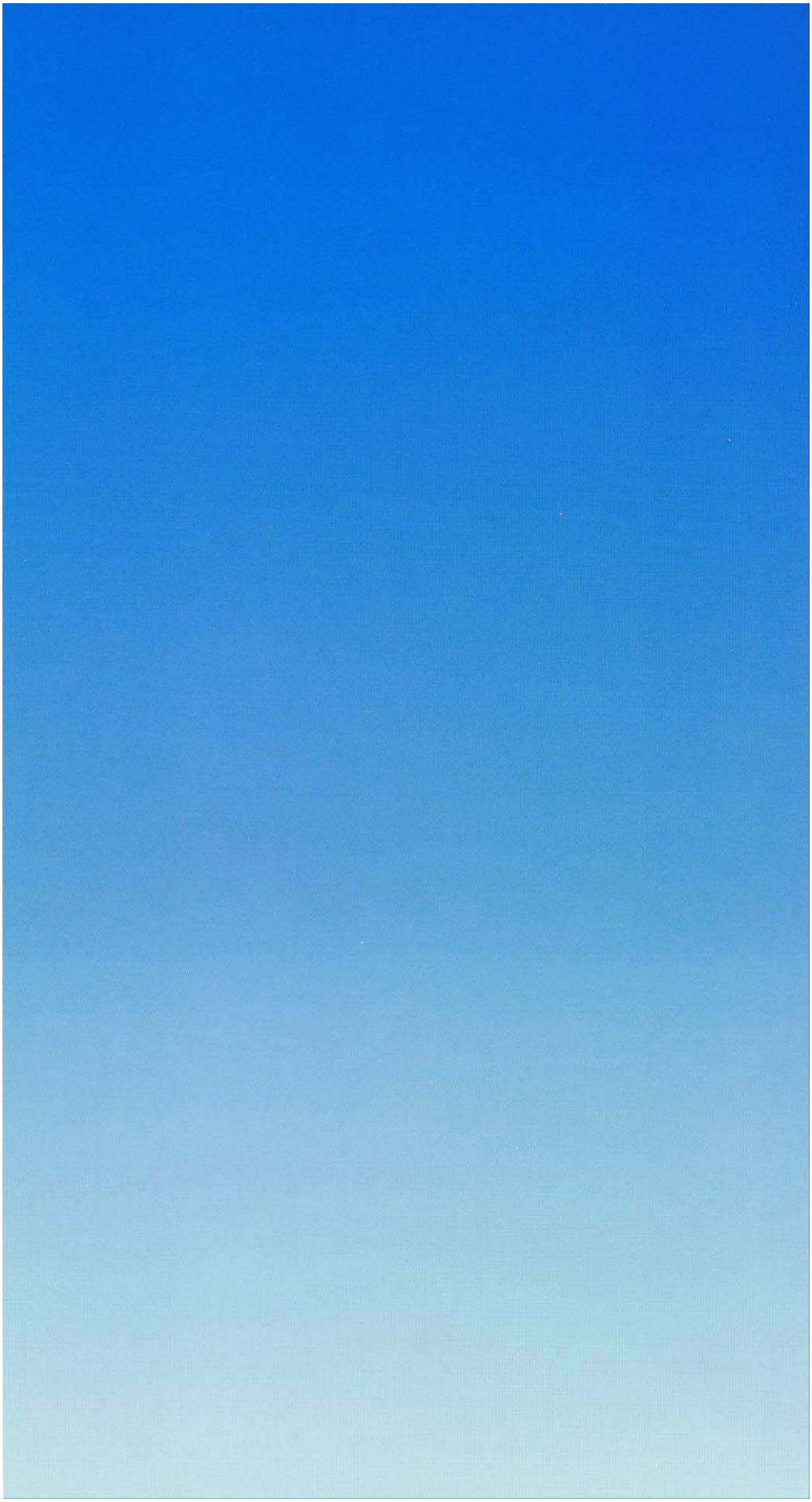

AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

April 1 – June 30, 2013

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

262-1
OCTOBER 2013

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1.0 INTRODUCTION

This report summarizes the meteorological, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ozone (O_3), and particulate matter (PM) data collected at the Resolution Copper Project near Superior, Arizona for the second quarter, April 1 – June 30, 2013. Monitoring was performed in accordance with the *Resolution Copper Mining Monitoring Plan, November 2011* (approved by the Pinal County Air Quality Control District [PCAQCD] on November 15, 2011).

Resolution Copper Mining LLC (RCML) has implemented a meteorological and air quality monitoring program to support several efforts during the pre-feasibility and other mine development phases: environmental assessments, impact analyses, and documents required by the National Environmental Policy Act (NEPA); meteorological and air quality data to be processed and used as input for AERMOD (American Meteorological Society/Environmental Protection Agency Regulatory Model) dispersion modeling; and air quality baseline data and AERMOD analyses to be used to support RCML's application to the PCAQCD for air permit(s).

1.1 Location

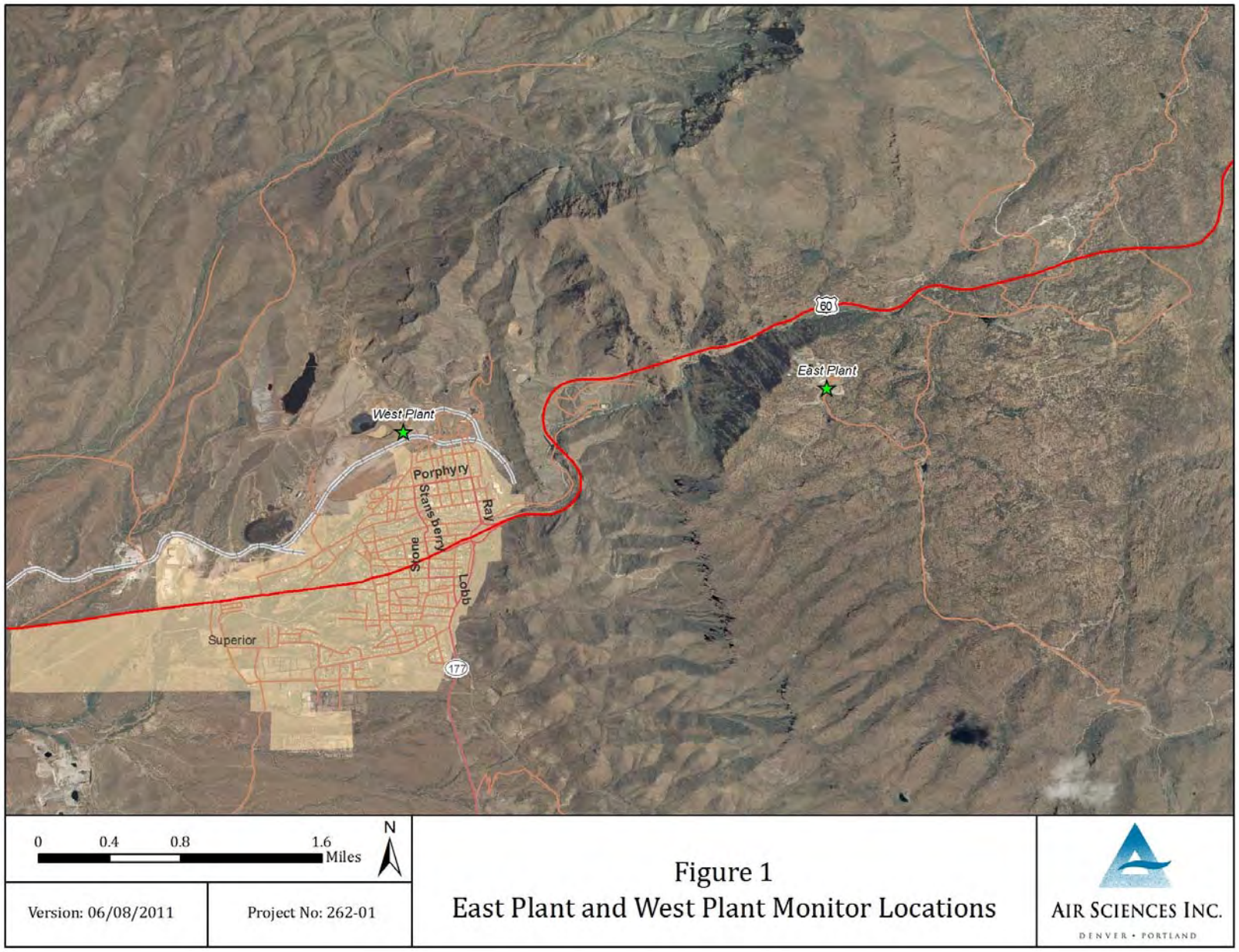
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The topography ranges from hilly to mountainous.

The monitoring station locations are shown in Figure 1 and listed by coordinates in Table 1.

Table 1. Monitoring Station Locations

Station	Location	Latitude (Deg)	Longitude (Deg)	Elevation (ft)	Method of Determination
West Plant	01S12E35NWSE	33.2994	-111.1021	2,949	GPS
East Plant	01S13E32SWNW	33.3030	-111.0676	4,199	GPS

Figure 1. Resolution Monitoring Stations Locations



1.2 Monitoring Program Description

1.2.1 Meteorological Data

Meteorological sensors and air quality instrumentation at the East Plant and West Plant stations are mounted on 10-meter, open-lattice towers or housed in climate-controlled insulated shelters, and are listed by height, from ground level, in Table 2.

Table 2. Sensors and Heights

		Height (m)	West Plant	East Plant
AERMOD Meteorological Data	Horizontal wind speed (meters per second [m/s])	10	✓	✓
	Horizontal wind direction (degrees [°])	10	✓	✓
	Horizontal wind direction standard deviation (sigma theta)	10	✓	✓
	Air temperature (degrees Celsius [°C])	2	✓	✓
	Vertical temperature difference (ΔT, Delta T, [°C])	2,10	✓	✓
	Relative humidity (percent [%])	2	✓	✓
	Solar radiation (watts per square meter [W/m^2])	2	✓	✓
	Barometric pressure (millimeters of mercury [mmHg])	1	✓	✓
	Precipitation (inches [in])	Ground	✓	✓
Ambient Air Data	FEM* Particulate matter less than 10 microns (PM_{10})	2,3	✓	✓
	FEM* Particulate matter less than 2.5 microns ($PM_{2.5}$)	2,3	✓	✓
	Sulfur dioxide (SO_2)	3		✓
	Ozone (O_3)	3		✓
	Nitrogen dioxide (NO_2)	3		✓

*Federal Equivalent Method

The meteorological data are recorded by digital data acquisition systems equipped with broadband modems for data transfer. The meteorological parameters are sampled on-site at two-second intervals and are digitally processed into 15-minute averages. The 15-minute averages are transmitted to Air Sciences Inc. (Air Sciences) for quality assurance checks and are used as input for the calculation of one-hour averages.

Atmospheric stability is calculated using the Solar Radiation/Delta-T (SRDT) method (EPA-454/R-99-005, Table 6-7). Wind speed and solar radiation measurements are used for calculation of daytime atmospheric stability, and wind speed and delta temperature measurements are used for calculation of nighttime atmospheric stability.

Stability classes A, B, and C indicate the frequency of daytime low-speed winds, which are categorized as unstable or high-dispersion-potential winds with class A being the least stable. Stability classes E and F indicate the frequency of nighttime low-speed winds, which are categorized as stable or low-dispersion-potential winds with class E being the least stable. The D stability class is a mixture of daytime and nighttime winds, generally at higher speeds. This class is also referred to as neutral stability.

The frequency distribution of instantaneous winds by speed during each month of the quarter is collected at the monitoring stations. These winds can have a pronounced effect on the natural generation of airborne dust. The wind speed data are collected every two seconds and then binned based on wind speed classes to build a frequency distribution. The wind speed classes are:

- Wind speeds less than 5 meters per second (m/s) (11.2 miles per hour [mph])
- Wind speeds from 5 to 19 m/s, categorized in increments of 2 m/s
- Wind speeds greater than 19 m/s (42.5 mph)

The wind frequency distributions are compiled every eight hours and then converted to daily percentages. Appendix A contains the frequency distributions of winds by speed, direction, and stability. Appendix B includes monthly wind speed frequencies and instantaneous daily maximum wind speeds. Appendix C lists hourly meteorological data from April 1 through June 30, 2013.

Meteorological parameters are collected in support of air quality data. All meteorological sensors are audited and data undergo quality control procedures according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.2 NO_2 Data

NO_2 is measured at the East Plant using the Teledyne T200 Chemiluminescence NO_2 Analyzer, which holds an Environmental Protection Agency (EPA) equivalency designation as a Reference Method (RFNA-1194-099). This instrument is designed to measure oxides of nitrogen (NO_X) (with nitrogen dioxide, NO_2, as an indicator) at trace levels in ambient air. The instrument is operated continuously to collect hourly NO, NO_2, and NO_X concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly NO_2 data for the East Plant from April 1 through June 30, 2013.

Zero/span checks are run every morning, typically beginning at 1 a.m., and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party audits, adjustments, and general maintenance on the NO_2 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.3 SO_2 Data

SO_2 is measured at the East Plant using the Teledyne T100 UV Fluorescence SO_2 Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQSA-0495-100). The instrument is operated continuously to collect hourly SO_2 concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly SO_2 data for the East Plant from April 1 through June 30, 2013.

Zero/span checks are run every night, typically beginning at midnight, and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party

audits, adjustments, and general maintenance on the SO_2 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.4 O_3 Data

O_3 is measured at the East Plant using the Teledyne T400 UV Absorption O_3 Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQOA-0992-087). The instrument is operated continuously to collect hourly O_3 concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly and rolling 8-hour average O_3 data for the East Plant from April 1 through June 30, 2013.

Zero/span checks are run every morning, typically beginning at 2 a.m., and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party audits, adjustments, and general maintenance on the O_3 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.5 PM Data

PM_{10} and $PM_{2.5}$ are measured at both the East Plant and West Plant using Met One Instruments' Beta Attenuation Monitors (BAM). At each site, one BAM is configured as a $PM_{2.5}$ Federal Equivalent Method (FEM), which holds the EPA designation (EQPM-0308-170), and the other BAM is configured as a $PM_{2.5}$ FEM, but is set to monitor PM_{10}. The instruments are operated continuously to collect hourly $PM_{2.5}$ and PM_{10} concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix D lists hourly $PM_{2.5}$ and PM_{10} data from April 1 through June 30, 2013.

Comparability requirements for $PM_{10-2.5}$ are assured through the EPA designation EPA EQPM-0308-170. The accuracy of the monitor is assessed through monthly audits of the flow rate by using a certified flow transfer standard.

Second-party audits, adjustments, and general maintenance on the PM monitors are performed according to the guidelines outlined in the Quality Assurance Project Plan.

2.0 DATA RECOVERY RATES

Data recovery rates for all parameters are presented in Table 3. Meteorological data recoveries are calculated by dividing the amount of valid hourly averages by the available hourly periods in the quarter. Air quality and particulate data recoveries are calculated by dividing the amount of valid 24-hour averages (for PM_{10}, $PM_{2.5}$), valid 24-hour maximum value (for SO_2, NO_2), or valid daily rolling 8-hour maximum (O_3) values by the number of days in the quarter. Particulate and air quality 24-hour averages or maximums are valid if greater than 75 percent of the hourly readings are valid for that day (at least 18 out of 24 hours).

Table 3. Data Recovery Rates, East Plant and West Plant
April 1 – June 30, 2013
(percent)

	East Plant		West Plant		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological					
Wind speed (10 m)	2,184	100	2,184	100	90
Wind direction (10 m)	2,184	100	2,184	100	90
Temperature (2 m)	2,184	100	2,184	100	90
Delta temperature	2,184	100	2,184	100	90
Relative humidity	2,184	100	2,184	100	90
Barometric pressure	2,184	100	2,184	100	90
Precipitation	2,184	100	2,184	100	90
Solar radiation	2,184	100	2,184	100	90
NO_2	80	87.9	--	--	75
O_3	83	91.2	--	--	75
SO_2	84	92.3	--	--	75
PM_{10}	90	98.9	81	89.0	75
$PM_{2.5}$	84	92.3	85	93.4	75

*Meteorological parameters are observed hourly (2,184 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (91 days in this period).

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

There were no meteorological data invalidations for the east plant this quarter.

2.1.1.2 West Plant

There were no meteorological data invalidations for the west plant this quarter.

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated for April 23, 2013, due to an audit performed by Air Sciences, and on April 29, 2013, due to a calibration performed by Air Sciences. Data were also invalidated on May 31 through June 3, 2013, and again on June 14 through 18, 2013, due to instrument malfunction and maintenance, resulting in invalid NO_2 24-hour maximum data for those days.

Additional invalid hourly NO_2 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.3 SO_2 Data Loss

SO_2 24-hour maximum data were invalidated for April 23, 2013, due to an audit performed by Air Sciences, and on April 29, 2013, due to a calibration performed by Air Sciences. Data were also invalidated on June 14 through 18, 2013, due to instrument malfunction and maintenance, resulting in invalid SO_2 24-hour maximum data for those days.

Additional invalid hourly SO_2 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.4 O_3 Data Loss

O_3 rolling 8-hour maximum data were invalidated for April 23, 2013, due to an audit performed by Air Sciences, and on April 29, 2013, due to a calibration performed by Air Sciences. The ozone data was also invalidated on May 2, 2013, due to a span error. Data were also invalidated on June 14 through 18, 2013, due to instrument malfunction and maintenance, resulting in invalid SO_2 24-hour maximum data for those days.

Additional invalid hourly O_3 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.5 PM Data Loss

2.1.5.1 East Plant

Three hours of PM_{10} data were invalidated on April 23, 2013, due to an audit performed by Air Sciences. On June 5 and 6, 2013, several hours of PM_{10} data are missing and were not able to be recovered.

Data from April 19 through 23, 2013 were invalidated due to an audit performed by Air Sciences, followed by the annual zero-air test performed on the $PM_{2.5}$ analyzer. On June 5 and 6, 2013, several hours of $PM_{2.5}$ data are missing and were not able to be recovered.

Additional invalid hourly PM data at the East Plant were due to monthly flow verifications and regularly scheduled maintenance.

2.1.5.2 West Plant

PM_{10} 24-hour average values are missing for April 13, 2013 due to a scheduled power outage. PM_{10} 24-hour average values were invalidated for the West Plant station on May 24-31, 2013, due to a firmware error which caused repeated erroneous values. Additionally, PM_{10} data on June 18, 2013 are invalidated due to a tape break.

$PM_{2.5}$ 24-hour average values are missing for April 13, 2013 due to a scheduled power outage. $PM_{2.5}$ data were invalidated for the West Plant station on April 19 -23, 2013, due to an audit performed by Air Sciences, followed by the annual zero-air test performed on the $PM_{2.5}$ analyzer.

Additional invalid hourly PM data at the West Plant were due to monthly flow verifications and regularly scheduled maintenance.

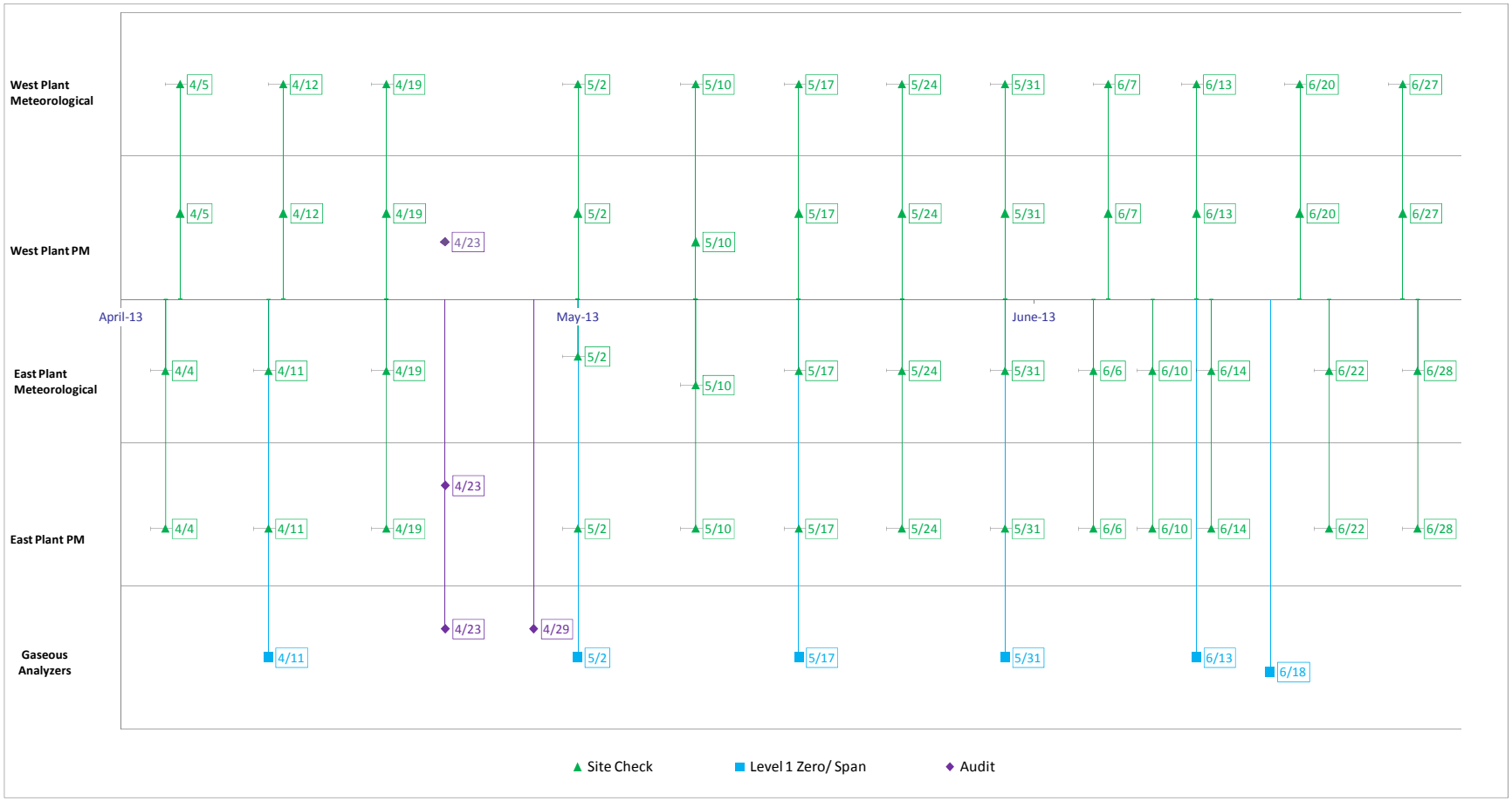
2.2 Quality Control

Quality assurance, equipment calibration, and audit procedures are conducted in accordance with the following documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II:#Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements (EPA-454/B-08-002, March 2008)
- Transfer Standards for the Calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-10-001, November 2010)
- Code of Federal Regulations (40 CFR Parts 50 and 58)
- Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD) (EPA-450/4-87-007, May 1987)
- Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA-454/R-99-005, February 2000)

Audits and/or calibrations of meteorological instrumentation are required every six months. Audits and/or calibrations of the ambient air quality monitors and analyzers are required every three months. At the East and West Plant, Air Sciences performed an audit of the particulate and air quality analyzers on April 23, 2013, and a remote calibration of the East Plant gas analyzers April 29, 2013. Site checks on the meteorological sensors, particulate instruments, and gas analyzers continue to be conducted on a weekly basis. Copies of the audit/calibration report, flow verifications, and site check forms can be found in Appendices F-K.

Figure 2. Dates of Site Checks, Audits, and Calibrations
April 1- June 30, 2013



3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological data from the second quarter have been compiled and summarized in graphical and tabular form. A schematic of meteorology summary sheets is shown in Figure 3. Meteorological summary sheets (Figure 4 and Figure 5) are comprised of the following:

Wind Rose – Graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/ s.

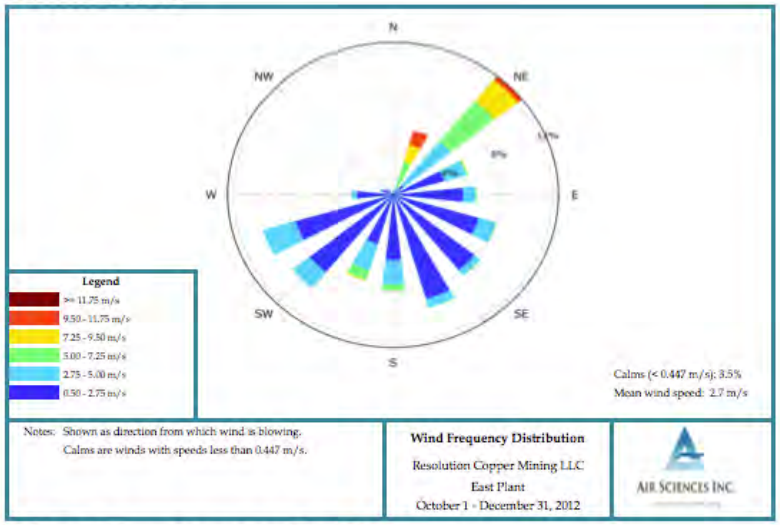
Wind Frequency Table – A two-part table. The left part of the Wind Frequency Table shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Wind Speed Class Intervals. The right part shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Stability Classes.

Meteorology Charts – Graphically summarize recorded hourly meteorological parameters by month. Chart types include stock-ticker charts (with high, low, and average hourly values for each month) and bar charts.

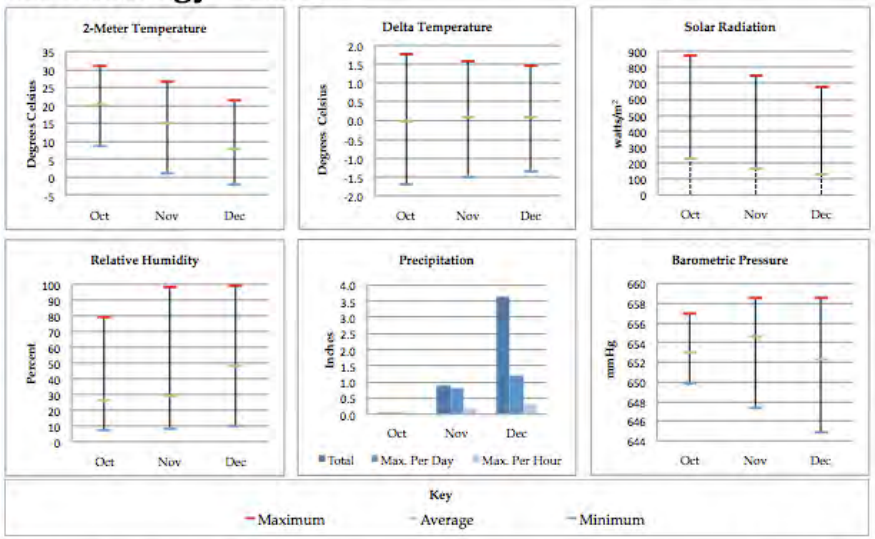
Instantaneous Wind Frequency and Maximum Chart – Graphically summarizes instantaneous (two-second) wind speeds as a percentage of occurrences for each of the nine wind speed intervals and the magnitude, date, and time of the maximum instantaneous wind speed for each month.

Figure 3. Example Schematic of Meteorological Data Sheets

Wind Rose



Meteorology Charts



Wind Frequency Tables

	Speed Class Intervals (m/s) (percent of occurrence)							Mean	Stability Class						
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed	A	B	C	D	E	F	All
N	0.2	0.2	0.0	0.0	0.0	0.0	0.5	1.9	0.0	0.1	0.1	0.1	0.0	0.2	0.5
NNE	0.0	0.2	0.5	1.8	2.1	0.9	5.5	7.4	0.0	0.2	0.6	4.7	0.0	0.1	5.6
NE	0.3	1.3	3.9	3.7	3.0	0.2	12.5	5.4	0.0	0.2	1.2	10.5	0.4	0.2	12.5
ENE	0.8	3.6	1.3	0.1	0.0	0.0	5.9	2.5	0.0	0.2	0.8	2.2	1.7	1.2	6.1
E	1.9	3.5	0.7	0.1	0.0	0.0	6.3	2.0	0.0	0.4	1.0	1.9	1.1	2.0	6.4
ESE	3.6	3.5	1.0	0.0	0.0	0.0	8.1	1.8	0.0	0.5	1.7	1.8	1.3	3.5	8.8
SE	6.0	2.0	0.4	0.0	0.0	0.0	8.4	1.3	0.0	0.5	0.4	0.8	1.0	6.6	9.3
SSE	7.3	1.7	0.5	0.0	0.0	0.0	9.6	1.2	0.0	0.3	0.5	1.0	0.5	8.0	10.2
S	3.6	1.9	1.7	0.5	0.0	0.0	7.8	2.2	0.1	0.4	1.5	2.0	0.4	3.8	8.3
SSW	1.4	3.4	1.7	0.8	0.1	0.0	7.3	2.8	0.0	1.0	1.5	3.1	0.7	1.0	7.3
SW	1.9	7.0	0.9	0.0	0.0	0.0	9.7	2.1	0.0	2.0	3.9	1.6	0.8	1.5	9.8
WSW	2.3	6.3	1.6	0.0	0.0	0.0	10.2	2.2	0.0	1.4	2.4	3.0	1.3	2.2	10.2
W	0.8	2.0	0.3	0.0	0.0	0.0	3.1	2.0	0.0	0.2	0.5	0.7	0.7	0.9	3.1
WNW	0.5	0.4	0.1	0.0	0.0	0.0	1.0	1.8	0.0	0.1	0.0	0.2	0.1	0.6	1.0
NW	0.2	0.5	0.0	0.0	0.0	0.0	0.7	1.7	0.0	0.1	0.0	0.0	0.2	0.2	0.7
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1
All	31.0	37.5	14.5	7.2	5.3	1.0	96.5	2.7	0.2	7.7	16.1	33.6	10.2	32.2	100.0

Instantaneous Wind Frequency & Maximum Chart

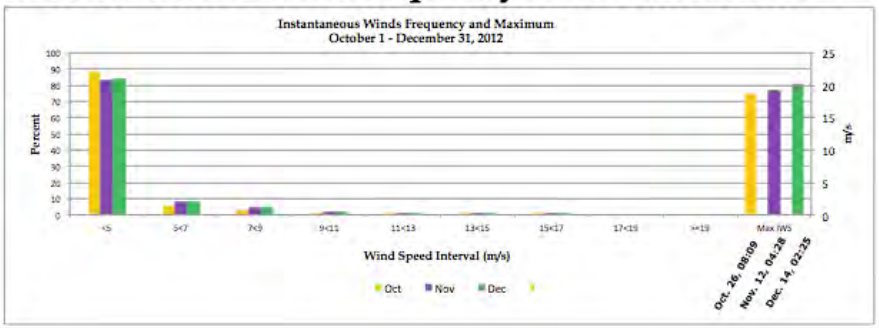
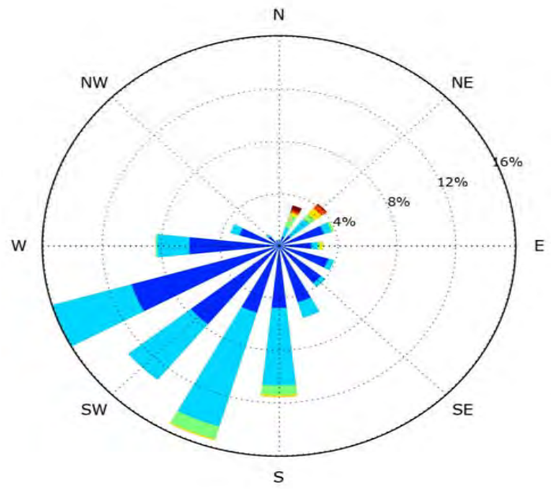


Figure 4: East Plant Meteorological Data Summary

Meteorological Data: April 1 - June 30, 2013



Legend

- >= 11.75 m/s
- 9.50 - 11.75 m/s
- 7.25 - 9.50 m/s
- 5.00 - 7.25 m/s
- 2.75 - 5.00 m/s
- 0.50 - 2.75 m/s

Calms (< 0.447 m/s): 2.0%
Mean wind speed: 2.7 m/s

Notes: Shown as direction from which wind is blowing.
Calms are winds with speeds less than 0.447 m/s.

Wind Frequency Distribution

Resolution Copper Mining LLC
East Plant
April 1 - June 30, 2013

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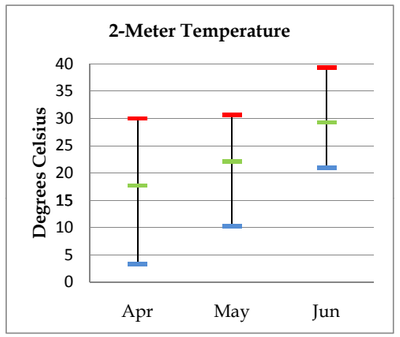
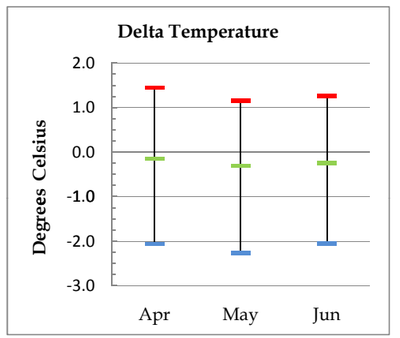
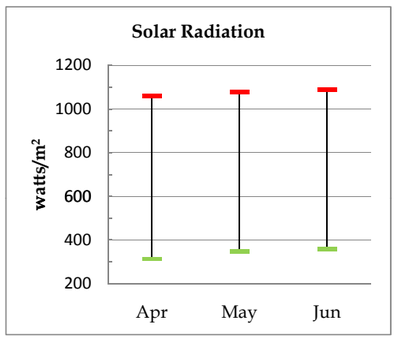
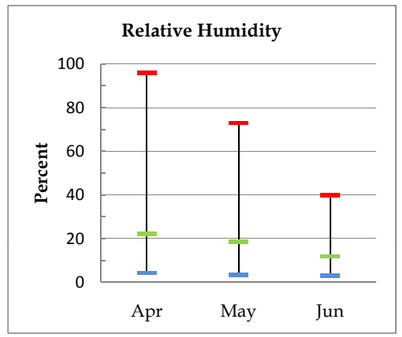
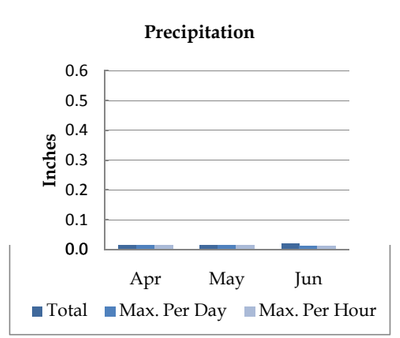
Hourly Statistics

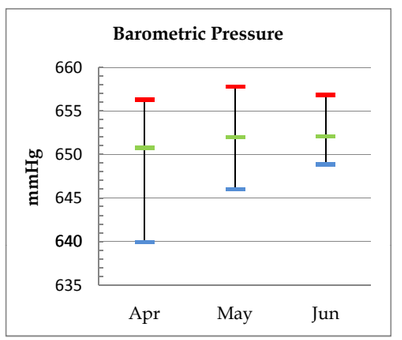












Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.2	0.2	0.1	0.0	0.0	0.0	0.5	2.0
NNE	0.3	0.6	0.5	0.9	0.5	0.4	3.3	5.9
NE	0.5	0.8	1.3	0.4	0.9	0.2	4.2	4.9
ENE	1.6	1.7	0.4	0.2	0.0	0.0	3.9	2.0
E	1.2	1.1	0.2	0.2	0.2	0.0	3.0	2.4
ESE	1.9	1.6	0.4	0.0	0.0	0.0	3.9	1.7
SE	2.6	1.2	0.2	0.0	0.0	0.0	4.0	1.4
SSE	3.3	1.5	0.9	0.0	0.0	0.0	5.7	1.7
S	2.8	2.9	4.9	0.7	0.2	0.0	11.5	2.9
SSW	1.4	5.1	7.8	1.0	0.1	0.0	15.5	3.2
SW	1.8	7.6	3.8	0.0	0.0	0.0	13.1	2.5
WSW	2.7	9.9	3.4	0.0	0.0	0.0	16.1	2.4
W	1.7	5.1	1.5	0.1	0.0	0.0	8.4	2.3
WNW	1.0	2.0	0.4	0.0	0.0	0.0	3.4	2.0
NW	0.2	0.7	0.2	0.0	0.0	0.0	1.1	1.9
NNW	0.2	0.2	0.0	0.0	0.0	0.0	0.5	1.4
All	23.7	42.3	26.1	3.4	1.8	0.6	98.0	2.7

D	Stability Class A	B	C	D	E	F	All
N	0.0	0.0	0.1	0.1	0.0	0.2	0.5
N	0.2	0.4	0.5	1.8	0.2	0.2	3.3
N	0.0	0.6	1.0	2.2	0.0	0.4	4.3
E	0.1	0.3	0.4	1.1	1.0	1.1	3.9
E	0.0	0.1	0.5	1.1	0.6	1.0	3.3
E	0.1	0.5	0.4	0.7	0.7	1.8	4.3
S	0.1	0.3	0.2	0.5	1.1	2.2	4.3
S	0.0	0.5	0.6	1.1	0.5	3.3	6.1
S	0.5	2.8	2.5	2.6	0.8	2.5	11.6
S	0.6	3.8	2.8	4.9	1.5	1.9	15.5
S	1.9	4.3	2.8	1.1	1.2	2.0	13.2
W	2.2	3.5	2.6	3.0	1.7	3.0	16.1
W	0.7	0.8	0.5	2.5	1.7	2.2	8.5
W	0.2	0.2	0.4	0.8	0.7	1.2	3.5
N	0.1	0.0	0.2	0.2	0.3	0.3	1.1
N	0.0	0.0	0.0	0.1	0.0	0.3	0.5
A	6.8	18.2	15.6	23.7	12.0	23.6	100.0

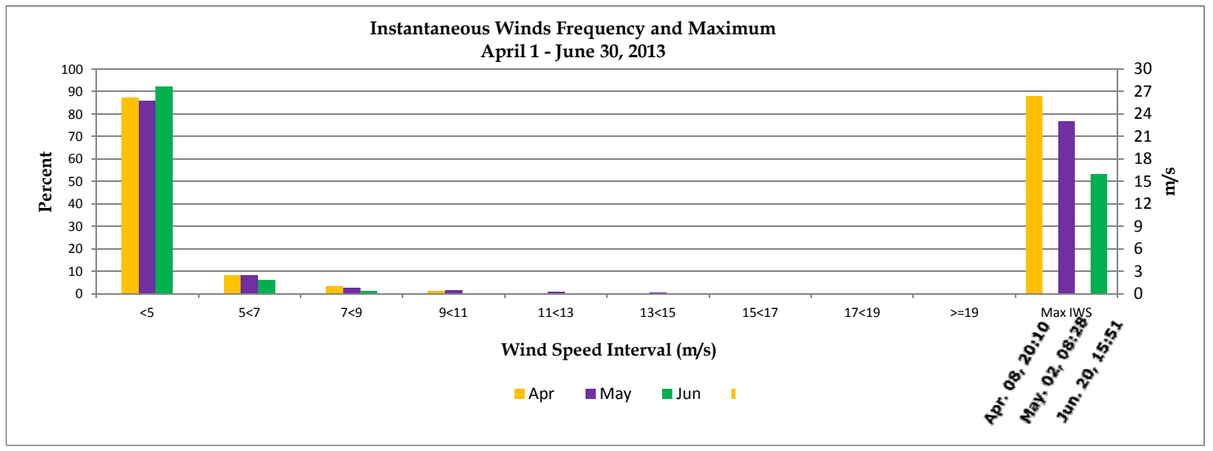
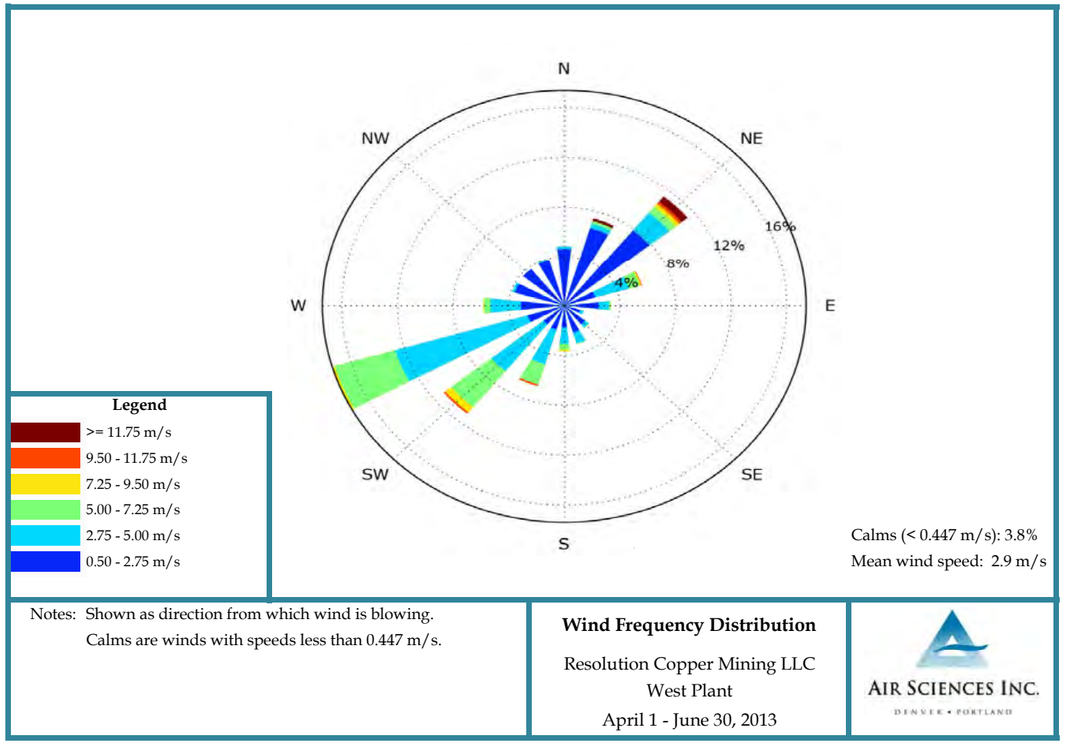
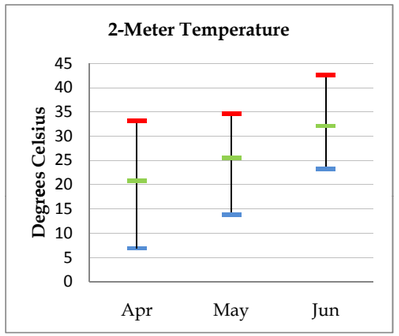


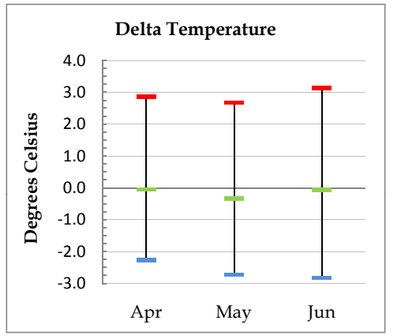
Figure 5: West Plant Meteorological Data Summary

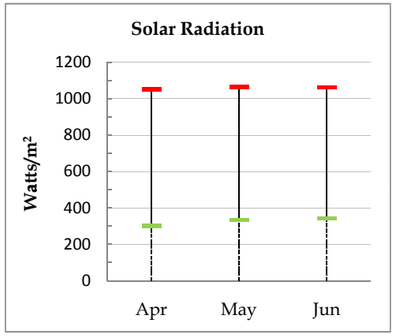
Meteorological Data: April 1 - June 30, 2013

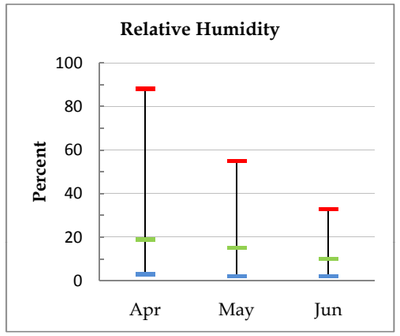


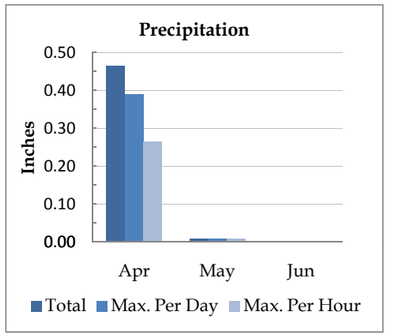
Hourly Statistics

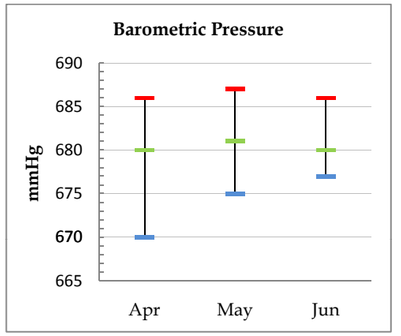






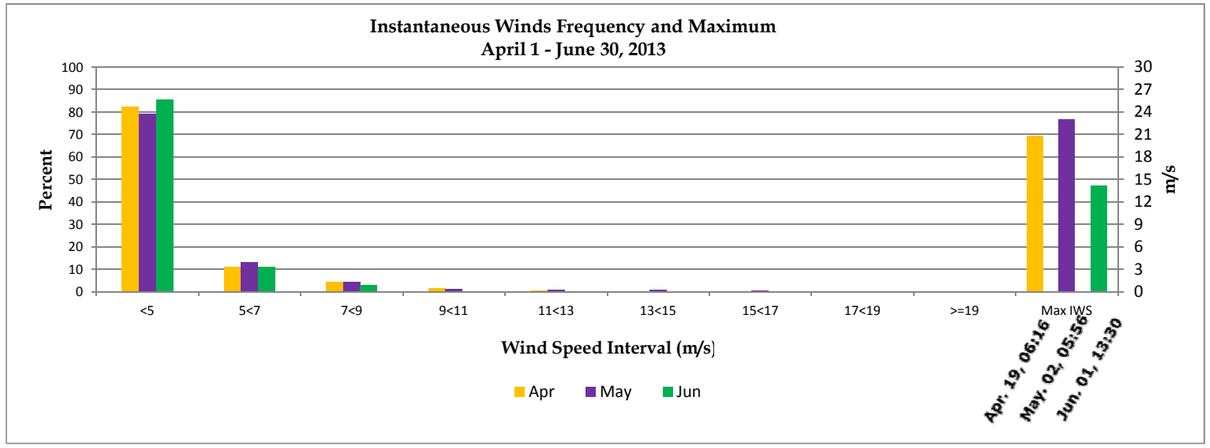






Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	3.7	1.0	0.1	0.0	0.0	0.0	4.9	1.2
NNE	4.8	1.9	0.3	0.2	0.0	0.2	7.4	1.8
NE	5.0	3.2	1.5	0.5	0.5	0.7	11.4	3.0
ENE	1.3	1.4	2.2	0.8	0.1	0.0	5.8	3.3
E	1.7	0.9	0.5	0.1	0.0	0.0	3.3	2.0
ESE	0.5	0.7	0.2	0.0	0.0	0.0	1.5	1.9
SE	1.0	1.0	0.3	0.0	0.0	0.0	2.3	1.9
SSE	1.0	1.4	0.8	0.0	0.0	0.0	3.2	2.2
S	0.7	1.2	1.2	0.5	0.1	0.0	3.7	3.2
SSW	0.9	1.5	2.5	1.7	0.0	0.1	6.7	3.8
SW	0.5	1.8	4.4	3.7	0.7	0.0	11.1	4.5
WSW	0.8	2.7	9.2	4.5	0.2	0.0	17.4	4.1
W	1.6	1.9	1.9	0.4	0.1	0.0	5.8	2.8
WNW	2.9	0.9	0.1	0.0	0.0	0.0	3.9	1.2
NW	3.2	0.6	0.0	0.0	0.0	0.0	3.8	1.0
NNW	3.3	0.6	0.1	0.0	0.0	0.0	4.0	1.1
All	32.7	22.7	25.4	12.6	1.7	1.1	96.2	2.9

D	Stability Class A	B	C	D	E	F	All
N	0.0	0.0	0.1	0.3	0.8	4.1	5.3
N	0.1	0.2	0.1	0.7	1.1	5.4	7.7
N	0.0	0.4	0.4	3.1	2.1	5.7	11.7
E	0.0	0.2	0.9	3.2	0.5	1.2	6.0
E	0.0	0.4	0.6	1.1	0.3	1.0	3.3
E	0.0	0.2	0.2	0.7	0.1	0.2	1.5
S	0.3	0.5	0.5	0.4	0.3	0.5	2.4
S	0.5	1.0	0.9	0.5	0.1	0.2	3.3
S	0.2	1.5	1.1	0.6	0.1	0.2	3.8
S	0.5	2.5	2.1	1.3	0.1	0.1	6.8
S	0.5	3.7	3.5	3.1	0.2	0.1	11.2
W	0.5	5.6	4.2	6.4	0.1	0.6	17.4
W	0.2	0.8	0.4	2.8	0.7	1.1	6.1
W	0.1	0.1	0.1	0.6	1.1	2.7	4.8
N	0.0	0.0	0.0	0.1	1.1	3.0	4.3
N	0.0	0.1	0.0	0.2	1.0	3.2	4.5
A	3.1	17.3	15.3	25.2	9.7	29.4	100.0



3.2 Meteorological Data Discussion

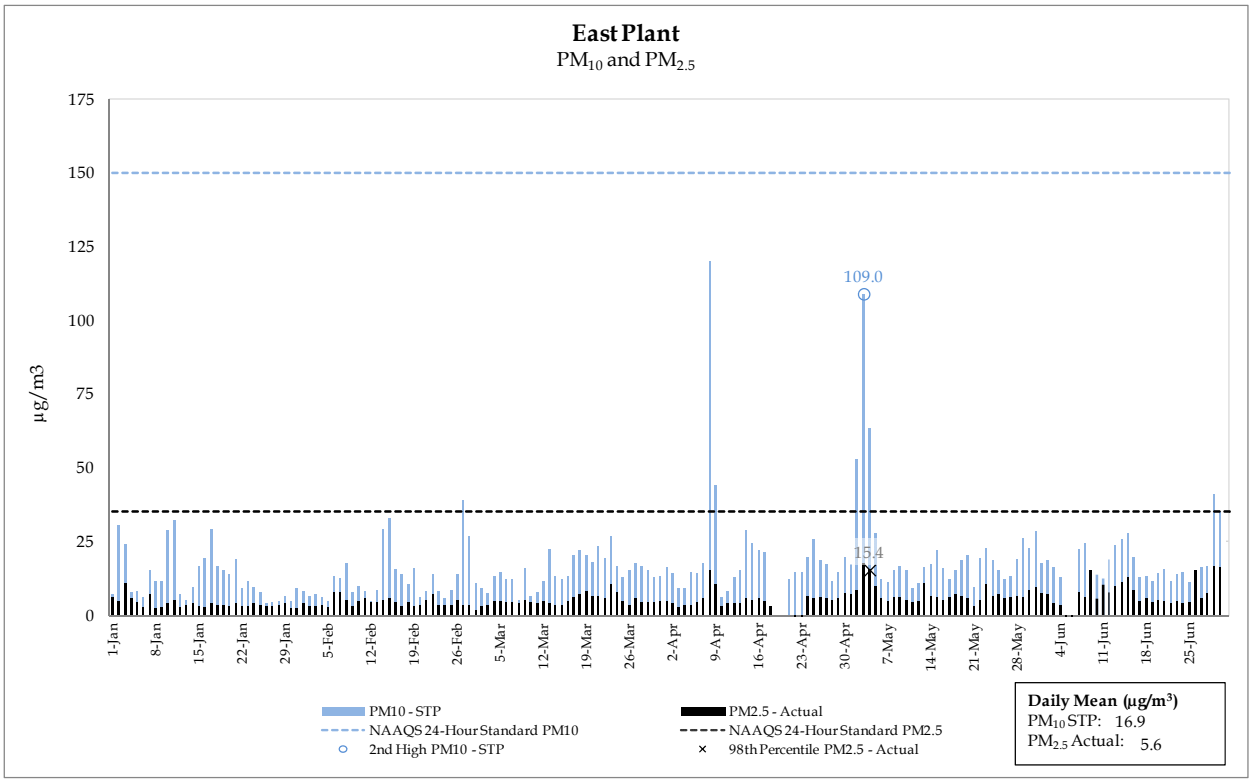
The meteorological data collected at the East and the West Plant sites for the second quarter of 2013 met all data recovery objectives.

4.0 PM DATA SUMMARY AND DISCUSSION

4.1 East Plant PM Data Summary

Figure 6 presents the PM_{10} and $PM_{2.5}$ data collected at the East Plant site for 2013 YTD, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The daily maximum 24-hour average for PM_{10} and $PM_{2.5}$, the second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

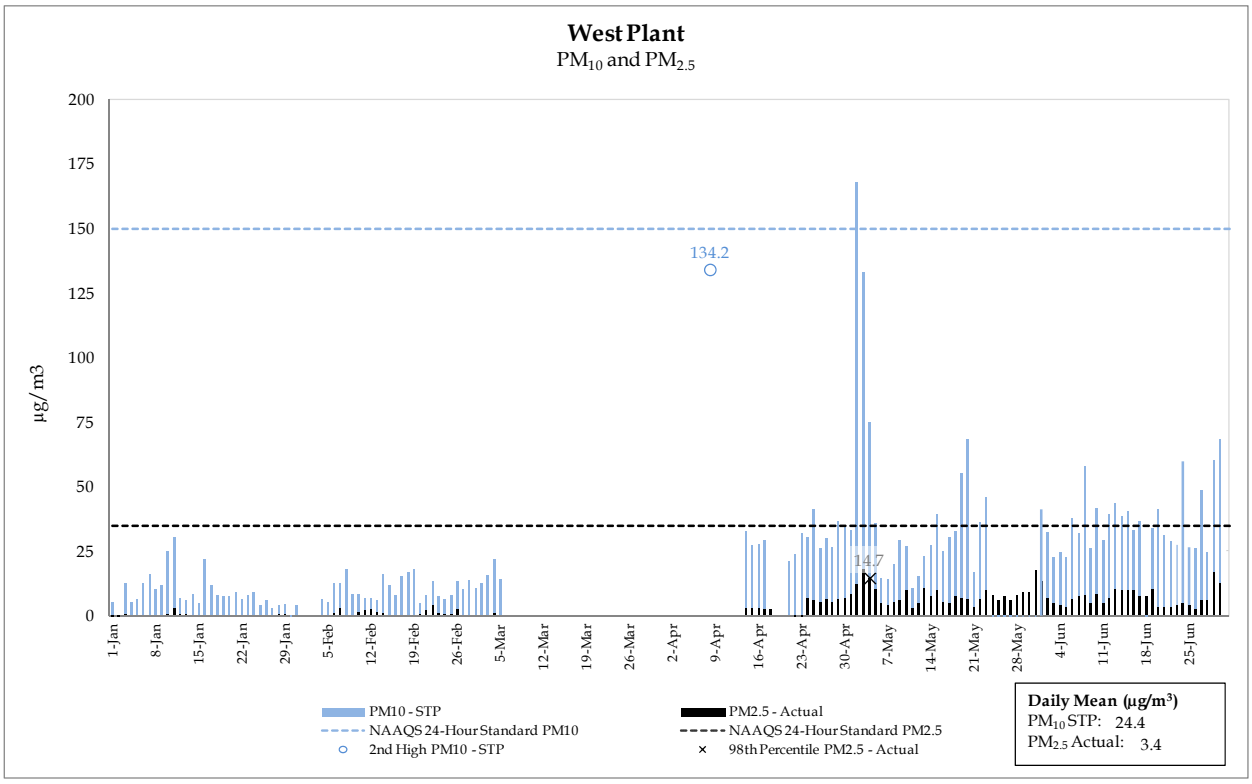
Figure 6. East Plant Particulate Data



4.2 West Plant PM Data Summary

Figure 7 presents the PM_{10} and $PM_{2.5}$ data collected at the West Plant site for 2013 YTD, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The daily maximum 24-hour average for PM_{10} and $PM_{2.5}$, the second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

Figure 7. West Plant Particulate Data



4.3 PM Data Discussion

4.3.1 PM_{10}

The National Ambient Air Quality Standard (NAAQS) for PM_{10} is 150 µg/m³ for a 24-hour average concentration. The standard is met when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one (second-high value).

As shown in Figure 6 and Figure 7, the year-to-date (YTD) second-high PM_{10} concentrations recorded at the East and West Plants are 109.0 µg/m³ and 134.2 µg/m³, respectively. Both the East and West Plants' second-high values are below the NAAQS of 150 µg/m³.

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

4.3.2 $PM_{2.5}$

The annual primary and secondary $PM_{2.5}$ standards are met when the annual arithmetic mean concentration is less than or equal to 12.0 $\mu g/m^3$. The 24-hour primary and secondary $PM_{2.5}$ standards are met when the 98th percentile 24-hour concentration is less than or equal to 35 $\mu g/m^3$.

As shown in Figure 6 and Figure 7, YTD arithmetic mean concentrations for the East and West Plants are 5.6 and 3.4 $\mu g/m^3$, respectively. Both the East and West Plants' arithmetic mean values are below the NAAQS of 12 $\mu g/m^3$.

Figure 6 and Figure 7 also show the 98^{th} percentile concentrations at the East and West Plants, which were 15.4 and 14.7 $\mu g/m^3$, respectively. The 98^{th} percentiles of both the East and West Plants' 24-hour concentrations are also below 35 $\mu g/m^3$.

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

5.0 NO_2 DATA SUMMARY AND DISCUSSION

5.1 NO_2 Data Summary

Figure 8 and Figure 9 present the NO_2 maximum hourly concentrations for each calendar day, and hourly data collected at the East Plant site for 2013 YTD. Figure 8 shows the 98th percentile compared to the one-hour NO_2 standard. Figure 9 shows the mean hourly NO_2 concentration compared with the annual NO_2 standard.

Figure 8. NO_2 Maximum Hourly Concentration for Each Calendar Day (YTD)

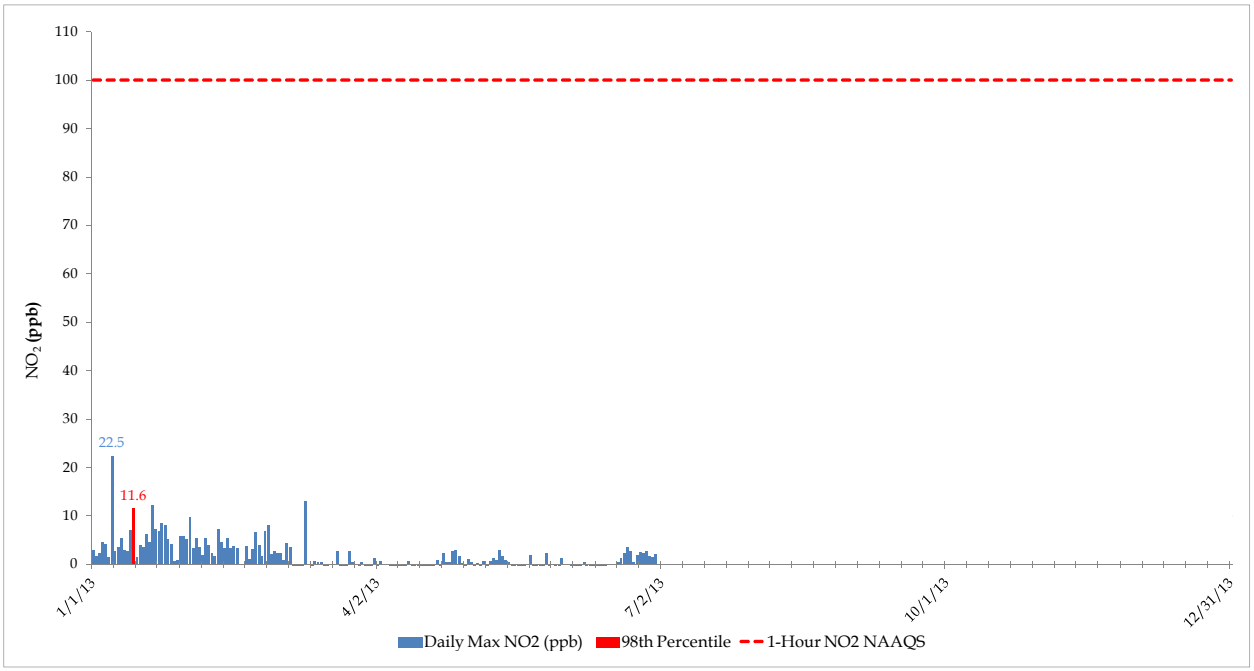
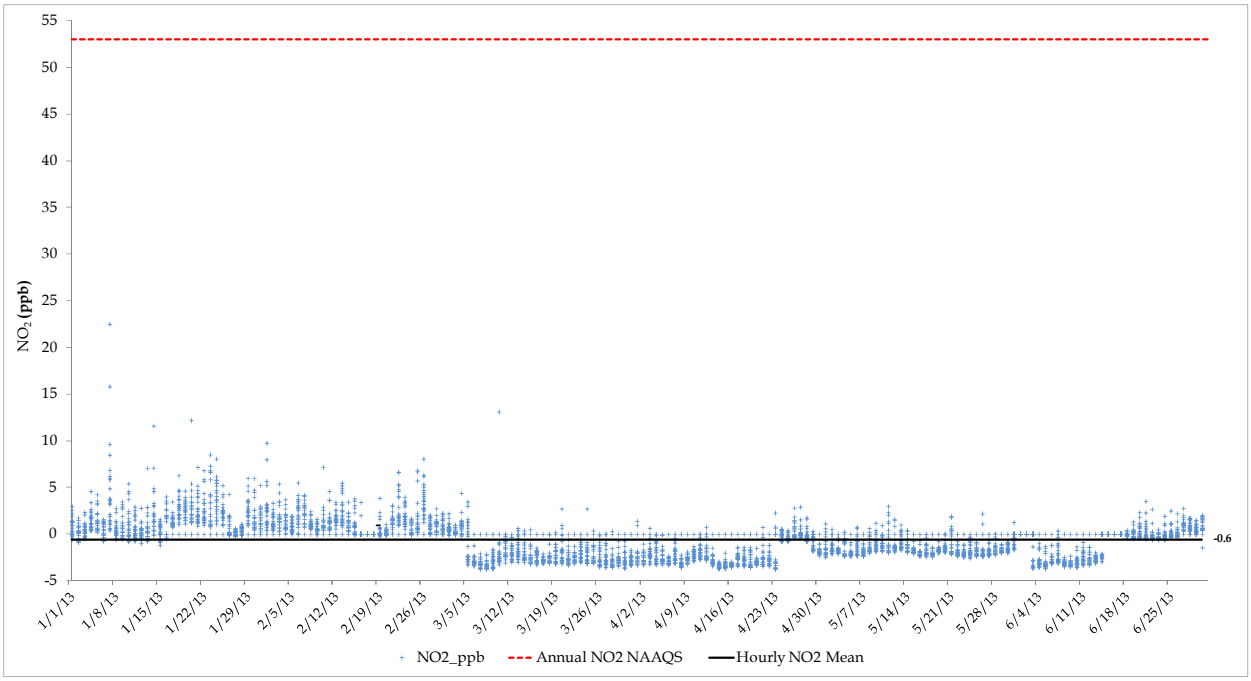


Figure 9. NO_2 Mean Hourly Concentrations (YTD)



5.2 NO_2 Data Discussion

The level of the annual NAAQS for oxides of nitrogen is 53 parts per billion (ppb), measured in the ambient air as NO_2. The annual NAAQS is met when the annual average concentration in a calendar year is less than or equal to 53 ppb.

The level of the 1-hour NAAQS for oxides of nitrogen is 100 ppb, measured in the ambient air as NO_2. The 1-hour NAAQS is met when the three-year average of the annual 98th percentile of the daily maximum 1-hour average concentration is less than or equal to 100 ppb.

As shown in Figure 8, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for 2013 YTD is 11.6 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 9, the 2013 YTD hourly NO_2 average is -0.6 ppb, which is below the annual NO_2 NAAQS of 53 ppb.

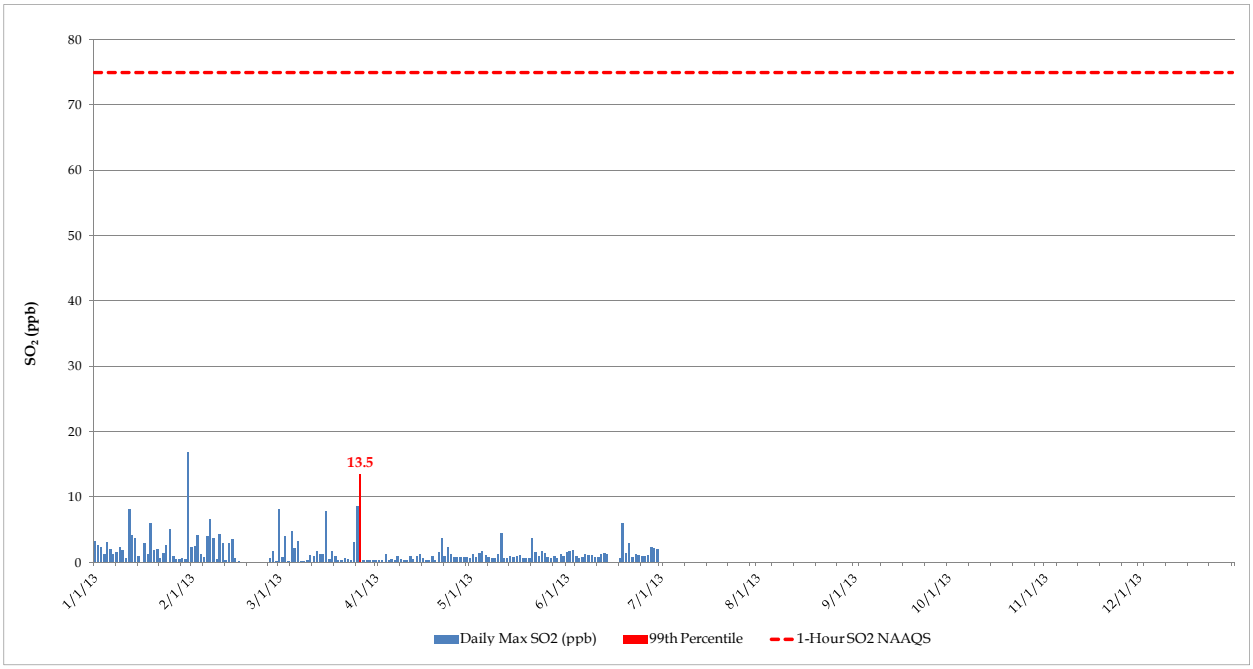
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

6.0 SO_2 DATA SUMMARY AND DISCUSSION

6.1 SO_2 Data Summary

Figure 10 presents the maximum hourly SO_2 concentrations for each calendar day collected at the East Plant site for 2013 YTD, and it shows the 99th percentile (labeled) compared to the one-hour SO_2 standard.

Figure 10. SO_2 Maximum Hourly Concentration for Each Calendar Day (YTD)



6.2 SO_2 Data Discussion

The level of the primary 1-hour NAAQS for oxides of sulfur is 75 ppb measured in the ambient air as sulfur dioxide (SO_2). The 1-hour primary standard is met at an ambient air quality monitoring site when the three-year average of the annual (99th percentile) daily maximum 1-hour average concentrations is less than or equal to 75 ppb.

As shown in Figure 10, the 99th percentile 1-hour maximum concentration for 2013 YTD is 13.5 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

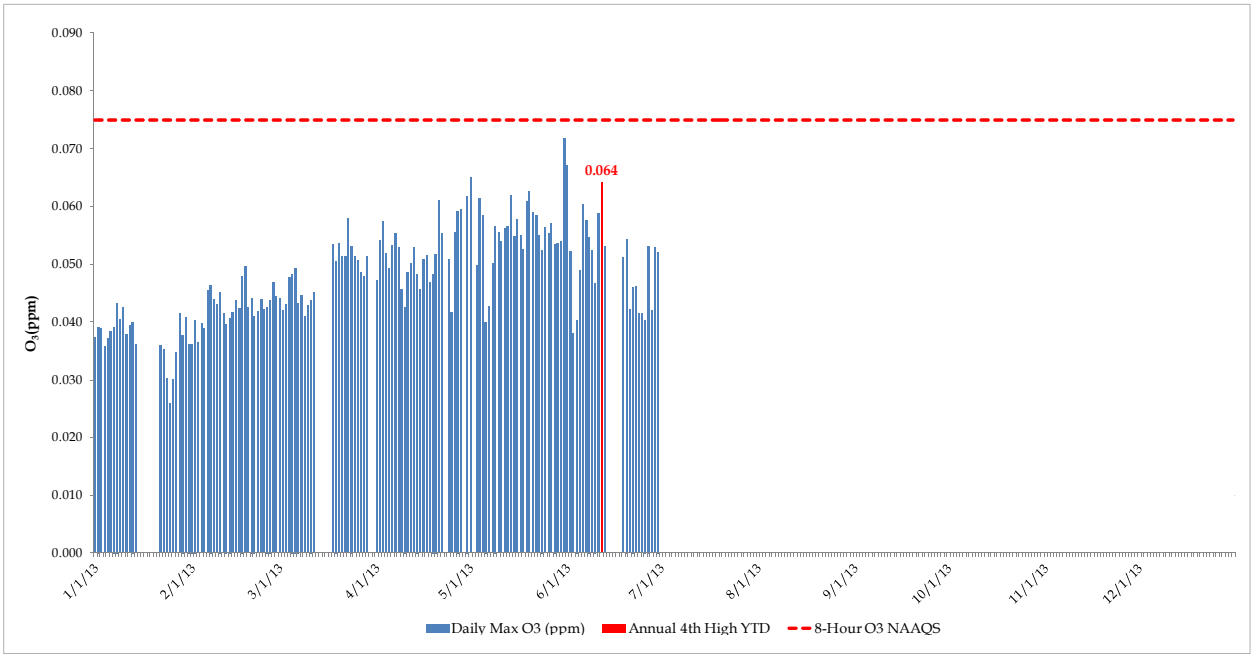
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

7.0 O_3 DATA SUMMARY AND DISCUSSION

7.1 O_3 Data Summary

Figure 11 presents the daily rolling 8-hour maximum O_3 data collected at the East Plant site for 2013 YTD, and it shows the year-to-date first-highest rolling 8-hour average compared to the eight-hour O_3 standard.

Figure 11. O_3 Daily Rolling 8-Hour Maximum, 2013 (YTD)



7.2 O_3 Data Discussion

The level of the primary and secondary 8-hour NAAQS for ozone is 0.075 parts per million, daily maximum average. The 8-hour primary and secondary standard is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum 8-hour average O_3 concentration is less than or equal to 0.075 ppm.

Figure 11 shows that the YTD averaged fourth-high maximum recorded at the East Plant for the second quarter of 2013 is 0.064 ppm. This concentration is below the NAAQS 8-hour O_3 standard of 0.075 ppm.

Parts of Pinal County and adjacent Maricopa County have been designated as non-attainment areas for 8-hour ozone by the Arizona Department of Environmental Quality (ADEQ).

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

Appendix A: Frequency Distributions of Winds by Speed, Direction, and Stability

Frequency of Winds By Direction and Speed - 10m
Stability Class A
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	2.7	0.0	0.0	0.0	0.0	2.7	2.7
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	1.4	0.0	0.0	0.0	0.0	1.4	2.2
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0
SE	0.0	1.4	0.0	0.0	0.0	0.0	1.4	2.5
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.7	6.1	0.0	0.0	0.0	0.0	6.8	2.6
SSW	0.0	9.5	0.0	0.0	0.0	0.0	9.5	2.6
SW	0.0	27.7	0.0	0.0	0.0	0.0	27.7	2.6
WSW	0.0	33.1	0.0	0.0	0.0	0.0	33.1	2.6
W	0.0	10.1	0.0	0.0	0.0	0.0	10.1	2.5
WNW	0.0	3.4	0.0	0.0	0.0	0.0	3.4	2.4
NW	0.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	0.7	99.3	0.0	0.0	0.0	0.0	100.0	2.6

Calms (< 0.447 m/s): 0.0%

Mean wind speed: 2.6 m/s

Percent Occurence for this Stability Class: 6.8%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.3	0.0	0.0	0.0	0.0	0.3	2.5
NNE	0.3	0.5	1.3	0.0	0.0	0.0	2.0	3.2
NE	0.3	1.5	1.8	0.0	0.0	0.0	3.5	3.1
ENE	0.3	0.3	1.0	0.0	0.0	0.0	1.5	3.2
E	0.0	0.5	0.3	0.0	0.0	0.0	0.8	2.9
ESE	0.0	1.5	1.5	0.0	0.0	0.0	3.0	2.9
SE	0.0	0.8	0.8	0.0	0.0	0.0	1.5	3.2
SSE	0.0	1.0	1.5	0.0	0.0	0.0	2.5	3.2
S	0.0	2.3	13.1	0.0	0.0	0.0	15.3	3.7
SSW	0.0	3.3	17.8	0.0	0.0	0.0	21.1	3.5
SW	0.3	8.8	14.3	0.0	0.0	0.0	23.4	3.0
WSW	0.3	10.3	8.8	0.0	0.0	0.0	19.3	2.9
W	0.0	3.0	1.5	0.0	0.0	0.0	4.5	2.7
WNW	0.0	0.8	0.3	0.0	0.0	0.0	1.0	2.7
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.3	0.0	0.0	0.0	0.0	0.3	2.1
All	1.3	34.9	63.8	0.0	0.0	0.0	100.0	3.2

Calms (< 0.447 m/s): 0.0%

Mean wind speed: 3.2 m/s

Percent Occurence for this Stability Class: 18.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.6	0.0	0.0	0.0	0.6	3.5
NNE	0.0	0.6	0.6	1.8	0.0	0.6	3.5	6.2
NE	0.9	0.6	3.5	0.3	1.2	0.0	6.5	4.4
ENE	0.3	1.5	0.0	0.6	0.0	0.0	2.3	2.9
E	0.3	0.3	0.9	0.6	1.2	0.0	3.2	5.2
ESE	0.0	1.8	0.6	0.0	0.0	0.0	2.3	2.6
SE	0.0	1.2	0.3	0.0	0.0	0.0	1.5	2.4
SSE	0.9	0.9	2.3	0.0	0.0	0.0	4.1	2.8
S	0.0	4.7	9.4	2.1	0.0	0.0	16.1	3.7
SSW	0.0	6.5	9.7	1.8	0.0	0.0	17.9	3.4
SW	0.0	12.3	5.6	0.0	0.0	0.0	17.9	2.7
WSW	0.9	9.7	6.2	0.0	0.0	0.0	16.7	2.8
W	0.0	1.5	2.1	0.0	0.0	0.0	3.5	3.1
WNW	0.3	1.8	0.6	0.0	0.0	0.0	2.6	2.6
NW	0.0	0.0	1.2	0.0	0.0	0.0	1.2	3.2
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	3.5	43.1	43.4	7.0	2.3	0.6	100.0	3.4

Calms (< 0.447 m/s): 0.0%

Mean wind speed: 3.4 m/s

Percent Occurence for this Stability Class: 15.6%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.4	0.0	0.0	0.0	0.0	0.4	2.7
NNE	0.2	0.4	1.0	2.7	1.9	1.4	7.5	7.6
NE	0.4	1.5	1.7	1.5	2.9	1.0	9.1	6.3
ENE	2.3	1.0	1.0	0.4	0.0	0.0	4.6	2.2
E	2.1	2.1	0.2	0.4	0.0	0.0	4.8	2.0
ESE	1.0	1.7	0.2	0.0	0.0	0.0	2.9	1.8
SE	0.6	1.5	0.0	0.0	0.0	0.0	2.1	2.0
SSE	0.6	3.1	1.0	0.0	0.0	0.0	4.6	2.5
S	1.2	3.1	4.2	1.5	0.8	0.0	10.8	3.7
SSW	0.4	4.4	12.2	2.9	0.6	0.0	20.5	3.9
SW	0.4	3.3	1.2	0.0	0.0	0.0	4.8	2.5
WSW	0.4	8.5	3.7	0.0	0.0	0.0	12.5	2.7
W	0.6	5.8	3.7	0.4	0.0	0.0	10.4	3.1
WNW	0.0	2.1	1.2	0.0	0.0	0.0	3.3	2.8
NW	0.0	1.0	0.0	0.0	0.0	0.0	1.0	2.1
NNW	0.0	0.4	0.0	0.0	0.0	0.0	0.4	1.7
All	10.0	40.3	31.1	9.8	6.2	2.3	99.8	3.7

Calms (< 0.447 m/s): 0.2%

Mean wind speed: 3.7 m/s

Percent Occurence for this Stability Class: 23.7%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.4	0.0	0.0	0.0	0.0	0.4	2.1
NNE	1.1	0.4	0.0	0.0	0.0	0.0	1.5	1.4
NE	0.0	0.0	0.4	0.0	0.0	0.0	0.4	3.1
ENE	2.7	5.3	0.0	0.0	0.0	0.0	8.0	1.9
E	2.3	1.9	0.0	0.0	0.0	0.0	4.2	1.6
ESE	3.0	1.9	0.0	0.0	0.0	0.0	4.9	1.1
SE	5.3	3.0	0.0	0.0	0.0	0.0	8.4	1.2
SSE	3.0	1.5	0.0	0.0	0.0	0.0	4.6	1.3
S	1.9	4.6	0.4	0.0	0.0	0.0	6.8	1.9
SSW	1.9	8.7	1.5	0.0	0.0	0.0	12.2	2.2
SW	2.3	7.2	0.4	0.0	0.0	0.0	9.9	2.1
WSW	3.0	11.4	0.0	0.0	0.0	0.0	14.4	1.9
W	2.3	11.8	0.0	0.0	0.0	0.0	14.1	2.0
WNW	1.9	3.8	0.0	0.0	0.0	0.0	5.7	1.8
NW	0.4	1.9	0.0	0.0	0.0	0.0	2.3	1.7
NNW	0.0	0.4	0.0	0.0	0.0	0.0	0.4	2.4
All	31.2	64.3	2.7	0.0	0.0	0.0	98.1	1.8

Calms (< 0.447 m/s): 1.9%

Mean wind speed: 1.8 m/s

Percent Occurence for this Stability Class: 12.0%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
East Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
NNE	0.4	0.4	0.0	0.0	0.0	0.0	0.8	1.3
NE	1.2	0.2	0.0	0.0	0.0	0.0	1.4	1.1
ENE	2.5	2.1	0.0	0.0	0.0	0.0	4.7	1.3
E	1.7	1.2	0.0	0.0	0.0	0.0	2.9	1.3
ESE	5.6	1.0	0.0	0.0	0.0	0.0	6.6	1.1
SE	7.8	0.4	0.0	0.0	0.0	0.0	8.1	0.8
SSE	11.4	1.2	0.0	0.0	0.0	0.0	12.6	0.9
S	9.7	0.4	0.0	0.0	0.0	0.0	10.1	0.9
SSW	4.7	3.3	0.0	0.0	0.0	0.0	7.9	1.4
SW	5.8	2.1	0.0	0.0	0.0	0.0	7.9	1.3
WSW	8.9	3.7	0.0	0.0	0.0	0.0	12.6	1.3
W	5.4	3.7	0.0	0.0	0.0	0.0	9.1	1.3
WNW	3.1	1.7	0.0	0.0	0.0	0.0	4.8	1.3
NW	0.8	0.4	0.0	0.0	0.0	0.0	1.2	1.1
NNW	1.0	0.2	0.0	0.0	0.0	0.0	1.2	1.1
All	70.9	21.9	0.0	0.0	0.0	0.0	92.8	1.1

Calms (< 0.447 m/s): 7.2%

Mean wind speed: 1.1 m/s

Percent Occurence for this Stability Class: 23.6%

Frequency of Winds By Direction and Speed - 10m
Stability Class A
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.5
NE	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.7
ENE	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.1
E	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.1
ESE	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.7
SE	1.5	7.4	0.0	0.0	0.0	0.0	8.8	1.7
SSE	2.9	11.8	0.0	0.0	0.0	0.0	14.7	2.1
S	0.0	7.4	0.0	0.0	0.0	0.0	7.4	2.3
SSW	0.0	17.6	0.0	0.0	0.0	0.0	17.6	2.3
SW	1.5	16.2	0.0	0.0	0.0	0.0	17.6	2.4
WSW	0.0	14.7	0.0	0.0	0.0	0.0	14.7	2.7
W	1.5	4.4	0.0	0.0	0.0	0.0	5.9	2.3
WNW	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.3
NW	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.2
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	7.4	92.6	0.0	0.0	0.0	0.0	100.0	2.3

Calms (< 0.447 m/s): 0.0%

Mean wind speed: 2.3 m/s

Percent Occurence for this Stability Class: 3.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.3	0.8	0.0	0.0	0.0	1.1	3.2
NE	0.0	0.8	1.3	0.0	0.0	0.0	2.1	3.7
ENE	0.0	0.5	0.8	0.0	0.0	0.0	1.3	3.7
E	0.0	1.3	0.8	0.0	0.0	0.0	2.1	2.8
ESE	0.0	0.5	0.5	0.0	0.0	0.0	1.1	3.0
SE	0.5	1.6	1.1	0.0	0.0	0.0	3.2	2.5
SSE	0.8	2.9	2.1	0.0	0.0	0.0	5.8	2.7
S	1.3	2.4	4.8	0.0	0.0	0.0	8.5	3.1
SSW	1.3	2.7	10.6	0.0	0.0	0.0	14.6	3.5
SW	0.5	4.5	16.4	0.0	0.0	0.0	21.5	3.7
WSW	0.0	5.3	27.1	0.3	0.0	0.0	32.6	3.8
W	0.3	1.9	2.7	0.0	0.0	0.0	4.8	3.0
WNW	0.0	0.5	0.3	0.0	0.0	0.0	0.8	2.6
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.3	0.3	0.0	0.0	0.0	0.0	0.5	1.8
All	5.0	25.5	69.2	0.3	0.0	0.0	100.0	3.5

Calms (< 0.447 m/s): 0.0%

Mean wind speed: 3.5 m/s

Percent Occurence for this Stability Class: 17.3%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.3	0.3	0.0	0.0	0.0	0.0	0.6	1.9
NNE	0.0	0.6	0.3	0.0	0.0	0.0	0.9	3.0
NE	0.0	0.9	0.9	0.3	0.6	0.0	2.7	4.7
ENE	0.3	1.5	1.8	1.5	0.3	0.3	5.7	4.4
E	1.2	0.6	1.8	0.3	0.0	0.0	3.9	2.9
ESE	0.3	0.9	0.3	0.0	0.0	0.0	1.5	2.1
SE	0.9	1.5	0.6	0.0	0.0	0.0	3.0	2.1
SSE	2.1	1.8	2.1	0.0	0.0	0.0	6.0	2.3
S	1.8	1.2	2.1	1.8	0.3	0.0	7.2	3.4
SSW	3.0	0.9	2.4	7.2	0.0	0.0	13.5	4.1
SW	1.2	0.9	7.5	12.6	0.9	0.0	23.1	4.7
WSW	0.6	0.9	16.5	8.7	0.6	0.0	27.2	4.5
W	0.0	0.9	1.5	0.3	0.0	0.0	2.7	3.8
WNW	0.0	0.3	0.6	0.0	0.0	0.0	0.9	3.2
NW	0.0	0.3	0.0	0.0	0.0	0.0	0.3	2.0
NNW	0.0	0.0	0.3	0.0	0.0	0.0	0.3	4.0
All	11.7	13.5	38.6	32.6	2.7	0.3	99.4	4.0

Calms (< 0.447 m/s): 0.6%

Mean wind speed: 4.0 m/s

Percent Occurence for this Stability Class: 15.3%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.2	0.7	0.4	0.0	0.0	0.0	1.3	2.6
NNE	0.0	0.7	0.4	0.9	0.0	0.9	2.9	7.0
NE	0.0	2.4	3.6	2.0	1.5	2.7	12.2	6.6
ENE	0.9	2.0	6.7	2.4	0.2	0.0	12.2	3.9
E	1.8	1.5	0.5	0.4	0.0	0.0	4.2	2.2
ESE	1.3	1.3	0.4	0.0	0.0	0.0	2.9	1.7
SE	0.9	0.2	0.2	0.0	0.0	0.0	1.3	1.5
SSE	0.7	0.5	0.4	0.2	0.0	0.0	1.8	2.3
S	0.2	0.7	0.2	0.7	0.4	0.0	2.2	4.5
SSW	0.2	0.9	1.3	2.4	0.2	0.4	5.3	5.1
SW	0.0	1.3	1.6	6.9	2.2	0.2	12.2	5.7
WSW	0.4	4.0	8.0	12.4	0.5	0.0	25.3	4.6
W	0.5	4.0	4.7	1.5	0.4	0.0	11.1	3.5
WNW	1.1	1.3	0.0	0.0	0.0	0.0	2.4	1.7
NW	0.2	0.2	0.0	0.0	0.0	0.0	0.4	1.7
NNW	0.4	0.2	0.2	0.2	0.0	0.0	0.9	2.6
All	8.7	21.8	28.5	29.8	5.3	4.2	98.4	4.5

Calms (< 0.447 m/s): 1.6%

Mean wind speed: 4.5 m/s

Percent Occurence for this Stability Class: 25.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	3.8	3.3	0.5	0.0	0.0	0.0	7.5	1.4
NNE	6.6	5.2	0.0	0.0	0.0	0.0	11.8	1.4
NE	6.6	11.3	2.4	0.0	0.0	0.0	20.3	2.0
ENE	2.4	2.8	0.5	0.0	0.0	0.0	5.7	1.7
E	2.4	0.9	0.0	0.0	0.0	0.0	3.3	1.5
ESE	0.5	0.5	0.0	0.0	0.0	0.0	0.9	1.2
SE	1.4	0.9	0.0	0.5	0.0	0.0	2.8	2.1
SSE	0.5	0.9	0.0	0.0	0.0	0.0	1.4	1.3
S	0.0	0.9	0.0	0.0	0.0	0.0	0.9	2.1
SSW	0.5	0.9	0.0	0.0	0.0	0.0	1.4	1.7
SW	0.9	0.9	0.0	0.0	0.0	0.0	1.9	1.7
WSW	0.0	1.4	0.0	0.0	0.0	0.0	1.4	2.3
W	4.2	2.4	0.0	0.0	0.0	0.0	6.6	1.5
WNW	8.5	0.9	0.0	0.0	0.0	0.0	9.4	0.9
NW	8.0	1.9	0.0	0.0	0.0	0.0	9.9	1.1
NNW	7.1	2.8	0.0	0.0	0.0	0.0	9.9	1.2
All	53.3	38.2	3.3	0.5	0.0	0.0	95.3	1.5

Calms (< 0.447 m/s): 4.7%

Mean wind speed: 1.5 m/s

Percent Occurence for this Stability Class: 9.7%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
West Plant, Resolution
04/01/13 - 06/30/13
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	11.0	1.6	0.0	0.0	0.0	0.0	12.6	1.0
NNE	14.2	3.3	0.0	0.0	0.0	0.0	17.4	1.1
NE	14.8	4.0	0.0	0.0	0.0	0.0	18.8	1.2
ENE	2.8	0.8	0.0	0.0	0.0	0.0	3.6	1.2
E	3.0	0.3	0.0	0.0	0.0	0.0	3.3	1.2
ESE	0.3	0.3	0.0	0.0	0.0	0.0	0.6	1.2
SE	1.1	0.3	0.0	0.0	0.0	0.0	1.4	0.9
SSE	0.6	0.2	0.0	0.0	0.0	0.0	0.8	1.2
S	0.5	0.3	0.0	0.0	0.0	0.0	0.8	1.3
SSW	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.2
SW	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.9
WSW	2.0	0.2	0.0	0.0	0.0	0.0	2.2	1.0
W	3.1	0.2	0.0	0.0	0.0	0.0	3.3	0.9
WNW	6.1	0.8	0.0	0.0	0.0	0.0	6.8	0.8
NW	8.1	0.9	0.0	0.0	0.0	0.0	9.0	0.9
NNW	8.2	0.8	0.0	0.0	0.0	0.0	9.0	0.8
All	76.4	14.0	0.0	0.0	0.0	0.0	90.4	1.0

Calms (< 0.447 m/s): 9.6%

Mean wind speed: 1.0 m/s

Percent Occurence for this Stability Class: 29.4%

Appendix B: Monthly Wind Speed Frequencies and Instantaneous Daily Maximum Wind Speeds

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Apr-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	96.80	2.83	0.37	0.00	0.00	0.00	0.00	0.00	0.00	10.14	14:40
2	95.77	3.50	0.60	0.10	0.00	0.00	0.00	0.00	0.00	11.83	15:43
3	82.47	11.60	5.20	0.70	0.00	0.00	0.00	0.00	0.00	11.32	8:42
4	97.43	2.47	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.70	11:39
5	95.37	3.67	0.83	0.07	0.00	0.00	0.00	0.00	0.00	10.70	14:29
6	97.37	2.33	0.27	0.00	0.00	0.00	0.00	0.00	0.00	9.68	17:44
7	96.80	2.80	0.40	0.00	0.00	0.00	0.00	0.00	0.00	9.27	17:27
8	49.10	22.93	13.80	7.33	3.63	1.93	0.83	0.33	0.13	26.42	20:10
9	84.03	11.17	3.80	0.90	0.10	0.03	0.00	0.00	0.00	15.31	6:54
10	88.47	7.87	3.50	0.17	0.00	0.00	0.00	0.00	0.00	10.80	9:29
11	98.83	1.17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.89	15:18
12	99.53	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.61	16:13
13	92.67	5.90	1.23	0.13	0.00	0.00	0.00	0.00	0.00	13.26	15:14
14	62.20	24.00	10.37	2.83	0.57	0.03	0.00	0.00	0.00	15.31	13:52
15	65.50	20.40	9.10	3.60	1.10	0.23	0.03	0.00	0.00	17.20	15:45
16	69.00	21.20	7.10	1.90	0.60	0.17	0.03	0.00	0.00	18.89	17:47
17	86.67	9.60	2.90	0.70	0.13	0.00	0.00	0.00	0.00	14.13	18:18
18	57.03	25.40	13.47	3.53	0.57	0.00	0.00	0.00	0.00	13.93	8:25
19	60.57	12.83	13.90	9.23	3.13	0.33	0.00	0.00	0.00	16.90	7:02
20	95.17	4.13	0.60	0.07	0.00	0.00	0.00	0.00	0.00	11.52	16:10
21	98.20	1.63	0.17	0.00	0.00	0.00	0.00	0.00	0.00	9.16	15:14
22	95.97	3.40	0.53	0.10	0.00	0.00	0.00	0.00	0.00	12.19	14:22
23	96.40	3.23	0.33	0.03	0.00	0.00	0.00	0.00	0.00	10.14	14:41
24	94.60	4.70	0.63	0.03	0.00	0.00	0.00	0.00	0.00	10.14	15:22
25	84.63	9.47	3.87	1.53	0.33	0.10	0.00	0.00	0.00	17.51	13:41
26	97.37	2.50	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.78	17:32
27	94.73	4.73	0.50	0.00	0.00	0.00	0.00	0.00	0.00	9.98	14:52
28	95.67	4.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.81	14:06
29	96.53	3.10	0.37	0.03	0.00	0.00	0.00	0.00	0.00	10.39	16:20
30	90.50	7.23	1.87	0.40	0.07	0.00	0.00	0.00	0.00	12.80	19:20
All	87.18	8.01	3.20	1.11	0.34	0.09	0.03	0.01	0.00	26.42	20:10

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
May-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	94.43	4.97	0.60	0.03	0.00	0.00	0.00	0.00	0.00	10.65	18:26
2	12.93	20.40	15.87	15.13	13.83	11.07	6.90	2.87	0.97	22.94	8:28
3	38.13	12.97	14.13	18.47	11.83	4.03	0.40	0.00	0.00	17.10	9:28
4	83.47	13.67	2.53	0.30	0.00	0.00	0.00	0.00	0.00	11.26	14:28
5	83.67	12.33	3.10	0.70	0.13	0.07	0.00	0.00	0.00	15.82	22:14
6	86.70	10.67	2.30	0.30	0.03	0.00	0.00	0.00	0.00	17.00	0:58
7	81.37	14.67	3.10	0.73	0.07	0.00	0.00	0.00	0.00	13.93	17:16
8	97.63	2.23	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.93	16:19
9	97.53	2.33	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.70	16:18
10	95.03	3.97	0.70	0.20	0.03	0.03	0.00	0.00	0.00	16.18	21:37
11	58.40	19.20	14.40	6.37	1.53	0.13	0.00	0.00	0.00	14.85	9:34
12	79.80	14.30	5.50	0.43	0.00	0.00	0.00	0.00	0.00	11.06	6:47
13	92.90	6.60	0.47	0.00	0.00	0.00	0.00	0.00	0.00	9.11	13:25
14	93.17	5.70	1.00	0.10	0.00	0.00	0.00	0.00	0.00	15.46	16:34
15	91.33	6.60	1.70	0.37	0.03	0.00	0.00	0.00	0.00	13.31	16:48
16	90.77	6.60	2.03	0.50	0.07	0.00	0.00	0.00	0.00	14.80	15:42
17	90.10	7.70	1.83	0.33	0.03	0.00	0.00	0.00	0.00	12.34	15:53
18	90.23	8.10	1.50	0.17	0.00	0.00	0.00	0.00	0.00	11.26	15:49
19	94.00	4.63	1.17	0.17	0.00	0.00	0.00	0.00	0.00	11.98	17:16
20	90.87	5.47	2.47	0.90	0.20	0.07	0.00	0.00	0.00	18.38	16:24
21	97.30	2.47	0.23	0.00	0.00	0.00	0.00	0.00	0.00	11.11	13:16
22	89.50	8.33	1.87	0.30	0.00	0.00	0.00	0.00	0.00	13.16	17:05
23	79.17	16.67	3.63	0.43	0.10	0.00	0.00	0.00	0.00	12.95	16:05
24	90.20	8.13	1.43	0.17	0.03	0.00	0.00	0.00	0.00	13.00	16:46
25	92.73	6.37	0.87	0.10	0.00	0.00	0.00	0.00	0.00	11.72	17:01
26	94.67	4.57	0.73	0.07	0.00	0.00	0.00	0.00	0.00	11.47	17:37
27	97.03	2.73	0.23	0.00	0.00	0.00	0.00	0.00	0.00	10.75	16:15
28	93.00	5.43	1.27	0.27	0.03	0.00	0.00	0.00	0.00	12.34	17:30
29	94.20	4.70	0.97	0.07	0.00	0.00	0.00	0.00	0.00	12.39	15:15
30	95.60	3.87	0.47	0.03	0.00	0.00	0.00	0.00	0.00	10.29	17:51
31	97.27	2.53	0.20	0.00	0.00	0.00	0.00	0.00	0.00	9.78	17:03
All	85.91	8.03	2.79	1.50	0.90	0.50	0.24	0.09	0.03	22.94	8:28

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Jun-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	79.07	9.67	7.03	3.50	0.73	0.00	0.00	0.00	0.00	14.39	9:31
2	91.77	6.10	1.73	0.33	0.03	0.00	0.00	0.00	0.00	12.65	14:54
3	90.43	7.30	1.90	0.33	0.03	0.00	0.00	0.00	0.00	12.08	17:33
4	95.87	3.60	0.50	0.00	0.00	0.00	0.00	0.00	0.00	9.88	14:13
5	97.17	2.63	0.17	0.00	0.00	0.00	0.00	0.00	0.00	9.52	17:34
6	95.70	3.73	0.53	0.03	0.00	0.00	0.00	0.00	0.00	10.19	15:28
7	90.27	8.60	1.10	0.03	0.00	0.00	0.00	0.00	0.00	11.37	2:05
8	82.83	12.13	3.70	1.00	0.27	0.03	0.00	0.00	0.00	15.16	17:00
9	90.93	7.60	1.33	0.13	0.00	0.00	0.00	0.00	0.00	12.13	15:55
10	97.07	2.63	0.30	0.00	0.00	0.00	0.00	0.00	0.00	9.32	14:10
11	95.93	3.67	0.37	0.00	0.00	0.00	0.00	0.00	0.00	11.42	16:31
12	92.63	6.50	0.80	0.07	0.00	0.00	0.00	0.00	0.00	10.70	16:17
13	92.27	6.70	0.97	0.10	0.00	0.00	0.00	0.00	0.00	11.57	14:16
14	96.37	3.33	0.27	0.03	0.00	0.00	0.00	0.00	0.00	9.73	16:59
15	95.23	3.83	0.77	0.17	0.00	0.00	0.00	0.00	0.00	12.29	16:07
16	95.00	4.23	0.70	0.07	0.00	0.00	0.00	0.00	0.00	12.24	15:08
17	95.87	3.50	0.57	0.07	0.00	0.00	0.00	0.00	0.00	11.78	13:31
18	95.23	3.83	0.83	0.07	0.03	0.00	0.00	0.00	0.00	12.49	11:58
19	91.33	6.37	1.97	0.30	0.03	0.00	0.00	0.00	0.00	12.70	12:37
20	91.07	7.60	1.20	0.13	0.00	0.00	0.00	0.00	0.00	15.97	15:51
21	89.67	7.90	1.97	0.37	0.07	0.00	0.00	0.00	0.00	15.00	16:23
22	93.60	5.27	1.03	0.10	0.00	0.00	0.00	0.00	0.00	12.54	17:41
23	85.30	12.20	2.27	0.23	0.03	0.00	0.00	0.00	0.00	13.26	16:39
24	84.40	11.77	3.23	0.57	0.03	0.00	0.00	0.00	0.00	12.39	14:29
25	97.70	2.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	10.55	13:47
26	97.20	2.57	0.20	0.00	0.00	0.00	0.00	0.00	0.00	10.19	15:50
27	86.67	10.77	2.23	0.30	0.03	0.00	0.00	0.00	0.00	14.59	14:57
28	98.13	1.83	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.04	0:57
29	89.90	8.90	1.07	0.10	0.00	0.00	0.00	0.00	0.00	10.24	15:03
30	92.33	6.13	1.43	0.10	0.00	0.00	0.00	0.00	0.00	11.01	15:13
All	92.23	6.10	1.34	0.27	0.04	0.00	0.00	0.00	0.00	15.97	15:51

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Apr-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	86.80	10.87	2.27	0.07	0.00	0.00	0.00	0.00	0.00	10.14	11:35
2	84.73	11.70	3.27	0.30	0.00	0.00	0.00	0.00	0.00	11.06	12:48
3	90.77	7.70	1.37	0.17	0.00	0.00	0.00	0.00	0.00	11.26	8:33
4	95.57	4.07	0.37	0.00	0.00	0.00	0.00	0.00	0.00	10.96	12:57
5	83.57	12.47	3.53	0.40	0.00	0.00	0.00	0.00	0.00	11.62	15:24
6	93.63	5.73	0.60	0.03	0.00	0.00	0.00	0.00	0.00	11.93	16:23
7	91.17	7.77	1.07	0.00	0.00	0.00	0.00	0.00	0.00	12.70	13:12
8	40.57	17.87	18.50	12.47	6.93	2.93	0.63	0.03	0.00	18.59	14:05
9	83.40	13.77	2.63	0.17	0.00	0.00	0.00	0.00	0.00	10.55	14:36
10	95.30	4.07	0.60	0.03	0.00	0.00	0.00	0.00	0.00	10.44	9:24
11	97.33	2.63	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.53	15:20
12	98.90	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.76	13:45
13	86.43	11.50	1.97	0.13	0.03	0.00	0.00	0.00	0.00	11.83	15:06
14	69.90	20.13	8.50	1.43	0.07	0.00	0.00	0.00	0.00	12.44	12:05
15	56.47	23.70	14.43	4.33	1.00	0.07	0.00	0.00	0.00	14.34	14:06
16	64.03	18.27	11.77	4.70	1.17	0.07	0.00	0.00	0.00	15.00	17:01
17	71.20	17.20	8.93	2.43	0.23	0.00	0.00	0.00	0.00	13.06	17:25
18	68.13	18.93	9.10	3.13	0.63	0.03	0.00	0.00	0.00	14.34	4:22
19	69.23	8.93	8.83	7.10	3.70	1.60	0.50	0.07	0.00	20.79	6:16
20	85.43	11.03	3.27	0.27	0.00	0.00	0.00	0.00	0.00	10.50	17:08
21	89.23	9.73	1.03	0.00	0.00	0.00	0.00	0.00	0.00	9.47	13:44
22	88.83	9.40	1.70	0.10	0.00	0.00	0.00	0.00	0.00	11.42	11:58
23	89.57	9.37	1.07	0.00	0.00	0.00	0.00	0.00	0.00	9.98	16:09
24	77.20	19.73	3.00	0.07	0.00	0.00	0.00	0.00	0.00	11.47	15:17
25	65.93	16.00	11.47	5.37	1.07	0.17	0.00	0.00	0.00	16.33	10:46
26	92.73	6.47	0.80	0.03	0.00	0.00	0.00	0.00	0.00	10.34	17:54
27	89.13	9.43	1.33	0.07	0.00	0.00	0.00	0.00	0.00	10.34	12:30
28	95.67	3.80	0.47	0.03	0.00	0.00	0.00	0.00	0.00	10.19	13:16
29	90.90	7.93	1.17	0.03	0.00	0.00	0.00	0.00	0.00	9.93	16:06
30	78.70	13.47	6.37	1.20	0.20	0.03	0.00	0.00	0.00	15.10	15:42
All	82.35	11.16	4.31	1.47	0.50	0.16	0.04	0.00	0.00	20.79	6:16

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
May-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	90.00	9.13	0.87	0.00	0.00	0.00	0.00	0.00	0.00	9.16	16:58
2	29.20	15.70	12.10	12.83	12.20	9.67	5.53	2.10	0.70	22.99	5:56
3	42.83	11.57	4.00	5.10	8.47	11.87	11.23	4.37	0.57	22.73	8:07
4	75.87	19.07	4.57	0.43	0.00	0.00	0.00	0.00	0.00	11.83	13:01
5	71.87	19.50	7.17	1.40	0.07	0.00	0.00	0.00	0.00	11.93	12:28
6	79.20	17.87	2.77	0.17	0.00	0.00	0.00	0.00	0.00	11.37	0:53
7	71.53	18.80	7.87	1.63	0.13	0.00	0.00	0.00	0.00	13.26	14:42
8	95.60	4.07	0.33	0.00	0.00	0.00	0.00	0.00	0.00	9.22	16:21
9	92.53	6.67	0.77	0.00	0.00	0.00	0.00	0.00	0.00	9.37	15:00
10	89.93	8.50	1.47	0.10	0.00	0.00	0.00	0.00	0.00	11.93	21:45
11	53.00	25.83	15.60	4.60	0.87	0.17	0.00	0.00	0.00	16.95	11:35
12	78.57	14.63	5.43	1.17	0.13	0.00	0.00	0.00	0.00	14.03	7:19
13	92.93	6.43	0.70	0.00	0.00	0.00	0.00	0.00	0.00	9.98	14:22
14	81.00	15.60	3.13	0.30	0.00	0.00	0.00	0.00	0.00	10.75	15:29
15	78.07	14.97	5.83	1.10	0.10	0.00	0.00	0.00	0.00	14.39	16:30
16	80.30	13.30	5.50	0.87	0.03	0.00	0.00	0.00	0.00	12.13	13:22
17	79.47	13.93	5.80	0.73	0.10	0.00	0.00	0.00	0.00	13.11	13:29
18	80.80	13.87	4.80	0.50	0.00	0.00	0.00	0.00	0.00	11.88	16:42
19	83.80	12.43	3.37	0.40	0.00	0.00	0.00	0.00	0.00	10.80	17:05
20	72.13	13.53	9.33	4.07	0.83	0.10	0.00	0.00	0.00	14.85	16:03
21	83.77	14.50	1.73	0.00	0.00	0.00	0.00	0.00	0.00	10.14	15:10
22	82.23	13.90	3.53	0.33	0.00	0.00	0.00	0.00	0.00	12.34	12:51
23	75.77	17.03	6.10	1.03	0.07	0.00	0.00	0.00	0.00	12.60	16:34
24	84.77	12.13	2.80	0.27	0.03	0.00	0.00	0.00	0.00	13.26	11:44
25	84.60	12.27	2.70	0.43	0.03	0.00	0.00	0.00	0.00	11.78	15:48
26	87.00	10.67	2.17	0.13	0.00	0.00	0.00	0.00	0.00	11.16	13:38
27	92.50	6.93	0.57	0.00	0.00	0.00	0.00	0.00	0.00	9.06	15:30
28	79.47	15.77	4.33	0.43	0.00	0.00	0.00	0.00	0.00	10.96	14:54
29	82.13	12.47	4.57	0.77	0.00	0.00	0.00	0.00	0.00	14.08	16:19
30	88.20	9.33	2.33	0.13	0.00	0.00	0.00	0.00	0.00	10.60	17:05
31	94.80	4.83	0.37	0.00	0.00	0.00	0.00	0.00	0.00	8.45	15:18
All	79.16	13.07	4.28	1.26	0.74	0.70	0.54	0.21	0.04	22.99	5:56

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Jun-13

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	87.37	9.77	2.33	0.47	0.03	0.00	0.00	0.00	0.00	14.13	13:30
2	84.23	11.13	3.93	0.67	0.00	0.00	0.00	0.00	0.00	11.98	13:58
3	77.23	15.50	6.40	0.87	0.00	0.00	0.00	0.00	0.00	11.83	15:04
4	86.87	9.77	3.10	0.27	0.00	0.00	0.00	0.00	0.00	10.75	15:58
5	94.37	5.30	0.33	0.00	0.00	0.00	0.00	0.00	0.00	10.75	14:57
6	91.90	7.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00	10.04	12:41
7	89.70	8.87	1.40	0.03	0.00	0.00	0.00	0.00	0.00	9.78	16:37
8	76.87	13.67	7.80	1.57	0.17	0.00	0.00	0.00	0.00	13.16	16:23
9	87.17	11.53	1.27	0.03	0.00	0.00	0.00	0.00	0.00	12.08	11:37
10	92.07	7.13	0.77	0.00	0.00	0.00	0.00	0.00	0.00	12.60	15:28
11	85.93	11.60	2.40	0.07	0.00	0.00	0.00	0.00	0.00	10.24	13:35
12	92.00	7.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	9.01	11:26
13	80.23	15.07	4.53	0.17	0.00	0.00	0.00	0.00	0.00	10.04	16:48
14	90.60	8.27	1.13	0.00	0.00	0.00	0.00	0.00	0.00	9.52	16:49
15	83.37	12.50	3.63	0.47	0.00	0.00	0.00	0.00	0.00	11.93	15:37
16	81.67	14.17	3.87	0.37	0.00	0.00	0.00	0.00	0.00	10.80	14:02
17	91.17	7.20	1.50	0.10	0.00	0.00	0.00	0.00	0.00	11.21	15:03
18	85.90	10.20	3.47	0.43	0.00	0.00	0.00	0.00	0.00	11.57	16:41
19	84.03	11.57	3.90	0.50	0.03	0.00	0.00	0.00	0.00	11.88	12:44
20	83.90	12.60	3.17	0.37	0.00	0.00	0.00	0.00	0.00	13.67	16:18
21	84.00	12.40	3.33	0.27	0.00	0.00	0.00	0.00	0.00	12.49	16:13
22	84.57	12.17	3.03	0.23	0.00	0.00	0.00	0.00	0.00	10.60	15:46
23	80.90	14.17	4.27	0.67	0.03	0.00	0.00	0.00	0.00	12.29	16:41
24	76.53	15.87	6.37	1.13	0.17	0.00	0.00	0.00	0.00	12.60	14:08
25	91.87	7.13	0.93	0.03	0.00	0.00	0.00	0.00	0.00	9.98	15:56
26	94.13	5.60	0.30	0.00	0.00	0.00	0.00	0.00	0.00	8.81	16:43
27	78.93	14.87	5.73	0.40	0.03	0.00	0.00	0.00	0.00	11.72	16:40
28	98.03	1.90	0.07	0.00	0.00	0.00	0.00	0.00	0.00	9.88	15:17
29	71.27	20.17	7.40	1.13	0.07	0.00	0.00	0.00	0.00	12.95	7:53
30	80.03	15.93	3.80	0.23	0.00	0.00	0.00	0.00	0.00	11.47	21:33
All	85.56	11.03	3.04	0.35	0.02	0.00	0.00	0.00	0.00	14.13	13:30

Appendix C: Meteorological Data – Hourly

SAROAD for Resolution, East_Plant
Channel: WS_ms_10m
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.9	1.9	1.3	1.1	0.5	0.6	1.0	0.7	1.2	2.4	1.7	3.2	2.5	2.3	3.4	2.7	2.9	2.5	1.9	2.0	0.8	1.3	0.6	0.5	1.7	3.4	0.5
2	1.2	0.6	0.4	0.6	0.5	0.4	0.4	0.6	1.4	2.5	2.7	3.1	2.7	2.9	3.2	3.3	2.8	2.9	2.1	2.0	1.7	1.1	1.4	0.8	1.7	3.3	0.4
3	1.1	1.7	0.8	1.7	2.2	3.0	4.6	6.0	7.2	6.7	4.8	2.2	2.2	2.6	3.1	2.0	2.5	2.8	3.0	3.4	2.3	1.9	1.3	0.6	2.9	7.2	0.6
4	0.9	1.5	1.3	1.6	2.0	1.7	2.0	1.8	2.7	3.7	3.3	4.1	3.3	2.7	2.1	1.9	1.8	2.1	3.1	2.6	1.6	0.7	0.7	0.8	2.1	4.1	0.7
5	0.5	0.3	0.6	0.7	1.3	1.3	1.0	0.5	1.4	2.6	2.3	2.6	3.0	3.0	3.3	3.4	3.0	3.0	2.5	1.6	1.5	1.8	1.7	1.4	1.8	3.4	0.3
6	1.8	0.9	1.2	0.3	0.6	0.7	0.6	0.7	1.4	1.3	2.6	2.3	2.0	2.9	2.6	3.0	2.6	3.3	1.9	0.8	0.6	0.6	1.2	1.6	1.6	3.3	0.3
7	1.8	0.7	0.5	0.5	0.4	0.8	1.1	0.6	1.2	1.8	2.8	2.4	2.8	3.1	3.4	2.8	3.2	2.2	1.6	2.1	0.9	0.6	0.4	0.7	1.6	3.4	0.4
8	1.6	2.7	4.0	4.2	4.4	3.8	4.7	6.3	5.9	6.1	6.5	6.8	9.1	8.3	7.7	7.7	6.7	7.8	5.7	5.0	7.1	4.7	5.5	2.5	5.6	9.1	1.6
9	1.5	2.5	5.0	4.9	6.3	4.5	3.5	3.5	3.5	3.8	2.5	3.0	3.5	3.6	3.2	3.0	2.6	1.8	1.3	1.9	2.1	2.4	1.7	2.5	3.1	6.3	1.3
10	1.2	0.7	0.8	0.9	1.3	1.2	2.1	2.7	6.7	6.1	4.8	3.2	2.9	2.5	2.8	2.8	3.6	3.2	1.8	1.1	1.1	1.9	0.7	0.7	2.4	6.7	0.7
11	0.8	0.5	0.6	0.4	0.5	0.4	0.5	0.6	1.4	2.7	3.0	2.4	2.3	2.6	2.7	2.8	2.3	2.2	1.7	1.4	1.4	0.7	0.6	0.8	1.5	3.0	0.4
12	1.1	1.2	1.3	1.8	1.7	1.7	2.1	2.1	2.9	3.1	3.3	3.0	1.3	2.5	2.0	1.9	2.8	1.4	1.0	1.5	0.8	0.4	0.4	0.6	1.7	3.3	0.4
13	1.3	0.9	1.0	0.5	0.6	0.8	0.6	0.9	1.1	2.1	3.0	3.0	2.7	2.4	3.0	3.6	3.2	3.3	2.5	2.9	1.9	3.0	3.2	4.2	2.1	4.2	0.5
14	2.0	1.9	3.2	5.2	5.6	5.1	3.8	3.6	4.3	3.1	3.6	4.7	4.1	4.8	5.2	4.8	5.6	4.6	5.3	6.4	5.6	5.0	5.4	4.2	4.5	6.4	1.9
15	2.4	1.3	2.8	2.4	2.7	4.1	4.2	4.7	5.1	5.4	5.5	5.7	5.7	5.1	4.9	5.3	6.1	5.5	7.0	4.3	4.1	4.5	2.5	1.9	4.3	7.0	1.3
16	2.7	2.8	3.4	3.9	3.0	4.7	4.9	5.0	4.7	4.5	4.0	4.2	4.7	5.7	5.8	4.9	4.7	5.0	4.8	3.1	3.6	4.2	3.9	4.0	4.2	5.8	2.7
17	4.6	4.6	4.3	2.2	1.5	1.8	1.7	2.7	2.1	2.4	2.7	3.2	3.5	3.8	3.7	3.7	3.4	3.6	2.8	2.3	1.8	1.5	2.0	2.1	2.8	4.6	1.5
18	4.0	6.1	5.4	6.1	6.6	6.5	6.8	8.1	8.1	7.2	4.9	4.6	2.9	3.2	2.9	3.5	3.8	3.1	2.8	1.4	3.5	4.6	3.0	2.1	4.6	8.1	1.4
19	4.7	5.9	7.7	8.8	6.3	7.9	9.9	9.6	7.9	6.7	6.8	3.8	2.1	1.9	1.8	2.2	1.7	1.7	1.9	3.0	3.1	1.7	1.8	1.9	4.6	9.9	1.7
20	1.9	2.0	2.3	1.1	0.6	0.9	0.8	0.6	1.3	3.2	3.3	3.5	3.1	3.1	3.1	2.8	3.2	3.5	2.8	1.3	1.3	1.1	1.0	0.7	2.0	3.5	0.6
21	0.6	0.4	0.9	0.9	0.9	1.6	1.7	2.5	3.3	2.6	1.6	2.6	2.2	2.5	2.6	2.7	2.3	2.4	1.8	1.1	0.6	0.7	0.2	0.5	1.6	3.3	0.2
22	0.6	0.9	0.5	1.4	0.9	0.9	0.6	0.4	1.0	1.8	2.2	2.5	3.3	3.4	2.9	3.1	3.5	2.5	2.1	1.4	1.3	1.0	0.6	1.7	1.7	3.5	0.4
23	2.3	2.4	3.2	3.2	1.8	2.0	1.9	1.0	2.1	1.8	2.6	2.9	2.5	2.6	2.6	2.9	2.7	2.6	1.8	1.6	1.3	0.5	0.8	1.0	2.1	3.2	0.5
24	1.6	1.1	0.9	0.9	1.0	1.3	1.1	1.2	2.6	3.3	3.5	3.4	3.0	2.7	2.7	3.3	2.8	1.9	2.4	2.9	1.5	0.6	1.1	4.2	2.1	4.2	0.6
25	3.4	1.2	2.3	2.0	1.3	1.7	2.0	2.6	3.8	4.0	6.6	4.8	4.1	5.3	4.2	4.2	3.0	3.2	2.7	2.1	2.0	1.1	1.5	1.2	2.9	6.6	1.1
26	0.6	1.0	0.9	1.3	1.2	0.9	1.3	1.8	2.7	2.8	2.2	2.7	3.0	3.0	3.1	3.0	2.7	2.8	2.3	2.4	2.7	1.8	2.3	2.3	2.1	3.1	0.6
27	2.0	0.5	0.4	0.5	0.9	1.4	1.7	2.9	2.1	2.1	4.8	3.7	2.5	2.6	2.9	2.3	3.0	2.4	2.4	1.8	2.7	2.3	1.9	1.2	2.1	4.8	0.4
28	0.8	1.2	1.2	1.3	1.8	1.5	2.1	2.7	4.0	3.9	3.7	1.9	2.8	2.6	3.0	2.5	2.9	2.5	1.7	1.4	1.7	1.5	1.0	1.1	2.1	4.0	0.8
29	1.5	2.0	2.5	2.4	1.4	0.5	0.7	0.5	1.7	2.4	2.4	2.4	3.2	3.1	2.9	2.9	3.2	2.6	2.1	1.5	1.0	0.7	1.4	2.1	2.0	3.2	0.5
30	1.6	1.0	0.8	1.0	1.2	1.6	0.7	0.9	2.2	2.9	2.9	2.5	3.6	3.7	3.6	3.2	3.4	3.1	3.8	3.9	2.3	1.7	1.7	3.5	2.4	3.9	0.7
Avg	1.8	1.8	2.1	2.1	2.0	2.2	2.3	2.6	3.2	3.5	3.5	3.3	3.2	3.3	3.3	3.3	3.3	3.0	2.7	2.3	2.1	1.9	1.7	1.8	2.6	--	--
Max	4.7	6.1	7.7	8.8	6.6	7.9	9.9	9.6	8.1	7.2	6.8	6.8	9.1	8.3	7.7	7.7	6.7	7.8	7.0	6.4	7.1	5.0	5.5	4.2	--	9.9	--
Min	0.5	0.3	0.4	0.3	0.4	0.4	0.4	0.4	1.0	1.3	1.6	1.9	1.3	1.9	1.8	1.9	1.7	1.4	1.0	0.8	0.6	0.4	0.2	0.5	--	--	0.2

SAROAD for Resolution, East_Plant
Channel: WS_ms_10m
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.2	2.0	1.9	2.3	1.4	1.2	0.8	0.8	2.3	2.4	2.4	2.3	2.0	2.4	3.3	3.0	2.9	3.0	3.4	2.2	2.8	2.6	3.6	2.5	2.3	3.6	0.8
2	5.7	9.8	10.8	13.1	13.8	13.2	14.0	14.4	14.9	14.0	12.7	10.6	8.9	7.6	7.1	6.4	5.5	5.1	6.0	5.4	6.2	5.0	8.1	9.8	9.5	14.9	5.0
3	9.6	9.1	8.4	9.2	10.0	9.9	10.3	10.9	11.9	12.3	9.7	7.6	7.8	5.6	4.3	4.0	3.4	2.2	2.1	4.9	5.0	2.7	1.9	1.7	6.8	12.3	1.7
4	2.0	1.8	2.7	2.9	2.7	2.7	4.0	4.5	4.5	3.6	2.4	2.2	3.0	4.2	4.4	3.3	3.1	3.6	3.7	3.9	4.3	3.9	1.5	3.6	3.3	4.5	1.5
5	3.0	3.1	2.3	1.3	3.4	3.1	1.9	3.2	4.1	4.3	4.7	4.5	4.1	3.1	3.2	3.2	3.5	3.5	3.2	2.4	2.1	2.6	4.4	4.8	3.3	4.8	1.3
6	3.9	2.9	2.0	2.2	1.5	1.2	1.4	1.8	3.5	2.5	3.0	3.0	2.8	2.9	2.5	3.3	4.1	2.3	2.8	3.4	4.9	4.7	4.4	3.7	2.9	4.9	1.2
7	3.4	4.1	3.6	3.9	3.8	4.0	2.9	2.6	2.4	3.9	4.5	4.0	4.4	4.2	4.2	4.1	4.2	4.3	3.5	2.1	2.8	2.3	2.6	2.4	3.5	4.5	2.1
8	2.5	1.5	2.7	0.7	0.6	0.6	0.9	1.0	1.5	1.7	2.1	2.3	3.0	2.4	3.0	3.0	3.0	2.2	1.5	1.3	0.9	1.0	1.1	1.2	1.7	3.0	0.6
9	1.7	0.6	0.6	0.7	0.4	0.7	0.5	0.7	2.9	3.0	3.0	2.4	2.9	2.8	2.8	2.9	2.7	2.2	2.3	2.1	2.0	0.9	0.4	1.5	1.8	3.0	0.4
10	1.3	1.3	1.2	1.2	1.7	2.2	2.4	3.3	2.1	2.2	2.6	2.6	2.8	2.7	3.0	3.7	3.7	1.6	1.5	1.6	1.5	4.7	3.7	1.5	2.3	4.7	1.2
11	1.6	3.1	3.2	2.9	3.5	4.3	6.4	7.7	6.5	7.5	7.5	9.1	7.6	6.1	5.4	4.7	5.7	5.6	4.8	2.6	2.0	1.7	1.2	0.9	4.6	9.1	0.9
12	1.7	1.7	1.6	2.6	3.1	3.4	5.0	5.5	5.2	4.6	6.5	5.9	5.2	4.7	3.3	2.5	2.1	1.4	1.8	1.5	0.5	1.0	0.8	1.1	3.0	6.5	0.5
13	1.2	1.3	1.7	1.5	1.5	2.2	2.9	4.6	5.0	3.0	2.9	3.7	2.7	3.6	2.5	3.0	2.2	3.7	2.3	1.1	1.2	0.7	0.5	1.4	2.3	5.0	0.5
14	1.3	1.6	1.5	1.1	1.4	1.2	1.0	1.3	2.0	1.6	1.9	2.2	3.1	3.1	3.1	3.3	3.3	3.7	3.3	3.9	2.9	2.0	2.4	2.4	2.3	3.9	1.0
15	1.9	2.4	1.4	1.2	1.5	0.6	0.6	1.8	2.7	2.3	2.8	3.3	3.4	3.7	3.7	3.3	3.8	3.4	2.8	2.6	3.1	2.2	1.8	1.1	2.4	3.8	0.6
16	2.2	1.7	1.4	1.2	0.9	1.9	2.0	1.7	2.2	2.0	2.9	3.6	3.5	4.0	3.4	4.3	3.8	3.6	2.7	2.8	2.6	1.9	1.1	2.0	2.5	4.3	0.9
17	2.7	2.1	2.4	1.8	1.9	2.7	1.3	2.6	3.8	3.5	3.3	4.2	3.5	3.6	3.2	4.2	3.3	3.5	1.5	1.7	1.6	1.0	1.5	2.8	2.7	4.2	1.0
18	3.7	3.7	3.4	2.8	1.9	1.9	2.4	2.0	2.8	2.1	2.2	3.4	4.1	3.6	3.3	3.4	3.8	3.1	2.6	2.5	3.7	2.9	2.6	1.4	2.9	4.1	1.4
19	1.4	1.4	1.0	0.5	0.6	1.1	0.4	1.9	2.9	2.0	2.1	2.9	3.1	3.0	3.9	3.4	3.1	3.4	3.0	2.2	2.1	1.4	1.7	1.0	2.1	3.9	0.4
20	1.4	0.9	1.7	1.9	1.1	0.9	1.3	1.2	2.2	2.4	3.0	2.8	3.2	4.2	4.3	4.4	4.8	3.5	2.2	2.1	1.8	1.9	2.4	1.9	2.4	4.8	0.9
21	1.4	2.5	2.5	2.0	2.4	3.0	3.8	3.7	3.2	2.1	2.6	2.8	2.2	2.4	2.7	2.5	2.7	2.4	2.2	1.6	1.1	0.7	0.8	0.6	2.2	3.8	0.6
22	0.8	0.6	0.7	0.7	0.8	0.6	0.4	0.6	1.7	2.7	2.8	3.2	2.8	3.0	3.7	3.7	3.9	3.6	3.2	3.5	4.1	3.6	3.1	3.8	2.4	4.1	0.4
23	4.5	4.5	5.2	2.2	1.2	0.5	1.8	4.1	3.8	4.7	3.1	3.6	4.1	4.4	3.7	3.6	4.6	3.9	4.3	2.9	3.8	2.7	1.6	1.4	3.3	5.2	0.5
24	3.3	4.2	4.3	3.8	2.8	1.8	0.8	1.5	2.5	3.2	3.3	2.7	2.7	3.6	3.4	3.4	3.6	3.2	2.2	2.0	1.7	2.3	2.4	2.8	2.8	4.3	0.8
25	1.2	0.7	0.4	0.4	0.3	0.5	0.5	1.1	3.7	3.8	3.8	4.0	3.2	3.4	3.2	3.2	2.9	3.1	2.1	2.0	1.1	1.3	1.7	1.1	2.0	4.0	0.3
26	1.0	1.4	0.9	1.8	0.6	0.4	0.3	2.4	1.9	1.8	2.6	3.3	3.2	3.2	3.6	3.0	2.8	2.7	2.0	2.1	1.5	0.7	1.1	1.7	1.9	3.6	0.3
27	0.7	0.6	0.8	0.7	0.5	0.9	0.5	0.8	1.4	1.1	2.6	2.9	2.9	2.4	2.6	3.1	3.0	2.4	2.0	2.7	1.5	1.6	1.9	2.5	1.8	3.1	0.5
28	1.6	1.0	0.7	0.6	0.8	0.7	0.5	1.0	2.0	1.8	2.6	2.8	3.6	2.8	3.8	3.8	3.6	3.3	2.6	2.3	2.2	2.2	1.3	3.2	2.1	3.8	0.5
29	1.8	2.3	1.6	1.4	0.8	0.9	0.3	1.5	2.6	2.8	2.8	2.9	3.1	3.3	3.0	3.4	3.4	3.1	3.0	2.3	2.3	1.7	1.2	1.4	2.2	3.4	0.3
30	1.3	2.2	2.4	2.0	1.6	1.3	1.1	2.2	3.3	2.3	2.6	2.4	2.4	3.0	3.2	2.4	3.5	2.5	2.2	2.2	1.7	2.0	2.5	2.0	2.3	3.5	1.1
31	1.6	0.7	0.3	0.9	0.6	1.0	1.1	1.5	2.3	2.6	2.7	2.8	2.6	2.7	3.3	2.8	2.9	2.6	1.8	1.7	2.2	2.2	1.4	1.8	1.9	3.3	0.3
Avg	2.4	2.5	2.4	2.3	2.2	2.3	2.4	3.0	3.7	3.5	3.7	3.7	3.7	3.6	3.5	3.5	3.5	3.2	2.7	2.5	2.5	2.2	2.1	2.3	2.9	--	--
Max	9.6	9.8	10.8	13.1	13.8	13.2	14.0	14.4	14.9	14.0	12.7	10.6	8.9	7.6	7.1	6.4	5.7	5.6	6.0	5.4	6.2	5.0	8.1	9.8	--	14.9	--
Min	0.7	0.6	0.3	0.4	0.3	0.4	0.3	0.6	1.4	1.1	1.9	2.2	2.0	2.4	2.5	2.4	2.1	1.4	1.5	1.1	0.5	0.7	0.4	0.6	--	--	0.3

SAROAD for Resolution, East_Plant
Channel: WS_ms_10m
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.3	2.2	1.3	1.1	0.8	1.0	2.9	8.4	8.1	7.2	6.7	5.3	2.5	2.5	2.5	3.0	3.4	2.5	2.5	3.5	1.9	1.1	1.6	2.2	3.2	8.4	0.8
2	1.2	1.2	1.3	2.1	0.8	0.6	0.8	1.3	2.0	1.5	2.1	2.9	3.4	4.2	4.1	3.4	3.5	3.3	2.8	2.6	2.8	2.4	2.2	2.1	2.3	4.2	0.6
3	0.9	1.4	2.4	2.7	0.9	1.1	1.6	3.2	3.8	2.6	3.7	3.2	3.6	3.5	4.2	3.7	3.3	3.7	2.7	1.9	0.8	0.6	0.9	1.9	2.4	4.2	0.6
4	1.8	0.7	0.6	0.5	0.7	0.4	0.6	0.7	2.3	1.8	2.2	2.7	2.6	3.1	3.4	2.8	3.0	2.5	2.2	1.7	0.7	0.5	1.9	2.8	1.8	3.4	0.4
5	3.2	2.0	1.1	1.3	1.5	0.4	0.7	0.6	2.5	2.6	2.4	2.4	3.0	3.3	2.8	2.7	2.9	2.8	1.9	1.2	1.2	0.8	0.5	1.0	1.9	3.3	0.4
6	1.3	2.1	2.2	1.9	1.2	0.7	0.5	1.1	2.5	2.5	2.5	2.7	3.0	3.2	3.5	3.5	2.8	2.9	2.4	2.2	2.4	2.6	2.7	2.9	2.3	3.5	0.5
7	2.9	3.7	4.4	2.8	2.6	1.5	0.8	1.0	1.1	1.3	3.1	3.0	2.9	2.4	3.1	3.2	3.0	2.4	2.6	2.4	3.0	3.5	4.0	4.8	2.7	4.8	0.8
8	4.9	4.6	3.7	3.4	1.9	1.0	1.4	1.9	1.9	2.4	2.4	2.6	3.0	3.2	4.2	4.1	4.7	5.4	3.9	3.0	3.2	3.4	3.6	2.7	3.2	5.4	1.0
9	2.8	2.3	1.2	1.6	1.2	1.2	1.1	2.0	2.3	2.7	2.9	2.7	3.2	3.8	3.3	3.6	3.4	3.1	2.5	2.6	3.8	4.3	3.1	1.8	2.6	4.3	1.1
10	0.6	0.7	0.5	0.2	0.3	0.5	0.5	0.7	2.3	2.9	2.4	2.2	2.7	3.0	2.9	2.8	3.0	2.5	2.4	1.9	0.9	0.4	1.3	2.2	1.7	3.0	0.2
11	1.6	1.3	1.9	2.3	1.6	0.6	0.6	0.7	1.3	2.9	2.2	3.3	2.6	3.0	3.3	2.7	2.9	2.3	2.1	2.6	3.2	2.1	2.0	2.0	2.1	3.3	0.6
12	2.3	1.5	1.1	1.3	1.4	1.3	1.3	0.9	3.1	3.3	3.1	2.7	2.8	3.2	3.4	3.0	3.5	2.7	2.5	3.7	3.0	2.7	4.2	4.3	2.6	4.3	0.9
13	2.1	2.3	3.2	4.1	2.7	3.0	1.7	1.9	2.6	2.4	2.2	2.5	2.9	3.2	3.8	3.9	3.4	2.8	2.7	2.4	2.6	3.2	3.8	2.1	2.8	4.1	1.7
14	2.3	2.8	1.5	0.5	0.5	1.3	0.9	1.3	2.4	2.5	2.3	2.7	2.4	2.6	2.9	2.8	3.2	3.3	2.5	1.7	1.9	0.8	0.7	0.7	1.9	3.3	0.5
15	0.9	2.1	1.3	1.4	1.4	1.1	1.4	1.4	1.9	1.9	3.0	2.6	3.1	2.7	2.7	3.6	3.2	2.6	2.4	3.2	2.5	2.2	1.7	0.9	2.1	3.6	0.9
16	0.8	0.9	1.0	0.8	0.7	1.0	1.0	1.1	2.0	2.3	2.4	2.4	3.2	2.6	3.4	2.9	3.5	2.6	2.6	2.9	2.8	2.6	1.9	1.2	2.0	3.5	0.7
17	1.0	1.4	2.1	2.2	1.3	0.8	0.5	1.5	3.1	3.0	2.7	2.2	2.6	3.3	2.8	3.5	3.2	2.7	2.4	1.7	1.6	1.0	0.6	0.8	2.0	3.5	0.5
18	0.8	1.9	1.8	1.5	1.7	0.4	0.4	1.0	1.7	2.8	3.0	3.1	3.1	3.1	3.6	2.5	3.0	2.7	2.3	1.9	1.3	0.4	0.8	0.6	1.9	3.6	0.4
19	0.7	0.5	1.7	0.3	0.9	0.5	0.5	2.2	2.4	2.7	3.5	4.0	3.7	4.0	3.9	4.4	3.2	2.1	2.4	1.8	1.1	0.5	0.8	0.6	2.0	4.4	0.3
20	0.6	0.3	0.5	0.7	1.4	1.2	2.3	2.3	4.0	4.2	4.0	3.8	3.3	3.2	3.4	3.0	3.6	3.1	2.3	1.6	0.5	0.6	0.9	1.9	2.2	4.2	0.3
21	0.7	0.4	1.8	2.9	2.1	1.1	0.6	2.8	2.9	3.5	3.6	2.8	2.9	3.2	3.6	3.1	4.6	5.2	2.9	2.3	2.1	2.5	1.0	0.5	2.5	5.2	0.4
22	0.4	0.4	0.9	1.5	1.4	1.9	1.3	3.0	2.6	3.8	3.7	3.0	2.8	2.6	4.2	3.4	3.1	3.0	2.4	2.0	0.9	0.7	0.8	0.8	2.1	4.2	0.4
23	0.6	0.3	1.9	2.3	2.5	1.2	1.3	3.6	3.4	3.5	2.8	3.0	3.3	3.2	3.1	3.6	4.2	3.4	3.3	3.3	3.7	4.1	4.9	4.8	3.0	4.9	0.3
24	5.0	3.6	3.4	3.3	3.6	3.4	1.6	3.3	3.6	3.2	4.2	3.4	3.6	3.9	4.3	4.4	4.2	3.7	3.2	2.0	1.3	1.1	1.5	0.5	3.1	5.0	0.5
25	1.4	1.4	2.0	2.5	1.9	2.3	1.1	2.4	2.0	1.7	2.1	2.7	2.6	2.9	2.5	2.7	2.6	2.1	2.2	1.1	0.8	1.0	0.9	0.7	1.9	2.9	0.7
26	1.7	2.0	0.3	0.4	1.4	2.0	0.8	1.5	2.2	2.1	2.4	2.2	2.8	3.3	2.7	2.6	2.5	2.8	2.1	2.0	1.5	1.1	1.5	1.8	1.9	3.3	0.3
27	2.2	2.2	2.6	1.6	0.3	1.1	2.1	2.7	3.9	3.3	3.9	4.0	3.5	3.7	4.0	4.1	3.9	4.1	3.8	4.1	3.1	3.0	2.9	3.0	3.0	4.1	0.3
28	3.2	2.7	2.9	2.6	2.5	1.3	0.9	1.7	2.7	3.3	2.9	2.3	2.3	2.5	2.8	3.1	2.2	1.9	1.5	1.3	1.1	0.7	1.1	2.0	2.2	3.3	0.7
29	2.5	2.4	1.2	1.3	1.0	1.2	1.5	2.8	4.4	5.0	4.6	4.9	2.9	2.7	3.5	3.4	2.8	2.3	1.9	1.8	1.3	1.4	2.0	1.0	2.5	5.0	1.0
30	1.9	2.0	1.3	1.2	1.0	1.0	1.5	0.7	2.2	2.4	2.6	3.0	2.7	3.4	3.3	3.6	2.7	2.6	2.1	3.2	2.3	2.3	4.3	3.7	2.4	4.3	0.7
Avg	1.8	1.8	1.8	1.7	1.4	1.2	1.1	2.0	2.8	2.9	3.0	3.0	3.0	3.1	3.4	3.3	3.3	3.0	2.5	2.3	2.0	1.8	2.0	1.9	2.3	--	--
Max	5.0	4.6	4.4	4.1	3.6	3.4	2.9	8.4	8.1	7.2	6.7	5.3	3.7	4.2	4.3	4.4	4.7	5.4	3.9	4.1	3.8	4.3	4.9	4.8	--	8.4	--
Min	0.4	0.3	0.3	0.2	0.3	0.4	0.4	0.6	1.1	1.3	2.1	2.2	2.3	2.4	2.5	2.5	2.2	1.9	1.5	1.1	0.5	0.4	0.5	0.5	--	--	0.2

SAROAD for Resolution, East_Plant
Channel: WD_10m
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	241	260	266	270	229	179	180	124	46	227	222	209	260	297	212	253	238	200	238	257	256	248	215	309	237	309	46
2	279	233	134	155	189	133	124	114	187	218	216	232	228	236	224	217	202	226	195	191	205	251	352	355	206	355	114
3	241	252	108	108	96	80	39	33	29	28	28	35	14	283	201	246	225	249	253	250	226	245	257	264	277	283	14
4	160	149	169	129	114	124	145	121	71	47	56	123	127	152	112	147	133	240	256	248	259	178	246	257	150	259	47
5	189	170	166	157	190	208	140	120	111	236	250	244	217	217	255	206	172	197	140	307	279	267	269	242	207	307	111
6	237	238	250	262	217	234	133	106	82	168	245	233	273	257	235	265	224	267	311	286	142	293	288	290	245	311	82
7	285	298	123	302	235	155	138	111	59	226	234	221	229	214	228	225	249	220	207	266	282	183	113	275	223	302	59
8	199	216	208	195	200	199	190	181	187	182	183	185	198	195	177	183	179	191	178	181	188	230	269	83	192	269	83
9	180	199	189	191	195	194	147	183	204	205	178	204	208	178	152	182	151	102	140	194	184	204	32	32	178	208	32
10	173	174	192	150	169	148	121	58	21	32	41	32	29	1	257	294	302	316	339	298	142	237	169	201	151	339	1
11	190	141	169	122	162	140	154	99	162	232	261	243	237	232	243	243	242	223	218	246	234	159	154	184	197	261	99
12	148	167	172	164	163	160	142	120	56	41	51	26	240	224	225	225	208	171	168	261	257	132	182	174	172	261	26
13	176	220	177	71	96	107	178	117	87	226	239	256	256	250	199	207	191	172	270	285	56	88	149	207	185	285	56
14	186	189	214	203	205	210	190	185	210	194	187	190	193	192	204	204	197	179	195	199	197	200	198	206	197	214	179
15	176	220	218	214	202	189	184	185	197	197	203	200	201	179	174	183	194	192	199	193	193	204	175	167	193	220	167
16	201	216	214	213	218	199	196	198	198	208	209	198	204	191	189	186	181	175	178	157	167	201	199	201	196	218	157
17	191	187	193	168	175	152	150	166	187	189	186	203	309	237	222	227	225	281	264	143	22	264	214	4	204	309	4
18	40	22	19	18	31	29	31	27	34	25	24	38	27	86	71	45	350	357	11	27	41	36	51	57	32	357	11
19	62	50	40	33	45	36	30	27	33	39	31	34	325	313	299	223	214	234	284	248	249	256	268	271	342	325	27
20	267	286	280	258	145	176	175	108	251	236	254	239	221	222	219	226	234	260	201	165	45	123	58	63	218	286	45
21	51	153	176	174	140	120	116	90	47	44	107	242	213	259	227	256	214	252	175	273	307	175	97	117	168	307	44
22	122	174	179	207	163	171	138	109	53	241	264	235	226	227	209	242	214	213	80	227	297	66	125	194	191	297	53
23	227	216	200	210	231	207	208	255	228	257	255	259	213	274	272	181	174	290	230	228	277	136	249	250	232	290	136
24	255	162	124	109	101	105	83	91	103	109	173	191	193	217	207	216	221	167	203	207	202	142	159	202	166	255	83
25	217	237	253	253	256	204	203	186	180	182	183	183	154	175	161	206	166	320	218	295	265	310	303	296	221	320	154
26	134	183	161	147	148	161	138	101	52	50	306	236	249	246	228	221	229	237	234	253	251	257	263	267	214	306	50
27	270	258	278	186	146	114	112	47	284	327	21	31	284	260	229	227	200	228	231	253	256	271	301	271	256	327	21
28	211	61	150	104	117	106	127	116	45	70	22	68	205	226	257	229	204	230	185	175	260	258	254	290	177	290	22
29	296	287	288	267	194	146	166	121	224	253	237	214	221	234	242	254	231	221	250	272	290	304	266	274	245	304	121
30	272	286	264	268	259	232	83	96	144	189	195	196	233	208	200	181	170	310	180	170	61	39	95	191	200	310	39
Avg	208	210	193	184	174	159	144	117	111	205	223	215	229	228	216	219	207	229	215	235	242	219	218	243	204	--	--
Max	296	298	288	302	259	234	208	255	284	327	306	259	325	313	299	294	350	357	339	307	307	310	352	355	--	357	--
Min	40	22	19	18	31	29	30	27	21	25	21	26	14	1	71	45	133	102	11	27	22	36	32	4	--	--	1

SAROAD for Resolution, East_Plant
Channel: WD_10m
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	207	205	203	235	245	210	172	67	143	200	232	266	278	251	240	241	240	213	254	257	262	282	284	307	237	307	67
2	24	32	34	29	27	28	27	27	24	25	32	33	39	37	35	36	39	26	26	29	35	52	39	38	32	52	24
3	38	40	41	38	37	37	38	38	37	36	42	55	97	92	118	128	122	111	68	26	31	55	73	82	60	128	26
4	74	90	57	47	57	54	47	42	42	74	108	197	198	201	221	171	196	185	192	200	192	198	198	198	143	221	42
5	205	209	235	182	177	196	192	173	186	176	186	179	184	204	172	186	194	182	172	187	245	185	195	200	191	245	172
6	197	155	128	101	102	117	98	93	102	136	171	188	203	208	203	194	202	189	184	193	200	198	202	213	169	213	93
7	213	191	193	193	198	209	193	211	175	179	172	183	175	198	212	183	179	181	171	86	251	314	255	261	198	314	86
8	251	150	205	270	100	124	61	81	252	221	243	247	196	225	226	210	219	267	242	260	257	253	252	241	228	270	61
9	250	120	141	154	136	277	112	73	248	254	232	257	202	215	247	214	232	236	193	282	287	342	67	347	225	347	67
10	166	161	121	112	141	129	115	55	58	247	252	245	269	251	196	238	93	120	213	81	63	26	41	73	133	269	26
11	74	48	77	63	50	45	36	38	50	49	83	99	88	60	65	67	44	64	57	73	77	71	74	94	64	99	36
12	79	73	74	78	76	66	66	86	85	56	23	32	24	35	72	29	19	44	57	139	122	145	128	137	71	145	19
13	125	114	69	80	100	74	55	40	37	50	25	24	32	118	80	83	72	22	52	69	74	16	71	44	63	125	16
14	78	67	84	67	115	67	72	73	93	114	232	262	234	231	208	255	258	264	256	278	281	254	256	255	227	281	67
15	212	225	230	219	212	168	101	124	201	218	190	213	191	187	192	204	198	253	134	10	283	76	118	84	189	283	10
16	205	217	232	229	233	197	200	170	227	217	225	208	186	193	211	202	152	168	121	183	194	183	238	205	201	238	121
17	194	204	206	194	209	196	131	175	178	204	198	214	187	180	211	201	258	258	241	244	271	266	205	204	209	271	131
18	198	203	219	203	206	221	230	228	248	261	219	217	197	190	150	197	182	156	16	228	279	274	277	266	221	279	16
19	242	231	214	172	177	196	145	272	247	242	244	257	216	232	230	266	246	228	227	246	174	56	210	187	222	272	56
20	222	267	243	257	332	154	113	85	222	238	255	253	260	251	225	263	264	243	162	248	245	250	262	263	242	332	85
21	119	88	70	77	94	95	81	54	41	34	241	231	238	209	244	274	240	229	203	195	191	211	149	160	166	274	34
22	157	194	269	263	195	142	79	77	76	180	189	197	189	184	210	200	199	194	191	188	198	197	206	202	188	269	76
23	213	204	210	215	118	114	148	168	193	180	198	208	203	181	203	202	195	189	198	148	187	167	158	184	184	215	114
24	213	199	195	194	206	236	77	55	117	119	167	217	201	232	203	218	198	191	168	126	267	242	244	255	198	267	55
25	295	112	148	98	112	150	132	55	170	193	190	184	206	214	219	203	190	167	168	120	186	265	270	265	179	295	55
26	232	245	235	219	105	80	87	164	210	229	182	207	208	229	214	204	218	235	176	167	203	276	228	224	207	276	80
27	181	174	168	179	145	135	134	99	54	17	109	150	175	195	249	263	224	230	261	267	249	220	305	286	196	305	17
28	288	151	137	160	163	167	124	63	249	275	262	206	228	164	188	183	200	164	104	157	188	146	146	207	178	288	63
29	240	218	160	186	189	134	112	198	197	224	236	237	259	232	241	254	230	261	122	259	273	301	295	251	226	301	112
30	228	225	222	226	218	215	210	182	179	189	221	255	240	254	219	276	201	241	172	263	286	294	278	259	231	294	172
31	278	332	87	211	264	182	77	19	257	260	218	201	239	271	217	245	241	291	225	233	265	253	263	272	249	332	19
Avg	204	173	168	173	149	144	107	90	161	199	206	217	208	208	206	215	206	209	177	202	234	245	223	226	192	--	--
Max	295	332	269	270	332	277	230	272	257	275	262	266	278	271	249	276	264	291	261	282	287	342	305	347	--	347	--
Min	24	32	34	29	27	28	27	19	24	17	23	24	24	35	35	29	19	22	16	10	31	16	39	38	--	--	10

SAROAD for Resolution, East_Plant
Channel: WD_10m
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	277	287	255	263	248	165	74	31	31	38	32	29	51	68	282	261	245	211	243	280	311	225	257	263	286	311	29
2	181	188	226	240	157	155	220	85	143	230	190	176	174	219	230	230	176	163	175	134	157	331	277	275	194	331	85
3	357	207	187	174	201	211	120	184	184	210	199	211	212	207	205	205	192	174	203	26	22	155	242	255	198	357	22
4	239	151	231	162	114	151	126	73	222	241	234	231	240	224	236	182	191	193	175	284	254	251	253	253	211	284	73
5	251	245	230	237	225	87	124	185	242	251	241	238	223	214	216	242	230	233	212	231	233	250	242	262	229	262	87
6	278	268	275	255	248	155	130	156	240	239	240	225	233	244	228	244	234	212	221	254	274	256	251	254	238	278	130
7	261	277	276	273	260	224	87	70	61	179	256	247	235	234	225	218	228	207	254	249	275	280	282	276	248	282	61
8	272	272	258	250	242	238	239	227	240	233	254	230	227	224	237	238	257	264	265	237	264	271	279	265	249	279	224
9	269	270	283	260	259	242	210	237	249	246	237	232	254	244	235	256	246	238	240	257	274	276	286	281	253	286	210
10	259	263	247	85	156	182	133	102	243	257	285	232	263	242	290	220	261	226	269	56	103	155	267	258	233	290	56
11	262	246	252	255	191	118	130	88	293	251	245	224	235	234	243	242	229	228	237	262	271	275	288	290	244	293	88
12	270	251	121	154	162	170	182	179	255	252	252	248	252	230	256	242	243	266	259	259	264	272	283	282	239	283	121
13	289	267	246	247	225	239	228	242	255	254	249	243	245	233	235	239	233	230	237	253	277	273	279	251	248	289	225
14	252	236	220	247	205	234	62	199	215	215	241	253	244	233	227	243	251	231	221	251	257	178	155	182	226	257	62
15	167	250	245	228	202	209	235	170	234	250	182	212	240	273	243	202	195	199	250	12	82	62	68	142	212	273	12
16	138	131	95	124	137	148	125	80	230	266	242	227	287	273	209	231	229	290	299	287	283	298	304	292	236	304	80
17	183	251	252	246	247	49	131	228	256	250	227	255	286	279	200	222	226	217	267	349	310	10	70	174	245	349	10
18	163	201	261	261	232	122	118	76	250	256	259	178	175	158	232	208	190	116	157	153	246	42	214	200	194	261	42
19	145	184	227	231	162	217	152	214	189	191	181	198	218	195	202	194	197	194	194	302	149	131	140	152	188	302	131
20	47	165	150	138	207	188	225	132	172	169	167	192	221	217	205	177	205	213	276	320	127	163	295	264	192	320	47
21	251	148	194	177	211	140	93	146	164	178	182	199	217	235	202	208	196	203	153	153	187	197	16	297	187	297	16
22	309	212	159	214	231	206	166	177	181	172	182	217	190	218	189	218	200	156	307	294	309	157	148	142	199	309	142
23	152	108	205	198	185	149	126	175	185	184	183	203	174	183	191	197	184	189	190	178	190	200	200	199	181	205	108
24	209	207	209	203	185	181	116	177	189	194	186	198	195	190	200	181	183	195	194	128	302	336	271	237	197	336	116
25	234	236	206	200	240	239	199	215	110	120	137	254	210	251	268	230	238	178	254	148	210	167	162	158	206	268	110
26	212	244	284	155	201	229	71	171	205	233	262	229	215	247	216	240	239	252	208	246	280	286	274	304	236	304	71
27	283	310	262	246	54	31	298	251	252	262	249	237	240	251	236	246	254	254	245	252	256	258	265	273	261	310	31
28	248	251	253	254	245	250	267	238	236	250	226	227	234	201	133	128	137	122	150	237	249	143	102	82	213	267	82
29	72	87	80	73	95	53	75	81	91	99	110	135	127	115	197	224	239	280	262	243	275	241	245	2	118	280	2
30	66	95	346	219	134	115	92	64	255	250	271	245	260	246	251	239	234	265	256	262	264	146	175	204	229	346	64
Avg	240	227	233	218	202	179	142	160	218	225	223	222	226	226	224	222	220	215	230	254	258	233	252	246	222	--	--
Max	357	310	346	273	260	250	298	251	293	266	285	255	287	279	290	261	261	290	307	349	311	336	304	304	--	357	--
Min	47	87	80	73	54	31	62	31	31	38	32	29	51	68	133	128	137	116	150	12	22	10	16	2	--	--	2

SAROAD for Resolution, East_Plant
Channel: DeltaTemp_C
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.28	0.20	0.24	0.34	0.83	1.14	0.89	-0.21	-0.82	-0.69	-0.94	-1.10	-0.98	-1.17	-1.03	-0.84	-0.55	-0.21	0.01	0.09	0.16	0.41	0.84	1.07	-0.09	1.14	-1.17
2	0.72	1.01	0.61	0.82	0.51	0.84	0.69	-0.16	-0.57	-0.80	-0.99	-0.96	-1.04	-1.19	-1.13	-0.86	-0.69	-0.33	0.00	0.14	0.20	0.19	0.30	0.28	-0.10	1.01	-1.19
3	0.49	0.64	0.77	0.51	0.45	0.44	0.34	-0.34	-0.79	-1.22	-1.64	-1.53	-1.60	-1.16	-1.29	-1.04	-0.84	-0.40	-0.03	0.03	0.12	0.14	0.27	0.45	-0.30	0.77	-1.64
4	0.77	1.08	0.73	0.98	0.64	0.70	0.57	0.01	-0.57	-1.13	-1.44	-1.25	-1.36	-1.45	-1.07	-0.73	-0.39	-0.12	0.00	0.08	0.23	0.66	0.51	0.67	-0.08	1.08	-1.45
5	0.87	0.54	0.57	0.54	0.63	0.77	1.00	-0.12	-0.66	-0.66	-0.95	-1.01	-1.14	-0.99	-1.02	-0.94	-0.64	-0.35	0.03	0.14	0.18	0.15	0.24	0.33	-0.10	1.00	-1.14
6	0.30	0.23	0.29	0.67	0.33	0.73	0.71	-0.17	-0.77	-0.84	-0.78	-1.09	-1.14	-1.35	-1.21	-0.94	-0.66	-0.34	0.04	0.21	0.59	0.45	0.32	0.24	-0.17	0.73	-1.35
7	0.22	0.56	0.97	1.36	1.29	0.97	0.54	-0.28	-0.72	-0.73	-0.87	-1.12	-1.10	-1.08	-1.06	-0.96	-0.51	-0.26	0.01	0.02	0.21	0.67	0.49	0.67	-0.03	1.36	-1.12
8	0.30	0.28	0.24	0.26	0.24	0.28	0.19	-0.18	-0.50	-0.79	-0.96	-0.93	-0.84	-0.77	-0.71	-0.53	-0.47	-0.26	-0.11	-0.08	-0.03	-0.03	-0.10	-0.14	-0.23	0.30	-0.96
9	-0.09	0.06	-0.02	-0.06	-0.07	-0.10	-0.05	-0.09	-0.06	-0.11	-0.20	-0.45	-0.55	-0.35	-0.36	-0.21	-0.29	-0.04	0.07	0.25	0.21	0.14	0.12	0.20	-0.09	0.25	-0.55
10	0.39	0.42	0.56	0.48	0.58	0.40	0.06	-0.56	-0.83	-1.21	-1.56	-1.74	-1.65	-1.18	-0.81	-0.81	-0.65	-0.50	0.05	0.19	0.54	0.52	0.86	0.75	-0.24	0.86	-1.74
11	1.17	0.85	0.65	0.72	0.74	0.74	0.65	-0.30	-0.46	-0.54	-0.64	-0.91	-0.83	-1.03	-0.84	-0.86	-0.69	-0.35	0.00	0.17	0.44	0.65	1.05	0.83	0.05	1.17	-1.03
12	1.23	0.91	0.69	0.89	0.89	1.32	0.51	-0.33	-0.94	-0.91	-1.25	-1.46	-0.92	-0.66	-0.53	-0.42	-0.27	-0.03	0.10	0.22	0.86	0.80	0.65	0.80	0.09	1.32	-1.46
13	1.00	1.24	0.80	1.12	1.34	1.08	0.87	-0.11	-0.61	-0.54	-0.62	-0.71	-0.95	-1.02	-1.05	-0.79	-0.63	-0.33	0.02	0.08	0.21	0.15	0.19	0.13	0.04	1.34	-1.05
14	0.19	0.26	0.26	0.23	0.20	0.20	0.26	-0.16	-0.46	-0.70	-0.80	-0.99	-0.95	-0.95	-0.95	-0.75	-0.65	-0.29	0.00	0.10	0.13	0.14	0.14	0.12	-0.23	0.26	-0.99
15	0.10	0.13	0.26	0.48	0.41	0.30	0.14	-0.19	-0.52	-0.75	-0.85	-1.01	-1.04	-1.07	-0.89	-0.73	-0.56	-0.32	-0.02	0.08	0.14	0.12	0.13	0.21	-0.23	0.48	-1.07
16	0.24	0.28	0.27	0.26	0.42	0.26	0.17	-0.18	-0.55	-0.72	-0.92	-1.14	-1.12	-1.12	-0.86	-0.73	-0.56	-0.30	-0.05	0.03	0.07	0.07	0.05	0.02	-0.25	0.42	-1.14
17	0.10	0.14	0.12	0.12	0.16	0.04	-0.11	-0.25	-0.38	-0.76	-0.67	-0.70	-0.59	-0.64	-0.79	-0.79	-0.63	-0.39	-0.05	0.10	0.24	0.16	0.25	0.32	-0.21	0.32	-0.79
18	0.35	0.29	0.30	0.26	0.24	0.24	-0.10	-0.57	-0.94	-1.41	-1.85	-2.07	-1.84	-1.71	-1.58	-1.60	-1.25	-0.73	0.08	0.53	0.48	0.43	0.53	0.35	-0.48	0.53	-2.07
19	0.27	0.24	0.25	0.28	0.30	0.33	0.04	-0.39	-0.81	-1.28	-1.68	-1.85	-1.61	-1.41	-1.46	-1.15	-0.90	-0.52	-0.01	0.10	0.15	0.40	0.29	0.26	-0.42	0.40	-1.85
20	0.23	0.28	0.24	1.07	0.85	1.45	1.01	-0.07	-0.41	-0.71	-0.60	-0.82	-1.26	-1.10	-1.16	-0.95	-0.61	-0.36	-0.01	0.22	0.36	0.29	0.67	0.69	-0.03	1.45	-1.26
21	0.74	0.78	1.29	0.98	1.00	0.83	0.39	-0.38	-1.05	-1.52	-1.21	-1.13	-1.19	-1.09	-1.08	-0.98	-0.74	-0.37	0.03	0.24	0.93	1.05	1.04	1.16	-0.01	1.29	-1.52
22	1.26	0.83	1.25	1.37	1.14	1.25	0.74	-0.27	-0.89	-0.76	-0.95	-1.30	-1.24	-1.31	-1.07	-1.01	-0.75	-0.37	0.03	0.18	0.26	0.67	1.01	0.85	0.04	1.37	-1.31
23	0.39	0.58	0.48	0.46	0.68	0.94	0.45	-0.11	-0.45	-0.65	-1.00	-1.05	-1.26	-1.26	-1.21	-1.00	-0.76	-0.43	-0.03	0.14	0.18	0.76	1.00	0.69	-0.10	1.00	-1.26
24	0.51	0.63	1.02	0.87	0.82	0.61	0.25	-0.29	-0.74	-1.14	-1.19	-1.31	-1.32	-1.13	-0.89	-0.66	-0.47	-0.19	-0.01	0.21	0.46	0.69	1.04	0.39	-0.08	1.04	-1.32
25	0.07	0.09	0.26	0.44	0.67	0.81	0.61	-0.22	-0.63	-0.95	-1.07	-1.00	-1.13	-1.02	-0.97	-0.82	-0.71	-0.45	-0.11	0.07	0.08	0.32	0.23	0.38	-0.21	0.81	-1.13
26	0.76	0.88	0.64	0.71	0.84	0.83	0.50	-0.56	-1.17	-1.65	-1.05	-1.09	-1.27	-1.30	-1.32	-1.05	-0.77	-0.49	-0.07	0.08	0.14	0.34	0.16	0.18	-0.24	0.88	-1.65
27	0.22	1.20	1.04	0.88	0.91	0.70	0.14	-0.47	-0.53	-1.05	-1.78	-1.92	-1.45	-1.13	-1.09	-1.05	-0.85	-0.41	-0.05	0.10	0.29	0.30	0.59	0.97	-0.18	1.20	-1.92
28	1.34	1.11	1.14	0.87	0.87	1.03	0.28	-0.36	-1.00	-1.23	-2.01	-1.66	-1.58	-1.34	-1.31	-1.09	-1.01	-0.46	0.06	0.30	0.27	0.34	0.81	0.45	-0.17	1.34	-2.01
29	0.42	0.34	0.23	0.25	0.60	0.95	0.95	-0.14	-0.58	-0.56	-0.88	-1.28	-1.28	-1.32	-1.12	-1.06	-0.70	-0.37	0.02	0.21	0.32	0.61	0.27	0.22	-0.16	0.95	-1.32
30	0.26	0.33	0.29	0.67	0.43	0.75	0.35	-0.47	-0.76	-1.03	-1.15	-1.24	-1.09	-1.10	-1.02	-0.95	-0.67	-0.39	-0.03	0.09	0.18	0.21	0.27	0.23	-0.24	0.75	-1.24
Avg	0.50	0.55	0.55	0.63	0.63	0.69	0.44	-0.26	-0.67	-0.90	-1.08	-1.19	-1.18	-1.11	-1.03	-0.88	-0.66	-0.35	0.00	0.14	0.29	0.39	0.47	0.46	-0.15	--	--
Max	1.34	1.24	1.29	1.37	1.34	1.45	1.01	0.01	-0.06	-0.11	-0.20	-0.45	-0.55	-0.35	-0.36	-0.21	-0.27	-0.03	0.10	0.53	0.93	1.05	1.05	1.16	--	1.45	--
Min	-0.09	0.06	-0.02	-0.06	-0.07	-0.10	-0.11	-0.57	-1.17	-1.65	-2.01	-2.07	-1.84	-1.71	-1.58	-1.60	-1.25	-0.73	-0.11	-0.08	-0.03	-0.03	-0.10	-0.14	--	--	-2.07

SAROAD for Resolution, East_Plant
Channel: DeltaTemp_C
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.20	0.19	0.28	0.17	0.27	0.42	0.46	-0.60	-0.79	-0.91	-1.00	-1.30	-1.30	-1.53	-1.20	-1.10	-0.83	-0.45	-0.09	0.08	0.07	0.12	0.09	0.22	-0.36	0.46	-1.53
2	0.35	0.15	0.11	0.08	0.08	0.09	-0.17	-0.48	-0.73	-1.01	-1.29	-1.48	-1.61	-1.70	-1.66	-1.51	-1.11	-0.71	0.14	0.51	0.37	0.19	0.18	0.16	-0.46	0.51	-1.70
3	0.14	0.12	0.14	0.11	0.09	0.08	-0.22	-0.61	-0.92	-1.18	-1.41	-1.46	-1.28	-1.40	-1.43	-1.26	-0.82	-0.37	0.12	0.32	0.37	0.41	0.52	0.52	-0.39	0.52	-1.46
4	0.50	0.57	0.47	0.34	0.26	0.22	0.09	-0.46	-1.08	-1.24	-1.14	-1.21	-1.24	-1.34	-1.11	-1.06	-0.70	-0.37	0.00	0.16	0.22	0.15	0.21	0.15	-0.32	0.57	-1.34
5	0.20	0.26	0.60	0.92	0.52	0.36	0.27	-0.33	-0.73	-1.10	-1.24	-1.38	-1.13	-0.94	-1.08	-0.93	-0.72	-0.35	-0.04	0.08	0.05	-0.01	0.03	-0.02	-0.28	0.92	-1.38
6	-0.04	0.33	0.33	0.18	0.17	0.25	-0.16	-0.71	-0.96	-1.17	-1.24	-0.90	-0.94	-1.24	-0.83	-0.91	-0.74	-0.45	-0.09	0.11	0.10	0.09	0.16	0.20	-0.35	0.33	-1.24
7	0.16	0.25	0.26	0.24	0.22	0.17	-0.04	-0.48	-0.86	-1.14	-1.32	-1.55	-1.52	-1.35	-1.11	-0.95	-0.80	-0.45	-0.14	-0.01	0.01	-0.02	-0.01	-0.01	-0.43	0.26	-1.55
8	0.00	0.11	0.12	0.18	0.27	0.27	-0.45	-0.63	-0.42	-0.76	-0.86	-1.39	-1.48	-1.39	-1.00	-1.09	-0.72	-0.48	-0.20	0.00	0.02	0.06	0.14	0.41	-0.39	0.41	-1.48
9	0.17	0.47	0.41	0.47	0.49	0.57	-0.02	-0.68	-0.51	-0.67	-0.97	-1.07	-1.34	-1.60	-1.31	-1.38	-0.98	-0.62	-0.19	0.02	0.08	0.42	0.79	0.66	-0.28	0.79	-1.60
10	0.50	0.65	0.52	0.53	0.43	0.40	-0.16	-0.73	-1.29	-0.84	-0.90	-1.21	-1.32	-1.21	-1.37	-1.05	-0.67	-0.77	-0.12	0.10	0.17	0.00	0.13	0.28	-0.33	0.65	-1.37
11	0.34	0.40	0.24	0.23	0.32	0.11	-0.31	-0.73	-1.00	-1.26	-1.17	-1.19	-1.29	-1.66	-1.63	-1.35	-1.25	-0.51	-0.10	0.20	0.44	0.48	0.50	0.53	-0.40	0.53	-1.66
12	0.76	0.69	0.45	0.49	0.38	0.29	-0.07	-0.47	-0.85	-1.44	-1.99	-2.17	-2.20	-2.27	-1.68	-1.37	-1.21	-0.63	-0.28	0.28	0.74	1.05	0.70	1.15	-0.40	1.15	-2.27
13	0.83	0.60	0.71	0.68	0.38	0.61	-0.06	-0.72	-1.31	-1.66	-2.05	-2.23	-2.09	-1.62	-1.71	-1.43	-0.69	-0.46	0.03	0.30	0.66	0.84	0.85	0.83	-0.36	0.85	-2.23
14	0.69	0.82	0.73	0.64	0.87	0.82	0.04	-0.40	-0.68	-0.68	-0.88	-0.85	-1.18	-1.15	-1.32	-0.91	-0.67	-0.48	-0.13	0.01	0.10	0.21	0.16	0.10	-0.17	0.87	-1.32
15	0.18	0.24	0.21	0.33	0.45	0.63	0.09	-0.55	-0.68	-0.77	-1.28	-1.33	-1.31	-1.14	-1.13	-0.92	-0.69	-0.50	-0.10	0.05	0.04	0.24	0.19	0.29	-0.31	0.63	-1.33
16	0.40	0.48	0.56	0.64	0.58	0.87	0.14	-0.46	-0.59	-0.88	-1.21	-1.24	-1.31	-1.26	-1.20	-1.04	-0.76	-0.46	-0.09	0.11	0.21	0.27	0.29	0.46	-0.23	0.87	-1.31
17	0.52	0.73	0.53	0.89	1.03	0.81	0.33	0.06	-0.73	-0.91	-1.07	-1.22	-1.26	-1.29	-1.05	-0.93	-0.48	-0.28	-0.08	0.02	0.09	0.14	0.23	0.23	-0.15	1.03	-1.29
18	0.19	0.23	0.22	0.36	0.23	0.30	0.04	-0.39	-0.55	-0.79	-1.23	-1.15	-1.31	-1.26	-1.19	-0.98	-0.79	-0.52	-0.16	0.02	0.01	0.05	0.08	0.22	-0.35	0.36	-1.31
19	0.15	0.23	0.32	0.55	0.75	0.74	-0.06	-0.57	-0.55	-0.84	-1.18	-1.26	-1.30	-1.23	-1.25	-1.04	-0.76	-0.50	-0.18	0.05	0.12	0.27	0.16	0.18	-0.30	0.75	-1.30
20	0.29	0.35	0.32	0.28	0.65	0.63	-0.05	-0.62	-0.59	-0.80	-1.03	-1.10	-1.15	-1.08	-0.91	-0.79	-0.60	-0.42	-0.14	0.07	0.12	0.21	0.16	0.57	-0.23	0.65	-1.15
21	0.67	0.47	0.55	0.60	0.37	0.27	-0.12	-0.78	-1.48	-1.46	-1.22	-1.35	-1.50	-1.41	-1.33	-1.08	-0.85	-0.57	-0.12	0.08	0.26	0.39	0.84	0.65	-0.34	0.84	-1.50
22	0.86	1.09	0.81	1.07	1.16	1.14	0.11	-0.57	-1.02	-1.10	-1.29	-1.46	-1.35	-1.34	-1.20	-1.10	-0.81	-0.50	-0.12	0.12	0.20	0.16	0.22	0.33	-0.19	1.16	-1.46
23	0.25	0.33	0.22	0.44	0.67	0.55	0.25	-0.35	-0.73	-1.02	-0.98	-1.03	-1.40	-1.39	-1.37	-1.00	-0.80	-0.47	-0.13	0.11	0.14	0.16	0.21	0.24	-0.30	0.67	-1.40
24	0.25	0.29	0.30	0.26	0.51	0.55	-0.09	-0.89	-1.06	-1.22	-1.52	-1.47	-1.40	-1.30	-1.26	-1.14	-0.83	-0.54	-0.15	0.16	0.16	0.26	0.34	0.13	-0.40	0.55	-1.52
25	0.36	0.73	0.82	0.86	0.43	0.63	0.14	-0.85	-0.87	-1.01	-1.36	-1.41	-1.37	-1.30	-1.32	-1.06	-0.84	-0.59	-0.11	0.19	0.24	0.31	0.26	0.43	-0.28	0.86	-1.41
26	0.52	0.34	0.29	0.83	0.54	0.56	0.08	-0.30	-0.67	-0.83	-1.11	-1.22	-1.18	-1.12	-0.92	-0.80	-0.86	-0.59	-0.16	0.18	0.18	0.40	0.42	0.40	-0.21	0.83	-1.22
27	0.49	0.62	0.79	0.91	0.84	0.75	0.49	-0.38	-1.03	-0.93	-1.15	-1.36	-1.27	-1.01	-0.97	-1.09	-0.81	-0.58	-0.21	0.05	0.14	0.28	0.39	0.14	-0.20	0.91	-1.36
28	0.42	0.70	0.71	0.83	0.75	0.82	0.27	-0.68	-0.52	-0.70	-0.95	-1.22	-1.15	-1.25	-1.26	-1.02	-0.79	-0.50	-0.17	0.05	0.07	0.10	0.25	0.20	-0.21	0.83	-1.26
29	0.22	0.31	0.57	0.57	0.61	0.55	-0.14	-0.42	-0.86	-0.99	-1.15	-1.17	-1.16	-1.22	-1.22	-1.03	-0.83	-0.55	-0.22	0.02	0.06	0.15	0.18	0.25	-0.31	0.61	-1.22
30	0.21	0.21	0.21	0.27	0.49	0.29	-0.08	-0.52	-0.87	-1.08	-1.25	-1.42	-1.37	-1.25	-1.25	-1.25	-0.88	-0.62	-0.21	0.03	0.11	0.16	0.07	0.06	-0.41	0.49	-1.42
31	0.09	0.28	0.54	0.57	0.28	0.60	-0.19	-0.85	-0.59	-0.76	-1.26	-1.54	-1.39	-1.30	-1.53	-1.27	-1.02	-0.67	-0.25	0.05	0.07	0.12	0.23	0.21	-0.40	0.60	-1.54
Avg	0.35	0.43	0.43	0.50	0.49	0.49	0.01	-0.55	-0.82	-1.01	-1.22	-1.33	-1.36	-1.34	-1.25	-1.09	-0.82	-0.52	-0.12	0.11	0.18	0.25	0.29	0.33	-0.32	--	--
Max	0.86	1.09	0.82	1.07	1.16	1.14	0.49	0.06	-0.42	-0.67	-0.86	-0.85	-0.94	-0.94	-0.83	-0.79	-0.48	-0.28	0.14	0.51	0.74	1.05	0.85	1.15	--	1.16	--
Min	-0.04	0.11	0.11	0.08	0.08	0.08	-0.45	-0.89	-1.48	-1.66	-2.05	-2.23	-2.20	-2.27	-1.71	-1.51	-1.25	-0.77	-0.28	-0.01	0.01	-0.02	-0.01	-0.02	--	--	-2.27

SAROAD for Resolution, East_Plant
Channel: DeltaTemp_C
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.13	0.18	0.19	0.44	0.93	0.98	-0.07	-0.59	-1.07	-1.40	-1.80	-2.06	-1.97	-1.67	-1.28	-0.72	-0.86	-0.53	-0.21	0.03	0.24	0.50	0.62	0.38	-0.40	0.98	-2.06
2	0.85	0.76	1.02	0.68	0.91	0.66	0.53	-0.69	-0.87	-0.87	-1.30	-1.52	-1.43	-1.27	-1.16	-1.12	-0.90	-0.58	-0.17	0.11	0.13	0.15	0.11	0.13	-0.24	1.02	-1.52
3	0.35	0.78	0.86	0.62	0.77	1.07	0.21	-0.35	-0.74	-0.86	-1.17	-1.18	-1.29	-1.32	-1.18	-1.06	-0.84	-0.60	-0.16	0.17	0.37	0.66	0.76	0.40	-0.16	1.07	-1.32
4	0.59	0.94	1.21	0.61	0.87	0.59	0.14	-0.64	-0.90	-0.85	-1.24	-1.28	-1.32	-1.38	-1.23	-1.10	-0.83	-0.59	-0.22	0.10	0.31	0.55	0.34	0.09	-0.22	1.21	-1.38
5	0.15	0.46	0.78	0.89	0.42	0.70	-0.02	-0.40	-0.61	-0.71	-1.02	-1.29	-1.32	-1.57	-1.34	-1.32	-1.03	-0.68	-0.24	0.11	0.20	0.46	1.14	0.66	-0.23	1.14	-1.57
6	0.61	0.24	0.23	0.44	0.81	0.84	0.23	-0.46	-0.68	-0.80	-0.98	-1.23	-1.35	-1.21	-1.10	-1.21	-0.82	-0.54	-0.21	0.06	0.12	0.18	0.23	0.20	-0.27	0.84	-1.35
7	0.18	0.11	0.09	0.12	0.15	0.38	0.13	-0.75	-0.97	-1.18	-0.86	-1.26	-1.50	-1.50	-1.16	-1.20	-0.87	-0.54	-0.20	0.07	0.09	0.10	0.11	0.07	-0.43	0.38	-1.50
8	0.05	0.06	0.09	0.08	0.20	0.41	0.02	-0.34	-0.58	-0.90	-1.00	-1.07	-1.14	-1.22	-0.93	-0.88	-0.69	-0.43	-0.20	0.04	0.06	0.07	0.06	0.10	-0.34	0.41	-1.22
9	0.09	0.10	0.21	0.28	0.52	0.31	0.04	-0.37	-0.50	-0.86	-1.03	-1.12	-1.16	-1.08	-1.20	-0.98	-0.74	-0.55	-0.24	0.04	0.07	0.06	0.12	0.22	-0.32	0.52	-1.20
10	0.53	0.87	0.75	0.72	0.76	0.78	0.20	-0.54	-0.46	-0.53	-0.93	-1.23	-1.25	-1.34	-1.40	-1.09	-0.97	-0.64	-0.24	0.25	0.35	0.82	0.60	0.35	-0.15	0.87	-1.40
11	0.43	0.41	0.99	0.27	0.67	0.75	0.30	-0.62	-0.59	-0.57	-1.08	-1.24	-1.39	-1.24	-1.38	-1.17	-0.92	-0.61	-0.21	0.03	0.06	0.14	0.21	0.23	-0.27	0.99	-1.39
12	0.16	0.30	0.50	1.07	0.94	0.76	0.74	-0.13	-0.36	-0.60	-0.91	-1.14	-1.21	-1.21	-0.93	-0.95	-0.58	-0.36	-0.24	0.01	0.10	0.14	0.09	0.09	-0.16	1.07	-1.21
13	0.29	0.23	0.15	0.08	0.07	0.08	-0.07	-0.33	-0.46	-0.73	-1.17	-1.10	-1.18	-1.15	-0.87	-0.55	-0.77	-0.56	-0.28	0.00	0.07	0.07	0.06	0.13	-0.33	0.29	-1.18
14	0.14	0.08	0.12	0.22	0.66	0.49	-0.16	-0.46	-0.71	-0.95	-1.12	-1.11	-1.45	-1.45	-1.38	-1.09	-0.89	-0.61	-0.29	0.03	0.08	0.32	0.61	0.56	-0.35	0.66	-1.45
15	0.85	0.26	0.34	0.39	0.68	0.66	0.06	-0.38	-0.69	-0.86	-1.28	-1.44	-1.25	-1.19	-1.16	-1.08	-0.89	-0.57	-0.34	-0.10	-0.01	0.09	0.16	0.46	-0.30	0.85	-1.44
16	0.39	0.91	0.41	0.86	0.85	0.57	-0.08	-0.75	-0.61	-0.81	-1.14	-1.53	-1.24	-1.29	-1.28	-1.12	-0.95	-0.65	-0.28	0.01	0.08	0.18	0.26	0.40	-0.28	0.91	-1.53
17	0.68	0.31	0.35	0.38	0.73	0.83	-0.03	-0.28	-0.40	-0.68	-1.13	-1.25	-1.48	-1.38	-1.45	-1.14	-1.03	-0.78	-0.28	0.09	0.29	0.83	1.03	0.55	-0.22	1.03	-1.48
18	0.65	0.61	0.40	0.69	0.81	0.60	0.02	-0.70	-0.57	-0.68	-0.78	-1.58	-1.62	-1.58	-1.13	-1.01	-0.91	-0.62	-0.22	0.19	0.24	0.67	0.76	0.95	-0.20	0.95	-1.62
19	0.86	0.90	0.80	0.87	0.94	1.03	0.34	-0.36	-0.78	-1.12	-1.44	-1.32	-1.18	-1.29	-1.42	-1.15	-0.90	-0.70	-0.25	0.17	0.52	1.05	0.98	0.48	-0.12	1.05	-1.44
20	0.95	0.89	1.05	0.99	1.25	1.15	0.06	-0.63	-0.87	-1.15	-1.48	-1.54	-1.32	-1.24	-1.26	-1.10	-0.83	-0.59	-0.32	0.22	0.55	1.10	1.18	0.30	-0.11	1.25	-1.54
21	0.53	0.69	0.93	0.83	0.96	0.83	-0.01	-0.56	-0.92	-1.04	-1.37	-1.25	-1.21	-1.14	-1.11	-0.97	-0.85	-0.62	-0.20	0.14	0.27	0.24	0.37	0.47	-0.21	0.96	-1.37
22	0.82	0.62	1.08	0.97	0.92	1.06	0.47	-0.29	-0.70	-1.08	-1.20	-1.13	-1.20	-1.24	-1.31	-0.89	-0.76	-0.63	-0.27	0.10	0.56	0.72	0.82	0.79	-0.08	1.08	-1.31
23	0.99	1.04	0.81	0.75	0.97	0.58	0.10	-0.34	-0.72	-1.12	-1.17	-1.30	-1.44	-1.69	-1.33	-1.20	-0.86	-0.42	-0.31	0.04	0.16	0.18	0.17	0.20	-0.24	1.04	-1.69
24	0.19	0.33	0.35	0.45	0.43	0.40	-0.14	-0.41	-0.79	-1.14	-1.26	-1.22	-1.26	-1.41	-1.23	-1.19	-0.81	-0.60	-0.29	0.08	0.15	0.23	0.14	0.25	-0.36	0.45	-1.41
25	0.27	0.31	0.58	0.60	0.48	0.55	0.01	-0.42	-1.04	-1.18	-1.48	-1.24	-1.62	-1.29	-1.36	-1.29	-0.96	-0.73	-0.33	0.14	0.62	0.64	0.85	0.80	-0.30	0.85	-1.62
26	0.99	0.29	0.73	1.14	1.07	0.74	-0.03	-0.52	-0.74	-1.05	-1.15	-1.49	-1.48	-1.43	-1.46	-1.14	-0.99	-0.76	-0.32	0.05	0.19	0.39	0.37	0.65	-0.25	1.14	-1.49
27	0.23	0.45	0.20	0.43	0.67	1.17	0.13	-0.19	-0.38	-0.55	-0.79	-0.97	-1.08	-1.08	-0.91	-0.93	-0.74	-0.51	-0.24	-0.01	0.06	0.11	0.11	0.14	-0.19	1.17	-1.08
28	0.16	0.15	0.17	0.31	0.36	0.50	0.13	-0.30	-0.66	-0.51	-1.13	-1.05	-1.30	-1.51	-1.39	-1.12	-0.82	-0.64	-0.16	0.47	0.66	0.66	0.74	0.49	-0.24	0.74	-1.51
29	0.70	0.74	0.71	0.83	0.47	0.66	0.26	-0.47	-0.76	-1.04	-1.43	-1.58	-1.73	-1.77	-1.04	-0.94	-0.76	-0.57	-0.20	0.03	0.19	0.25	0.28	0.58	-0.27	0.83	-1.77
30	0.37	0.38	0.48	0.67	0.69	0.59	0.19	-0.16	-0.56	-0.80	-0.91	-1.24	-1.38	-1.35	-1.10	-0.75	-0.45	-0.27	-0.15	-0.02	0.00	0.60	0.17	0.02	-0.21	0.69	-1.38
Avg	0.47	0.48	0.55	0.59	0.70	0.69	0.12	-0.45	-0.69	-0.89	-1.16	-1.30	-1.36	-1.35	-1.22	-1.05	-0.84	-0.58	-0.24	0.09	0.23	0.41	0.45	0.37	-0.25	--	--
Max	0.99	1.04	1.21	1.14	1.25	1.17	0.74	-0.13	-0.36	-0.51	-0.78	-0.97	-1.08	-1.08	-0.87	-0.55	-0.45	-0.27	-0.15	0.47	0.66	1.10	1.18	0.95	--	1.25	--
Min	0.05	0.06	0.09	0.08	0.07	0.08	-0.16	-0.75	-1.07	-1.40	-1.80	-2.06	-1.97	-1.77	-1.46	-1.32	-1.03	-0.78	-0.34	-0.10	-0.01	0.06	0.06	0.02	--	--	-2.06

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.9	16.3	15.9	15.5	14.5	12.7	12.7	13.4	16.1	16.9	18.2	19.0	19.0	19.8	20.1	20.1	19.8	19.0	18.1	17.2	16.2	15.5	14.3	13.3	16.7	20.1	12.7
2	13.6	12.0	11.4	11.0	10.3	9.8	9.7	11.4	13.8	14.6	16.0	16.9	17.5	18.2	18.6	18.7	18.7	18.2	17.5	16.8	16.3	15.8	15.4	15.2	14.9	18.7	9.7
3	14.8	13.6	12.0	11.9	11.0	11.4	12.6	14.5	15.6	16.9	18.4	19.3	20.2	20.9	21.3	21.7	21.5	20.6	19.2	18.5	18.2	18.1	18.0	17.5	17.0	21.7	11.0
4	15.2	13.9	13.9	13.7	14.4	14.1	12.9	15.1	17.7	20.1	21.9	22.5	23.4	24.2	24.1	24.0	23.6	22.7	21.9	21.1	20.6	19.3	19.8	19.6	19.2	24.2	12.9
5	17.6	17.5	17.1	16.7	16.0	15.7	14.5	15.8	18.7	19.6	20.6	21.3	22.1	22.2	22.5	22.6	22.4	21.8	20.8	19.8	18.8	18.3	17.9	17.7	19.1	22.6	14.5
6	17.2	16.5	16.2	15.4	15.6	14.3	13.5	14.6	17.0	18.3	18.7	20.0	21.0	21.7	22.0	21.8	21.5	20.9	20.1	19.5	17.6	18.4	18.7	18.5	18.3	22.0	13.5
7	18.4	17.4	15.2	14.9	14.5	12.8	12.7	14.5	17.5	18.8	19.4	20.5	21.4	21.8	22.0	22.4	21.6	21.0	20.1	19.7	19.2	17.8	16.9	17.6	18.3	22.4	12.7
8	17.5	16.7	15.9	15.5	15.4	14.8	14.7	14.8	15.7	17.0	18.2	19.4	19.6	19.9	19.9	19.1	18.2	17.3	16.1	15.2	12.8	7.8	4.6	3.4	15.4	19.9	3.4
9	4.3	5.0	4.8	4.8	4.8	4.3	4.3	4.1	4.3	5.0	5.7	7.4	8.9	9.6	10.3	10.7	11.4	11.1	10.9	10.7	11.0	11.2	10.4	8.6	7.7	11.4	4.1
10	7.1	6.6	5.9	5.0	4.5	4.5	4.7	7.2	8.5	9.6	11.1	12.1	12.7	12.8	12.8	13.5	13.9	14.0	13.2	12.6	10.2	10.8	9.3	9.2	9.7	14.0	4.5
11	8.6	8.3	8.2	8.1	7.7	7.9	8.0	9.6	12.3	13.4	14.3	15.7	16.6	17.7	18.0	18.6	18.8	18.4	17.4	16.5	15.6	14.0	12.8	13.8	13.3	18.8	7.7
12	11.5	12.4	11.9	10.7	10.8	10.1	10.8	13.4	16.7	17.6	18.9	20.2	20.3	20.4	20.0	19.9	19.7	19.2	18.7	18.0	16.7	16.2	15.1	15.0	16.0	20.4	10.1
13	14.1	14.4	15.9	14.3	14.5	14.2	14.2	14.6	17.0	18.4	19.0	19.9	21.0	21.5	22.2	22.0	22.0	21.6	20.8	20.0	19.2	18.5	17.7	17.2	18.1	22.2	14.1
14	15.9	15.1	15.3	14.8	14.5	14.3	14.2	15.0	15.8	17.3	18.5	19.6	20.6	21.3	22.0	22.1	22.3	21.8	20.8	19.7	18.5	17.5	16.5	15.6	17.9	22.3	14.2
15	14.5	13.8	13.9	13.4	13.1	13.1	13.2	14.1	15.1	16.2	17.3	18.6	19.7	21.0	21.6	22.1	22.0	21.6	20.3	19.2	18.2	17.3	16.6	15.5	17.1	22.1	13.1
16	14.7	14.1	13.6	13.3	12.8	13.0	13.2	14.0	14.8	15.6	16.9	18.0	19.2	20.0	20.3	20.3	20.0	19.5	18.4	16.6	15.3	14.2	13.0	12.1	16.0	20.3	12.1
17	11.4	10.7	10.1	9.3	8.6	8.4	8.1	7.9	7.5	8.8	9.5	10.5	11.1	11.6	12.4	12.9	13.4	13.1	12.4	11.4	10.7	10.5	9.8	8.2	10.3	13.4	7.5
18	7.6	7.8	7.4	6.9	5.8	5.1	5.5	6.8	8.0	9.5	10.9	12.4	13.1	14.3	15.0	15.8	16.0	15.2	14.1	13.1	11.0	10.8	9.0	8.5	10.4	16.0	5.1
19	9.1	8.7	8.1	8.1	8.2	8.4	9.3	10.5	12.1	13.8	15.6	17.3	18.0	18.8	19.9	20.2	20.0	19.6	18.3	16.8	16.2	15.6	15.4	15.4	14.3	20.2	8.1
20	15.2	15.2	15.2	13.3	11.8	10.4	11.2	13.6	16.6	17.9	18.5	19.9	21.2	21.6	22.2	22.3	21.9	21.4	20.8	20.0	19.3	18.9	18.3	17.6	17.7	22.3	10.4
21	17.1	15.8	14.6	14.1	13.6	12.2	13.1	16.5	19.3	21.0	22.1	22.7	23.6	24.3	24.6	24.5	24.2	23.7	22.8	22.0	20.5	19.0	18.5	18.0	19.5	24.6	12.2
22	17.3	17.7	16.9	16.0	14.5	14.7	14.2	17.2	19.9	21.2	21.9	23.4	24.1	24.9	25.0	25.0	24.8	24.5	23.6	22.7	22.1	20.6	19.2	20.0	20.5	25.0	14.2
23	19.6	18.5	17.5	16.9	16.2	15.8	16.7	17.6	18.4	19.6	21.0	21.7	22.7	23.4	23.6	23.8	23.5	22.9	22.0	21.2	20.9	19.1	19.7	20.1	20.1	23.8	15.8
24	20.1	17.0	15.5	15.5	14.7	15.0	15.3	16.6	19.0	21.1	22.3	23.5	24.0	24.3	24.3	24.1	23.8	23.2	22.6	22.0	21.4	20.2	19.6	19.7	20.2	24.3	14.7
25	18.7	18.0	17.7	17.6	17.4	17.1	17.1	18.3	19.3	20.2	21.1	20.3	19.8	19.6	19.9	19.9	19.8	19.0	17.7	16.8	16.4	15.4	15.6	15.3	18.3	21.1	15.3
26	13.7	12.7	12.6	11.4	11.4	11.5	12.1	14.9	18.2	20.0	20.6	21.5	22.5	23.4	23.9	23.9	23.7	23.3	22.3	21.4	20.8	20.4	20.8	20.5	18.7	23.9	11.4
27	20.3	18.5	18.4	17.4	15.6	15.0	16.3	20.0	21.6	23.5	25.4	26.4	26.3	26.3	26.7	26.7	26.6	25.8	24.6	23.7	23.2	23.1	22.5	20.3	22.3	26.7	15.0
28	19.7	18.7	18.1	17.5	17.1	17.1	17.6	20.4	24.0	24.9	27.0	27.6	28.1	28.2	28.3	28.2	28.2	27.3	26.1	24.9	24.6	24.5	23.8	24.0	23.6	28.3	17.1
29	24.1	24.0	23.8	23.3	21.0	19.2	19.6	21.3	24.3	24.6	25.8	27.6	28.5	28.9	29.1	29.4	28.9	28.4	27.4	26.5	25.9	25.4	25.3	24.2	25.3	29.4	19.2
30	23.4	22.7	22.2	21.0	21.1	20.2	19.5	21.1	23.1	24.2	25.3	26.8	27.2	27.6	27.9	28.3	27.9	27.5	26.6	25.6	24.1	22.9	22.0	21.2	24.1	28.3	19.5
Avg	15.3	14.6	14.2	13.6	13.0	12.6	12.7	14.3	16.3	17.5	18.7	19.7	20.4	21.0	21.4	21.5	21.3	20.8	19.8	19.0	18.1	17.2	16.6	16.1	17.3	--	--
Max	24.1	24.0	23.8	23.3	21.1	20.2	19.6	21.3	24.3	24.9	27.0	27.6	28.5	28.9	29.1	29.4	28.9	28.4	27.4	26.5	25.9	25.4	25.3	24.2	--	29.4	--
Min	4.3	5.0	4.8	4.8	4.5	4.3	4.3	4.1	4.3	5.0	5.7	7.4	8.9	9.6	10.3	10.7	11.4	11.1	10.9	10.7	10.2	7.8	4.6	3.4	--	--	3.4

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	20.0	19.6	19.2	18.8	18.3	17.0	15.9	18.7	20.4	21.2	22.2	23.2	24.2	25.1	25.2	25.5	25.4	24.8	23.8	23.0	22.5	22.4	22.4	22.2	21.7	25.5	15.9
2	19.8	17.3	15.7	14.8	14.0	13.6	13.6	14.1	15.1	16.6	18.4	20.1	21.9	23.5	24.6	25.3	25.3	25.0	23.3	21.6	21.0	19.4	18.2	17.0	19.1	25.3	13.6
3	15.7	14.6	14.0	12.7	11.7	11.0	11.2	12.2	13.5	15.3	17.7	19.3	20.1	21.6	22.9	23.4	23.0	22.7	21.9	20.1	19.3	18.7	18.2	17.3	17.4	23.4	11.0
4	17.0	15.8	15.6	15.7	15.5	15.3	15.5	17.0	19.4	21.4	22.3	24.1	25.2	25.9	25.9	26.5	26.1	25.8	24.8	23.9	23.2	21.9	20.5	19.7	21.0	26.5	15.3
5	18.9	18.1	17.0	16.3	17.0	16.9	17.0	18.3	19.4	20.8	21.9	22.8	23.2	23.5	24.2	24.2	24.3	23.7	22.6	21.5	19.9	19.1	17.3	16.4	20.2	24.3	16.3
6	15.9	12.9	12.7	12.2	11.2	10.9	11.5	13.2	15.0	16.5	17.9	18.3	19.1	20.2	20.3	21.0	21.1	20.8	20.4	19.8	19.1	17.7	16.6	15.8	16.7	21.1	10.9
7	14.7	14.0	13.5	13.3	13.1	13.0	13.3	14.1	15.5	17.0	18.1	19.4	19.9	20.4	20.8	20.8	20.7	19.7	18.8	17.6	16.6	15.8	14.9	14.4	16.7	20.8	13.0
8	14.1	13.4	12.5	11.6	10.6	10.1	11.1	12.6	13.2	14.6	15.8	17.5	18.4	19.2	19.0	19.2	18.7	18.1	17.7	17.1	16.9	16.7	16.4	15.7	15.4	19.2	10.1
9	15.8	14.3	14.2	13.4	12.8	12.3	12.5	14.7	15.4	16.6	18.5	19.8	20.6	21.2	21.4	22.0	21.5	21.0	20.0	19.2	18.8	18.0	16.7	17.0	17.4	22.0	12.3
10	14.7	14.9	14.7	14.4	14.0	13.7	14.9	17.7	19.8	20.2	21.1	22.3	23.0	23.5	24.3	24.2	22.8	23.6	22.9	21.8	21.0	19.9	18.5	18.0	19.4	24.3	13.7
11	17.3	17.1	16.6	15.9	15.7	15.6	16.6	18.0	20.3	21.2	22.0	22.9	23.9	25.1	25.6	25.9	25.9	25.0	23.9	22.5	20.8	20.1	20.0	19.5	20.7	25.9	15.6
12	18.6	17.9	17.1	16.7	15.9	15.9	18.0	20.0	21.3	22.9	24.6	25.6	26.9	27.9	27.8	27.9	27.9	27.5	26.8	25.2	24.1	22.0	21.1	20.4	22.5	27.9	15.9
13	19.8	18.9	18.5	18.5	17.0	17.5	19.9	22.1	24.0	25.8	27.3	28.5	29.2	29.5	30.1	30.0	29.1	28.5	27.7	26.0	25.3	24.2	23.9	22.5	24.3	30.1	17.0
14	22.2	21.5	21.2	21.1	20.6	19.3	20.2	21.7	23.9	24.5	25.6	26.5	28.3	28.8	29.6	29.5	29.3	29.0	28.4	27.7	27.2	26.8	25.8	24.7	25.2	29.6	19.3
15	23.6	22.3	21.4	20.4	19.7	18.9	19.3	21.5	22.8	24.0	25.8	27.1	27.8	28.3	28.8	28.9	28.7	28.1	27.2	26.4	25.6	24.5	23.7	23.0	24.5	28.9	18.9
16	22.2	21.3	20.6	20.2	19.8	19.0	20.3	21.8	23.0	24.5	26.1	27.1	27.9	28.2	28.9	29.2	28.9	28.5	27.5	26.4	25.4	24.1	23.0	22.2	24.4	29.2	19.0
17	21.5	20.7	20.4	19.5	18.9	19.0	18.9	20.5	22.4	23.7	24.6	25.3	26.2	26.6	26.7	26.9	25.9	25.1	24.2	23.3	22.5	22.2	21.9	21.5	22.9	26.9	18.9
18	20.5	19.4	18.9	18.7	17.7	16.8	16.9	18.1	18.8	20.0	21.7	22.5	23.3	24.0	24.3	24.4	24.4	24.1	23.1	22.2	21.6	20.9	20.3	20.0	20.9	24.4	16.8
19	19.6	18.7	17.9	17.0	16.3	15.6	16.4	18.2	18.9	20.3	22.2	23.3	23.9	24.4	25.1	25.3	25.0	24.8	24.1	23.4	22.7	21.9	21.8	21.5	21.2	25.3	15.6
20	21.0	20.7	20.0	19.3	17.7	16.3	17.1	20.2	21.6	22.5	23.7	24.3	25.2	25.3	25.3	25.4	25.2	24.8	24.0	23.0	22.4	21.9	21.8	20.1	22.0	25.4	16.3
21	18.1	18.6	18.4	16.6	16.9	17.2	19.0	21.5	23.6	24.6	25.1	25.9	26.9	27.5	27.8	27.5	27.4	26.9	26.0	25.1	24.4	23.4	21.5	20.6	22.9	27.8	16.6
22	20.1	20.9	22.1	21.3	19.2	18.6	19.3	21.8	23.9	24.5	25.9	27.3	28.2	29.1	29.4	29.8	29.6	29.4	28.6	27.5	26.4	25.2	24.1	23.2	24.8	29.8	18.6
23	22.6	22.4	21.5	20.5	19.2	18.8	20.6	22.5	23.3	24.4	25.6	26.5	27.7	28.3	29.0	29.1	29.2	28.8	27.9	26.5	25.4	24.2	22.7	21.7	24.5	29.2	18.8
24	21.6	21.2	21.1	20.8	20.0	19.6	19.7	21.9	23.6	24.6	26.0	26.8	27.8	28.4	28.6	28.7	28.7	28.5	27.7	26.5	25.5	23.8	23.0	22.4	24.4	28.7	19.6
25	21.7	19.6	19.2	18.7	18.3	18.2	19.5	22.0	23.2	24.2	25.6	26.2	27.3	27.7	28.2	28.2	28.0	27.7	27.1	26.2	25.3	24.5	23.4	22.5	23.9	28.2	18.2
26	21.7	21.2	20.8	19.6	17.9	17.1	18.0	20.6	21.9	23.1	24.4	25.0	25.9	26.3	26.1	26.4	26.9	26.7	25.8	24.8	23.9	23.0	22.9	22.1	23.0	26.9	17.1
27	20.6	18.7	18.7	18.1	17.2	16.1	16.8	19.2	21.7	22.9	24.0	25.6	26.3	26.4	26.4	26.6	26.5	26.1	25.3	24.3	23.5	22.8	22.3	22.5	22.4	26.6	16.1
28	21.6	18.7	17.7	17.5	17.2	16.5	17.4	20.5	21.2	21.8	23.2	24.9	25.4	26.1	26.3	26.3	26.3	26.0	25.5	24.6	23.6	22.6	21.7	21.0	22.2	26.3	16.5
29	20.3	19.7	18.8	18.2	17.7	16.8	17.8	19.5	21.0	22.0	23.3	24.2	24.8	25.6	26.1	26.6	26.5	26.3	25.7	24.7	24.2	23.7	23.4	22.6	22.5	26.6	16.8
30	21.8	21.2	20.5	19.4	18.8	18.6	19.5	20.8	21.8	23.3	24.8	26.0	27.1	27.3	28.0	28.5	28.2	27.9	27.1	26.3	25.8	25.4	24.8	22.8	24.0	28.5	18.6
31	21.9	21.2	20.3	19.9	19.8	18.2	19.0	21.9	22.7	23.5	25.3	26.8	27.8	28.6	29.6	29.7	29.6	29.1	28.3	27.2	26.6	26.0	25.9	26.0	24.8	29.7	18.2
Avg	19.5	18.6	18.1	17.5	16.8	16.2	17.0	18.9	20.4	21.6	22.9	24.0	25.0	25.6	26.0	26.2	26.0	25.6	24.8	23.7	22.9	22.0	21.2	20.5	21.7	--	--
Max	23.6	22.4	22.1	21.3	20.6	19.6	20.6	22.5	24.0	25.8	27.3	28.5	29.2	29.5	30.1	30.0	29.6	29.4	28.6	27.7	27.2	26.8	25.9	26.0	--	30.1	--
Min	14.1	12.9	12.5	11.6	10.6	10.1	11.1	12.2	13.2	14.6	15.8	17.5	18.4	19.2	19.0	19.2	18.7	18.1	17.7	17.1	16.6	15.8	14.9	14.4	--	--	10.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.0	25.9	25.3	24.5	22.5	21.1	23.6	25.8	27.8	29.7	31.4	33.1	34.1	34.3	34.1	33.3	33.6	33.0	32.2	31.1	30.4	29.5	29.2	29.1	29.2	34.3	21.1
2	26.2	25.6	26.6	26.3	24.0	23.3	24.9	26.8	28.7	30.1	31.7	32.8	33.2	33.3	33.5	33.8	33.5	33.2	32.3	31.3	30.1	28.7	27.5	26.8	29.3	33.8	23.3
3	25.8	25.3	24.3	23.6	23.1	22.6	23.0	25.4	26.3	27.3	28.7	29.4	30.1	30.9	31.5	31.8	31.8	31.4	30.4	29.2	28.3	26.1	26.3	26.4	27.5	31.8	22.6
4	25.1	23.7	23.7	22.5	20.9	21.6	22.0	25.1	26.8	27.4	28.6	29.5	30.2	31.0	30.9	31.3	31.0	30.8	30.1	29.1	28.2	27.3	26.8	25.3	27.0	31.3	20.9
5	25.0	24.2	23.2	22.9	22.8	20.9	21.3	24.2	25.2	26.0	27.6	29.2	30.0	30.9	31.0	31.4	31.2	30.7	29.8	28.6	27.8	27.1	26.1	27.0	26.8	31.4	20.9
6	26.8	26.6	26.3	25.6	24.3	22.2	23.1	25.5	26.6	27.7	29.0	30.7	31.8	32.1	32.6	33.2	33.0	32.6	32.0	31.2	30.6	30.0	29.4	28.9	28.8	33.2	22.2
7	28.7	29.0	28.5	27.6	26.9	25.6	25.1	27.5	29.4	31.1	31.4	33.1	34.2	34.7	34.4	34.8	34.5	33.9	33.1	32.2	31.5	31.6	31.5	31.0	30.9	34.8	25.1
8	30.1	29.4	28.2	27.1	26.0	24.9	25.1	25.8	26.5	28.0	29.3	30.4	31.4	32.7	32.8	32.8	32.8	32.6	32.0	30.9	30.0	28.9	27.9	27.1	29.3	32.8	24.9
9	26.5	26.0	25.0	24.5	24.0	23.7	23.7	25.0	26.2	27.5	28.9	29.8	30.9	31.6	32.4	32.6	32.5	32.3	31.5	30.5	30.1	30.0	29.6	29.0	28.5	32.6	23.7
10	27.7	26.7	25.7	24.5	24.0	23.5	24.2	26.9	28.3	28.8	30.6	32.2	33.3	33.8	34.3	34.1	34.1	33.7	32.8	31.6	30.8	28.9	29.2	28.8	29.5	34.3	23.5
11	28.1	27.2	25.9	26.8	25.5	23.8	24.2	27.7	29.7	30.0	31.6	32.7	33.7	33.6	34.2	34.3	34.2	33.6	32.4	31.2	30.7	30.3	30.3	30.1	30.1	34.3	23.8
12	29.8	29.3	27.9	25.6	25.6	25.5	25.6	28.2	29.3	30.0	31.4	32.7	33.5	33.9	33.9	34.3	33.9	33.7	33.4	32.1	31.3	30.9	30.7	30.2	30.5	34.3	25.5
13	29.5	28.9	27.4	25.9	25.2	24.8	24.5	24.7	25.5	27.0	29.0	30.2	31.4	32.3	32.0	30.9	32.0	31.8	31.0	29.8	29.2	29.0	28.8	28.1	28.7	32.3	24.5
14	27.4	26.2	25.0	24.3	23.2	23.4	24.0	24.7	25.8	27.0	28.2	29.3	30.5	31.3	31.8	32.2	32.1	31.5	30.9	29.9	29.2	27.8	26.4	25.8	27.8	32.2	23.2
15	25.1	26.1	25.8	25.3	24.1	24.0	25.0	26.1	27.1	28.4	29.8	31.0	31.3	31.9	32.2	32.4	32.3	31.8	31.6	28.6	27.2	25.9	24.8	24.5	28.0	32.4	24.0
16	24.1	23.5	22.9	22.9	22.4	22.2	23.8	26.5	28.2	29.1	30.5	31.8	31.9	32.6	32.9	32.9	32.7	32.4	31.6	30.5	29.9	29.5	29.0	28.2	28.4	32.9	22.2
17	26.7	26.7	26.2	25.7	24.9	23.3	24.3	26.5	27.0	28.3	30.0	31.1	31.9	32.3	32.9	32.6	32.5	32.1	31.1	30.2	29.4	27.7	26.3	25.7	28.6	32.9	23.3
18	24.8	24.7	25.8	25.3	24.6	22.3	23.5	26.0	27.5	28.5	29.9	32.2	33.2	33.5	33.1	33.1	33.0	32.6	32.0	30.8	29.9	28.5	27.6	27.0	28.7	33.5	22.3
19	24.8	25.0	25.6	24.8	22.2	22.7	23.1	25.7	27.1	28.4	29.8	30.7	30.9	31.6	32.1	31.8	31.9	31.8	31.0	29.9	28.7	27.2	25.3	25.0	27.8	32.1	22.2
20	25.2	24.6	23.4	22.6	23.3	22.0	23.8	25.4	26.4	27.7	29.1	30.3	30.8	31.2	31.6	31.8	31.8	31.6	31.1	29.8	28.6	26.9	26.8	26.7	27.6	31.8	22.0
21	25.5	24.3	24.9	24.8	24.0	22.7	23.5	25.9	27.4	28.0	29.5	30.3	30.9	31.1	31.6	31.7	32.0	31.9	31.1	30.0	29.2	28.5	27.1	26.2	28.0	32.0	22.7
22	25.4	25.6	23.4	23.9	23.1	22.5	22.8	24.9	26.1	27.7	28.9	29.6	30.4	31.6	32.2	31.8	31.5	31.7	30.8	29.6	28.3	26.2	25.5	24.6	27.4	32.2	22.5
23	24.4	23.9	24.0	23.3	22.7	22.4	23.4	25.4	26.3	27.8	29.0	30.0	31.0	31.7	31.8	32.2	31.8	30.8	30.5	29.1	28.2	27.5	26.8	25.7	27.5	32.2	22.4
24	24.9	24.0	23.4	23.0	22.6	22.5	22.7	24.4	25.7	27.1	28.3	29.0	29.7	30.8	30.9	31.4	30.9	30.6	29.7	28.4	27.4	26.7	26.0	25.3	26.9	31.4	22.5
25	24.9	24.4	23.6	22.9	22.3	21.7	22.3	23.4	25.3	26.7	28.5	29.1	30.4	30.9	31.5	31.6	31.2	31.0	30.2	29.1	27.6	26.0	25.3	24.7	26.9	31.6	21.7
26	25.2	25.3	24.1	23.1	22.8	22.9	22.7	25.1	26.1	27.1	28.2	29.7	30.8	31.4	32.2	32.4	32.6	32.0	31.0	29.9	29.3	28.6	28.2	27.7	27.8	32.6	22.7
27	28.1	27.8	26.5	25.3	24.1	24.1	27.2	26.6	26.8	27.8	29.2	30.8	32.1	33.1	33.5	33.9	34.0	33.8	33.1	31.9	30.9	30.5	30.6	30.7	29.7	34.0	24.1
28	30.4	29.7	29.1	28.5	28.4	27.4	27.8	28.7	30.0	31.1	33.0	34.0	35.2	36.1	36.9	37.0	36.9	36.7	35.9	34.9	33.4	32.1	31.8	31.1	32.3	37.0	27.4
29	31.3	31.4	30.3	29.9	29.2	29.8	29.5	32.3	33.8	34.8	36.5	37.5	38.2	38.8	37.8	37.7	37.6	37.1	36.3	35.4	35.0	34.3	33.7	32.3	34.2	38.8	29.2
30	31.6	31.5	30.8	29.9	29.0	28.6	29.6	31.2	32.8	33.7	34.1	35.5	36.3	36.7	36.9	36.2	35.8	35.4	34.8	34.0	33.8	31.8	28.6	--	33.0	36.9	28.6
Avg	26.8	26.4	25.8	25.1	24.2	23.6	24.3	26.2	27.5	28.7	30.1	31.2	32.1	32.7	33.0	33.0	33.0	32.6	31.9	30.7	29.8	28.8	28.1	27.6	28.9	--	--
Max	31.6	31.5	30.8	29.9	29.2	29.8	29.6	32.3	33.8	34.8	36.5	37.5	38.2	38.8	37.8	37.7	37.6	37.1	36.3	35.4	35.0	34.3	33.7	32.3	--	38.8	--
Min	24.1	23.5	22.9	22.5	20.9	20.9	21.3	23.4	25.2	26.0	27.6	29.0	29.7	30.8	30.9	30.9	30.9	30.6	29.7	28.4	27.2	25.9	24.8	24.5	--	--	20.9

SAROAD for Resolution, East_Plant
Channel: SR_Wm2_2m
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	55	263	500	706	863	943	917	915	806	629	383	152	20	0	0	0	0	0	298	943	0
2	0	0	0	0	0	0	60	295	537	748	902	990	1004	950	829	653	431	198	20	0	0	0	0	0	317	1004	0
3	0	0	0	0	0	0	65	299	539	747	898	978	993	940	822	650	434	191	14	0	0	0	0	0	315	993	0
4	0	0	0	0	0	0	67	243	474	703	731	908	937	925	644	460	233	99	11	0	0	0	0	0	268	937	0
5	0	0	0	0	0	0	36	301	541	740	889	977	993	940	822	654	435	202	23	0	0	0	0	0	315	993	0
6	0	0	0	0	0	0	60	298	538	741	894	980	992	933	827	658	378	209	19	0	0	0	0	0	314	992	0
7	0	0	0	0	0	0	68	294	538	745	893	972	983	864	772	645	362	170	22	0	0	0	0	0	305	983	0
8	0	0	0	0	0	0	72	307	543	745	889	964	867	874	690	578	403	167	40	0	0	0	0	0	297	964	0
9	0	0	0	1	1	0	3	19	58	184	264	674	609	385	384	286	268	86	21	0	0	0	0	0	135	674	0
10	0	0	0	0	0	0	89	325	561	760	910	1005	700	700	637	504	414	225	26	0	0	0	0	0	286	1005	0
11	0	0	0	0	0	0	96	333	571	775	914	956	857	906	752	632	435	210	36	0	0	0	0	0	311	956	0
12	0	0	0	0	0	0	87	334	567	491	750	768	668	556	446	356	238	99	38	0	0	0	0	0	225	768	0
13	0	0	0	0	0	0	97	333	567	771	917	999	1011	957	839	667	461	222	28	0	0	0	0	0	328	1011	0
14	0	0	0	0	0	0	86	345	581	780	924	1004	1012	962	840	675	460	226	31	0	0	0	0	0	330	1012	0
15	0	0	0	0	0	0	113	356	593	794	935	1014	1026	973	849	683	466	232	32	0	0	0	0	0	336	1026	0
16	0	0	0	0	0	0	118	361	598	799	940	1014	1022	973	852	685	468	236	33	0	0	0	0	0	337	1022	0
17	0	0	0	0	0	0	44	111	323	662	548	543	578	636	773	652	464	237	44	0	0	0	0	0	234	773	0
18	0	0	0	0	0	0	134	386	626	830	973	1052	1057	999	875	702	481	241	35	0	0	0	0	0	350	1057	0
19	0	0	0	0	0	1	139	391	632	835	978	1056	1062	1005	880	711	490	229	35	0	0	0	0	0	352	1062	0
20	0	0	0	0	0	1	129	369	607	811	956	1036	1050	999	871	696	479	243	35	0	0	0	0	0	345	1050	0
21	0	0	0	0	0	1	136	379	613	809	945	1025	1036	985	863	694	479	241	35	0	0	0	0	0	343	1036	0
22	0	0	0	0	0	1	138	377	611	807	949	1027	1041	986	861	692	472	242	35	0	0	0	0	0	343	1041	0
23	0	0	0	0	0	1	140	377	612	805	948	1028	1036	975	852	683	472	239	39	0	0	0	0	0	342	1036	0
24	0	0	0	0	0	4	119	288	567	805	955	1019	1029	968	757	498	292	95	25	0	0	0	0	0	309	1029	0
25	0	0	0	0	0	1	113	389	624	813	963	1015	1025	988	876	704	481	250	42	0	0	0	0	0	345	1025	0
26	0	0	0	0	0	4	148	386	618	812	947	1027	1034	978	856	691	479	247	41	0	0	0	0	0	344	1034	0
27	0	0	0	0	0	4	148	388	622	818	958	1049	1008	990	872	717	499	248	40	0	0	0	0	0	348	1049	0
28	0	0	0	0	0	5	157	402	638	833	966	1042	1051	998	878	706	493	256	42	0	0	0	0	0	353	1051	0
29	0	0	0	0	0	6	156	392	627	822	958	1033	1043	989	867	699	490	254	42	0	0	0	0	0	349	1043	0
30	0	0	0	0	0	5	157	399	635	838	919	1003	1016	1015	872	700	488	257	45	0	0	0	0	0	348	1016	0
Avg	0	0	0	0	0	1	101	325	555	751	882	970	955	909	792	632	428	207	32	0	0	0	0	0	314	--	--
Max	0	0	0	1	1	6	157	402	638	838	978	1056	1062	1015	880	717	499	257	45	0	0	0	0	0	--	1062	--
Min	0	0	0	0	0	0	3	19	58	184	264	543	578	385	384	286	233	86	11	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: SR_Wm2_2m
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	2	113	409	638	833	981	1053	1056	1001	879	706	494	259	47	0	0	0	0	0	353	1056	0
2	0	0	0	0	0	9	172	418	654	852	991	1067	1077	1025	904	734	517	276	50	0	0	0	0	0	364	1077	0
3	0	0	0	0	0	8	171	415	652	844	980	1056	1068	1014	899	725	469	233	61	0	0	0	0	0	358	1068	0
4	0	0	0	0	0	3	77	349	564	710	825	1016	1035	986	873	692	483	248	41	0	0	0	0	0	329	1035	0
5	0	0	0	0	0	2	158	411	641	818	969	945	795	700	746	576	407	228	36	0	0	0	0	0	310	969	0
6	0	0	0	0	0	5	150	400	631	801	874	472	714	818	468	547	425	230	58	0	0	0	0	0	275	874	0
7	0	0	0	0	0	13	185	419	649	857	921	1046	1060	1005	887	718	510	277	59	1	0	0	0	0	359	1060	0
8	0	0	0	0	0	14	178	323	416	665	906	1017	1072	853	710	586	416	230	58	0	0	0	0	0	310	1072	0
9	0	0	0	0	0	13	181	415	646	832	975	1062	1066	996	886	714	511	276	60	1	0	0	0	0	360	1066	0
10	0	0	0	0	0	14	184	426	648	831	967	1049	1071	1019	906	548	304	326	41	0	0	0	0	0	347	1071	0
11	0	0	0	0	0	18	199	423	675	844	971	1046	1055	993	886	719	496	278	64	1	0	0	0	0	361	1055	0
12	0	0	0	0	0	16	189	423	648	830	959	1037	1048	996	805	569	505	222	76	1	0	0	0	0	347	1048	0
13	0	0	0	0	0	17	190	422	642	823	955	1032	1022	998	868	686	306	139	65	0	0	0	0	0	340	1032	0
14	0	0	0	0	0	13	197	276	497	478	776	855	995	1052	921	707	512	301	80	2	0	0	0	0	319	1052	0
15	0	0	0	0	0	16	187	420	642	823	959	1030	1043	989	880	715	515	282	71	1	0	0	0	0	357	1043	0
16	0	0	0	0	0	20	201	431	653	835	965	1049	1065	1009	892	726	526	294	74	1	0	0	0	0	364	1065	0
17	0	0	0	0	0	17	144	348	676	854	987	1063	1069	1009	811	582	358	162	39	1	0	0	0	0	338	1069	0
18	0	0	0	0	0	13	174	437	654	835	965	1047	1055	997	887	721	521	288	78	2	0	0	0	0	361	1055	0
19	0	0	0	0	0	20	196	430	655	838	969	1046	1058	1002	893	730	529	295	78	2	0	0	0	0	364	1058	0
20	0	0	0	0	0	23	205	438	664	850	980	1050	1067	1015	908	737	539	305	81	1	0	0	0	0	369	1067	0
21	0	0	0	0	0	27	221	456	674	851	982	1051	1063	1021	860	725	537	302	67	3	0	0	0	0	368	1063	0
22	0	0	0	0	0	25	212	444	666	851	980	1049	1066	1008	899	728	532	299	81	1	0	0	0	0	368	1066	0
23	0	0	0	0	0	26	212	451	672	855	935	923	1072	1007	897	730	534	303	86	2	0	0	0	0	363	1072	0
24	0	0	0	0	0	26	210	445	668	850	981	1065	1058	1012	903	748	545	309	88	2	0	0	0	0	371	1065	0
25	0	0	0	0	0	27	211	446	674	848	967	1064	1053	1018	914	749	549	309	90	2	0	0	0	0	372	1064	0
26	0	0	0	0	0	35	197	419	617	804	960	979	1005	902	651	535	595	331	100	2	0	0	0	0	339	1005	0
27	0	0	0	0	0	11	149	353	571	593	760	878	866	558	713	659	551	312	95	3	0	0	0	0	295	878	0
28	0	0	0	0	0	31	209	437	530	682	908	982	946	848	932	732	546	307	93	3	0	0	0	0	341	982	0
29	0	0	0	0	0	27	206	438	660	840	969	1038	1049	965	877	729	531	306	95	3	0	0	0	0	364	1049	0
30	0	0	0	0	0	27	204	437	655	834	965	1035	1051	1000	898	729	539	311	96	3	0	0	0	0	366	1051	0
31	0	0	0	0	0	28	205	439	662	837	969	1037	1051	996	895	734	544	317	98	3	0	0	0	0	367	1051	0
Avg	0	0	0	0	0	18	183	413	632	803	943	1004	1025	962	850	685	495	276	71	1	0	0	0	0	348	--	--
Max	0	0	0	0	0	35	221	456	676	857	991	1067	1077	1052	932	749	595	331	100	3	0	0	0	0	--	1077	--
Min	0	0	0	0	0	2	77	276	416	478	760	472	714	558	468	535	304	139	36	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: SR_Wm2_2m
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	32	219	454	672	850	978	1051	1067	991	763	483	512	303	108	3	0	0	0	0	354	1067	0
2	0	0	0	0	0	19	206	438	656	829	954	1033	1047	999	898	736	539	313	101	3	0	0	0	0	365	1047	0
3	0	0	0	0	0	36	227	464	683	860	992	1060	1071	1013	912	751	560	330	105	3	0	0	0	0	378	1071	0
4	0	0	0	0	0	39	201	428	620	812	966	1039	1054	1003	902	745	555	323	104	3	0	0	0	0	366	1054	0
5	0	0	0	0	0	34	222	452	675	853	981	1058	1066	1015	912	751	555	324	104	3	0	0	0	0	375	1066	0
6	0	0	0	0	0	27	211	439	660	840	969	1041	1054	999	897	736	543	316	103	4	0	0	0	0	368	1054	0
7	0	0	0	0	0	30	205	436	654	832	953	1024	1040	990	890	732	542	316	105	4	0	0	0	0	365	1040	0
8	0	0	0	0	0	31	212	442	659	838	967	1041	1055	1000	899	743	553	326	109	4	0	0	0	0	370	1055	0
9	0	0	0	0	0	32	215	447	667	846	973	1045	1057	1007	906	748	559	329	112	3	0	0	0	0	373	1057	0
10	0	0	0	0	0	32	209	424	656	843	970	1042	1053	1003	900	742	553	326	113	4	0	0	0	0	370	1053	0
11	0	0	0	0	0	34	218	445	660	846	973	1046	1055	970	902	745	553	322	89	3	0	0	0	0	369	1055	0
12	0	0	0	0	0	9	52	401	681	793	915	1029	955	794	751	668	379	238	119	4	0	0	0	0	325	1029	0
13	0	0	0	0	0	27	195	421	636	815	939	1017	1032	993	668	446	552	315	114	5	0	0	0	0	341	1032	0
14	0	0	0	0	0	29	197	420	635	815	944	1020	1030	978	879	728	543	322	114	5	0	0	0	0	361	1030	0
15	0	0	0	0	0	25	161	341	557	797	922	992	1010	903	862	704	528	255	127	8	0	0	0	0	341	1010	0
16	0	0	0	0	0	30	196	419	636	809	936	1013	1026	954	880	726	549	328	121	5	0	0	0	0	359	1026	0
17	0	0	0	0	0	32	214	446	668	845	971	1046	1061	1013	913	758	570	341	126	4	0	0	0	0	375	1061	0
18	0	0	0	0	0	35	221	453	673	856	984	1056	1069	1020	922	764	578	350	128	4	0	0	0	0	380	1069	0
19	0	0	0	0	0	35	225	462	684	872	1010	1075	1081	1038	940	781	587	350	129	3	0	0	0	0	386	1081	0
20	0	0	0	0	0	34	225	458	685	869	1003	1080	1090	1036	936	774	582	351	129	4	0	0	0	0	386	1090	0
21	0	0	0	0	0	31	215	454	677	785	932	896	947	889	747	741	592	349	132	4	0	0	0	0	350	947	0
22	0	0	0	0	0	29	165	358	593	729	961	846	1004	1045	949	612	507	350	130	4	0	0	0	0	345	1045	0
23	0	0	0	0	0	34	222	460	680	860	985	1059	1074	1002	914	774	481	267	158	3	0	0	0	0	374	1074	0
24	0	0	0	0	0	31	222	458	679	854	974	1071	1015	1034	911	733	496	349	139	5	0	0	0	0	374	1071	0
25	0	0	0	0	0	31	219	450	667	843	970	1053	1070	1027	927	770	583	352	133	3	0	0	0	0	379	1070	0
26	0	0	0	0	0	32	218	449	674	855	989	1064	1078	1033	931	770	582	353	132	4	0	0	0	0	382	1078	0
27	0	0	0	0	0	26	176	398	611	749	931	973	1035	1004	903	747	559	335	129	10	0	0	0	0	358	1035	0
28	0	0	0	0	0	20	180	400	618	784	864	840	845	917	718	480	385	270	106	10	0	0	0	0	310	917	0
29	0	0	0	0	0	12	146	341	585	733	919	975	964	970	618	592	426	235	101	8	0	0	0	0	318	975	0
30	0	0	0	0	0	17	126	236	572	756	889	966	990	949	832	469	269	143	78	5	0	0	0	0	304	990	0
Avg	0	0	0	0	0	29	197	423	649	822	957	1018	1033	986	866	698	526	313	117	4	0	0	0	0	360	--	--
Max	0	0	0	0	0	39	227	464	685	872	1010	1080	1090	1045	949	781	592	353	158	10	0	0	0	0	--	1090	--
Min	0	0	0	0	0	9	52	236	557	729	864	840	845	794	618	446	269	143	78	3	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: RH_Percent
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26	33	36	39	41	45	44	42	35	34	31	28	27	24	23	21	15	11	12	12	14	17	21	24	27	45	11
2	24	29	30	32	33	34	34	30	24	23	20	17	17	16	16	16	17	18	19	20	21	22	23	24	23	34	16
3	24	27	31	32	36	38	36	33	31	28	25	21	19	18	19	18	17	18	21	22	22	22	23	25	25	38	17
4	29	32	32	32	31	31	33	29	24	19	15	12	10	9	7	9	11	12	13	14	14	17	15	15	19	33	7
5	19	18	18	18	19	20	24	21	19	18	18	18	17	17	17	18	18	19	20	17	17	17	17	18	18	24	17
6	20	22	22	23	23	25	26	25	21	20	20	18	18	16	15	15	17	17	19	21	25	24	22	23	21	26	15
7	24	26	31	31	32	36	36	32	26	25	23	22	20	19	19	18	18	18	20	21	23	26	28	26	25	36	18
8	25	31	34	32	32	33	36	38	36	32	30	28	25	24	27	24	21	23	28	30	43	80	93	92	37	93	21
9	92	83	86	90	90	96	94	93	90	83	79	65	51	43	38	34	31	32	32	32	30	29	37	56	62	96	29
10	66	69	72	77	79	77	75	60	53	50	40	35	33	31	32	30	26	24	27	31	41	37	44	44	48	79	24
11	46	47	46	46	47	45	44	40	31	28	25	24	23	20	19	17	16	16	17	19	22	27	31	26	30	47	16
12	35	28	30	35	35	39	37	34	28	26	22	17	16	17	18	17	16	16	16	18	21	21	24	23	24	39	16
13	25	25	21	25	23	22	23	26	23	17	17	15	14	14	14	14	14	14	14	15	16	18	22	21	19	26	14
14	23	24	22	23	25	26	27	27	27	24	22	21	19	17	15	15	14	14	14	15	16	18	22	26	21	27	14
15	30	32	32	33	36	38	38	36	32	29	28	25	22	19	18	16	15	16	20	22	22	24	27	30	27	38	15
16	33	37	40	42	44	41	36	33	33	32	29	29	27	23	20	19	21	20	23	27	26	31	32	26	30	44	19
17	23	26	31	40	43	45	49	50	49	40	35	31	26	24	20	18	15	15	14	15	15	13	14	19	28	50	13
18	29	28	26	26	31	34	32	29	26	23	18	14	14	13	12	12	12	12	14	15	17	13	15	14	20	34	12
19	12	12	13	13	12	11	10	9	10	10	9	8	6	6	5	4	4	5	6	6	7	8	8	8	9	13	4
20	9	9	9	11	13	16	16	18	10	10	9	9	8	9	9	9	9	10	10	11	11	11	12	12	11	18	8
21	13	15	16	17	18	21	20	18	16	14	11	10	9	7	7	7	7	7	7	8	11	12	13	14	12	21	7
22	14	13	14	15	19	17	19	18	15	10	9	9	8	7	7	8	8	8	9	10	11	13	15	13	12	19	7
23	13	13	14	15	16	18	17	14	15	14	13	12	12	12	13	14	14	16	16	17	18	20	19	17	15	20	12
24	17	22	25	25	27	24	23	23	21	17	13	12	10	9	10	9	10	10	11	13	14	16	17	17	16	27	9
25	21	22	20	19	20	21	20	18	17	17	15	17	22	20	14	15	18	21	25	28	28	31	32	30	21	32	14
26	35	36	32	35	34	35	34	30	26	24	20	20	19	17	16	16	15	14	14	15	15	16	15	16	23	36	14
27	16	19	19	21	24	26	24	19	13	11	9	7	8	9	9	8	9	9	10	11	11	11	11	13	14	26	7
28	14	15	15	16	16	14	15	13	8	7	6	5	5	4	4	4	4	4	5	6	6	6	6	6	8	16	4
29	7	6	7	6	8	10	12	14	9	8	7	7	6	6	6	6	6	6	7	7	8	8	8	9	8	14	6
30	9	10	10	11	11	10	12	11	9	8	8	8	7	7	7	7	7	7	7	7	8	9	9	11	9	12	7
Avg	26	27	28	29	31	32	31	29	26	23	21	19	17	16	15	15	14	14	16	17	18	21	23	23	22	--	--
Max	92	83	86	90	90	96	94	93	90	83	79	65	51	43	38	34	31	32	32	32	43	80	93	92	--	96	--
Min	7	6	7	6	8	10	10	9	8	7	6	5	5	4	4	4	4	4	5	6	6	6	6	6	--	--	4

SAROAD for Resolution, East_Plant
Channel: RH_Percent
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	12	12	12	11	12	14	16	15	12	11	9	8	8	8	8	8	8	10	11	11	12	12	12	13	11	16	8
2	12	7	6	6	6	6	7	8	8	8	7	6	6	5	5	4	3	4	4	5	6	10	12	12	7	12	3
3	16	20	19	22	23	24	24	23	21	19	16	14	12	11	10	9	8	8	9	11	11	11	11	12	15	24	8
4	11	13	12	12	12	12	12	12	12	10	9	8	7	7	7	7	7	6	7	7	7	9	11	9	9	13	6
5	9	10	13	14	16	17	17	17	18	17	15	13	12	11	11	11	11	11	12	13	17	21	24	19	15	24	9
6	25	56	59	61	70	73	68	62	53	46	40	36	33	31	31	29	29	28	25	23	25	28	31	28	41	73	23
7	34	35	37	42	44	45	45	43	39	37	33	28	24	20	18	19	19	23	24	34	37	38	41	40	33	45	18
8	37	40	48	60	65	65	58	55	48	43	36	28	28	25	23	24	25	23	25	32	33	33	33	34	38	65	23
9	31	34	34	36	38	43	39	39	36	32	29	24	23	23	21	19	20	20	23	24	23	25	28	29	29	43	19
10	32	32	33	35	36	38	36	31	26	23	20	19	18	16	15	16	19	17	17	19	20	26	30	31	25	38	15
11	31	32	34	36	36	37	36	33	28	27	23	18	16	15	15	14	15	15	17	19	22	23	22	23	25	37	14
12	25	27	28	28	30	30	29	27	25	23	20	17	14	13	12	12	12	13	14	16	18	21	23	23	21	30	12
13	24	26	26	26	29	27	22	19	18	16	15	13	12	12	10	9	10	11	11	13	13	15	16	17	17	29	9
14	16	14	12	12	12	13	13	13	15	14	12	11	10	9	9	10	10	10	11	12	12	13	14	17	12	17	9
15	20	21	21	22	23	25	24	22	21	19	17	17	14	13	13	12	12	13	13	14	14	15	18	19	18	25	12
16	19	20	19	19	19	22	22	18	15	13	12	11	9	9	9	8	7	7	8	7	7	9	11	10	13	22	7
17	10	11	12	14	16	17	17	15	14	13	11	10	10	10	10	9	11	12	13	15	17	17	17	18	13	18	9
18	17	17	13	12	15	16	18	18	18	18	19	16	16	15	16	15	15	17	20	21	21	22	23	23	18	23	12
19	23	25	27	29	31	36	31	33	32	29	23	20	19	18	16	15	15	16	18	19	20	20	20	20	23	36	15
20	21	23	24	26	29	30	27	22	19	16	15	15	11	9	9	9	8	8	8	9	10	10	10	12	16	30	8
21	14	15	15	18	18	18	16	15	13	12	11	10	9	8	7	7	7	7	8	9	9	10	11	12	12	18	7
22	13	13	11	11	12	13	13	12	10	10	9	9	8	6	6	7	8	8	9	9	9	11	12	11	10	13	6
23	13	11	12	14	16	17	16	17	17	15	12	10	9	10	9	9	9	9	8	9	11	11	11	12	12	17	8
24	11	8	7	9	12	10	11	16	20	20	15	12	12	10	10	7	7	8	8	9	10	12	12	11	11	20	7
25	12	14	15	16	16	15	15	14	17	16	14	12	11	9	7	7	7	6	7	7	8	9	10	11	11	17	6
26	10	10	10	12	14	15	15	12	10	10	9	8	7	6	6	6	5	6	6	6	7	8	9	10	9	15	5
27	11	13	13	14	14	15	15	13	10	8	7	5	5	6	8	9	8	9	10	13	15	15	15	16	11	16	5
28	16	20	21	21	22	23	21	17	16	16	14	10	8	8	9	10	11	12	13	15	18	22	24	24	16	24	8
29	25	25	25	24	26	27	24	23	23	22	22	21	21	20	19	17	17	17	18	20	20	22	23	26	22	27	17
30	34	37	37	45	46	48	43	42	39	32	28	25	21	18	17	16	17	17	18	20	21	23	24	30	29	48	16
31	35	38	40	43	45	48	44	38	35	34	30	26	21	19	18	17	15	14	13	16	17	20	20	20	28	48	13
Avg	20	22	22	24	26	27	26	24	22	20	18	16	14	13	12	12	12	12	13	15	16	17	19	19	18	--	--
Max	37	56	59	61	70	73	68	62	53	46	40	36	33	31	31	29	29	28	25	34	37	38	41	40	--	73	--
Min	9	7	6	6	6	6	7	8	8	8	7	5	5	5	5	4	3	4	4	5	6	8	9	9	--	--	3

SAROAD for Resolution, East_Plant
Channel: RH_Percent
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22	21	22	25	28	31	20	11	9	7	7	6	6	7	7	8	8	9	9	10	11	11	12	12	13	31	6
2	15	15	15	18	20	21	18	18	15	14	13	12	11	10	9	8	10	9	8	8	10	13	14	15	13	21	8
3	16	16	18	20	17	17	18	13	12	10	9	9	9	8	7	6	6	6	7	8	9	11	12	11	11	20	6
4	12	13	13	14	16	14	15	12	11	11	11	11	11	10	10	9	9	10	10	12	13	14	14	16	12	16	9
5	15	15	16	16	15	18	17	12	10	12	11	10	9	9	9	8	6	6	7	8	9	9	10	9	11	18	6
6	9	10	10	10	12	14	15	12	11	10	9	9	8	8	8	8	8	8	8	9	10	9	10	11	10	15	8
7	11	11	11	11	12	13	14	12	10	9	9	8	7	7	7	7	7	7	8	8	8	9	9	9	9	14	7
8	9	10	11	12	13	14	12	11	10	9	9	8	9	8	8	7	7	7	8	8	9	10	12	12	10	14	7
9	12	13	15	15	16	15	15	13	11	11	8	8	7	6	6	5	5	5	6	7	6	6	7	8	9	16	5
10	9	11	13	14	15	16	16	14	12	12	10	8	7	5	5	5	5	5	5	6	6	7	7	7	9	16	5
11	9	10	11	7	6	7	8	6	6	7	7	7	6	7	7	7	7	7	8	10	9	10	10	10	8	11	6
12	11	11	11	13	13	14	14	12	10	10	9	8	8	8	8	7	8	8	8	10	11	11	11	12	10	14	7
13	13	14	17	22	23	23	23	21	21	19	18	16	14	12	13	15	15	16	17	19	21	21	22	24	18	24	12
14	24	27	32	33	36	35	33	32	29	23	21	16	16	16	15	13	13	14	14	17	19	20	22	22	22	36	13
15	21	20	22	23	26	29	24	25	25	23	24	23	23	22	22	21	20	20	19	27	31	32	35	34	25	35	19
16	35	36	37	38	39	40	36	29	23	21	18	17	17	17	16	15	12	10	11	11	11	11	12	12	22	40	10
17	13	13	13	14	15	16	16	11	11	10	9	9	8	8	8	8	7	8	8	9	9	10	11	11	11	16	7
18	12	11	11	12	12	14	13	12	10	9	8	7	7	6	6	6	5	5	4	4	3	4	5	7	8	14	3
19	8	8	8	9	11	10	10	7	7	6	4	3	6	6	6	5	4	4	5	5	6	7	8	9	7	11	3
20	10	11	12	13	13	13	13	13	11	8	6	5	5	5	5	5	5	5	6	6	7	8	9	10	8	13	5
21	12	13	15	13	14	15	14	14	9	9	8	8	7	6	5	6	6	6	6	6	7	8	8	9	9	15	5
22	10	10	11	10	10	12	12	9	8	8	7	7	6	5	5	6	6	6	7	8	9	10	11	11	9	12	5
23	12	12	13	11	13	13	11	8	8	7	7	7	7	6	7	7	7	7	6	7	8	7	9	11	9	13	6
24	11	11	9	9	10	10	11	9	10	10	10	8	9	8	8	7	8	8	9	11	12	13	16	18	10	18	7
25	19	19	17	16	17	18	17	17	15	12	10	8	7	6	5	5	5	6	7	8	9	10	10	10	11	19	5
26	10	11	12	14	14	11	12	11	11	10	8	8	8	7	7	8	8	9	11	10	10	11	14	14	10	14	7
27	14	16	17	18	20	20	15	16	17	16	14	13	12	10	10	10	9	9	9	10	11	11	9	8	13	20	8
28	8	8	10	13	14	16	17	16	14	13	11	11	11	11	10	8	8	8	9	10	11	12	11	11	11	17	8
29	11	11	12	13	14	14	14	12	11	10	10	10	10	9	9	9	9	9	10	11	11	12	13	14	11	14	9
30	15	16	17	18	19	20	19	17	15	15	16	15	15	14	14	14	15	14	15	17	17	23	32	38	18	38	14
Avg	14	14	15	16	17	17	16	14	13	12	11	10	10	9	9	8	8	8	9	10	11	12	13	14	12	--	--
Max	35	36	37	38	39	40	36	32	29	23	24	23	23	22	22	21	20	20	19	27	31	32	35	38	--	40	--
Min	8	8	8	7	6	7	8	6	6	6	4	3	5	5	5	5	4	4	4	4	3	4	5	7	--	--	3

SAROAD for Resolution, East_Plant
Channel: Precip_Inches
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.048	0.295	0.106	0.453	0.295	0
9	0	0	0	0	0.004	0.02	0.02	0.036	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.084	0.036	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0.004	0.02	0.02	0.036	0	0.004	0	0	0	0	0	0	0	0	0	0	0.004	0.048	0.295	0.106	0.537	--	--
Max	0	0	0	0	0.004	0.02	0.02	0.036	0	0.004	0	0	0	0	0	0	0	0	0	0	0.004	0.048	0.295	0.106	--	0.295	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: Precip_Inches
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.016	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	--	--
Max	0	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.016	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: Precip_Inches
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0	0	0	0	0	0	0	0.008	0.008	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012	0	0	0.012	0.012	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0	0	0	0	0.012	0	0	0.02	--	--
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0	0	0	0	0.012	0	0	--	0.012	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
Channel: BP_mmHg
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	652	652	652	652	652	653	653	653	653	653	653	653	653	653	652	652	652	651	651	651	652	652	651	651	652	653	651
2	651	651	651	651	650	651	651	652	652	652	652	652	652	651	651	650	651	651	651	651	651	652	652	652	651	652	650
3	652	652	652	652	652	652	653	653	654	654	654	654	654	653	653	653	653	653	653	653	654	654	654	655	653	655	652
4	655	654	654	654	654	655	655	655	655	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	654	655	653
5	653	653	653	652	652	652	652	653	653	653	653	653	652	652	652	651	651	651	651	651	652	652	652	652	652	653	651
6	652	652	651	651	652	652	652	653	653	653	653	653	652	652	651	651	651	651	651	650	651	651	651	651	652	653	650
7	651	650	650	650	650	650	650	651	651	651	651	651	651	650	650	649	649	649	649	648	648	648	648	648	650	651	648
8	648	647	647	646	646	645	645	645	645	644	643	643	642	641	641	640	640	640	640	640	640	641	642	642	643	648	640
9	642	642	642	642	642	643	644	644	645	646	646	647	647	646	647	647	647	647	647	648	648	649	649	649	646	649	642
10	649	649	649	649	649	650	650	651	651	652	652	652	652	652	651	651	651	651	651	652	652	652	652	652	651	652	649
11	652	652	651	651	651	651	651	652	652	652	652	651	651	651	650	649	649	649	649	649	649	649	649	649	650	652	649
12	649	649	648	648	648	648	649	649	649	650	650	650	649	649	649	649	649	648	649	649	649	650	650	650	649	650	648
13	650	649	649	649	649	649	649	650	650	650	650	650	650	649	649	648	648	648	648	648	648	648	648	648	649	650	648
14	648	648	648	648	648	648	648	648	648	649	649	648	648	648	647	647	647	647	646	647	647	647	647	647	648	649	646
15	647	647	647	647	647	647	648	648	648	648	648	648	648	648	647	647	647	647	647	647	648	648	648	648	648	648	647
16	648	648	648	648	648	648	648	649	649	649	649	649	648	648	648	647	647	647	647	647	648	648	648	648	648	649	647
17	648	648	647	647	647	648	648	649	649	649	650	650	650	650	650	650	650	650	650	651	651	652	652	652	649	652	647
18	652	652	652	652	652	653	653	654	654	654	655	655	654	654	654	654	654	654	655	655	656	656	656	656	654	656	652
19	656	655	655	655	655	655	655	656	656	656	656	656	656	655	654	654	653	653	653	652	653	652	652	652	654	656	652
20	652	652	652	652	652	652	652	652	653	653	653	652	652	652	652	651	651	651	652	652	653	653	653	653	652	653	651
21	653	653	653	653	653	653	654	654	655	655	655	655	654	654	654	653	653	653	653	653	653	653	653	653	653	655	653
22	653	653	653	653	652	652	653	653	653	653	653	653	652	652	651	651	650	650	650	650	650	650	650	650	652	653	650
23	650	650	650	650	650	650	650	651	651	651	651	651	651	651	651	650	650	650	650	650	651	651	651	651	650	651	650
24	651	651	651	651	651	651	652	652	652	652	653	652	652	652	651	651	651	651	651	651	651	651	651	651	651	653	651
25	652	652	651	651	651	651	652	652	652	652	652	652	652	652	652	651	652	652	652	653	653	654	654	654	652	654	651
26	654	654	654	654	654	655	655	656	656	656	656	656	656	656	655	655	655	655	655	655	655	655	656	656	655	656	654
27	655	655	655	655	655	655	655	655	655	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	654	655	653
28	653	652	652	652	652	652	652	652	653	653	653	653	652	652	651	651	650	650	650	650	650	651	650	650	652	653	650
29	650	650	650	650	650	650	650	651	651	651	651	651	650	650	649	649	648	648	648	648	648	648	649	649	650	651	648
30	649	649	649	649	649	649	650	650	650	650	650	650	650	649	649	649	648	648	648	649	649	650	650	650	649	650	648
Avg	651	651	651	650	650	651	651	651	652	652	652	652	651	651	651	650	650	650	650	650	650	651	651	651	651	--	--
Max	656	655	655	655	655	655	655	656	656	656	656	656	656	656	655	655	655	655	655	655	656	656	656	656	--	656	--
Min	642	642	642	642	642	643	644	644	645	644	643	643	642	641	641	640	640	640	640	640	640	641	642	642	--	--	640

SAROAD for Resolution, East_Plant
Channel: BP_mmHg
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	650	650	650	650	651	651	652	652	653	653	653	653	653	653	653	653	653	653	653	653	653	654	654	654	652	654	650
2	655	655	655	655	655	656	656	657	657	657	657	657	657	656	656	656	655	655	655	655	655	656	656	656	656	657	655
3	656	655	655	655	655	655	655	655	655	655	654	654	654	653	652	652	651	651	651	651	651	651	651	650	653	656	650
4	650	650	649	649	649	649	649	650	650	650	650	650	649	649	649	648	648	648	648	648	649	649	650	650	649	650	648
5	650	650	650	650	650	651	651	652	652	652	652	652	652	651	651	650	650	649	649	649	650	651	651	652	651	652	649
6	652	651	651	651	651	652	652	653	653	653	653	653	653	653	652	652	652	651	651	651	652	652	652	652	652	653	651
7	653	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	651	651	650	651	651	652	652	652	652	653	650
8	652	652	652	652	653	653	653	654	654	654	654	654	653	653	653	653	653	653	652	652	652	653	653	653	653	654	652
9	653	653	652	652	652	653	653	653	653	653	653	653	653	653	652	652	652	652	652	652	653	653	653	653	653	653	652
10	653	653	652	652	652	653	653	654	654	654	654	654	654	654	653	653	653	653	653	654	655	656	656	655	654	656	652
11	655	655	655	655	655	655	656	656	656	656	657	657	656	656	656	656	655	655	655	656	656	656	656	657	656	657	655
12	657	657	657	657	657	657	657	658	658	658	657	657	657	656	656	655	654	654	654	654	655	655	655	655	656	658	654
13	655	655	655	655	655	656	656	656	657	657	657	656	656	655	655	654	654	654	653	653	653	654	654	654	655	657	653
14	654	654	654	654	654	654	654	655	655	655	654	654	654	653	653	652	652	652	652	652	652	652	653	653	653	655	652
15	653	653	653	653	653	654	654	654	654	654	654	654	654	653	653	652	652	652	651	651	652	652	652	652	653	654	651
16	652	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	650	650	650	650	651	651	651	651	652	653	650
17	651	651	651	651	651	651	652	652	652	652	652	652	652	652	651	651	651	651	651	651	651	652	652	652	651	652	651
18	652	652	651	651	652	652	652	652	653	653	653	653	652	652	651	651	651	651	651	651	651	652	652	652	652	653	651
19	652	651	651	651	651	652	652	652	652	652	652	652	651	651	651	650	650	650	650	650	651	651	651	651	651	652	650
20	651	651	651	651	651	651	652	652	652	652	652	652	652	651	651	651	650	650	650	651	651	652	652	652	651	652	650
21	652	651	652	652	652	652	652	652	653	653	653	652	652	652	651	651	650	650	650	650	650	650	650	650	651	653	650
22	650	650	649	649	649	650	650	651	651	651	651	651	650	650	649	649	648	648	648	648	649	649	649	650	650	651	648
23	649	649	649	650	650	650	650	651	651	651	651	651	651	651	651	650	650	650	650	650	651	651	651	651	650	651	649
24	652	652	652	652	652	652	653	653	653	653	653	653	653	653	653	652	652	652	652	652	652	652	652	652	652	653	652
25	652	652	652	652	652	653	653	653	654	654	654	654	653	653	653	653	652	652	652	652	652	652	653	653	653	654	652
26	653	653	652	652	652	652	653	653	654	654	654	654	654	653	653	653	652	652	652	652	652	653	653	652	653	654	652
27	652	652	652	652	652	652	652	652	652	652	652	652	651	651	651	650	650	650	649	649	649	650	650	649	651	652	649
28	649	649	649	649	648	648	648	649	649	649	649	649	648	648	648	647	647	646	646	646	647	647	647	648	648	649	646
29	648	648	648	648	648	648	648	649	649	649	649	649	649	649	648	648	648	648	648	648	648	648	649	649	648	649	648
30	649	649	649	649	650	650	650	651	651	652	652	652	651	651	651	650	650	650	650	650	650	651	651	651	650	652	649
31	651	651	651	651	651	652	652	652	653	653	653	653	652	652	651	651	651	651	651	651	651	651	651	651	652	653	651
Avg	652	652	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	651	651	651	651	652	652	652	652	--	--
Max	657	657	657	657	657	657	657	658	658	658	657	657	657	656	656	656	655	655	655	656	656	656	656	657	--	658	--
Min	648	648	648	648	648	648	648	649	649	649	649	649	648	648	648	647	647	646	646	646	647	647	647	648	--	--	646

SAROAD for Resolution, East_Plant
Channel: BP_mmHg
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	651	651	651	651	651	651	651	651	652	652	652	652	651	651	651	650	650	650	650	650	650	651	651	651	651	652	650
2	651	650	650	650	650	650	651	651	651	651	651	651	651	650	650	650	649	649	649	649	649	650	650	650	650	651	649
3	650	650	650	650	650	651	651	652	652	652	652	652	652	651	651	651	650	650	650	651	651	651	651	651	651	652	650
4	651	651	651	651	651	651	652	652	653	653	653	653	652	652	652	651	651	651	651	651	651	652	652	652	652	653	651
5	652	652	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	651	651	651	651	651	652	651	652	653	651
6	651	651	651	651	651	651	651	651	652	652	652	652	651	651	651	650	650	650	650	650	650	651	651	651	651	652	650
7	651	650	650	650	650	651	651	651	651	651	651	651	651	650	650	650	649	649	649	649	649	650	650	650	650	651	649
8	650	650	650	650	650	650	651	651	652	652	652	652	652	651	651	651	651	650	651	651	651	652	652	652	651	652	650
9	652	652	652	652	652	652	653	653	653	653	654	654	653	653	653	652	652	651	652	652	652	652	652	652	652	654	651
10	652	652	652	652	652	652	653	653	654	654	654	654	653	653	653	652	652	652	651	651	652	652	652	652	653	654	651
11	652	652	652	652	652	653	653	653	654	654	654	654	654	653	653	652	652	652	652	653	653	653	653	653	653	654	652
12	653	653	653	653	653	653	654	654	654	654	655	654	654	654	653	653	653	652	652	652	653	653	653	653	653	655	652
13	652	652	653	653	653	654	654	654	654	654	654	654	654	653	653	652	652	652	652	652	652	652	652	652	653	654	652
14	652	652	652	652	652	652	653	653	653	653	653	653	653	652	652	651	651	651	651	651	651	651	652	651	652	653	651
15	652	651	651	652	652	653	653	653	654	654	654	654	653	653	652	652	652	652	652	652	653	653	653	653	653	654	651
16	653	653	653	653	653	653	654	654	654	655	655	655	654	654	653	653	653	652	652	653	653	653	653	653	653	655	652
17	653	653	653	653	653	653	653	654	654	654	654	654	654	653	653	653	652	652	652	652	652	652	652	652	653	654	652
18	652	652	652	652	652	652	652	653	653	653	653	653	652	652	652	651	651	650	650	650	650	650	650	650	651	653	650
19	650	650	650	650	650	650	650	651	651	651	651	651	651	651	650	650	650	650	649	649	649	650	650	650	650	651	649
20	650	650	650	650	650	651	651	652	652	652	652	652	652	651	651	651	651	650	650	650	650	651	651	651	651	652	650
21	651	651	651	651	651	652	652	653	653	653	653	653	653	652	652	652	651	651	651	651	651	651	651	651	652	653	651
22	651	651	651	651	651	652	652	652	653	653	653	653	652	652	652	651	651	650	650	650	651	651	651	651	651	653	650
23	651	651	651	651	651	651	651	652	652	652	652	651	651	651	650	650	649	649	649	649	649	650	650	650	650	652	649
24	650	650	650	650	651	651	651	652	652	652	652	652	652	652	651	651	651	651	651	651	651	652	652	652	651	652	650
25	652	652	652	652	653	653	653	654	654	654	654	654	654	654	654	653	653	653	653	653	653	653	653	654	653	654	652
26	654	654	654	654	655	655	655	656	656	656	656	656	656	656	655	655	655	654	654	654	654	655	655	655	655	656	654
27	655	655	655	655	655	656	656	657	657	657	657	657	656	656	655	655	654	654	654	654	654	655	655	655	655	657	654
28	654	654	654	654	654	654	654	654	654	654	655	655	654	654	654	653	653	653	653	653	653	653	653	653	654	655	653
29	653	653	653	653	653	653	654	654	654	654	654	654	653	653	652	652	652	651	651	651	652	652	652	652	653	654	651
30	652	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	650	650	650	651	652	652	653	653	652	653	650
Avg	652	652	652	652	652	652	652	653	653	653	653	653	653	652	652	652	651	651	651	651	651	652	652	652	652	--	--
Max	655	655	655	655	655	656	656	657	657	657	657	657	656	656	655	655	655	654	654	654	654	655	655	655	--	657	--
Min	650	650	650	650	650	650	650	651	651	651	651	651	651	650	650	650	649	649	649	649	649	650	650	650	--	--	649

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.4	1.1	0.8	0.5	0.2	0.3	0.6	1.1	0.7	1.2	2.5	4.1	4.6	4.1	4.6	5.2	5.4	4.9	3.1	1.4	0.6	1.3	1.4	2.0	2.2	5.4	0.2
2	1.3	1.4	1.8	1.4	1.4	0.4	0.8	1.1	0.9	1.4	2.5	3.9	4.8	4.5	4.4	5.7	6.1	5.4	3.6	0.9	1.5	0.9	0.5	0.5	2.4	6.1	0.4
3	0.5	1.9	3.1	3.4	1.6	0.8	1.9	1.9	3.4	5.8	3.0	2.2	2.2	2.8	3.4	4.1	4.5	4.0	2.4	1.5	1.6	1.7	0.7	0.7	2.5	5.8	0.5
4	1.1	1.8	1.3	1.6	2.7	0.9	1.4	1.3	1.8	1.8	2.1	3.9	4.1	4.2	2.4	2.0	3.1	3.4	1.4	0.8	1.0	1.2	0.5	0.3	1.9	4.2	0.3
5	1.1	0.2	0.7	0.8	1.6	1.5	1.0	2.3	1.4	2.2	2.8	3.8	4.2	4.8	5.4	6.2	5.6	5.5	4.3	1.5	0.6	0.4	0.8	0.5	2.5	6.2	0.2
6	0.6	0.6	1.1	1.1	0.6	0.8	0.7	0.6	1.0	1.5	1.8	2.4	3.1	3.3	4.0	4.5	4.6	4.0	2.3	0.9	1.2	0.6	0.6	0.5	1.8	4.6	0.5
7	0.3	0.6	0.7	0.7	0.5	0.5	3.1	2.5	1.4	2.5	2.3	2.1	3.5	4.3	4.0	4.7	5.0	4.5	2.4	0.7	0.7	0.4	0.7	0.4	2.0	5.0	0.3
8	1.0	1.2	0.8	0.8	1.2	0.8	1.4	5.0	6.3	7.5	8.3	9.9	10.2	10.4	9.8	10.9	9.5	8.1	8.0	6.7	7.5	6.2	5.6	3.1	5.8	10.9	0.8
9	1.6	1.5	2.5	3.5	4.7	3.8	3.6	2.5	1.3	3.1	3.3	3.5	5.2	5.7	6.2	5.0	5.0	3.3	1.8	0.8	1.0	1.5	1.4	3.4	3.1	6.2	0.8
10	1.5	1.2	1.0	1.1	2.2	1.7	2.3	1.9	2.7	4.9	3.0	2.8	2.4	2.7	2.7	2.5	2.9	3.3	2.4	1.8	1.6	2.2	2.0	1.0	2.2	4.9	1.0
11	0.7	1.7	2.6	3.2	1.9	1.3	0.9	0.5	0.9	1.9	1.7	1.7	2.5	3.5	3.6	3.7	3.5	3.6	2.4	0.5	0.6	2.0	2.3	2.6	2.1	3.7	0.5
12	0.4	0.9	1.1	1.5	1.0	1.0	1.1	1.3	0.9	1.8	1.9	2.0	2.3	3.3	3.1	2.8	3.1	2.8	2.0	0.7	0.6	1.1	0.8	1.7	1.6	3.3	0.4
13	1.2	1.1	0.5	1.1	0.5	0.3	0.5	0.4	0.7	1.4	2.7	3.5	3.9	4.3	4.8	5.6	4.9	5.3	4.7	1.9	0.4	1.5	1.8	1.6	2.3	5.6	0.3
14	2.0	1.1	1.4	1.4	0.7	0.8	1.3	1.6	3.3	4.2	5.3	5.7	5.9	6.2	6.4	6.3	6.2	6.0	5.8	3.3	2.9	2.8	1.6	2.4	3.5	6.4	0.7
15	2.6	1.6	1.3	1.1	1.2	1.3	0.7	1.9	5.8	6.2	6.2	6.4	6.1	7.0	7.5	8.5	6.7	6.5	6.3	6.1	5.0	2.9	2.9	1.9	4.3	8.5	0.7
16	1.5	1.2	1.1	1.1	1.0	1.6	1.0	2.2	4.6	4.8	4.9	5.2	6.7	6.8	7.3	8.0	7.7	8.2	6.9	4.4	2.8	3.2	2.7	1.8	4.0	8.2	1.0
17	1.4	0.6	0.9	1.5	0.4	1.4	1.4	3.8	3.6	3.7	4.3	5.9	7.5	7.0	6.7	5.9	6.2	5.6	5.6	2.6	0.4	1.0	1.0	2.3	3.4	7.5	0.4
18	2.4	4.6	5.4	6.8	8.6	4.4	4.3	2.9	5.1	4.1	2.5	2.7	3.3	3.5	2.3	2.5	4.0	2.9	2.7	2.0	4.5	6.8	6.3	2.9	4.1	8.6	2.0
19	3.4	2.5	3.5	4.9	7.5	11.4	10.0	9.1	8.4	7.8	5.9	2.5	1.7	2.2	2.5	2.1	2.5	3.0	3.5	0.7	0.5	0.5	0.6	0.7	4.1	11.4	0.5
20	0.9	0.5	0.4	0.6	0.6	2.6	1.3	0.4	0.8	1.1	2.0	3.4	4.8	4.7	5.3	5.2	6.0	5.1	3.8	1.4	1.6	1.3	1.0	0.2	2.3	6.0	0.2
21	1.5	2.0	2.7	2.6	3.4	5.3	4.1	2.8	1.7	1.5	1.9	2.1	2.9	4.1	4.0	4.5	4.4	3.4	2.7	1.1	0.8	1.0	0.4	0.2	2.6	5.3	0.2
22	0.4	1.3	2.3	0.7	2.6	2.8	3.2	0.4	0.6	1.6	1.7	3.0	3.6	4.4	5.2	5.2	4.7	4.4	4.2	1.2	0.5	0.4	0.3	0.9	2.3	5.2	0.3
23	1.6	1.6	1.3	1.1	0.6	2.2	1.6	0.8	1.1	1.0	3.0	3.8	4.0	4.3	4.4	4.8	4.8	4.6	3.2	1.0	1.1	0.7	0.4	1.0	2.2	4.8	0.4
24	0.4	1.2	4.4	4.4	4.5	5.2	5.8	4.4	2.6	2.1	3.5	4.2	5.1	4.5	4.8	5.2	3.9	3.7	1.8	0.8	1.4	0.7	1.0	1.6	3.2	5.8	0.4
25	2.6	1.9	1.2	0.7	1.1	0.6	0.7	2.0	4.4	5.0	7.3	8.2	7.6	8.5	7.3	6.7	6.0	6.2	4.9	2.2	0.4	0.7	0.8	0.4	3.6	8.5	0.4
26	0.7	0.8	2.5	3.4	3.0	1.2	2.1	1.1	0.8	1.1	2.8	2.4	3.4	3.5	3.9	4.2	4.6	4.4	3.7	1.0	0.5	1.0	0.5	0.5	2.2	4.6	0.5
27	0.9	0.2	0.4	0.5	1.9	1.8	1.5	0.6	1.2	1.9	2.7	4.1	4.2	3.9	4.4	4.2	4.6	5.0	3.4	0.9	1.0	1.0	1.6	1.7	2.2	5.0	0.2
28	1.9	1.0	1.5	1.8	2.1	1.9	0.8	0.6	0.7	1.3	2.1	2.6	3.0	4.2	3.4	3.3	3.5	3.7	3.1	0.9	0.7	0.7	0.9	0.7	1.9	4.2	0.6
29	0.5	0.3	0.3	0.5	0.6	0.5	0.5	0.3	1.0	2.1	1.4	2.6	3.5	3.6	4.0	4.8	5.0	4.9	3.8	0.9	0.9	0.7	0.7	0.7	1.9	5.0	0.3
30	0.6	0.8	0.8	0.7	0.7	1.9	2.2	2.4	3.3	2.2	2.0	2.7	5.4	6.1	6.0	6.5	6.1	5.7	5.9	4.1	2.3	0.9	1.0	1.0	3.0	6.5	0.6
Avg	1.3	1.3	1.6	1.8	2.0	2.0	2.1	2.0	2.4	3.0	3.2	3.8	4.4	4.8	4.8	5.0	5.0	4.7	3.7	1.8	1.5	1.6	1.4	1.3	2.8	--	--
Max	3.4	4.6	5.4	6.8	8.6	11.4	10.0	9.1	8.4	7.8	8.3	9.9	10.2	10.4	9.8	10.9	9.5	8.2	8.0	6.7	7.5	6.8	6.3	3.4	--	11.4	--
Min	0.3	0.2	0.3	0.5	0.2	0.3	0.5	0.3	0.6	1.0	1.4	1.7	1.7	2.2	2.3	2.0	2.5	2.8	1.4	0.5	0.4	0.4	0.3	0.2	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.2	1.3	0.8	1.2	1.2	0.8	0.9	1.3	1.1	2.4	2.6	2.5	2.7	3.6	3.8	4.0	4.7	5.3	5.1	1.8	0.8	1.0	1.3	2.1	2.2	5.3	0.8
2	5.7	11.1	12.5	12.1	12.9	12.9	13.2	13.1	12.6	12.1	9.8	10.2	8.7	5.4	4.0	4.5	3.0	2.4	4.3	5.1	5.6	4.6	5.5	7.8	8.3	13.2	2.4
3	12.4	14.3	15.1	14.8	14.9	11.3	12.9	13.9	15.6	13.6	7.2	6.0	4.2	4.5	2.8	4.6	3.8	2.2	2.8	3.6	4.7	4.9	2.4	4.0	8.2	15.6	2.2
4	2.8	2.8	5.4	3.8	4.4	3.7	3.5	2.4	3.4	3.3	2.4	2.1	4.5	5.3	5.0	4.8	5.3	5.3	4.5	2.8	0.8	2.4	1.0	1.5	3.5	5.4	0.8
5	1.0	1.7	1.1	1.9	1.4	1.0	1.6	1.7	5.2	4.9	5.6	5.8	5.9	5.6	4.9	4.8	5.1	5.4	4.5	3.5	2.1	2.3	5.0	3.6	3.6	5.9	1.0
6	4.3	3.0	1.6	3.5	5.8	4.7	3.4	3.4	3.6	3.5	2.7	3.5	4.4	4.1	3.9	4.7	5.0	3.7	5.1	3.4	3.4	2.8	1.6	1.8	3.6	5.8	1.6
7	1.3	0.5	1.6	1.8	0.5	0.6	1.2	1.3	1.4	4.2	4.3	5.2	4.8	5.0	6.3	6.4	6.6	6.6	6.4	4.5	3.1	4.7	3.8	2.7	3.5	6.6	0.5
8	1.2	0.4	1.3	1.2	0.7	1.1	0.9	1.5	1.5	1.4	2.0	2.0	2.7	3.4	4.0	3.8	4.2	2.8	2.5	1.1	1.1	1.0	0.4	0.3	1.8	4.2	0.3
9	0.6	0.7	1.0	0.8	0.3	0.5	0.7	0.6	1.0	1.5	2.7	3.0	3.6	3.5	3.5	4.0	4.3	3.8	4.2	2.5	1.2	1.8	0.7	0.9	2.0	4.3	0.3
10	2.0	2.0	0.7	0.7	0.6	1.1	1.8	1.9	1.3	1.2	2.0	2.8	3.3	3.4	3.5	3.5	4.0	1.7	1.7	2.4	2.9	4.7	5.2	4.1	2.4	5.2	0.6
11	5.6	6.2	7.4	6.4	3.2	6.1	5.3	6.4	7.5	6.6	4.9	4.8	5.5	5.1	5.0	4.1	5.0	3.2	3.8	2.3	3.1	3.6	4.5	4.6	5.0	7.5	2.3
12	4.3	3.8	3.8	5.1	5.7	4.4	5.7	6.4	6.3	3.3	2.9	3.6	3.1	3.2	2.5	2.5	2.3	2.0	2.3	1.9	0.9	1.5	4.0	4.0	3.6	6.4	0.9
13	3.8	4.0	2.1	1.6	2.7	3.2	2.1	2.9	2.2	1.7	2.4	2.7	2.4	3.0	3.5	2.9	4.2	2.8	2.9	2.4	3.2	1.7	3.4	4.1	2.8	4.2	1.6
14	3.3	3.6	4.7	2.9	1.2	2.7	3.9	3.2	2.0	1.0	1.9	1.6	4.0	4.3	4.8	6.1	5.2	5.0	4.7	2.8	1.4	0.4	1.1	1.1	3.0	6.1	0.4
15	0.6	1.3	0.9	0.9	0.9	1.1	2.1	1.8	1.8	3.0	2.9	4.1	4.8	5.6	6.3	5.9	6.0	5.7	5.5	4.0	3.0	0.8	0.6	1.1	3.0	6.3	0.6
16	0.9	0.7	1.1	1.0	1.3	1.6	1.7	1.6	1.1	1.6	3.1	5.3	4.9	5.2	5.3	5.5	6.0	5.6	5.1	2.9	2.5	2.3	1.7	1.3	2.9	6.0	0.7
17	1.5	0.7	1.1	1.1	0.7	1.5	1.8	2.0	3.2	4.7	5.5	4.8	5.3	5.6	5.4	5.9	5.3	4.5	3.2	2.4	0.5	1.0	0.3	0.6	2.9	5.9	0.3
18	1.2	1.0	1.6	1.5	1.2	0.8	0.6	0.7	1.1	1.6	3.3	4.4	4.4	5.1	5.6	5.8	5.8	5.4	5.4	3.1	2.4	0.7	1.0	0.9	2.7	5.8	0.6
19	0.6	0.8	0.8	0.9	0.5	0.9	1.0	0.8	1.1	1.4	2.2	3.7	4.4	4.2	5.1	5.7	5.4	5.5	5.3	3.1	0.9	0.8	0.7	1.0	2.4	5.7	0.5
20	0.5	0.6	0.8	0.4	0.4	0.7	1.8	1.5	1.0	1.6	3.8	5.0	6.2	7.7	7.2	7.6	7.7	7.0	5.3	3.1	0.9	0.5	1.1	1.1	3.1	7.7	0.4
21	3.1	2.7	1.8	4.6	3.9	4.3	5.5	3.4	2.1	2.5	2.2	2.7	3.0	3.8	3.6	4.7	4.2	4.3	3.6	2.0	0.3	0.5	0.2	0.2	2.9	5.5	0.2
22	1.4	0.7	1.1	0.9	1.0	1.3	0.9	0.9	2.0	2.3	2.9	3.2	5.4	4.8	4.4	5.5	5.8	4.9	5.2	3.7	2.4	2.8	0.6	1.6	2.7	5.8	0.6
23	1.4	1.7	0.6	1.1	1.0	0.9	1.1	0.9	3.9	4.9	3.7	5.4	4.3	5.1	5.7	5.5	5.8	6.2	5.4	3.9	2.9	1.9	1.5	0.8	3.1	6.2	0.6
24	0.9	1.1	1.1	1.4	1.5	1.4	0.7	0.7	1.3	3.1	3.8	3.9	3.5	4.8	5.6	4.6	5.1	5.1	4.6	2.6	1.2	1.2	1.4	1.0	2.6	5.6	0.7
25	1.7	1.8	1.8	2.1	2.5	0.9	0.8	0.7	1.4	3.4	4.3	4.3	4.3	4.9	4.9	5.7	5.3	3.9	3.7	2.5	0.5	1.2	0.5	0.6	2.7	5.7	0.5
26	1.7	1.2	0.6	1.1	1.6	1.6	0.7	0.4	1.5	3.1	4.3	4.1	4.5	4.5	4.6	5.0	4.2	4.2	3.2	2.0	0.7	0.7	0.6	1.0	2.4	5.0	0.4
27	1.7	1.3	1.4	1.4	0.9	2.7	1.4	1.7	1.1	1.4	3.4	3.6	3.2	3.1	5.0	4.2	4.1	3.1	2.9	2.3	1.1	0.5	0.4	0.4	2.2	5.0	0.4
28	0.5	0.4	1.6	2.5	2.4	2.6	2.0	0.5	1.2	2.0	1.7	4.3	4.6	5.8	5.2	5.6	5.3	5.6	5.6	4.7	2.8	2.1	0.9	0.7	2.9	5.8	0.4
29	1.8	0.8	1.0	1.2	1.2	1.2	1.4	1.0	1.5	2.1	2.7	3.8	4.1	4.4	5.0	6.2	5.9	5.8	5.4	3.5	0.9	1.0	0.5	0.7	2.6	6.2	0.5
30	1.3	0.9	0.8	0.8	0.6	1.0	1.2	1.1	2.4	1.9	1.9	2.6	3.5	4.4	4.9	4.5	5.1	5.3	4.2	2.7	0.8	1.2	0.6	0.9	2.3	5.3	0.6
31	1.0	1.4	0.9	1.1	1.1	0.8	1.3	1.2	1.2	1.5	2.2	2.7	2.6	3.0	3.7	4.0	4.3	4.3	3.9	2.2	0.7	0.4	0.9	0.5	2.0	4.3	0.4
Avg	2.3	2.4	2.5	2.6	2.5	2.6	2.7	2.6	3.0	3.3	3.5	4.0	4.3	4.6	4.7	4.9	5.0	4.5	4.3	2.9	1.9	1.8	1.7	1.8	3.2	--	--
Max	12.4	14.3	15.1	14.8	14.9	12.9	13.2	13.9	15.6	13.6	9.8	10.2	8.7	7.7	7.2	7.6	7.7	7.0	6.4	5.1	5.6	4.9	5.5	7.8	--	15.6	--
Min	0.5	0.4	0.6	0.4	0.3	0.5	0.6	0.4	1.0	1.0	1.7	1.6	2.4	3.0	2.5	2.5	2.3	1.7	1.7	1.1	0.3	0.4	0.2	0.2	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.3	0.6	0.6	0.5	0.6	1.4	0.6	1.7	4.0	5.3	4.8	2.7	2.7	4.1	2.8	3.8	5.1	4.3	4.3	2.6	2.2	0.9	1.2	0.5	2.4	5.3	0.3
2	0.6	0.6	1.1	1.6	1.2	0.8	0.6	0.7	1.2	1.7	2.5	2.4	5.0	5.2	5.4	5.0	4.9	5.3	5.0	3.1	2.5	0.6	1.1	0.9	2.5	5.4	0.6
3	1.9	1.3	1.1	1.3	1.9	1.2	1.6	2.0	3.9	4.9	5.3	4.8	5.2	5.6	6.0	5.7	5.2	5.6	4.1	2.6	0.3	0.6	0.8	0.6	3.1	6.0	0.3
4	1.7	1.5	0.9	1.0	2.1	1.0	1.4	0.9	1.3	2.1	3.6	2.9	3.5	4.9	5.3	5.5	5.1	4.3	4.0	2.5	0.8	0.4	0.8	1.0	2.4	5.5	0.4
5	1.2	0.9	1.7	0.9	1.2	1.1	1.5	0.4	0.9	1.3	1.8	2.8	4.0	4.0	3.5	3.2	4.1	3.6	3.4	2.3	0.6	0.5	0.8	0.5	1.9	4.1	0.4
6	0.3	1.0	0.4	0.5	0.5	0.7	0.2	0.3	1.0	2.0	2.1	3.0	3.6	3.8	4.4	4.6	4.3	4.3	3.9	1.8	0.8	0.6	0.5	0.3	1.9	4.6	0.2
7	0.7	1.2	1.2	0.6	0.6	0.7	1.2	0.5	1.0	1.4	2.0	2.2	3.6	4.0	4.6	4.4	5.2	4.8	4.4	2.5	0.7	0.3	0.7	1.4	2.1	5.2	0.3
8	2.3	1.7	1.1	1.7	1.0	0.8	0.6	1.1	1.5	2.2	2.7	4.0	3.8	5.2	6.5	6.7	7.0	6.8	6.4	3.8	1.3	0.8	0.6	0.6	2.9	7.0	0.6
9	0.7	0.7	1.3	1.2	0.7	0.8	0.3	0.6	0.9	2.1	3.6	3.7	3.8	4.4	4.2	5.1	5.3	4.9	4.5	2.4	1.7	1.9	0.5	0.2	2.3	5.3	0.2
10	0.3	0.7	1.1	1.7	1.6	1.7	0.5	0.4	0.9	1.0	2.3	3.1	3.8	3.6	4.6	4.4	3.7	4.0	3.3	2.4	0.8	0.7	0.9	1.1	2.0	4.6	0.3
11	1.4	0.5	0.8	0.7	1.3	2.8	3.4	1.4	1.2	1.7	2.0	3.3	3.9	4.6	4.3	5.0	5.2	5.7	5.0	2.8	1.5	0.7	0.6	0.5	2.5	5.7	0.5
12	0.6	0.5	0.6	1.6	0.7	1.6	0.9	0.4	1.0	1.7	2.7	2.9	3.4	3.6	3.8	3.7	4.8	4.3	5.1	1.9	0.5	0.6	2.2	1.9	2.1	5.1	0.4
13	1.8	0.7	0.5	0.8	1.8	1.2	0.7	1.0	2.0	2.4	2.7	2.9	3.8	5.0	6.3	5.7	6.0	6.1	5.3	3.5	1.6	2.4	1.5	0.7	2.8	6.3	0.5
14	0.8	1.3	1.5	0.7	0.9	1.1	0.8	0.9	3.4	3.2	2.5	3.1	3.2	3.2	3.7	4.8	4.9	4.8	3.7	2.5	0.5	0.4	0.4	0.9	2.2	4.9	0.4
15	2.0	1.2	1.0	0.7	1.2	1.0	1.2	0.6	0.9	2.1	3.4	3.4	3.6	4.3	5.2	5.7	5.4	3.7	4.7	3.3	3.8	4.1	2.8	2.9	2.8	5.7	0.6
16	2.3	2.9	4.5	4.2	3.4	2.8	2.4	2.2	1.6	1.4	2.8	3.3	4.2	4.3	5.6	5.4	5.3	5.1	5.0	3.2	1.2	1.5	0.5	0.6	3.1	5.6	0.5
17	0.8	1.3	0.4	0.4	0.6	0.3	0.5	0.4	1.1	1.5	2.2	2.9	3.1	3.9	4.2	5.0	3.8	4.5	3.7	2.6	1.5	2.6	2.0	1.1	2.1	5.0	0.3
18	0.5	2.0	1.8	0.6	0.3	1.4	1.1	1.3	0.9	1.8	2.0	2.7	4.3	4.9	5.1	5.6	5.5	4.8	4.5	2.6	1.1	1.2	0.9	0.1	2.4	5.6	0.1
19	0.3	0.8	1.8	2.3	1.5	1.0	0.3	0.9	2.2	2.3	3.3	4.6	6.2	5.9	5.2	5.3	4.3	4.5	3.6	2.2	0.8	0.3	0.6	1.1	2.5	6.2	0.3
20	1.6	1.6	1.9	1.3	0.6	1.0	0.8	1.7	3.5	4.5	4.5	4.3	4.1	4.4	4.7	5.6	5.3	4.5	3.3	1.9	0.5	0.7	0.6	1.5	2.7	5.6	0.5
21	1.1	1.7	1.9	1.0	1.2	1.3	0.9	2.1	2.7	3.4	3.3	4.1	4.6	4.7	4.8	4.9	5.5	5.2	4.7	3.1	0.9	0.8	0.8	0.9	2.7	5.5	0.8
22	0.5	0.8	1.4	1.0	1.1	1.2	1.4	1.2	1.9	3.4	4.3	4.0	4.2	4.1	5.4	6.0	4.5	5.0	3.9	2.6	1.0	0.6	0.5	0.5	2.5	6.0	0.5
23	0.5	1.4	1.5	0.7	1.7	1.6	1.5	1.9	3.2	3.2	4.4	4.6	5.2	4.6	5.1	5.4	5.3	5.2	4.7	3.5	1.2	0.7	0.8	0.5	2.9	5.4	0.5
24	0.9	1.3	1.1	1.2	1.1	0.9	1.5	2.3	3.6	4.5	4.7	5.3	5.1	5.5	5.9	6.0	6.2	5.6	4.6	2.5	1.0	0.3	0.8	1.1	3.0	6.2	0.3
25	1.2	1.2	0.6	0.8	0.9	0.6	0.4	1.2	2.0	2.2	2.2	2.3	3.3	3.8	4.2	4.7	4.0	4.2	3.4	1.2	1.6	2.6	0.7	1.1	2.1	4.7	0.4
26	1.1	1.1	1.5	0.8	0.5	1.3	1.7	0.9	1.7	2.2	1.8	2.2	2.9	2.8	3.4	3.6	3.8	4.5	4.3	2.9	1.0	0.5	0.5	0.5	2.0	4.5	0.5
27	0.4	0.8	1.5	0.7	1.4	0.5	0.4	0.8	1.4	2.5	2.7	4.1	4.9	5.7	5.7	6.4	6.0	6.1	5.1	3.1	0.7	0.4	0.9	0.2	2.6	6.4	0.2
28	0.6	0.6	0.6	0.6	0.4	0.7	0.9	0.3	0.7	1.8	2.0	2.7	2.4	3.0	3.0	3.5	3.0	2.7	1.7	1.4	1.1	1.2	0.9	2.6	1.6	3.5	0.3
29	4.4	5.3	5.4	4.7	5.7	3.4	3.3	4.7	6.5	3.8	4.5	4.9	2.9	3.4	5.6	3.9	3.3	3.6	3.3	2.4	1.3	0.8	0.4	1.1	3.7	6.5	0.4
30	1.0	3.8	1.9	1.5	1.3	2.0	1.1	0.6	0.8	1.9	2.4	3.6	4.1	4.6	5.1	5.5	5.6	5.3	4.8	3.0	0.5	2.9	4.6	3.6	3.0	5.6	0.5
Avg	1.1	1.4	1.4	1.2	1.3	1.3	1.1	1.2	2.0	2.5	3.0	3.4	3.9	4.4	4.8	5.0	4.9	4.8	4.3	2.6	1.2	1.1	1.0	1.0	2.5	--	--
Max	4.4	5.3	5.4	4.7	5.7	3.4	3.4	4.7	6.5	5.3	5.3	5.3	6.2	5.9	6.5	6.7	7.0	6.8	6.4	3.8	3.8	4.1	4.6	3.6	--	7.0	--
Min	0.3	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.7	1.0	1.8	2.2	2.4	2.8	2.8	3.2	3.0	2.7	1.7	1.2	0.3	0.3	0.4	0.1	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	43	31	30	256	313	37	338	92	133	186	230	239	242	243	248	251	256	259	260	270	354	33	39	32	298	354	30
2	40	22	37	32	40	332	326	73	168	167	268	243	254	224	237	243	248	250	254	35	319	15	348	341	314	348	15
3	354	39	52	67	304	306	278	266	10	65	70	309	19	228	221	252	251	244	264	315	350	358	280	240	312	358	10
4	279	57	14	33	34	309	9	68	95	144	101	139	149	161	133	210	234	261	290	281	22	31	316	314	27	316	9
5	4	19	1	44	26	25	14	57	124	190	251	248	234	227	233	247	238	245	261	272	7	20	39	39	325	272	1
6	26	349	42	33	332	298	47	74	125	153	225	186	230	245	243	247	244	266	283	320	349	313	256	291	291	349	26
7	283	297	133	357	353	347	49	88	130	163	133	157	252	231	237	254	261	255	258	284	357	273	19	40	282	357	19
8	98	55	4	46	72	76	88	133	169	174	181	208	205	211	215	218	214	216	225	226	220	243	261	76	181	261	4
9	196	162	168	158	195	228	240	249	242	210	216	216	232	229	239	236	246	257	237	56	93	177	315	8	219	315	8
10	17	358	31	18	62	62	71	351	22	60	79	257	293	270	241	256	302	300	284	346	32	17	9	41	359	358	9
11	340	29	39	37	352	6	31	93	135	162	162	211	209	259	242	250	237	246	255	299	345	36	34	34	333	352	6
12	274	259	278	339	339	7	27	277	149	105	133	284	205	191	227	255	241	251	251	332	329	293	295	4	280	339	4
13	350	316	291	2	296	306	295	51	193	215	253	255	251	232	244	233	243	241	250	264	294	246	249	210	264	350	2
14	315	11	51	99	101	10	86	116	181	202	202	216	215	215	209	214	218	199	205	197	188	183	162	192	185	315	10
15	221	342	183	299	65	93	96	164	187	189	193	209	205	229	224	226	222	213	210	215	228	210	250	277	211	342	65
16	248	11	344	27	31	102	95	121	182	197	219	204	208	206	216	227	229	225	218	255	227	212	217	184	209	344	11
17	155	87	168	258	280	284	268	246	230	228	225	242	254	256	254	249	251	250	251	249	308	49	41	38	252	308	38
18	89	50	31	28	52	51	37	48	61	59	45	17	32	262	345	192	336	19	13	8	29	31	46	8	32	345	8
19	13	308	61	123	50	55	49	46	60	50	47	77	166	183	226	228	194	255	264	347	1	335	326	284	19	347	1
20	307	277	289	2	0	40	10	200	136	143	231	247	241	242	251	247	248	258	257	274	297	24	306	63	277	307	0
21	34	24	35	38	40	60	71	74	80	130	201	81	232	246	239	254	250	255	251	314	4	20	6	0	13	314	0
22	4	344	20	31	40	26	36	178	131	142	134	200	207	236	235	246	220	243	268	312	325	314	347	58	307	347	4
23	43	63	80	64	23	38	39	4	167	264	246	250	245	253	246	243	243	261	252	293	351	338	314	322	305	351	4
24	37	48	50	63	57	63	58	67	68	170	160	196	234	234	219	209	211	225	199	114	36	39	52	172	112	234	36
25	222	306	322	253	55	279	353	73	155	183	190	226	237	230	234	227	247	257	258	268	281	33	16	291	259	353	16
26	300	20	37	54	44	71	48	110	179	163	249	263	260	232	248	246	253	242	248	294	350	26	291	336	294	350	20
27	319	293	348	322	27	41	355	99	101	259	258	257	234	258	225	216	228	241	246	347	18	344	357	30	305	357	18
28	353	252	4	34	26	18	45	70	147	173	77	139	221	210	223	227	242	233	236	291	334	299	286	8	289	353	4
29	294	16	297	305	308	326	306	76	173	173	150	201	237	248	251	253	246	251	249	326	7	328	299	323	280	328	7
30	344	33	34	3	42	42	33	73	153	156	121	235	243	227	227	239	236	247	225	228	257	282	30	67	268	344	3
Avg	344	6	22	23	22	18	27	84	141	167	186	223	231	231	234	237	242	248	251	295	339	346	333	1	280	--	--
Max	354	358	348	357	353	347	355	351	242	264	268	309	293	270	345	256	336	300	290	347	357	358	357	341	--	358	--
Min	4	11	1	2	0	6	9	4	10	50	45	17	19	161	133	192	194	19	13	8	1	15	6	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	326	342	320	335	343	16	301	336	80	227	231	183	249	248	248	244	251	246	253	282	294	323	313	355	291	355	16
2	31	50	53	34	25	18	22	37	26	36	36	64	66	60	33	41	6	50	351	348	15	61	70	45	36	351	6
3	46	44	46	46	44	36	35	38	46	41	48	68	90	87	92	139	110	99	44	54	67	65	40	72	61	139	35
4	85	117	71	68	78	68	54	38	76	70	84	172	210	216	190	223	213	212	210	206	119	188	11	195	133	223	11
5	134	164	42	39	84	222	30	101	153	154	172	198	191	183	217	204	215	217	229	238	224	217	189	187	183	238	30
6	195	102	122	87	52	46	44	42	92	120	151	187	197	231	212	203	189	241	218	212	198	178	131	91	154	241	42
7	161	127	124	140	97	331	52	131	222	155	183	178	194	194	194	221	221	228	240	251	241	254	250	252	197	331	52
8	194	73	137	92	69	92	127	160	112	327	256	229	212	239	222	234	245	266	257	279	305	311	234	346	228	346	69
9	336	28	360	11	286	320	51	169	177	159	223	205	249	239	256	237	243	248	260	278	340	344	271	329	276	360	11
10	10	357	300	314	334	305	42	33	200	200	215	246	201	247	228	284	90	180	186	35	36	46	51	55	322	357	10
11	53	62	55	49	338	39	61	46	40	47	81	43	68	78	46	53	41	46	52	67	78	64	58	64	54	338	39
12	64	72	72	89	88	95	65	64	78	99	50	57	38	33	52	161	183	232	249	212	334	13	54	61	70	334	13
13	67	59	43	186	134	64	356	74	70	85	14	302	152	166	290	200	87	63	42	57	59	53	53	70	68	356	14
14	64	68	71	83	54	54	63	66	308	227	140	194	242	224	236	259	262	265	261	277	320	133	292	30	290	320	30
15	58	72	51	14	41	28	41	74	221	201	198	216	227	240	236	240	248	260	258	260	254	289	22	290	268	290	14
16	18	26	8	321	34	50	44	60	143	162	197	206	238	236	222	222	233	242	241	236	246	292	302	60	259	321	8
17	68	28	48	15	37	52	51	69	148	190	197	223	223	227	230	216	249	269	256	238	312	44	345	130	246	345	15
18	88	29	51	261	14	45	65	109	167	244	169	188	236	231	243	230	229	239	264	266	269	315	40	19	251	315	14
19	11	45	33	24	259	47	49	93	235	277	242	246	244	246	235	252	250	248	248	247	274	325	329	349	285	349	11
20	336	18	321	339	324	344	22	141	161	230	257	249	243	250	253	263	257	260	254	260	282	50	333	22	289	344	18
21	51	343	41	63	75	67	58	29	137	172	157	155	227	234	255	254	251	245	250	279	282	316	284	356	284	356	29
22	22	26	47	37	353	16	3	122	156	172	152	174	184	203	210	216	207	210	218	231	217	235	151	84	176	353	3
23	88	120	264	22	48	318	46	107	146	180	199	219	216	221	209	224	214	224	230	242	235	263	292	1	220	318	1
24	37	82	100	50	47	4	29	243	210	146	185	182	195	213	242	209	217	226	236	256	270	50	38	28	193	270	4
25	38	38	12	36	33	51	13	193	195	170	180	206	219	218	235	231	235	242	244	271	341	38	35	51	268	341	12
26	33	48	5	29	38	38	297	182	215	234	218	208	224	228	224	234	244	240	245	242	351	9	63	44	270	351	5
27	34	40	47	38	30	35	131	84	183	160	174	178	210	217	252	246	244	261	272	277	313	353	280	293	265	353	30
28	304	359	44	40	41	39	24	197	203	245	168	194	203	232	223	229	223	225	246	251	237	239	47	98	230	359	24
29	52	27	51	39	54	43	49	83	159	212	227	234	233	227	229	254	249	247	256	263	281	38	30	276	279	281	27
30	42	26	158	134	35	35	47	82	131	127	294	241	255	230	237	243	242	246	254	275	309	315	8	244	271	315	8
31	46	47	2	40	351	359	49	63	90	138	279	195	238	249	224	251	229	254	252	262	297	358	35	335	320	359	2
Avg	46	49	44	40	35	31	41	86	148	171	190	200	215	223	231	230	230	239	249	260	294	350	8	27	272	--	--
Max	336	359	360	339	353	359	356	336	308	327	294	302	255	250	290	284	262	269	351	348	351	358	345	356	--	360	--
Min	10	18	2	11	14	4	3	29	26	36	14	43	38	33	33	41	6	46	42	35	15	9	8	1	--	--	1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	295	298	300	298	310	34	300	191	224	91	61	50	114	251	241	253	248	237	262	285	355	38	22	343	301	355	22
2	257	332	34	32	350	347	23	98	158	207	194	212	202	202	217	227	239	235	222	245	239	223	34	41	237	350	23
3	39	43	3	59	30	23	53	104	169	210	206	228	218	211	202	233	239	235	245	281	295	294	308	17	266	308	3
4	32	21	33	41	36	352	21	121	227	238	221	228	246	249	238	242	244	237	240	275	332	298	276	6	285	352	6
5	43	351	16	301	39	13	83	73	180	169	192	268	217	210	191	218	242	223	240	267	18	338	350	294	275	351	13
6	294	5	317	302	318	359	279	130	245	234	255	256	267	247	239	243	237	253	246	267	315	335	2	1	282	359	1
7	35	334	307	328	277	16	24	61	173	185	231	170	239	248	250	237	248	248	255	263	296	64	328	321	280	334	16
8	331	330	3	301	307	33	345	168	196	246	227	251	245	246	244	255	252	263	260	264	269	285	313	9	277	345	3
9	17	3	317	347	277	318	308	115	201	232	247	239	262	250	242	257	257	252	250	263	303	324	117	260	273	347	3
10	345	204	345	40	37	40	335	156	177	210	190	243	245	235	249	233	244	250	269	280	13	49	39	46	276	345	13
11	36	0	334	306	71	34	52	83	210	228	265	235	256	239	249	252	251	249	254	270	312	345	300	297	287	345	0
12	16	300	288	25	25	38	317	177	194	204	268	261	270	239	257	241	247	253	250	277	323	22	318	325	285	325	16
13	333	8	289	11	319	318	24	165	261	246	239	240	246	251	246	248	246	245	251	265	319	340	321	6	285	340	6
14	331	287	303	317	34	43	333	259	232	229	222	194	251	232	242	258	244	248	244	256	350	297	30	26	278	350	26
15	26	351	46	52	63	32	45	80	68	163	201	204	220	253	237	213	235	238	249	268	56	41	80	69	67	351	26
16	73	67	59	66	60	61	87	118	191	233	256	263	259	245	240	241	252	257	260	268	306	344	140	307	260	344	59
17	16	45	26	12	340	295	284	135	196	203	249	252	233	249	254	260	208	247	261	278	346	1	339	257	280	346	1
18	323	28	5	250	332	34	24	80	207	137	231	240	233	223	238	236	229	249	240	259	336	28	268	310	274	336	5
19	336	2	37	27	271	20	38	78	151	185	154	206	195	216	216	214	210	232	263	283	335	336	300	44	272	336	2
20	47	33	26	37	330	354	19	96	156	170	156	181	205	227	223	207	222	230	264	290	296	25	359	24	300	359	19
21	11	33	56	29	318	51	28	112	149	179	204	234	234	245	219	215	220	215	225	244	303	38	330	20	262	330	11
22	333	31	50	40	349	27	38	75	123	152	199	208	211	220	223	232	227	233	259	282	336	341	316	315	293	349	27
23	27	43	27	359	64	57	66	119	144	166	202	177	204	210	219	195	220	211	224	241	221	132	63	185	165	359	27
24	73	81	81	50	78	36	61	90	147	190	204	218	207	200	207	230	223	222	222	254	282	344	2	42	166	344	2
25	38	48	48	276	279	1	3	83	137	173	127	245	212	241	259	247	242	251	252	285	10	35	316	12	297	316	1
26	34	350	336	318	329	45	48	90	159	152	212	206	228	238	220	251	253	251	250	267	303	8	282	278	275	350	8
27	296	232	3	333	17	328	43	112	258	263	237	238	248	252	245	249	251	249	249	251	290	360	351	281	279	360	3
28	276	338	331	298	285	12	284	157	225	163	248	246	223	194	200	181	182	178	211	293	337	29	354	89	251	354	12
29	68	68	53	52	53	94	55	58	47	87	114	142	169	200	224	217	234	259	265	280	342	277	14	25	65	342	14
30	104	74	292	358	28	34	125	184	164	265	224	248	243	243	247	259	243	257	246	263	10	79	153	145	232	358	10
Avg	8	9	3	358	356	20	20	114	183	196	214	226	229	232	233	235	237	241	248	269	322	357	345	353	275	--	--
Max	345	351	345	359	350	359	345	259	261	265	268	268	270	253	259	260	257	263	269	293	355	360	359	343	--	360	--
Min	11	0	3	11	17	1	3	58	47	87	61	50	114	194	191	181	182	178	211	241	10	1	2	1	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.25	1.51	1.91	1.18	1.25	1.47	1.20	-0.03	-0.90	-0.98	-1.17	-1.03	-1.51	-1.57	-1.08	-0.91	-0.73	-0.41	-0.02	0.19	0.68	1.35	1.61	1.61	0.20	1.91	-1.57
2	1.76	1.41	1.27	1.67	1.10	1.11	0.86	-0.32	-0.84	-1.15	-0.94	-1.07	-1.09	-1.68	-1.42	-1.05	-0.76	-0.48	-0.12	0.38	0.41	1.01	1.19	1.54	0.12	1.76	-1.68
3	1.73	1.47	0.62	0.49	0.64	0.78	0.56	-0.10	-0.82	-1.39	-1.32	-1.14	-1.64	-1.77	-1.34	-1.10	-0.77	-0.56	-0.13	0.09	0.39	0.87	0.82	0.76	-0.12	1.73	-1.77
4	1.11	0.96	1.51	1.08	1.36	1.25	1.21	-0.08	-0.84	-0.85	-1.07	-1.79	-1.90	-2.27	-1.54	-1.02	-0.52	-0.22	-0.08	0.39	0.81	1.33	0.98	1.04	0.04	1.51	-2.27
5	1.35	1.27	1.28	1.52	1.23	1.23	1.46	-0.11	-1.08	-1.37	-0.95	-1.18	-1.40	-1.67	-1.43	-0.96	-0.99	-0.57	-0.09	0.29	0.82	1.16	1.88	1.77	0.14	1.88	-1.67
6	1.87	1.67	1.89	1.64	1.41	1.25	1.81	-0.30	-1.06	-1.43	-1.36	-1.65	-1.37	-1.34	-1.26	-1.09	-1.01	-0.60	-0.21	0.11	0.28	0.45	0.41	0.90	0.04	1.89	-1.65
7	1.05	1.34	1.68	1.60	1.08	1.41	0.65	-0.43	-1.00	-1.69	-1.82	-1.67	-1.33	-1.34	-1.35	-1.01	-0.76	-0.45	-0.12	-0.08	0.28	0.42	0.98	1.28	-0.05	1.68	-1.82
8	0.89	0.94	0.61	0.68	0.64	0.71	0.62	-0.50	-1.21	-1.63	-2.03	-1.92	-1.84	-1.79	-1.36	-1.16	-1.08	-0.64	-0.34	-0.25	-0.22	-0.24	-0.27	-0.24	-0.48	0.94	-2.03
9	-0.30	-0.29	-0.33	-0.25	-0.22	-0.24	-0.18	-0.19	-0.25	-0.45	-0.57	-0.90	-0.79	-0.64	-0.42	-0.31	-0.34	-0.04	0.10	0.29	0.12	0.11	0.24	0.22	-0.24	0.29	-0.90
10	0.29	0.79	0.82	0.81	0.47	0.61	0.26	-0.33	-0.72	-1.30	-1.43	-1.14	-0.86	-0.81	-0.91	-0.79	-0.51	-0.47	-0.12	0.25	0.39	1.07	1.10	1.06	-0.06	1.10	-1.43
11	1.80	1.54	1.09	0.79	0.78	1.67	1.37	-0.41	-0.90	-1.58	-1.35	-1.23	-1.33	-0.96	-1.06	-0.87	-0.89	-0.47	-0.10	0.30	1.17	0.95	1.15	1.03	0.10	1.80	-1.58
12	1.12	0.82	1.06	1.13	1.83	1.06	1.66	-0.16	-0.88	-0.81	-1.21	-0.87	-1.06	-1.30	-0.81	-0.61	-0.58	-0.19	0.07	1.26	1.57	1.12	1.15	1.22	0.27	1.83	-1.30
13	1.38	1.39	1.63	2.85	1.80	1.95	1.64	0.11	-0.97	-1.36	-1.16	-1.15	-1.22	-1.37	-1.54	-1.50	-1.06	-0.76	-0.11	0.31	0.55	0.25	0.44	0.34	0.10	2.85	-1.54
14	0.34	0.61	0.90	0.77	0.56	0.47	0.53	-0.69	-1.22	-1.50	-1.99	-1.78	-1.88	-1.88	-1.94	-1.53	-1.21	-0.86	-0.24	0.10	0.20	0.22	0.19	0.21	-0.48	0.90	-1.99
15	0.28	0.50	0.40	0.66	0.91	0.64	0.23	-0.66	-1.29	-1.80	-2.09	-1.99	-2.13	-1.54	-1.47	-1.28	-1.03	-0.75	-0.26	0.00	0.07	0.20	0.21	0.23	-0.50	0.91	-2.13
16	0.45	0.88	0.66	1.10	1.40	0.64	0.47	-0.67	-1.35	-1.74	-1.35	-1.83	-2.18	-2.20	-1.80	-1.32	-1.03	-0.71	-0.32	-0.04	0.02	0.02	-0.01	-0.02	-0.46	1.40	-2.20
17	0.11	0.07	0.09	0.10	0.18	0.06	-0.20	-0.31	-0.55	-0.93	-1.06	-0.97	-0.81	-0.87	-1.06	-0.95	-0.88	-0.72	-0.25	-0.02	0.29	1.08	0.86	0.81	-0.25	1.08	-1.06
18	0.23	0.20	0.17	0.16	0.12	0.10	0.05	-0.53	-1.17	-1.54	-1.58	-1.54	-1.62	-1.52	-1.37	-1.35	-1.07	-0.70	-0.31	0.19	0.20	0.13	0.18	0.16	-0.52	0.23	-1.62
19	0.27	0.32	0.48	0.28	0.25	0.21	0.16	-0.46	-0.92	-1.20	-1.64	-1.52	-1.59	-1.53	-1.47	-1.33	-1.22	-0.61	-0.20	0.26	1.06	1.47	1.89	1.31	-0.24	1.89	-1.64
20	1.45	1.69	1.97	2.52	2.32	1.41	1.09	-0.42	-1.05	-1.14	-1.20	-1.11	-1.26	-1.23	-1.30	-0.96	-0.84	-0.54	-0.13	0.44	0.52	1.67	1.57	1.59	0.29	2.52	-1.30
21	2.86	1.89	1.43	1.52	0.92	0.56	0.36	-0.62	-0.79	-1.20	-1.20	-1.72	-1.52	-1.26	-1.22	-1.02	-0.86	-0.58	-0.15	0.30	0.80	1.29	1.69	1.39	0.12	2.86	-1.72
22	1.74	1.37	1.39	1.97	1.56	1.06	0.49	-0.34	-0.79	-1.31	-1.51	-1.91	-1.71	-1.29	-1.29	-1.10	-1.23	-0.62	-0.09	0.34	1.51	1.68	1.74	1.90	0.15	1.97	-1.91
23	1.45	1.32	1.09	1.39	1.99	1.70	1.40	-0.27	-1.06	-0.99	-1.14	-1.17	-1.27	-1.05	-1.03	-1.18	-0.89	-0.54	-0.11	0.23	1.38	1.61	1.42	1.40	0.24	1.99	-1.27
24	1.74	1.62	0.70	0.48	0.47	0.35	0.15	-0.35	-0.89	-1.32	-1.98	-2.08	-1.32	-1.37	-1.58	-1.39	-1.01	-0.43	-0.38	0.23	0.62	0.57	0.80	0.29	-0.25	1.74	-2.08
25	0.18	0.18	0.36	0.50	0.54	0.89	1.12	-0.71	-1.28	-1.85	-2.24	-1.58	-1.37	-1.52	-1.33	-1.42	-0.95	-0.59	-0.27	0.05	0.32	0.67	0.45	0.60	-0.38	1.12	-2.24
26	0.57	1.08	0.88	0.52	0.48	0.59	0.45	-0.68	-0.75	-0.97	-0.91	-1.02	-1.05	-1.30	-1.26	-1.15	-0.81	-0.65	-0.18	0.11	1.06	1.90	1.44	1.57	0.00	1.90	-1.30
27	1.60	1.52	1.98	1.91	1.44	0.68	0.54	-0.63	-1.07	-0.68	-0.78	-0.97	-1.37	-1.15	-1.48	-1.61	-1.18	-0.60	-0.22	0.28	1.43	1.78	1.40	1.02	0.16	1.98	-1.61
28	1.08	1.03	1.28	1.88	1.31	0.97	1.32	-0.52	-0.89	-0.92	-1.46	-1.97	-1.35	-1.77	-1.68	-1.30	-1.00	-0.70	-0.21	0.26	1.03	1.23	1.32	1.88	0.03	1.88	-1.97
29	1.53	2.13	2.42	2.83	2.09	2.03	1.62	-0.40	-0.94	-1.50	-1.44	-1.44	-1.20	-1.14	-1.04	-0.84	-0.88	-0.49	0.03	0.84	2.26	1.89	1.85	2.19	0.52	2.83	-1.50
30	2.21	2.62	2.73	2.20	2.22	1.90	1.71	-0.64	-1.40	-1.49	-1.61	-1.23	-1.27	-1.81	-1.43	-1.17	-0.93	-0.54	-0.21	0.08	0.48	0.52	0.94	0.69	0.19	2.73	-1.81
Avg	1.11	1.13	1.13	1.20	1.07	0.95	0.82	-0.39	-0.96	-1.27	-1.39	-1.42	-1.41	-1.43	-1.31	-1.11	-0.90	-0.55	-0.16	0.24	0.68	0.93	0.99	0.99	-0.04	--	--
Max	2.86	2.62	2.73	2.85	2.32	2.03	1.81	0.11	-0.25	-0.45	-0.57	-0.87	-0.79	-0.64	-0.42	-0.31	-0.34	-0.04	0.10	1.26	2.26	1.90	1.89	2.19	--	2.86	--
Min	-0.30	-0.29	-0.33	-0.25	-0.22	-0.24	-0.20	-0.71	-1.40	-1.85	-2.24	-2.08	-2.18	-2.27	-1.94	-1.61	-1.23	-0.86	-0.38	-0.25	-0.22	-0.24	-0.27	-0.24	--	--	-2.27

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.47	0.73	1.30	1.39	0.83	1.26	0.73	-0.51	-1.04	-1.31	-1.26	-1.39	-1.33	-1.52	-1.29	-1.09	-0.91	-0.58	-0.16	0.14	0.49	0.59	0.62	0.49	-0.14	1.39	-1.52
2	0.30	0.12	0.08	0.07	0.05	0.06	-0.06	-0.51	-0.78	-1.17	-1.47	-1.61	-1.59	-1.53	-1.38	-1.22	-1.00	-0.58	-0.30	0.03	0.17	0.18	0.12	0.08	-0.50	0.30	-1.61
3	0.07	0.02	0.03	0.03	0.02	0.00	-0.11	-0.51	-0.86	-1.05	-1.18	-1.46	-1.53	-1.87	-1.42	-1.48	-0.89	-0.57	-0.13	0.21	0.30	0.37	0.32	0.41	-0.47	0.41	-1.87
4	0.31	0.23	0.36	0.22	0.19	0.11	0.01	-0.26	-0.61	-1.17	-1.35	-1.82	-1.99	-1.72	-2.11	-1.30	-1.28	-0.81	-0.28	0.09	0.31	0.20	0.36	0.23	-0.50	0.36	-2.11
5	0.40	0.51	1.09	1.77	0.83	0.72	1.22	-0.80	-1.26	-1.81	-2.13	-2.10	-2.39	-2.22	-1.49	-1.75	-1.23	-0.93	-0.27	-0.01	-0.01	-0.09	0.00	-0.11	-0.50	1.77	-2.39
6	-0.18	0.18	0.22	0.16	0.05	0.04	-0.20	-0.73	-1.50	-1.85	-1.82	-1.57	-2.24	-1.38	-1.45	-1.58	-1.85	-0.69	-0.49	-0.05	0.08	0.10	0.21	0.30	-0.68	0.30	-2.24
7	0.25	0.11	0.24	0.27	0.24	0.49	0.15	-0.84	-1.06	-2.14	-2.11	-2.56	-2.28	-2.56	-2.58	-1.68	-1.36	-0.89	-0.39	-0.13	-0.10	-0.08	-0.06	-0.02	-0.80	0.49	-2.58
8	-0.14	0.10	-0.06	0.09	0.27	0.23	-0.29	-0.99	-0.89	-0.97	-1.50	-1.45	-1.69	-1.44	-1.58	-1.14	-0.86	-0.65	-0.49	-0.16	-0.17	-0.02	0.02	0.44	-0.56	0.44	-1.69
9	0.56	1.22	0.98	0.68	0.59	0.55	0.12	-0.80	-0.87	-1.27	-1.40	-1.46	-1.27	-1.55	-1.50	-1.38	-0.96	-0.80	-0.40	-0.09	0.10	0.24	0.25	0.49	-0.33	1.22	-1.55
10	0.39	0.37	0.68	0.79	1.04	0.73	0.36	-0.70	-0.91	-1.17	-1.44	-1.26	-1.94	-1.40	-1.47	-1.35	-0.90	-0.94	-0.55	-0.11	0.00	-0.11	0.00	0.05	-0.41	1.04	-1.94
11	0.12	0.19	0.14	0.15	0.23	0.06	-0.21	-0.58	-0.81	-1.39	-1.41	-1.34	-1.71	-1.69	-1.64	-1.37	-1.11	-0.54	-0.20	0.04	0.23	0.35	0.35	0.35	-0.49	0.35	-1.71
12	0.39	0.36	0.25	0.20	0.17	0.14	-0.06	-0.60	-1.07	-1.27	-1.64	-1.75	-1.65	-1.65	-1.58	-1.43	-0.92	-0.76	-0.46	-0.08	0.63	0.77	0.42	0.45	-0.46	0.77	-1.75
13	0.49	0.29	0.12	0.12	0.13	0.15	-0.03	-0.88	-1.15	-1.17	-1.53	-1.25	-1.47	-1.81	-1.52	-1.42	-1.20	-0.62	-0.18	0.18	0.17	0.41	0.66	0.43	-0.46	0.66	-1.81
14	0.30	0.23	0.24	0.28	0.66	0.68	-0.03	-0.48	-0.47	-0.82	-1.67	-1.29	-1.39	-1.63	-1.59	-1.10	-0.85	-0.65	-0.27	0.07	0.29	0.73	0.95	1.10	-0.28	1.10	-1.67
15	0.89	0.97	0.75	1.14	1.10	1.37	0.30	-0.95	-1.01	-1.43	-1.64	-1.58	-1.68	-1.29	-1.44	-1.31	-0.95	-0.61	-0.24	0.10	0.35	0.48	1.25	0.93	-0.19	1.37	-1.68
16	1.37	1.25	1.33	1.24	1.43	1.14	0.47	-0.84	-1.17	-1.16	-1.77	-2.18	-1.52	-1.49	-1.74	-1.57	-1.07	-0.71	-0.27	0.16	0.27	0.26	0.26	0.85	-0.23	1.43	-2.18
17	0.89	1.39	1.25	1.87	1.69	1.76	0.87	-0.33	-1.49	-2.00	-2.20	-1.63	-1.94	-1.73	-1.49	-1.56	-0.89	-0.49	-0.19	-0.09	0.16	0.87	0.53	0.26	-0.19	1.87	-2.20
18	0.34	0.44	0.57	0.56	0.54	0.65	-0.07	-0.80	-1.03	-1.14	-2.04	-2.53	-1.42	-1.72	-1.42	-1.61	-1.37	-0.91	-0.38	-0.03	0.20	0.39	1.11	1.00	-0.44	1.11	-2.53
19	1.31	1.08	1.19	1.51	0.79	1.32	0.10	-0.97	-0.79	-0.85	-1.17	-1.26	-1.35	-1.36	-1.58	-1.22	-0.95	-0.76	-0.38	0.05	0.14	0.35	0.56	0.87	-0.14	1.51	-1.58
20	1.36	1.82	1.48	1.25	1.30	1.22	0.17	-0.92	-0.96	-1.07	-1.01	-1.07	-1.42	-1.23	-1.13	-0.99	-0.78	-0.61	-0.24	0.18	0.34	1.68	1.37	1.50	0.09	1.82	-1.42
21	1.03	0.32	0.28	0.36	0.24	0.35	-0.02	-0.63	-1.07	-1.68	-1.86	-2.09	-1.46	-1.60	-1.05	-0.89	-0.95	-0.69	-0.21	0.18	0.60	1.33	1.34	1.50	-0.28	1.50	-2.09
22	1.57	2.11	2.68	2.69	2.11	2.00	0.64	-0.83	-1.52	-1.66	-1.88	-2.17	-2.72	-2.24	-1.98	-1.74	-1.55	-1.10	-0.42	0.06	0.23	0.26	0.51	0.71	-0.18	2.69	-2.72
23	0.89	0.64	0.60	1.56	0.74	1.19	0.25	-0.78	-1.39	-1.85	-1.87	-1.63	-1.70	-1.79	-1.89	-1.36	-1.38	-0.89	-0.34	0.16	0.31	0.30	0.24	1.32	-0.36	1.56	-1.89
24	1.34	0.75	0.58	0.90	1.08	1.60	0.58	-0.55	-0.85	-1.92	-1.96	-2.16	-1.72	-1.96	-1.16	-1.85	-1.31	-0.87	-0.33	0.33	0.35	0.64	1.14	1.57	-0.24	1.60	-2.16
25	1.45	1.56	1.32	1.62	1.16	1.13	0.42	-0.61	-1.06	-2.06	-2.45	-1.86	-1.77	-1.88	-1.57	-1.31	-1.10	-0.76	-0.30	0.15	0.89	1.55	1.01	1.70	-0.11	1.70	-2.45
26	2.12	1.92	1.83	1.73	1.63	0.92	0.23	-0.48	-0.83	-0.90	-1.60	-1.99	-1.80	-1.68	-1.45	-1.18	-0.94	-0.77	-0.29	0.32	0.90	1.95	2.06	1.59	0.14	2.12	-1.99
27	1.90	1.30	1.26	1.81	1.62	0.79	0.04	-0.61	-0.98	-1.31	-1.88	-2.10	-1.49	-1.28	-1.00	-1.14	-0.91	-0.66	-0.37	0.15	0.39	0.84	0.96	0.70	-0.08	1.90	-2.10
28	1.28	1.64	1.58	1.31	0.78	0.92	0.06	-0.56	-0.82	-0.78	-1.33	-2.04	-1.97	-1.31	-1.60	-1.42	-1.42	-0.95	-0.26	0.07	0.16	0.16	0.49	0.41	-0.23	1.64	-2.04
29	0.69	0.97	1.00	0.99	1.07	0.94	0.05	-0.80	-1.22	-1.15	-1.28	-1.44	-1.54	-1.76	-1.56	-1.14	-0.99	-0.75	-0.30	0.04	0.28	0.92	1.27	0.65	-0.21	1.27	-1.76
30	0.91	1.00	0.41	0.50	1.09	1.09	0.02	-0.96	-1.51	-1.61	-1.22	-1.49	-1.33	-1.51	-1.65	-1.04	-1.18	-0.76	-0.28	0.07	0.30	0.27	0.49	0.25	-0.34	1.09	-1.65
31	0.64	0.98	0.95	0.84	0.99	0.58	-0.07	-0.91	-0.96	-1.38	-1.51	-1.85	-1.54	-1.29	-1.69	-1.04	-1.27	-0.69	-0.34	0.13	0.25	0.95	1.20	0.98	-0.25	1.20	-1.85
Avg	0.76	0.80	0.80	0.91	0.80	0.78	0.18	-0.70	-1.03	-1.37	-1.63	-1.72	-1.70	-1.65	-1.55	-1.34	-1.11	-0.74	-0.31	0.07	0.28	0.54	0.64	0.69	-0.32	--	--
Max	2.12	2.11	2.68	2.69	2.11	2.00	1.22	-0.26	-0.47	-0.78	-1.01	-1.07	-1.27	-1.23	-1.00	-0.89	-0.78	-0.49	-0.13	0.33	0.90	1.95	2.06	1.70	--	2.69	--
Min	-0.18	0.02	-0.06	0.03	0.02	0.00	-0.29	-0.99	-1.52	-2.14	-2.45	-2.56	-2.72	-2.56	-2.58	-1.85	-1.85	-1.10	-0.55	-0.16	-0.17	-0.11	-0.06	-0.11	--	--	-2.72

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.03	1.15	1.55	1.59	1.38	1.17	0.04	-0.67	-0.81	-1.27	-1.61	-1.61	-1.68	-1.27	-1.27	-0.82	-0.83	-0.67	-0.21	0.09	0.30	0.48	1.86	1.37	-0.03	1.86	-1.68
2	1.12	1.24	1.95	2.62	2.07	1.30	0.22	-0.92	-1.31	-0.99	-1.53	-1.46	-2.01	-2.23	-1.95	-1.34	-1.12	-0.79	-0.45	0.24	0.32	0.21	0.93	1.35	-0.11	2.62	-2.23
3	1.65	1.87	1.40	1.11	1.56	1.61	0.53	-1.10	-1.48	-1.52	-2.07	-1.57	-1.86	-2.11	-2.39	-1.24	-1.01	-0.74	-0.32	0.21	0.57	0.98	0.93	1.31	-0.15	1.87	-2.39
4	1.56	0.99	1.69	2.07	1.54	0.85	0.22	-0.83	-0.63	-0.74	-1.76	-1.37	-1.38	-1.23	-1.43	-1.12	-1.07	-0.75	-0.33	0.18	0.61	1.00	0.75	0.62	-0.02	2.07	-1.76
5	1.68	1.60	2.13	1.27	1.49	1.52	0.30	-0.77	-0.93	-1.40	-1.40	-1.21	-1.93	-2.24	-2.08	-1.49	-1.09	-1.10	-0.42	0.29	0.82	1.71	1.21	1.37	-0.03	2.13	-2.24
6	1.49	2.25	1.86	2.12	1.75	2.08	0.61	-0.58	-0.69	-0.95	-1.25	-1.13	-1.04	-1.12	-1.42	-1.29	-1.09	-0.71	-0.26	0.36	0.58	1.33	2.03	1.94	0.29	2.25	-1.42
7	2.57	1.25	0.98	1.63	1.35	1.45	0.45	-0.58	-0.99	-1.31	-1.15	-1.53	-1.38	-1.21	-1.10	-1.23	-1.00	-0.53	-0.18	0.36	0.43	0.93	1.02	1.08	0.05	2.57	-1.53
8	0.49	0.79	1.57	0.96	1.20	1.97	0.74	-0.76	-0.98	-0.87	-1.36	-1.16	-1.31	-1.30	-1.46	-1.08	-0.88	-0.62	-0.26	0.18	0.54	0.40	0.54	0.86	-0.08	1.97	-1.46
9	1.27	1.11	0.65	1.29	0.87	0.96	0.41	-0.82	-1.02	-1.04	-1.01	-1.36	-1.14	-1.24	-1.36	-1.13	-0.96	-0.66	-0.28	0.25	0.26	0.26	0.78	1.42	-0.10	1.42	-1.36
10	1.76	1.26	1.48	1.61	2.11	1.84	0.52	-0.61	-1.03	-0.87	-1.50	-1.21	-1.15	-1.18	-1.21	-1.26	-0.92	-0.63	-0.27	0.17	0.73	2.02	1.71	2.11	0.23	2.11	-1.50
11	2.53	2.16	2.01	1.75	1.68	1.37	0.14	-0.92	-0.93	-0.92	-0.94	-1.28	-1.09	-1.18	-1.07	-1.21	-0.83	-0.59	-0.21	0.17	0.26	1.15	1.20	1.03	0.18	2.53	-1.28
12	1.26	1.57	1.68	1.54	1.23	1.55	1.42	-0.56	-0.99	-1.15	-0.95	-1.15	-1.10	-1.15	-0.88	-1.05	-0.82	-0.51	-0.18	0.31	0.74	1.29	0.41	0.47	0.12	1.68	-1.15
13	0.85	1.23	1.25	0.83	0.49	0.56	0.14	-0.80	-0.61	-0.99	-0.94	-1.24	-1.18	-1.29	-0.90	-0.65	-0.80	-0.60	-0.24	0.09	0.15	0.15	0.30	0.88	-0.14	1.25	-1.29
14	1.18	0.70	0.49	0.88	0.64	1.28	0.33	-0.56	-1.05	-1.05	-1.48	-1.98	-1.09	-1.37	-1.19	-1.18	-0.97	-0.69	-0.37	0.19	0.32	0.78	1.07	1.23	-0.16	1.28	-1.98
15	0.88	0.70	1.52	0.96	0.86	0.82	0.16	-0.77	-0.84	-1.48	-1.89	-2.02	-1.74	-1.41	-1.63	-2.05	-1.31	-0.90	-0.56	-0.06	-0.13	-0.05	0.01	0.20	-0.45	1.52	-2.05
16	0.39	0.39	0.22	0.17	0.26	0.23	-0.24	-1.00	-1.20	-0.96	-1.02	-1.30	-1.28	-1.43	-1.29	-1.48	-1.06	-0.77	-0.37	0.07	0.24	0.32	0.51	0.98	-0.40	0.98	-1.48
17	1.55	2.29	1.98	2.11	2.06	1.39	0.32	-0.64	-0.85	-1.08	-0.96	-1.01	-1.26	-1.43	-1.09	-1.07	-1.52	-0.92	-0.34	0.10	0.33	0.42	0.52	0.68	0.07	2.29	-1.52
18	1.49	1.26	1.63	1.15	1.45	1.84	0.94	-0.89	-0.86	-1.53	-1.22	-1.29	-1.75	-1.62	-1.30	-1.32	-1.26	-0.61	-0.31	0.45	1.14	2.85	1.68	1.62	0.15	2.85	-1.75
19	1.66	1.96	2.90	3.13	1.58	1.69	1.06	-0.94	-1.43	-1.46	-2.06	-1.99	-2.83	-2.08	-1.80	-1.82	-1.53	-0.94	-0.29	0.23	0.63	1.11	1.23	1.96	0.00	3.13	-2.83
20	1.78	2.47	2.20	1.82	1.47	1.61	0.76	-1.01	-1.59	-2.09	-2.18	-2.18	-2.07	-1.68	-1.50	-1.98	-1.34	-0.90	-0.32	0.15	1.03	1.70	1.20	1.22	-0.06	2.47	-2.18
21	1.85	1.67	1.23	1.26	1.11	1.86	0.49	-1.10	-1.49	-1.95	-1.46	-1.11	-1.40	-1.06	-1.68	-1.64	-1.44	-0.98	-0.45	0.27	0.56	0.85	1.13	2.21	-0.05	2.21	-1.95
22	1.84	1.87	2.30	1.84	1.21	1.56	1.11	-0.75	-1.23	-1.67	-1.85	-1.78	-1.73	-1.65	-1.87	-1.35	-1.12	-0.81	-0.38	0.11	0.60	0.88	0.99	1.59	-0.01	2.30	-1.87
23	1.58	1.83	0.97	1.38	1.23	1.36	0.16	-1.00	-1.45	-1.71	-2.10	-2.47	-2.24	-2.01	-1.75	-1.91	-1.49	-1.02	-0.61	0.12	0.28	0.32	0.37	0.27	-0.41	1.83	-2.47
24	0.41	0.78	0.97	1.37	0.85	1.06	0.17	-1.10	-1.50	-1.93	-1.88	-1.75	-2.17	-2.41	-2.20	-1.41	-1.28	-0.94	-0.57	0.30	0.26	0.80	0.80	1.42	-0.41	1.42	-2.41
25	1.43	1.61	1.22	0.83	0.96	1.81	0.62	-1.07	-1.31	-1.59	-1.95	-1.38	-1.80	-1.27	-1.34	-1.15	-1.14	-0.71	-0.38	0.36	1.35	0.96	0.97	1.52	-0.06	1.81	-1.95
26	1.16	1.35	1.28	1.42	1.34	2.48	1.09	-0.88	-1.07	-1.45	-1.37	-1.57	-1.36	-1.59	-1.87	-1.13	-0.96	-0.72	-0.34	0.16	0.30	1.75	1.34	1.10	0.02	2.48	-1.87
27	1.18	1.03	1.13	1.70	2.22	1.69	0.15	-0.67	-0.66	-0.67	-1.04	-1.13	-1.03	-1.11	-1.04	-0.91	-0.86	-0.54	-0.18	0.23	0.31	1.11	1.19	1.29	0.14	2.22	-1.13
28	1.49	2.29	2.34	2.04	1.72	2.58	1.14	-0.48	-0.76	-1.48	-0.97	-0.85	-1.21	-1.78	-1.63	-1.44	-1.31	-0.99	-0.33	0.27	0.76	1.16	1.23	0.89	0.19	2.58	-1.78
29	0.34	0.35	0.27	0.22	0.20	0.14	-0.04	-0.41	-0.78	-1.23	-1.64	-2.19	-1.77	-1.53	-1.44	-1.33	-1.01	-0.40	-0.21	0.12	0.35	0.56	0.96	1.28	-0.38	1.28	-2.19
30	0.42	0.21	0.33	0.37	0.94	0.65	0.23	-0.50	-0.87	-0.84	-1.09	-1.08	-1.25	-1.37	-1.29	-0.93	-0.63	-0.37	-0.22	0.07	0.00	0.20	-0.21	-0.25	-0.31	0.94	-1.37
Avg	1.33	1.37	1.44	1.44	1.29	1.41	0.47	-0.79	-1.05	-1.27	-1.45	-1.48	-1.54	-1.52	-1.48	-1.30	-1.09	-0.74	-0.33	0.20	0.49	0.92	0.96	1.17	-0.06	--	--
Max	2.57	2.47	2.90	3.13	2.22	2.58	1.42	-0.41	-0.61	-0.67	-0.94	-0.85	-1.03	-1.06	-0.88	-0.65	-0.63	-0.37	-0.18	0.45	1.35	2.85	2.03	2.21	--	3.13	--
Min	0.34	0.21	0.22	0.17	0.20	0.14	-0.24	-1.10	-1.59	-2.09	-2.18	-2.47	-2.83	-2.41	-2.39	-2.05	-1.53	-1.10	-0.61	-0.06	-0.13	-0.05	-0.21	-0.25	--	--	-2.83

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	18.4	17.5	17.1	16.4	16.1	15.5	14.9	16.8	19.3	20.9	21.9	22.4	23.2	23.8	23.8	23.9	23.7	22.8	21.5	20.0	18.8	17.5	16.7	16.3	19.5	23.9	14.9
2	15.5	15.0	14.6	14.0	13.4	12.6	12.6	14.7	17.3	18.7	19.5	20.6	21.2	22.4	22.6	22.6	22.4	22.2	21.2	19.8	19.3	18.1	17.7	17.3	18.1	22.6	12.6
3	16.2	16.1	16.3	16.5	15.3	14.8	14.9	16.5	19.5	20.9	22.0	22.6	24.2	25.3	25.2	25.3	25.0	24.4	22.8	21.9	21.3	20.7	18.9	18.2	20.2	25.3	14.8
4	17.8	18.5	17.7	17.8	17.7	17.3	17.3	19.0	21.5	23.8	25.3	26.9	27.5	28.8	28.3	28.0	27.3	26.3	25.4	24.0	22.7	21.9	21.6	20.7	22.6	28.8	17.3
5	20.4	20.2	19.9	19.3	18.4	18.0	16.7	19.4	22.2	23.9	24.3	25.1	26.0	26.9	26.7	26.3	26.6	25.8	24.4	22.6	21.3	20.4	19.3	19.0	22.2	26.9	16.7
6	18.5	18.2	17.4	17.5	16.8	16.1	15.5	17.9	20.5	22.2	23.1	24.4	24.9	25.3	25.8	25.7	25.6	24.9	23.9	23.1	22.1	20.6	19.7	19.3	21.2	25.8	15.5
7	18.6	18.9	17.9	17.8	16.6	16.1	17.0	18.8	20.9	23.0	23.9	24.9	25.5	25.7	26.1	26.0	25.5	24.8	23.8	23.1	22.5	21.5	20.1	20.0	21.6	26.1	16.1
8	19.3	18.7	18.4	17.9	17.5	17.1	16.8	18.4	20.2	21.6	23.1	24.5	24.9	25.1	24.5	23.6	22.7	21.7	20.0	19.0	16.2	11.0	7.8	7.0	19.0	25.1	7.0
9	7.9	8.0	7.8	8.0	8.3	7.6	7.8	7.5	7.9	9.1	9.9	11.7	13.1	13.9	14.2	14.7	15.3	14.7	14.4	13.9	14.3	14.3	13.6	12.6	11.3	15.3	7.5
10	11.1	10.0	8.9	8.6	8.5	8.1	8.6	10.2	12.0	13.2	14.4	15.2	15.6	15.9	16.3	16.9	17.1	17.8	17.1	15.8	14.9	13.2	12.9	12.0	13.1	17.8	8.1
11	11.7	11.6	12.1	12.3	11.2	10.2	10.6	13.5	16.1	18.0	18.7	19.6	20.9	21.3	21.9	22.2	22.7	22.1	21.0	19.7	18.4	17.6	16.6	17.0	17.0	22.7	10.2
12	16.2	15.7	15.2	15.3	15.2	14.8	14.8	17.0	19.7	21.6	23.1	23.5	24.0	24.5	23.9	23.7	23.9	23.0	22.3	20.4	19.6	19.1	17.5	17.6	19.6	24.5	14.8
13	16.9	17.0	16.5	15.8	16.0	15.6	15.6	18.6	22.9	24.5	24.0	24.8	25.5	26.5	27.1	27.1	26.8	26.2	24.5	22.7	21.9	21.2	20.2	19.5	21.6	27.1	15.6
14	18.8	17.7	17.2	16.9	16.7	16.7	16.6	18.6	20.4	22.1	23.7	24.5	25.6	26.3	27.1	27.1	26.9	26.1	24.7	22.7	21.3	20.4	19.2	18.2	21.5	27.1	16.6
15	17.5	16.7	17.0	16.4	15.4	15.4	15.6	17.6	19.6	21.3	22.6	23.6	24.9	25.2	26.3	26.7	26.5	25.8	24.3	22.9	21.8	20.5	19.6	18.7	20.9	26.7	15.4
16	17.6	16.5	16.0	15.2	14.8	15.4	15.3	17.7	19.4	20.5	21.1	22.5	24.3	25.2	25.4	24.8	24.4	23.7	22.3	19.9	18.6	17.3	16.2	15.1	19.5	25.4	14.8
17	14.0	13.4	12.9	12.3	11.6	11.3	11.4	11.2	11.2	12.5	13.8	14.7	15.2	15.9	16.7	17.1	17.6	17.4	16.2	14.8	13.9	12.5	12.3	11.8	13.8	17.6	11.2
18	12.1	12.2	11.7	11.3	10.5	9.9	9.7	10.9	12.1	13.6	14.7	15.6	16.6	18.1	18.7	19.5	19.8	19.1	18.4	17.4	16.7	15.8	15.0	14.3	14.7	19.8	9.7
19	13.5	12.8	12.1	13.1	13.4	14.3	14.7	15.8	16.8	17.5	19.3	20.5	21.8	22.8	23.4	24.0	24.0	23.3	22.0	19.9	18.5	17.3	16.5	15.8	18.0	24.0	12.1
20	15.2	14.9	14.3	14.4	14.2	14.2	14.3	16.7	19.8	21.4	22.9	24.0	25.0	25.4	26.1	26.1	26.0	25.5	24.6	23.0	22.5	20.6	20.5	19.7	20.5	26.1	14.2
21	18.6	18.5	18.6	17.7	18.2	18.4	18.3	20.2	22.7	24.5	25.6	26.9	27.7	28.0	28.2	28.1	28.0	27.6	26.5	25.2	23.4	21.9	21.2	20.6	23.1	28.2	17.7
22	19.6	19.1	19.5	18.2	18.4	18.7	19.2	20.3	23.0	25.0	26.2	28.0	28.6	28.4	28.9	28.8	29.3	28.6	27.3	25.7	23.8	22.8	22.0	21.2	23.8	29.3	18.2
23	21.1	20.6	19.8	18.8	18.1	18.0	18.5	21.0	22.7	23.5	24.9	25.6	26.5	26.7	27.0	27.6	27.3	26.7	25.7	24.4	22.8	22.3	21.3	20.7	23.0	27.6	18.0
24	20.1	20.0	20.8	20.8	20.3	19.7	20.0	21.1	23.0	25.0	26.8	28.1	27.7	28.4	28.8	28.8	28.1	27.2	26.6	25.2	24.5	23.7	23.1	22.2	24.2	28.8	19.7
25	21.8	21.3	21.1	19.7	19.4	18.3	18.4	21.8	23.5	25.1	26.4	24.9	23.9	24.2	24.3	24.5	23.7	22.7	21.4	20.1	19.3	18.2	18.1	17.3	21.6	26.4	17.3
26	16.8	16.2	16.2	16.6	16.1	15.4	16.2	18.4	20.5	22.3	23.7	24.7	26.0	27.0	27.6	27.7	27.4	27.1	26.0	24.7	23.1	21.9	21.7	20.8	21.8	27.7	15.4
27	20.6	20.0	19.4	19.3	19.1	19.1	19.6	21.7	24.3	25.6	27.3	28.9	29.7	30.1	30.8	31.1	30.8	29.8	28.4	26.8	25.0	24.1	24.7	23.6	25.0	31.1	19.1
28	23.3	21.6	21.6	21.2	21.3	21.0	20.6	23.5	26.0	28.3	30.2	31.4	31.4	32.4	32.3	32.2	31.8	31.1	30.0	28.2	27.0	25.2	24.4	23.8	26.7	32.4	20.6
29	23.7	22.7	22.5	22.2	21.5	21.2	21.8	24.9	27.4	29.3	30.1	31.4	32.0	32.3	32.6	32.9	32.9	32.2	31.0	29.0	27.3	26.6	26.0	25.1	27.4	32.9	21.2
30	24.1	23.2	22.6	21.9	21.2	21.7	22.2	25.1	27.1	28.2	29.4	30.4	31.4	32.3	32.4	32.3	32.0	31.3	30.5	28.8	26.7	25.4	24.0	23.0	27.0	32.4	21.2
Avg	17.6	17.1	16.8	16.4	16.0	15.7	15.8	17.8	20.0	21.6	22.7	23.7	24.5	25.1	25.4	25.5	25.4	24.7	23.6	22.2	21.0	19.8	18.9	18.3	20.7	--	--
Max	24.1	23.2	22.6	22.2	21.5	21.7	22.2	25.1	27.4	29.3	30.2	31.4	32.0	32.4	32.6	32.9	32.9	32.2	31.0	29.0	27.3	26.6	26.0	25.1	--	32.9	--
Min	7.9	8.0	7.8	8.0	8.3	7.6	7.8	7.5	7.9	9.1	9.9	11.7	13.1	13.9	14.2	14.7	15.3	14.7	14.4	13.9	13.9	11.0	7.8	7.0	--	--	7.0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22.6	22.2	21.1	20.5	20.6	18.9	18.7	22.2	23.8	25.3	26.0	27.0	27.7	28.7	29.2	29.1	29.2	28.7	27.5	26.1	25.0	24.9	24.3	24.8	24.7	29.2	18.7
2	24.1	21.9	20.6	19.8	19.2	19.3	18.9	19.2	20.1	21.2	22.7	23.8	25.3	26.8	28.2	28.8	29.1	28.8	27.9	26.4	25.9	24.7	23.2	22.1	23.7	29.1	18.9
3	20.9	19.5	18.9	18.1	17.3	16.6	16.2	16.8	17.9	19.5	21.7	23.0	24.2	25.9	26.7	27.3	26.9	26.8	26.1	24.9	24.0	23.7	23.1	22.8	22.0	27.3	16.2
4	22.4	21.7	21.6	21.2	20.8	20.9	21.0	21.7	22.9	25.1	26.5	28.2	29.9	30.0	31.0	30.5	30.6	30.1	28.8	27.2	25.7	24.7	23.4	22.5	25.3	31.0	20.8
5	21.7	20.9	19.5	18.7	19.2	19.3	18.9	21.9	23.5	25.1	26.6	27.3	28.5	28.6	28.2	28.9	28.5	28.0	26.4	24.8	23.1	22.3	20.8	19.9	23.8	28.9	18.7
6	19.4	17.0	16.7	16.7	15.5	15.3	15.9	17.2	19.5	20.7	21.9	22.7	24.2	23.9	24.8	25.4	26.1	24.8	24.6	23.5	22.3	20.8	19.5	18.8	20.7	26.1	15.3
7	17.9	16.8	16.5	16.3	16.1	15.6	16.1	18.0	19.2	21.8	22.5	24.0	24.6	25.5	26.3	25.4	25.2	24.0	22.7	21.1	20.1	19.2	18.3	17.7	20.5	26.3	15.6
8	17.3	16.5	15.5	14.9	14.3	13.9	14.8	16.2	16.9	18.2	19.9	21.0	22.5	23.1	23.2	22.9	22.5	21.9	21.6	20.7	20.6	20.2	19.4	18.6	19.0	23.2	13.9
9	18.2	17.5	17.2	16.2	16.0	15.1	15.8	17.8	18.8	20.8	22.5	23.6	24.0	24.9	25.2	25.6	25.0	24.8	23.8	22.6	22.2	21.6	20.3	20.2	20.8	25.6	15.1
10	20.6	19.8	18.2	17.8	17.3	17.0	18.3	21.1	22.9	24.0	25.4	25.9	27.5	27.7	28.1	28.3	26.9	27.5	26.8	26.0	25.3	24.1	23.1	22.7	23.4	28.3	17.0
11	22.4	22.1	21.8	21.6	21.0	21.3	21.4	22.2	23.1	24.5	25.5	26.5	27.9	28.7	29.2	29.5	29.5	28.7	27.8	27.0	25.9	25.0	24.7	24.1	25.1	29.5	21.0
12	23.9	23.2	22.8	23.4	22.9	22.2	22.7	23.6	24.9	26.5	27.9	29.0	30.0	31.0	31.6	31.9	31.6	31.5	30.9	29.2	27.7	26.6	27.0	26.7	27.0	31.9	22.2
13	26.0	25.3	25.0	24.8	24.5	24.4	24.5	26.1	27.6	28.7	30.4	31.2	32.1	33.1	33.5	33.8	33.7	32.8	32.0	31.0	29.9	28.5	27.8	27.6	28.9	33.8	24.4
14	27.3	26.9	26.6	25.3	23.8	23.2	24.6	25.6	26.5	28.2	30.0	30.8	32.1	33.0	33.6	33.5	33.5	32.9	32.2	30.9	30.1	28.2	27.7	26.5	28.9	33.6	23.2
15	25.6	24.1	23.7	22.7	22.1	21.7	22.7	25.4	26.7	28.4	29.7	30.9	31.9	32.3	33.0	33.2	32.9	32.0	31.0	29.6	28.4	27.3	25.6	25.7	27.8	33.2	21.7
16	24.1	23.3	22.9	22.3	21.6	21.6	22.7	25.2	27.0	28.1	30.1	32.0	31.8	32.2	33.2	33.6	33.1	32.5	31.3	29.6	28.3	27.2	26.1	24.6	27.7	33.6	21.6
17	23.9	22.9	22.6	21.2	21.0	20.6	21.5	23.6	26.8	28.6	29.5	29.3	30.5	30.7	30.9	31.2	30.1	28.9	27.9	26.7	25.4	24.5	24.6	24.0	26.1	31.2	20.6
18	22.8	22.0	21.7	21.2	20.0	19.4	20.2	21.7	22.7	23.8	26.2	27.6	27.1	28.2	28.1	28.9	28.9	28.2	26.9	25.6	24.5	23.2	22.0	21.6	24.3	28.9	19.4
19	21.0	20.6	19.9	18.5	18.3	18.4	19.5	21.7	22.3	23.9	25.8	27.0	27.6	28.4	29.3	29.2	29.0	28.8	28.0	26.7	25.7	25.2	24.7	24.1	24.3	29.3	18.3
20	23.1	22.2	21.8	20.8	19.9	19.4	20.7	23.5	25.0	26.3	27.3	28.1	29.3	29.4	29.5	29.6	29.4	28.8	27.7	26.1	25.2	23.6	23.8	22.6	25.1	29.6	19.4
21	22.9	21.8	22.8	22.6	22.1	22.0	22.9	25.2	26.9	28.3	29.6	30.4	30.4	31.1	31.1	30.8	31.2	30.7	29.6	28.3	27.3	25.9	24.8	23.9	26.8	31.2	21.8
22	23.5	23.1	22.6	22.5	21.7	20.7	22.5	25.4	27.6	28.6	30.2	31.4	33.2	33.3	33.8	34.3	34.1	33.8	32.6	31.0	29.4	28.3	26.7	25.5	28.2	34.3	20.7
23	24.8	24.4	23.4	22.2	21.3	21.1	22.1	25.8	27.7	29.3	30.2	30.7	31.4	32.4	33.3	33.4	33.7	33.0	31.7	29.6	28.3	27.0	25.7	23.9	27.8	33.7	21.1
24	23.2	23.3	23.1	22.8	22.2	20.9	22.4	24.6	26.5	28.7	29.9	31.2	31.5	32.8	32.2	33.4	33.1	32.5	31.4	29.5	28.1	26.0	24.7	23.6	27.4	33.4	20.9
25	23.1	22.8	22.3	21.8	22.0	21.1	22.4	24.7	26.4	28.7	30.1	30.7	31.3	31.9	32.1	32.2	31.9	31.6	30.9	29.6	27.4	25.9	24.9	23.8	27.1	32.2	21.1
26	22.9	22.6	22.1	21.3	20.8	20.7	21.0	23.6	25.4	26.5	28.3	29.5	30.1	30.5	30.5	30.3	30.6	30.4	29.5	27.8	26.0	24.6	24.2	23.4	25.9	30.6	20.7
27	22.7	22.2	21.5	20.8	19.8	20.3	20.2	23.0	24.5	26.4	28.4	29.7	29.9	30.1	29.9	30.2	30.1	29.8	29.0	27.4	26.4	24.9	23.9	23.2	25.6	30.2	19.8
28	22.6	22.1	21.2	21.2	21.1	20.7	21.7	23.6	25.1	25.5	27.1	29.4	30.4	29.7	30.3	30.3	30.7	30.3	29.3	28.0	26.6	25.4	24.4	23.7	25.8	30.7	20.7
29	22.7	22.1	21.4	21.0	20.7	20.3	21.1	23.2	24.7	25.9	27.1	28.1	28.8	30.0	30.4	30.5	30.5	30.2	29.3	28.1	27.1	25.9	25.5	25.3	25.8	30.5	20.3
30	24.0	23.6	22.9	22.3	21.4	21.1	22.5	24.4	26.1	27.2	27.8	29.5	30.5	31.3	32.1	31.9	32.2	31.6	30.7	29.6	28.9	28.5	26.4	25.2	27.2	32.2	21.1
31	24.4	23.6	23.2	22.6	22.4	21.7	23.0	25.4	26.3	28.0	29.0	31.0	31.6	32.1	33.2	32.9	33.4	32.6	31.9	30.4	29.7	28.4	27.6	27.1	28.0	33.4	21.7
Avg	22.6	21.9	21.3	20.7	20.2	19.8	20.6	22.6	24.0	25.5	27.0	28.1	29.0	29.6	30.0	30.2	30.1	29.6	28.6	27.3	26.1	25.0	24.1	23.4	25.3	--	--
Max	27.3	26.9	26.6	25.3	24.5	24.4	24.6	26.1	27.7	29.3	30.4	32.0	33.2	33.3	33.8	34.3	34.1	33.8	32.6	31.0	30.1	28.5	27.8	27.6	--	34.3	--
Min	17.3	16.5	15.5	14.9	14.3	13.9	14.8	16.2	16.9	18.2	19.9	21.0	22.5	23.1	23.2	22.9	22.5	21.9	21.6	20.7	20.1	19.2	18.3	17.7	--	--	13.9

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.6	26.2	25.8	25.5	25.2	24.9	24.9	27.7	31.4	33.3	34.7	36.2	37.1	37.3	37.7	37.0	37.1	36.8	35.8	34.3	33.4	31.7	30.0	29.6	31.7	37.7	24.9
2	29.0	28.5	27.9	27.3	26.7	26.0	26.7	30.0	32.2	33.4	35.3	36.0	37.6	38.3	38.4	37.8	37.3	37.2	36.3	34.3	32.7	31.1	29.5	28.4	32.4	38.4	26.0
3	27.6	27.1	26.5	25.9	25.1	24.4	26.0	29.3	30.7	31.7	33.2	33.3	34.4	35.7	36.7	35.6	35.7	35.2	34.1	32.5	31.3	29.3	28.2	27.4	30.7	36.7	24.4
4	26.4	25.8	25.3	24.7	24.6	23.8	26.0	28.5	29.4	30.7	32.7	32.9	33.7	34.1	34.7	34.9	34.8	34.5	33.8	32.3	30.9	29.5	28.2	27.8	30.0	34.9	23.8
5	26.2	25.4	24.8	24.0	23.4	23.2	24.6	27.4	29.1	30.7	31.8	32.7	34.3	35.2	35.3	35.2	34.9	34.8	33.5	31.7	30.3	29.1	28.4	27.5	29.7	35.3	23.2
6	26.8	26.4	26.1	26.0	25.2	24.6	25.7	28.6	30.0	31.3	32.8	34.0	34.8	35.5	36.5	36.9	36.7	36.3	35.7	34.2	33.3	31.8	30.4	30.1	31.3	36.9	24.6
7	29.1	30.3	28.3	27.5	27.2	26.0	27.4	29.8	32.3	33.9	35.2	37.0	37.7	37.7	37.8	38.3	38.2	37.4	36.7	35.1	34.2	33.2	33.1	32.8	33.2	38.3	26.0
8	32.7	31.0	29.1	29.1	27.5	26.0	27.2	29.5	30.6	31.5	33.1	34.0	35.1	36.3	36.9	36.9	36.9	36.7	35.7	34.0	32.4	31.5	30.4	29.3	32.2	36.9	26.0
9	28.2	27.9	27.7	26.7	25.3	25.3	25.5	28.1	29.8	31.4	32.3	33.6	34.5	35.7	36.2	36.3	36.3	36.0	35.2	33.5	32.8	32.8	30.7	29.8	31.3	36.3	25.3
10	28.9	28.7	27.2	26.7	25.7	25.6	26.7	29.3	31.7	32.7	34.9	35.8	36.7	37.1	37.5	37.9	37.6	37.2	36.4	34.9	33.4	31.3	30.5	29.2	32.2	37.9	25.6
11	28.3	28.2	27.6	27.1	25.3	26.8	28.4	31.1	32.5	33.9	35.0	36.4	36.7	37.1	37.5	37.8	37.5	37.0	35.9	34.1	33.5	32.0	31.4	30.6	32.6	37.8	25.3
12	29.6	29.5	29.0	28.9	28.5	28.4	28.2	30.2	33.0	34.6	35.1	36.4	36.8	37.3	37.5	38.1	38.0	37.7	36.7	34.9	33.6	32.3	33.1	32.7	33.3	38.1	28.2
13	31.8	29.1	28.9	28.3	28.0	26.7	26.5	28.7	29.3	30.9	32.0	33.8	34.9	35.9	35.3	34.7	35.6	35.5	34.4	32.9	32.3	32.2	31.2	29.1	31.6	35.9	26.5
14	28.7	28.6	27.5	26.7	25.7	25.4	26.7	28.2	29.7	30.6	31.9	33.8	33.6	34.6	35.1	35.8	35.7	35.2	34.5	33.0	32.0	30.8	29.9	29.0	30.9	35.8	25.4
15	28.5	28.3	27.3	27.2	27.1	26.8	27.7	29.5	30.7	32.6	34.0	35.0	35.6	35.8	36.3	37.3	36.5	35.8	35.4	33.8	31.7	31.0	30.1	29.5	31.8	37.3	26.8
16	29.0	28.9	28.7	27.9	27.7	27.1	28.1	30.2	31.9	32.7	34.0	35.0	35.7	36.4	36.6	37.0	36.5	36.0	35.2	33.7	32.7	32.4	30.7	29.6	32.2	37.0	27.1
17	28.4	27.6	27.4	26.7	26.4	25.9	26.2	29.4	31.1	32.4	33.2	34.2	35.5	36.0	35.9	36.1	36.7	35.9	34.7	33.4	32.6	32.1	31.0	28.8	31.6	36.7	25.9
18	28.3	26.9	27.3	25.8	25.3	25.0	26.2	29.6	30.9	32.8	33.7	34.9	36.7	37.1	36.8	37.1	37.1	36.1	35.7	33.8	32.0	29.9	29.7	28.5	31.5	37.1	25.0
19	27.6	26.9	26.2	25.8	24.8	25.0	25.7	29.4	31.3	32.4	34.1	35.1	36.4	36.1	36.3	36.3	36.3	35.7	34.6	33.2	32.0	30.3	28.9	28.0	31.2	36.4	24.8
20	27.5	26.3	25.8	25.3	24.7	24.3	25.0	28.4	30.5	32.3	33.3	34.6	35.0	35.1	35.5	36.7	36.2	35.5	34.5	33.3	31.6	29.7	29.0	27.7	30.7	36.7	24.3
21	27.1	26.8	27.4	26.4	25.4	25.2	26.1	29.5	31.1	32.6	33.0	33.5	34.5	34.5	35.8	36.2	36.4	36.0	35.0	33.1	31.8	30.3	29.2	27.7	31.0	36.4	25.2
22	27.4	26.2	25.8	25.6	25.9	24.2	25.5	28.4	30.1	31.8	33.1	34.0	34.6	35.5	36.4	35.8	35.6	35.5	34.4	32.9	31.8	30.0	28.6	27.9	30.7	36.4	24.2
23	27.3	26.9	26.0	25.7	25.1	24.9	26.4	29.0	30.6	32.0	33.5	34.8	35.3	35.7	35.9	36.5	36.2	35.3	34.5	32.3	30.9	30.1	29.3	28.4	30.9	36.5	24.9
24	27.3	26.3	25.6	24.7	24.9	24.4	25.5	28.0	30.0	31.5	32.5	33.3	34.2	35.5	35.7	35.2	35.1	34.6	33.7	31.4	30.2	29.2	28.2	27.3	30.2	35.7	24.4
25	26.7	26.0	25.7	25.5	24.7	23.3	24.1	27.0	28.7	30.1	31.9	32.7	34.2	34.3	34.9	34.9	34.9	34.4	33.7	32.3	30.7	30.1	28.6	27.8	29.9	34.9	23.3
26	27.4	27.0	26.4	25.0	24.3	23.9	25.3	28.1	29.7	31.1	32.0	33.3	34.2	35.5	36.1	35.9	35.9	35.4	34.6	33.1	32.3	30.0	29.9	28.7	30.6	36.1	23.9
27	28.5	28.1	26.5	26.2	25.8	25.8	26.3	29.9	30.5	31.5	33.0	34.7	35.6	36.8	37.3	37.5	37.8	37.3	36.6	34.9	33.7	32.5	32.4	31.9	32.1	37.8	25.8
28	30.1	29.8	29.9	28.7	28.3	28.1	28.5	31.1	33.0	35.5	36.5	37.1	38.3	39.9	40.3	41.0	41.0	40.7	39.7	38.2	36.8	35.1	34.8	35.3	34.9	41.0	28.1
29	36.8	36.5	35.8	35.3	34.8	34.7	34.8	36.2	37.4	38.8	40.3	41.6	41.8	42.3	42.0	41.7	41.4	40.3	39.8	38.6	38.0	36.5	35.6	34.9	38.2	42.3	34.7
30	35.4	35.6	33.8	33.4	32.2	32.2	32.3	34.0	35.9	36.8	37.9	38.8	39.6	40.1	40.6	40.1	39.7	39.2	38.4	37.2	36.8	35.4	31.5	--	36.4	40.6	31.5
Avg	28.8	28.2	27.6	27.0	26.4	25.9	26.8	29.5	31.2	32.6	33.9	35.0	35.8	36.5	36.9	36.9	36.9	36.4	35.5	33.9	32.7	31.4	30.4	29.5	31.9	--	--
Max	36.8	36.5	35.8	35.3	34.8	34.7	34.8	36.2	37.4	38.8	40.3	41.6	41.8	42.3	42.0	41.7	41.4	40.7	39.8	38.6	38.0	36.5	35.6	35.3	--	42.3	--
Min	26.2	25.4	24.8	24.0	23.4	23.2	24.1	27.0	28.7	30.1	31.8	32.7	33.6	34.1	34.7	34.7	34.8	34.4	33.5	31.4	30.2	29.1	28.2	27.3	--	--	23.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	18	202	437	639	808	897	887	902	811	642	402	166	21	0	0	0	0	0	285	902	0
2	0	0	0	0	0	0	11	226	467	678	845	948	979	937	839	673	464	231	27	0	0	0	0	0	305	979	0
3	0	0	0	0	0	0	11	232	474	686	842	939	968	925	830	673	468	214	22	0	0	0	0	0	303	968	0
4	0	0	0	0	0	0	28	191	423	644	689	855	930	939	622	452	232	95	10	0	0	0	0	0	255	939	0
5	0	0	0	0	0	0	12	243	474	676	836	937	967	928	833	674	466	227	29	0	0	0	0	0	304	967	0
6	0	0	0	0	0	0	18	241	472	679	838	934	966	919	836	677	423	240	19	0	0	0	0	0	303	966	0
7	0	0	0	0	0	0	26	238	474	685	840	931	957	852	780	659	375	181	21	0	0	0	0	0	292	957	0
8	0	0	0	0	0	0	29	246	477	685	836	915	867	854	574	541	413	177	40	0	0	0	0	0	277	915	0
9	0	0	0	1	0	0	2	27	76	197	282	662	622	481	393	352	306	74	23	0	0	0	0	0	146	662	0
10	0	0	0	0	0	0	32	264	492	700	866	851	756	542	440	385	288	260	46	0	0	0	0	0	247	866	0
11	0	0	0	0	0	0	34	274	504	711	871	924	827	875	803	623	462	205	38	0	0	0	0	0	298	924	0
12	0	0	0	0	0	0	39	274	490	462	668	818	583	534	417	399	284	103	53	0	0	0	0	0	213	818	0
13	0	0	0	0	0	0	40	275	501	706	870	967	994	949	850	686	485	254	43	0	0	0	0	0	317	994	0
14	0	0	0	0	0	0	40	283	513	716	874	968	990	950	848	689	483	257	47	0	0	0	0	0	319	990	0
15	0	0	0	0	0	0	45	290	523	726	882	977	1002	960	859	698	489	263	49	0	0	0	0	0	323	1002	0
16	0	0	0	0	0	0	48	296	526	729	887	975	1001	958	860	702	495	269	52	0	0	0	0	0	325	1001	0
17	0	0	0	0	0	0	30	98	252	516	529	636	504	747	852	673	498	300	64	0	0	0	0	0	237	852	0
18	0	0	0	0	0	0	55	323	560	764	920	1013	1038	990	886	719	507	274	59	0	0	0	0	0	338	1038	0
19	0	0	0	0	0	0	59	331	569	777	932	1022	1047	998	897	729	519	288	60	0	0	0	0	0	343	1047	0
20	0	0	0	0	0	0	59	310	541	744	905	1002	1031	986	883	715	507	277	61	0	0	0	0	0	334	1031	0
21	0	0	0	0	0	0	62	319	546	744	898	987	1017	977	876	713	508	277	59	0	0	0	0	0	333	1017	0
22	0	0	0	0	0	1	64	316	543	745	896	990	1019	975	873	709	496	277	62	0	0	0	0	0	332	1019	0
23	0	0	0	0	0	1	66	318	544	741	906	1006	1030	977	869	705	500	271	58	0	0	0	0	0	333	1030	0
24	0	0	0	0	0	3	76	256	515	746	916	998	1028	968	759	500	282	99	27	0	0	0	0	0	299	1028	0
25	0	0	0	0	0	1	70	332	566	761	893	994	1021	988	894	695	514	280	65	0	0	0	0	0	336	1021	0
26	0	0	0	0	0	1	77	328	554	754	908	998	1023	976	871	710	506	277	63	0	0	0	0	0	335	1023	0
27	0	0	0	0	0	2	78	329	560	761	912	1014	1045	989	884	733	520	281	64	0	0	0	0	0	340	1045	0
28	0	0	0	0	0	1	84	341	572	774	925	1017	1043	999	894	730	522	288	67	0	0	0	0	0	344	1043	0
29	0	0	0	0	0	2	87	337	566	766	913	1006	1032	986	882	723	518	285	68	0	0	0	0	0	340	1032	0
30	0	0	0	0	0	2	91	348	579	781	895	1020	1052	1004	886	722	515	287	67	0	0	0	0	0	344	1052	0
Avg	0	0	0	0	0	1	46	269	493	690	836	940	941	902	793	643	448	233	46	0	0	0	0	0	303	--	--
Max	0	0	0	1	0	3	91	348	579	781	932	1022	1052	1004	897	733	522	300	68	0	0	0	0	0	--	1052	--
Min	0	0	0	0	0	0	2	27	76	197	282	636	504	481	393	352	232	74	10	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	2	86	354	575	777	939	1024	1045	998	892	727	520	289	71	0	0	0	0	0	346	1045	0
2	0	0	0	0	0	3	101	363	594	796	950	1040	1066	1021	914	754	543	307	83	0	0	0	0	0	356	1066	0
3	0	0	0	0	0	4	102	358	596	797	944	1030	1045	1005	900	740	488	243	83	0	0	0	0	0	347	1045	0
4	0	0	0	0	0	2	67	309	488	654	822	986	1015	981	879	711	493	273	45	0	0	0	0	0	322	1015	0
5	0	0	0	0	0	1	105	350	579	767	923	814	1007	849	709	678	439	267	30	0	0	0	0	0	313	1007	0
6	0	0	0	0	0	4	103	343	569	770	696	499	984	672	583	613	508	223	88	0	0	0	0	0	277	984	0
7	0	0	0	0	0	4	109	357	584	832	830	1027	1022	1006	887	735	530	306	88	1	0	0	0	0	346	1027	0
8	0	0	0	0	0	6	110	273	473	616	870	959	1041	842	702	610	380	258	69	0	0	0	0	0	300	1041	0
9	0	0	0	0	0	5	111	354	581	775	924	1017	1049	990	890	730	530	303	89	0	0	0	0	0	348	1049	0
10	0	0	0	0	0	4	114	363	587	779	917	1012	1039	994	895	612	240	262	25	0	0	0	0	0	327	1039	0
11	0	0	0	0	0	10	140	366	466	786	923	1014	1038	990	890	738	489	198	92	1	0	0	0	0	339	1038	0
12	0	0	0	0	0	5	119	367	592	781	921	1008	1032	970	895	718	409	228	118	1	0	0	0	0	340	1032	0
13	0	0	0	0	0	5	119	364	583	770	912	996	760	915	864	759	442	256	78	1	0	0	0	0	326	996	0
14	0	0	0	0	0	6	138	206	342	574	833	750	929	1020	893	721	529	326	106	2	0	0	0	0	307	1020	0
15	0	0	0	0	0	6	125	365	580	774	916	1000	1028	986	886	730	533	308	97	1	0	0	0	0	347	1028	0
16	0	0	0	0	0	5	129	373	588	780	922	1020	1044	1003	898	739	545	321	105	1	0	0	0	0	353	1044	0
17	0	0	0	0	0	4	71	317	612	799	948	1035	1054	1016	804	575	368	153	36	1	0	0	0	0	325	1054	0
18	0	0	0	0	0	9	136	366	586	778	923	1015	1036	995	893	735	535	312	103	2	0	0	0	0	351	1036	0
19	0	0	0	0	0	7	125	369	594	786	933	1025	1048	1001	904	747	544	317	104	2	0	0	0	0	354	1048	0
20	0	0	0	0	0	7	138	379	604	798	942	1029	1062	1016	918	750	549	327	112	2	0	0	0	0	360	1062	0
21	0	0	0	0	0	5	147	398	614	798	937	1021	1048	1026	829	742	547	312	77	2	0	0	0	0	354	1048	0
22	0	0	0	0	0	6	145	388	608	791	930	1016	1052	1007	904	737	536	318	104	2	0	0	0	0	356	1052	0
23	0	0	0	0	0	7	144	384	608	792	866	882	1045	1000	901	738	538	323	113	2	0	0	0	0	348	1045	0
24	0	0	0	0	0	7	147	384	600	785	930	1026	1038	1006	911	755	549	332	118	2	0	0	0	0	358	1038	0
25	0	0	0	0	0	6	150	389	608	782	909	1021	1050	1014	920	760	557	331	117	2	0	0	0	0	359	1050	0
26	0	0	0	0	0	10	146	362	557	750	907	945	970	876	654	521	606	351	127	3	0	0	0	0	324	970	0
27	0	0	0	0	0	8	123	311	550	557	732	836	816	545	686	707	557	333	123	3	0	0	0	0	287	836	0
28	0	0	0	0	0	9	151	380	465	660	858	946	960	861	909	722	542	326	117	4	0	0	0	0	330	960	0
29	0	0	0	0	0	9	150	380	595	774	906	991	1010	970	891	739	536	329	118	4	0	0	0	0	350	1010	0
30	0	0	0	0	0	10	146	373	580	754	899	1007	1045	1004	903	737	541	334	124	4	0	0	0	0	353	1045	0
31	0	0	0	0	0	10	148	374	581	751	895	1003	1041	999	899	740	547	342	129	4	0	0	0	0	353	1041	0
Avg	0	0	0	0	0	6	124	356	566	754	895	968	1013	954	855	710	505	294	93	2	0	0	0	0	337	--	--
Max	0	0	0	0	0	10	151	398	614	832	950	1040	1066	1026	920	760	606	351	129	4	0	0	0	0	--	1066	--
Min	0	0	0	0	0	1	67	206	342	557	696	499	760	545	583	521	240	153	25	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	9	153	388	598	774	917	1015	1057	995	727	499	509	329	137	4	0	0	0	0	338	1057	0
2	0	0	0	0	0	7	150	379	585	754	895	993	1037	999	902	744	541	337	131	4	0	0	0	0	352	1037	0
3	0	0	0	0	0	6	162	404	614	788	929	1026	1058	1013	913	759	567	356	137	3	0	0	0	0	364	1058	0
4	0	0	0	0	0	13	175	362	524	769	906	1003	1042	1005	909	755	562	347	135	4	0	0	0	0	355	1042	0
5	0	0	0	0	0	8	160	397	603	772	913	1018	1051	1010	915	756	561	349	135	4	0	0	0	0	360	1051	0
6	0	0	0	0	0	8	152	380	588	762	901	1001	1039	997	899	742	549	339	129	5	0	0	0	0	354	1039	0
7	0	0	0	0	0	11	150	377	587	763	885	979	1023	987	893	740	548	343	133	5	0	0	0	0	351	1023	0
8	0	0	0	0	0	9	153	385	591	762	899	1000	1036	996	903	748	560	348	138	5	0	0	0	0	356	1036	0
9	0	0	0	0	0	8	154	387	592	761	901	998	1036	1003	913	760	566	356	144	4	0	0	0	0	358	1036	0
10	0	0	0	0	0	9	151	371	583	755	892	991	1032	996	909	753	560	353	143	5	0	0	0	0	354	1032	0
11	0	0	0	0	0	7	159	392	592	762	895	995	1030	971	910	756	562	351	103	4	0	0	0	0	354	1030	0
12	0	0	0	0	0	5	55	370	598	699	865	983	882	777	695	670	493	269	129	5	0	0	0	0	312	983	0
13	0	0	0	0	0	10	143	363	567	736	869	966	1007	991	591	468	553	340	139	6	0	0	0	0	323	1007	0
14	0	0	0	0	0	10	142	362	569	739	872	968	1003	967	880	737	550	345	139	6	0	0	0	0	345	1003	0
15	0	0	0	0	0	12	113	312	551	721	853	943	978	882	865	732	530	268	160	8	0	0	0	0	330	978	0
16	0	0	0	0	0	10	143	363	567	733	869	958	998	967	882	735	558	356	151	6	0	0	0	0	346	998	0
17	0	0	0	0	0	7	151	383	592	763	899	996	1036	1003	918	769	574	368	158	5	0	0	0	0	359	1036	0
18	0	0	0	0	0	7	155	392	599	772	906	1001	1046	1014	927	778	588	379	162	6	0	0	0	0	364	1046	0
19	0	0	0	0	0	6	156	397	610	785	928	1021	1052	1026	942	790	595	380	163	5	0	0	0	0	369	1052	0
20	0	0	0	0	0	6	154	394	610	786	927	1022	1062	1026	939	785	591	379	162	6	0	0	0	0	369	1062	0
21	0	0	0	0	0	6	150	391	603	721	832	851	922	895	741	758	594	373	164	6	0	0	0	0	334	922	0
22	0	0	0	0	0	12	138	312	541	646	909	778	1001	1050	958	603	517	378	163	6	0	0	0	0	334	1050	0
23	0	0	0	0	0	5	153	395	607	777	911	1007	1050	971	925	796	495	302	180	2	0	0	0	0	357	1050	0
24	0	0	0	0	0	5	151	396	607	780	899	1019	987	1021	911	743	500	376	150	5	0	0	0	0	356	1021	0
25	0	0	0	0	0	6	149	387	596	768	899	997	1041	1019	936	786	597	383	168	6	0	0	0	0	364	1041	0
26	0	0	0	0	0	5	149	388	601	775	907	1004	1040	1019	930	782	595	382	168	7	0	0	0	0	365	1040	0
27	0	0	0	0	0	10	126	340	543	677	855	931	996	992	906	759	573	362	159	11	0	0	0	0	343	996	0
28	0	0	0	0	0	8	127	339	547	701	849	716	687	846	688	513	357	255	116	11	0	0	0	0	282	849	0
29	0	0	0	0	0	8	111	308	509	661	852	926	948	829	513	586	397	175	115	8	0	0	0	0	289	948	0
30	0	0	0	0	0	12	107	219	509	681	816	910	958	936	844	482	260	156	82	5	0	0	0	0	291	958	0
Avg	0	0	0	0	0	8	143	368	579	745	888	967	1004	973	859	709	533	334	143	6	0	0	0	0	344	--	--
Max	0	0	0	0	0	13	175	404	614	788	929	1026	1062	1050	958	796	597	383	180	11	0	0	0	0	--	1062	--
Min	0	0	0	0	0	5	55	219	509	646	816	716	687	777	513	468	260	156	82	2	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	23	30	33	36	38	40	41	37	30	27	26	25	23	19	20	17	11	9	11	11	13	16	18	19	24	41	9
2	22	24	25	26	28	31	30	25	19	18	16	14	14	13	13	13	14	14	15	18	18	20	22	22	20	31	13
3	25	24	23	24	26	28	29	29	24	21	18	17	15	15	16	15	14	15	17	18	19	19	23	24	21	29	14
4	26	24	25	24	24	25	25	22	19	14	11	9	7	6	7	7	9	10	11	13	14	15	15	17	16	26	6
5	16	17	17	17	18	19	22	19	16	15	16	15	15	14	14	14	14	15	16	15	16	16	17	18	16	22	14
6	19	21	22	21	23	24	25	20	15	15	16	15	15	13	12	12	13	14	16	17	18	21	23	23	18	25	12
7	24	24	26	25	29	30	28	25	22	20	19	18	16	15	15	14	15	15	17	18	19	21	23	24	21	30	14
8	24	26	30	30	29	30	32	32	29	26	24	21	19	18	21	19	16	17	22	24	39	72	85	83	32	85	16
9	81	81	83	81	80	88	83	84	82	71	66	55	45	39	35	31	28	29	32	38	29	29	36	43	56	88	28
10	52	58	68	67	64	64	60	52	44	40	33	29	27	28	29	26	25	21	23	28	31	38	39	44	41	68	21
11	45	43	38	36	40	45	43	35	27	23	20	21	18	17	16	14	13	13	15	18	22	23	25	22	26	45	13
12	25	25	26	27	28	29	30	25	22	18	16	13	13	14	14	13	12	13	15	19	20	19	23	21	20	30	12
13	24	23	25	26	25	27	26	22	17	14	14	12	13	12	11	11	11	11	11	14	15	17	20	20	18	27	11
14	21	23	22	22	23	23	24	22	21	19	17	16	14	13	11	11	10	11	12	13	15	15	19	23	17	24	10
15	26	28	27	30	32	34	35	30	25	22	21	19	17	15	14	12	12	13	16	18	17	20	23	25	22	35	12
16	29	32	34	38	41	39	36	29	27	25	23	24	20	17	15	15	16	15	19	22	23	27	27	23	26	41	15
17	22	24	27	32	36	37	40	42	41	34	28	26	21	20	16	14	12	11	11	13	13	15	14	16	23	42	11
18	20	19	18	18	20	22	22	19	19	17	13	11	11	10	9	9	9	10	10	11	9	8	7	8	14	22	7
19	9	9	10	8	8	6	6	6	6	7	6	5	4	4	4	3	3	4	5	6	8	9	11	11	7	11	3
20	13	13	15	12	13	12	13	13	8	7	7	7	7	7	7	7	7	8	8	10	10	11	11	13	10	15	7
21	13	12	12	14	13	13	14	14	12	10	9	8	7	6	6	6	5	5	6	7	10	11	12	13	10	14	5
22	14	14	12	15	14	13	13	13	10	9	8	7	7	6	6	6	6	7	8	9	12	13	13	13	10	15	6
23	13	12	13	14	15	16	16	15	13	11	11	10	10	10	11	11	12	13	13	14	16	17	18	19	13	19	10
24	20	19	17	17	17	17	17	17	16	13	10	9	8	7	8	7	7	8	9	11	12	13	14	16	13	20	7
25	18	18	16	19	19	21	22	16	14	13	12	14	18	15	11	12	15	18	21	23	24	27	28	30	18	30	11
26	29	29	26	24	25	28	27	24	20	19	18	17	16	14	14	13	12	11	12	12	14	16	17	18	19	29	11
27	18	20	20	20	20	20	19	17	13	12	10	9	8	8	7	7	7	7	8	9	11	12	11	11	13	20	7
28	10	13	12	11	10	10	11	9	7	5	4	4	3	3	3	3	3	3	4	5	7	8	8	8	7	13	3
29	8	10	11	10	9	10	10	8	7	6	5	5	5	6	6	5	5	5	5	7	8	9	9	10	8	11	5
30	11	11	11	11	13	10	10	9	7	7	6	6	5	6	5	5	5	5	5	6	8	8	9	10	8	13	5
Avg	23	24	25	25	26	27	27	24	21	19	17	15	14	13	13	12	11	12	13	15	16	19	21	22	19	--	--
Max	81	81	83	81	80	88	83	84	82	71	66	55	45	39	35	31	28	29	32	38	39	72	85	83	--	88	--
Min	8	9	10	8	8	6	6	6	6	5	4	4	3	3	3	3	3	3	4	5	7	8	7	8	--	--	3

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11	11	12	12	12	13	14	11	10	8	8	7	7	7	7	6	7	8	9	10	11	11	11	11	10	14	6
2	8	5	5	4	4	5	5	5	5	5	5	4	4	4	3	3	2	3	3	3	4	7	8	8	5	8	2
3	11	13	13	14	15	16	16	16	15	13	12	10	9	8	7	7	6	6	6	8	8	7	8	8	10	16	6
4	8	8	8	8	8	8	8	8	8	8	7	6	5	5	5	5	5	5	5	6	7	8	10	9	7	10	5
5	8	9	11	12	13	15	16	13	14	14	12	10	9	8	9	8	8	8	9	11	14	18	21	16	12	21	8
6	21	42	43	44	52	54	51	48	40	36	33	29	25	26	25	23	22	22	19	19	21	24	27	25	32	54	19
7	28	32	31	34	36	37	37	34	32	29	26	22	20	16	14	15	14	18	20	28	30	31	34	33	27	37	14
8	32	34	44	53	55	55	52	49	43	35	30	26	24	21	18	20	19	19	21	25	26	27	29	30	33	55	18
9	29	30	29	32	35	40	42	35	33	28	24	21	20	19	17	16	16	16	19	20	19	19	22	23	25	42	16
10	22	23	27	28	30	30	29	24	21	19	17	16	15	13	12	12	15	13	14	15	15	19	22	22	20	30	12
11	22	23	24	24	25	26	26	25	24	22	19	14	12	12	12	12	12	12	13	15	16	17	16	17	18	26	12
12	18	19	19	18	19	20	21	22	21	19	16	13	12	10	9	9	10	10	10	13	14	15	15	15	15	22	9
13	16	17	17	16	16	16	16	15	14	13	12	11	11	10	9	8	8	8	9	9	10	11	12	11	12	17	8
14	10	9	8	8	10	12	10	10	12	11	10	10	8	7	8	8	8	8	9	10	11	12	13	15	10	15	7
15	17	19	19	20	21	22	21	18	17	16	14	14	12	10	10	9	9	10	11	11	12	13	16	17	15	22	9
16	18	18	18	17	18	18	19	16	13	11	10	8	8	7	7	6	5	6	6	6	7	8	9	9	11	19	5
17	9	10	11	13	14	15	16	14	11	10	9	9	8	8	8	7	9	10	11	13	14	15	15	16	11	16	7
18	16	16	13	12	14	15	15	14	15	15	16	12	13	12	13	11	12	14	16	18	18	20	21	21	15	21	11
19	22	23	23	26	29	31	31	30	29	24	19	17	15	14	13	12	12	13	15	16	17	17	17	18	20	31	12
20	20	21	22	24	26	27	24	20	17	13	13	12	8	7	7	7	7	7	7	8	8	10	10	11	14	27	7
21	10	12	11	12	12	13	13	11	10	10	9	8	7	6	6	7	5	6	6	7	8	10	10	11	9	13	5
22	11	11	11	11	11	12	12	10	9	8	7	7	6	5	5	6	6	6	7	7	8	9	10	10	9	12	5
23	11	12	12	14	15	16	15	12	13	11	10	8	8	8	7	7	7	7	6	8	9	10	10	11	10	16	6
24	11	9	7	7	9	10	10	12	15	17	12	10	10	8	8	5	6	6	6	7	9	10	11	11	9	17	5
25	11	12	13	12	13	14	13	10	10	12	11	9	8	6	6	5	5	5	5	6	7	8	10	10	9	14	5
26	10	9	10	11	12	12	12	10	9	8	7	6	5	5	5	5	4	4	5	5	6	8	8	9	8	12	4
27	10	10	10	11	13	12	12	9	8	7	6	4	4	5	7	7	7	8	9	11	13	14	15	16	9	16	4
28	17	18	18	17	17	17	17	15	14	13	11	8	6	7	8	8	8	9	11	13	16	19	21	22	14	22	6
29	21	22	22	20	21	22	21	18	18	18	18	18	18	16	15	14	14	14	15	16	17	19	20	22	18	22	14
30	27	32	33	38	40	41	39	34	33	28	25	21	18	15	14	14	14	14	15	17	18	19	22	26	25	41	14
31	29	32	34	36	38	42	39	31	32	29	26	21	17	17	15	14	12	11	11	14	14	17	19	20	24	42	11
Avg	17	18	19	20	21	22	22	19	18	16	15	13	11	10	10	10	9	10	11	12	13	15	16	16	15	--	--
Max	32	42	44	53	55	55	52	49	43	36	33	29	25	26	25	23	22	22	21	28	30	31	34	33	--	55	--
Min	8	5	5	4	4	5	5	5	5	5	5	4	4	4	3	3	2	3	3	3	4	7	8	8	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	21	22	23	23	23	26	25	18	8	5	5	5	6	6	6	7	7	7	8	8	9	10	11	12	13	26	5
2	13	14	14	15	18	19	18	14	13	12	11	10	9	7	7	7	8	7	6	7	9	12	13	14	11	19	6
3	14	14	15	18	16	16	15	12	10	8	7	8	8	6	5	5	4	4	6	7	8	10	10	11	10	18	4
4	12	12	12	12	12	13	12	10	9	10	10	10	10	10	8	7	8	8	8	10	11	12	13	14	11	14	7
5	15	15	14	16	16	14	13	10	8	9	9	9	8	7	7	6	5	5	5	7	8	9	9	10	10	16	5
6	10	10	11	12	11	12	12	9	9	8	8	8	7	7	7	6	6	6	7	8	8	9	10	10	9	12	6
7	11	10	12	13	13	14	13	10	9	8	8	7	6	6	6	6	6	5	6	7	7	8	8	8	9	14	5
8	8	9	11	11	13	13	12	9	8	8	7	7	7	7	7	6	6	6	6	7	8	8	10	11	9	13	6
9	11	12	13	14	15	16	15	13	11	9	7	7	6	5	4	4	4	4	5	6	6	5	6	8	9	16	4
10	9	9	11	13	15	15	15	12	10	9	8	7	6	5	4	4	4	4	4	5	5	6	7	7	8	15	4
11	8	10	11	10	11	8	6	5	5	5	7	6	6	6	6	6	6	6	7	8	8	9	9	10	8	11	5
12	11	11	12	11	11	11	12	10	9	8	8	7	7	7	6	6	6	6	7	9	10	11	10	10	9	12	6
13	11	14	16	19	20	22	21	18	18	16	16	14	12	11	12	13	13	13	14	17	18	18	19	22	16	22	11
14	23	24	27	29	31	31	29	27	23	19	17	13	14	13	13	11	11	11	11	14	16	17	18	18	19	31	11
15	17	18	20	21	21	25	23	18	20	19	20	18	18	18	18	16	16	16	15	15	23	23	25	25	20	25	15
16	26	26	27	29	29	30	29	25	20	17	15	15	14	14	13	12	9	8	9	9	10	10	11	12	17	30	8
17	13	13	13	14	15	15	14	11	9	8	8	8	7	7	7	7	6	6	7	7	8	7	8	10	9	15	6
18	10	10	11	12	13	13	12	9	8	8	7	7	6	5	6	5	4	4	3	4	3	4	5	7	7	13	3
19	8	8	8	8	9	9	9	6	6	5	3	2	4	5	5	4	3	3	4	5	5	6	7	7	6	9	2
20	8	10	10	11	12	12	13	11	9	6	4	4	4	5	4	4	4	4	5	5	6	7	8	9	7	13	4
21	11	11	11	12	13	13	13	11	9	7	6	7	6	5	4	5	5	5	4	5	6	7	8	9	8	13	4
22	9	10	10	10	9	11	11	8	7	6	5	5	5	4	4	4	5	5	5	6	7	8	9	10	7	11	4
23	10	10	11	10	10	12	10	8	7	6	6	5	5	5	5	5	5	5	5	6	7	7	7	9	7	12	5
24	10	10	10	9	9	10	9	7	8	8	8	7	7	6	6	6	6	6	7	9	10	12	13	16	9	16	6
25	18	17	17	15	16	19	18	14	12	11	8	7	6	5	5	5	4	5	6	7	7	7	8	9	10	19	4
26	9	10	12	14	13	13	11	9	9	8	7	7	7	6	6	7	7	8	9	8	8	10	12	14	9	14	6
27	14	15	17	17	19	20	18	14	14	13	12	10	10	9	9	9	8	7	7	8	10	10	10	9	12	20	7
28	11	11	11	13	13	14	16	13	12	11	10	10	10	9	9	7	7	7	7	9	10	11	11	9	10	16	7
29	8	8	9	9	10	10	10	9	9	8	8	8	8	7	7	7	7	8	8	9	10	11	12	12	9	12	7
30	12	12	14	16	17	17	17	16	14	14	14	13	13	12	11	12	12	11	12	14	15	19	29	33	15	33	11
Avg	12	13	14	15	15	16	15	12	11	10	9	8	8	8	7	7	7	7	7	8	9	10	11	12	10	--	--
Max	26	26	27	29	31	31	29	27	23	19	20	18	18	18	18	16	16	16	15	17	23	23	29	33	--	33	--
Min	8	8	8	8	9	8	6	5	5	5	3	2	4	4	4	4	3	3	3	4	3	4	5	7	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.051	0.264	0.055	0.39	0.264	0
9	0	0	0.004	0	0.004	0.016	0.024	0.024	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0.076	0.024	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0.004	0	0.004	0.016	0.024	0.024	0	0	0.004	0	0	0	0	0	0	0	0	0	0.02	0.051	0.264	0.055	0.466	--	--
Max	0	0	0.004	0	0.004	0.016	0.024	0.024	0	0	0.004	0	0	0	0	0	0	0	0	0	0.02	0.051	0.264	0.055	--	0.264	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.008	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	--	--
Max	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.008	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	682	682	682	682	682	682	683	683	683	683	683	683	683	682	682	681	681	681	681	681	681	681	681	681	682	683	681
2	681	681	681	681	681	681	681	682	682	682	682	682	681	681	680	680	680	680	681	681	681	681	682	682	681	682	680
3	682	682	682	682	682	682	683	683	684	684	684	684	683	683	683	682	682	682	683	683	683	684	684	684	683	684	682
4	684	684	684	684	684	684	684	685	685	685	685	685	684	683	683	682	682	682	682	682	682	682	682	682	683	685	682
5	682	682	682	682	682	682	682	682	682	682	682	682	682	681	681	681	681	680	680	680	681	681	681	681	682	682	680
6	682	681	681	681	681	682	682	683	683	683	683	682	682	681	681	680	680	680	680	680	680	680	680	680	681	683	680
7	680	680	679	680	680	680	680	681	681	681	681	680	680	679	679	678	678	678	678	677	677	677	677	677	679	681	677
8	677	677	676	676	675	675	675	674	674	674	673	673	672	671	670	670	670	670	670	670	670	671	673	672	673	677	670
9	673	673	673	673	673	674	675	676	676	677	677	677	677	677	677	677	677	678	678	678	678	679	679	679	676	679	673
10	679	679	679	680	680	680	681	682	682	682	682	682	682	682	681	681	681	681	681	682	682	682	682	682	681	682	679
11	682	682	682	681	681	681	682	682	682	682	682	681	681	680	680	679	678	678	678	678	678	679	678	678	680	682	678
12	678	678	678	678	678	678	678	678	679	679	679	679	679	678	678	678	678	678	678	678	679	679	679	679	678	679	678
13	679	679	679	679	679	679	679	679	680	680	680	679	679	679	678	678	677	677	677	677	677	678	678	678	678	680	677
14	678	678	678	678	678	678	678	678	678	678	678	678	677	677	677	676	676	676	676	676	676	677	677	677	677	678	676
15	677	677	677	677	677	677	678	678	678	678	678	678	677	677	677	676	676	676	676	676	677	678	678	678	677	678	676
16	678	678	678	678	678	678	678	679	679	679	679	678	678	677	677	677	677	677	676	677	677	678	678	679	678	679	676
17	678	678	678	678	678	678	679	679	680	680	680	680	680	680	680	680	680	680	681	681	682	682	682	683	680	683	678
18	683	683	683	683	683	684	684	685	685	685	685	685	685	685	684	684	684	684	685	685	686	686	686	686	684	686	683
19	686	686	686	686	685	685	686	686	686	686	686	686	686	685	684	683	683	682	682	682	682	682	682	682	684	686	682
20	682	682	682	681	681	681	682	682	682	683	682	682	681	681	681	681	681	681	681	681	682	682	682	682	682	683	681
21	682	682	682	682	683	683	683	684	684	684	684	684	683	683	683	682	682	682	682	682	682	682	682	682	683	684	682
22	682	682	682	682	682	682	682	683	683	683	683	682	682	681	680	680	679	679	679	679	679	679	679	679	681	683	679
23	679	679	679	679	679	679	680	680	680	680	681	681	680	680	680	679	679	679	679	680	680	680	680	680	680	681	679
24	680	680	680	680	681	681	681	682	682	682	682	682	681	681	681	680	680	680	680	680	680	680	680	681	681	682	680
25	681	681	681	680	680	681	681	681	681	681	681	681	682	682	681	681	681	682	682	682	683	684	684	684	682	684	680
26	684	684	684	684	684	685	685	686	686	686	686	686	685	685	684	684	684	684	684	684	685	685	685	685	685	686	684
27	685	684	684	684	684	684	685	685	685	685	685	684	684	683	682	682	682	682	681	681	682	682	682	682	683	685	681
28	682	681	681	681	681	681	681	682	682	682	682	681	681	680	680	679	679	679	679	679	679	679	679	679	680	682	679
29	679	679	679	679	679	679	679	679	680	680	680	679	679	678	678	677	677	677	677	677	677	677	677	677	678	680	677
30	678	678	678	678	678	678	679	679	679	679	679	679	678	678	678	677	677	677	677	677	678	678	679	679	678	679	677
Avg	681	680	680	680	680	680	681	681	681	681	681	681	681	680	680	680	679	679	679	680	680	680	680	680	680	--	--
Max	686	686	686	686	685	685	686	686	686	686	686	686	686	685	684	684	684	684	685	685	686	686	686	686	--	686	--
Min	673	673	673	673	673	674	675	674	674	674	673	673	672	671	670	670	670	670	670	670	670	671	673	672	--	--	670

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	680	680	680	680	680	680	681	682	682	682	682	682	682	682	682	682	682	682	682	682	683	683	683	683	682	683	680
2	684	684	684	684	685	685	686	686	687	687	687	687	686	686	685	685	684	684	684	684	684	685	685	685	685	687	684
3	685	685	685	684	684	685	685	685	684	684	684	684	683	682	682	681	680	680	680	680	680	680	680	680	682	685	680
4	679	679	678	678	678	678	679	679	679	679	679	679	678	678	677	677	677	677	677	677	678	678	679	679	678	679	677
5	680	680	680	680	680	680	681	681	681	681	681	681	681	680	680	679	679	678	678	679	679	680	681	681	680	681	678
6	681	681	681	681	681	682	682	682	683	683	683	683	682	682	682	681	681	681	681	681	681	682	682	682	682	683	681
7	682	682	682	682	682	683	683	683	683	683	683	682	682	682	681	681	680	680	680	680	681	681	682	682	682	683	680
8	682	682	682	683	683	683	683	684	684	684	684	684	683	683	683	682	682	682	682	682	682	682	682	683	683	684	682
9	683	682	682	682	682	683	683	683	683	683	683	683	682	682	682	681	681	681	681	682	682	682	682	682	682	683	681
10	682	682	682	682	682	682	683	683	683	684	684	683	683	683	682	682	682	682	682	683	684	685	685	685	683	685	682
11	685	684	684	684	685	685	685	686	686	686	686	686	686	685	685	684	684	684	684	685	685	685	686	686	685	686	684
12	686	686	686	686	686	687	687	687	687	687	687	686	686	685	684	684	683	683	683	683	684	684	684	684	685	687	683
13	684	684	684	684	684	685	685	686	686	686	685	685	684	684	683	683	682	682	682	682	682	682	683	683	684	686	682
14	683	682	682	683	683	683	683	684	684	684	683	683	682	682	681	681	680	680	680	680	681	681	681	682	682	684	680
15	682	682	682	683	683	683	683	683	684	683	683	683	682	682	682	681	681	680	680	680	681	681	681	681	682	684	680
16	681	681	681	681	681	682	682	682	682	682	682	681	681	681	680	679	679	679	679	679	679	680	680	680	681	682	679
17	680	680	680	680	680	680	681	681	681	681	681	681	681	681	680	680	680	680	680	680	680	681	681	681	680	681	680
18	681	681	681	681	681	681	682	682	682	682	682	682	681	681	681	680	680	680	680	680	681	681	681	681	681	682	680
19	681	681	681	681	681	681	682	682	682	682	681	681	681	680	680	679	679	679	679	679	679	680	680	680	680	682	679
20	680	680	680	680	680	681	681	681	681	681	681	681	681	680	680	680	679	679	679	680	680	681	681	681	680	681	679
21	681	681	681	681	681	681	681	682	682	682	681	681	681	681	680	680	679	679	679	679	679	679	679	679	680	682	679
22	679	678	678	678	678	679	679	680	680	680	680	679	679	678	678	677	677	676	677	677	677	678	678	678	678	680	676
23	678	678	679	679	679	679	679	680	680	680	680	680	680	680	679	679	678	678	678	679	679	680	680	681	679	681	678
24	681	681	681	681	681	681	682	682	682	682	682	682	682	681	681	681	681	680	680	680	680	681	681	681	681	682	680
25	681	681	681	681	681	682	682	683	683	683	683	683	682	682	682	681	681	681	680	680	681	681	682	682	682	683	680
26	682	682	682	682	682	682	682	683	683	683	683	683	683	683	682	682	681	681	681	681	681	681	682	681	682	683	681
27	681	681	681	681	681	681	681	681	681	681	680	680	680	680	680	679	679	678	678	678	678	679	679	678	680	681	678
28	678	678	678	678	677	677	678	678	678	678	678	678	677	677	676	676	675	675	675	675	676	676	676	677	677	678	675
29	677	677	677	677	677	677	678	678	678	678	678	678	678	678	677	677	677	676	676	676	677	677	678	678	677	678	676
30	678	678	678	679	679	679	680	680	680	680	680	680	680	680	680	679	679	679	679	679	679	679	680	680	679	680	678
31	680	680	680	680	681	681	681	682	682	682	682	681	681	680	680	680	679	679	679	679	680	680	680	680	680	682	679
Avg	681	681	681	681	681	682	682	682	682	682	682	682	682	681	681	680	680	680	680	680	680	681	681	681	681	--	--
Max	686	686	686	686	686	687	687	687	687	687	687	687	686	686	685	685	684	684	684	685	685	685	686	686	--	687	--
Min	677	677	677	677	677	677	678	678	678	678	678	678	677	677	676	676	675	675	675	675	676	676	676	677	--	--	675

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	680	680	680	679	680	680	680	680	680	680	680	680	679	679	679	678	678	678	678	678	678	679	679	679	679	680	678
2	679	679	679	679	679	679	679	680	680	680	680	679	679	678	678	678	677	677	677	677	677	678	678	678	678	680	677
3	678	678	679	679	679	679	680	680	681	681	681	681	680	680	679	679	679	678	679	679	679	679	679	680	679	681	678
4	680	680	680	680	680	680	681	681	681	681	681	681	681	680	680	680	679	679	679	679	680	680	680	681	680	681	679
5	681	680	680	680	681	681	681	681	682	682	682	681	681	681	680	680	679	679	679	679	679	680	680	680	680	682	679
6	680	680	679	679	679	679	680	680	680	680	680	680	680	679	679	678	678	678	678	678	678	679	679	679	679	680	678
7	679	679	679	679	679	679	680	680	680	680	679	679	679	678	678	678	677	677	677	677	677	678	678	678	678	680	677
8	678	678	678	678	679	679	679	680	680	680	680	680	680	680	679	679	679	679	679	679	680	680	680	681	679	681	678
9	681	681	681	681	681	681	682	682	682	682	682	682	682	681	681	681	680	680	680	680	680	680	680	680	681	682	680
10	680	680	681	681	681	681	681	682	682	682	682	682	682	681	681	680	680	680	679	679	680	680	681	681	681	682	679
11	681	681	681	680	681	681	682	682	682	682	682	682	682	681	681	681	680	680	680	681	681	681	682	681	681	682	680
12	681	681	681	681	681	682	682	683	683	683	683	683	682	682	681	681	681	680	680	681	681	681	681	681	681	683	680
13	681	681	681	682	682	683	683	683	683	683	683	683	682	682	681	681	680	680	680	680	680	680	681	681	681	683	680
14	681	681	680	681	681	681	681	682	682	682	682	682	681	681	680	679	679	679	679	679	679	680	680	680	680	682	679
15	680	680	680	680	681	681	682	682	682	682	682	682	682	681	680	680	680	680	680	680	681	681	682	682	681	682	680
16	681	681	681	682	682	682	682	683	683	683	683	683	682	682	681	681	681	681	681	681	681	681	681	682	682	683	681
17	682	682	682	682	682	682	682	682	683	683	683	682	682	682	681	681	680	680	680	680	680	680	680	680	681	683	680
18	680	680	680	680	680	681	681	681	681	681	681	681	680	680	680	679	679	679	678	678	678	678	679	679	680	681	678
19	678	678	678	678	678	679	679	680	680	680	680	680	679	679	679	678	678	678	678	677	678	678	678	678	679	680	677
20	679	679	678	679	679	679	680	680	680	680	681	680	680	680	680	679	679	678	678	678	679	679	679	680	679	681	678
21	680	680	680	680	680	680	681	681	681	681	681	681	681	681	680	680	679	679	679	679	679	679	680	680	680	681	679
22	680	680	680	680	680	680	681	681	681	681	681	681	681	680	680	679	679	678	678	679	679	679	679	679	680	681	678
23	679	679	680	679	680	680	680	680	680	680	680	680	679	679	679	678	678	677	677	677	678	678	678	679	679	680	677
24	679	679	679	679	679	680	680	681	681	681	681	681	680	680	680	679	679	679	679	679	680	680	681	681	680	681	679
25	681	681	681	681	682	682	683	683	683	683	683	683	683	682	682	682	681	681	681	681	681	681	682	682	682	683	681
26	683	683	683	683	684	684	684	685	685	685	685	685	685	684	684	683	683	683	683	683	683	683	684	684	684	685	683
27	684	684	684	684	684	684	685	685	686	686	685	685	685	684	684	683	683	682	682	682	683	683	683	683	684	686	682
28	683	683	683	682	682	682	683	683	683	683	683	683	682	682	681	681	681	680	680	680	681	681	681	681	682	683	680
29	681	681	681	681	681	681	681	682	682	682	682	682	681	680	680	680	679	679	679	679	679	680	680	680	680	682	679
30	680	680	680	680	680	680	681	681	681	681	681	681	680	680	679	678	678	678	678	679	679	680	682	682	680	682	678
Avg	680	680	680	680	680	681	681	682	682	682	682	681	681	681	680	680	679	679	679	679	680	680	680	680	680	--	--
Max	684	684	684	684	684	684	685	685	686	686	685	685	685	684	684	683	683	683	683	683	683	683	684	684	--	686	--
Min	678	678	678	678	678	679	679	680	680	680	679	679	679	678	678	678	677	677	677	677	677	678	678	678	--	--	677

Appendix D: PM_{10} and $PM_{2.5}$ Data – Hourly

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	11.3	12.4	19.2	13.5	12.4	13.4	13.4	16.9	17.0	20.5	17.1	24.0	24.0	23.0	25.3	34.5	27.5	22.9	17.1	15.9	15.8	22.6	11.2	12.3	18.5	34.5	11.2
2	19.1	14.5	14.5	10.0	8.9	10.0	10.0	11.2	13.6	21.4	13.6	14.8	14.8	19.4	17.2	28.6	22.9	25.1	20.5	17.0	23.8	12.4	13.5	12.4	16.2	28.6	8.9
3	10.1	10.1	8.9	8.9	10.0	10.0	11.2	9.0	5.6	6.8	9.1	10.3	8.0	10.4	10.4	10.4	11.5	11.5	11.4	11.4	18.2	12.5	12.5	12.4	10.4	18.2	5.6
4	16.8	6.7	5.6	6.7	9.0	9.0	8.9	6.7	7.9	10.3	21.8	8.1	8.1	--	5.8	5.8	8.1	11.6	13.8	12.6	12.6	17.1	11.4	12.6	10.3	21.8	5.6
5	11.4	10.2	6.8	7.9	9.0	10.2	18.0	17.1	20.6	16.1	15.0	17.3	19.7	19.7	33.6	30.1	16.2	22.0	31.1	20.6	16.0	14.8	12.5	11.4	17.0	33.6	6.8
6	11.3	18.1	12.4	10.2	11.3	11.2	10.1	13.6	14.8	13.7	12.6	11.5	17.3	15.0	17.4	26.6	26.6	27.7	23.0	18.3	19.4	17.1	17.1	17.1	16.4	27.7	10.1
7	14.8	35.3	14.7	15.8	14.7	13.5	14.6	14.7	35.5	24.1	17.3	13.9	17.4	19.7	15.1	25.6	36.0	13.9	23.1	15.0	14.9	16.0	17.1	46.9	20.4	46.9	13.5
8	16.0	21.7	18.2	12.5	12.5	14.8	19.4	18.2	14.9	20.7	70.5	235.7	277.9	329.9	414.1	455.1	283.1	246.5	282.4	194.2	291.6	70.4	7.7	6.6	138.9	455.1	6.6
9	8.8	26.5	46.3	144.5	151.1	13.2	9.9	32.9	168.9	146.1	111.2	59.8	40.1	30.1	32.4	30.2	19.1	22.4	12.3	10.1	10.1	17.9	14.5	14.4	48.9	168.9	8.8
10	12.1	7.7	6.6	9.8	7.6	5.4	5.5	7.7	13.2	11.1	6.7	8.9	6.7	3.4	3.4	2.3	5.6	5.6	6.7	5.6	5.5	6.7	5.5	5.5	6.9	13.2	2.3
11	7.7	7.7	8.8	7.7	6.6	8.8	8.8	6.7	9.0	11.3	10.2	9.1	9.1	9.1	6.9	6.9	9.2	10.3	11.4	12.5	12.5	11.3	9.0	11.3	9.2	12.5	6.6
12	13.4	11.2	12.3	16.8	12.3	11.1	12.3	13.6	12.6	11.4	14.9	20.8	8.1	11.6	23.1	19.6	13.8	13.8	11.5	19.4	20.5	15.9	15.8	13.6	14.6	23.1	8.1
13	10.1	7.9	9.1	13.5	12.4	12.4	13.6	17.0	21.7	15.0	16.1	18.5	17.4	17.4	17.4	30.2	15.1	27.9	18.5	18.5	19.6	27.5	20.6	20.6	17.4	30.2	7.9
14	13.6	12.5	13.6	15.9	21.5	24.9	20.4	17.0	19.4	12.6	19.5	30.0	38.2	31.3	33.7	23.3	31.5	31.4	51.0	84.3	80.5	59.6	58.2	46.6	32.9	84.3	12.5
15	30.6	26.0	15.8	15.8	19.2	13.5	13.5	13.6	12.5	20.5	25.2	43.7	36.9	26.6	39.5	68.7	25.6	27.9	33.6	28.8	50.5	50.3	26.2	13.6	28.3	68.7	12.5
16	14.7	14.7	12.4	12.4	16.9	14.6	15.8	13.6	12.5	11.4	17.1	18.3	23.0	33.5	34.7	40.5	27.7	23.1	24.1	53.7	56.8	31.7	34.9	34.8	24.7	56.8	11.4
17	23.5	17.9	21.2	13.3	13.3	13.3	19.9	42.0	45.3	43.3	45.5	39.0	31.3	43.6	37.0	20.2	19.1	10.1	13.4	14.5	13.3	12.2	11.1	11.0	23.9	45.5	10.1
18	16.5	15.4	12.1	7.7	7.6	7.6	7.6	9.8	11.0	7.7	6.6	4.4	4.5	6.7	6.7	7.9	10.2	7.9	6.7	6.7	21.0	29.8	32.9	18.6	11.4	32.9	4.4
19	28.5	--	26.3	28.5	18.6	12.1	20.9	28.7	17.7	14.5	15.7	12.4	12.5	11.4	5.7	6.9	6.9	4.6	6.8	7.9	11.3	12.4	7.9	7.9	14.2	28.7	4.6
20	12.4	12.4	19.1	6.7	6.7	5.5	5.6	6.8	9.1	9.1	9.2	11.5	9.2	20.8	16.2	19.7	18.5	19.6	12.7	10.3	11.4	12.5	10.2	7.9	11.8	20.8	5.5
21	31.7	7.9	9.0	7.8	6.7	8.9	10.1	12.5	13.7	12.6	13.9	11.6	11.6	12.8	15.1	17.5	17.4	15.1	13.9	24.2	16.0	13.7	10.2	11.4	13.6	31.7	6.7
22	12.5	11.3	13.6	14.7	13.5	13.5	16.9	17.1	19.6	21.9	35.9	11.6	17.5	11.7	18.7	21.1	22.2	15.2	15.1	15.1	15.0	13.8	14.9	16.1	16.6	35.9	11.3
23	18.4	4.6	8.0	11.4	7.9	7.9	6.8	5.8	9.2	9.2	9.2	8.1	--	--	--	35.0	30.3	43.0	32.4	20.8	18.4	21.7	14.9	29.8	16.8	43.0	4.6
24	21.8	26.1	23.7	19.2	21.4	24.8	21.5	20.5	30.9	25.4	19.7	17.4	17.5	18.6	24.5	24.5	29.1	22.1	23.2	22.0	18.5	26.4	19.5	29.8	22.8	30.9	17.4
25	27.4	26.2	18.2	10.2	18.2	17.1	14.8	12.6	12.6	13.8	41.5	86.2	61.9	76.8	50.5	20.7	26.4	37.7	28.4	20.4	21.5	16.9	23.6	21.4	29.4	86.2	10.2
26	19.0	20.0	8.9	10.0	12.2	20.0	20.0	19.1	30.7	54.8	14.9	23.0	20.7	19.6	17.4	19.7	22.0	24.3	20.7	21.8	25.2	21.7	20.6	19.4	21.1	54.8	8.9
27	19.4	14.8	18.1	19.2	16.9	18.0	22.6	21.7	16.2	19.7	29.1	15.2	16.4	21.1	21.1	14.1	24.6	17.5	18.6	17.4	23.1	20.8	20.8	25.2	19.6	29.1	14.1
28	13.7	12.5	11.4	13.6	14.8	15.9	14.8	12.7	12.8	14.0	14.1	12.9	14.2	13.0	13.0	11.8	11.8	14.2	14.1	15.2	16.3	14.0	11.6	12.8	13.6	16.3	11.4
29	12.8	22.1	18.6	16.3	12.7	12.6	13.8	18.6	30.5	18.8	18.8	21.3	13.0	11.9	17.8	19.1	21.4	16.6	15.4	15.3	15.3	16.4	16.4	21.0	17.4	30.5	11.9
30	14.0	22.0	26.7	16.2	17.3	19.6	17.3	19.8	16.3	16.4	16.4	18.9	24.8	27.2	27.2	29.6	29.6	29.6	29.5	28.2	32.7	29.1	23.2	24.3	23.2	32.7	14.0
Avg	16.5	15.7	15.3	17.2	17.4	13.1	13.9	15.9	22.5	21.8	22.9	27.9	28.3	32.0	34.5	36.9	29.0	27.4	28.1	25.9	30.9	22.2	17.5	18.3	22.9	--	--
Max	31.7	35.3	46.3	144.5	151.1	24.9	22.6	42.0	168.9	146.1	111.2	235.7	277.9	329.9	414.1	455.1	283.1	246.5	282.4	194.2	291.6	70.4	58.2	46.9	--	455.1	--
Min	7.7	4.6	5.6	6.7	6.6	5.4	5.5	5.8	5.6	6.8	6.6	4.4	4.5	3.4	3.4	2.3	5.6	4.6	6.7	5.6	5.5	6.7	5.5	5.5	--	--	2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.1	18.4	20.6	16.0	13.7	10.2	12.5	14.9	16.1	13.8	10.4	18.6	17.5	26.8	17.5	23.4	23.4	29.1	31.3	31.2	23.1	26.5	20.7	24.1	19.8	31.3	10.2
2	34.2	89.4	78.8	115.5	98.4	60.2	66.9	80.3	113.0	65.2	41.8	19.3	--	17.3	15.0	15.1	17.4	15.1	15.0	11.5	43.5	128.6	124.6	103.8	59.6	128.6	11.5
3	175.3	222.8	167.6	175.8	153.1	142.7	132.9	154.4	173.0	180.8	145.1	118.6	127.0	112.8	97.2	87.0	85.8	77.7	77.5	94.2	75.6	59.5	62.8	55.8	123.1	222.8	55.8
4	54.6	48.8	51.0	61.3	73.7	81.6	89.6	92.4	92.0	83.3	75.5	80.7	83.3	67.0	84.7	80.2	86.1	75.4	69.2	60.8	39.6	99.7	85.3	45.9	73.4	99.7	39.6
5	38.9	27.4	29.6	23.8	29.6	26.2	23.9	28.6	25.2	28.8	27.7	22.0	22.1	22.1	26.8	28.0	22.2	31.5	24.4	28.9	49.4	69.9	79.6	32.9	32.1	79.6	22.0
6	24.9	16.8	10.1	16.8	8.9	11.1	11.2	7.9	7.9	10.2	19.3	14.8	14.9	10.3	9.2	9.2	11.5	11.5	17.2	19.5	14.9	18.2	17.0	12.4	13.6	24.9	7.9
7	7.9	6.7	5.6	6.7	5.6	5.6	9.0	10.1	13.6	10.2	5.7	6.9	8.0	9.2	9.2	11.5	24.2	24.1	11.4	27.3	25.0	24.9	19.2	20.2	12.8	27.3	5.6
8	16.8	15.7	15.6	15.6	15.5	13.3	16.7	19.0	18.0	22.5	17.0	12.5	18.2	13.7	13.7	18.3	22.8	19.4	14.8	14.7	19.3	19.2	19.2	18.0	17.1	22.8	12.5
9	18.1	18.0	14.6	13.4	13.4	16.7	20.2	22.6	20.4	26.1	22.9	18.4	17.2	16.1	19.6	15.0	23.1	21.9	22.9	22.8	25.1	17.0	17.0	18.1	19.2	26.1	13.4
10	21.4	15.8	19.1	14.6	18.0	12.3	14.7	19.3	19.5	11.5	17.3	20.8	22.0	17.4	15.1	19.8	11.6	13.9	15.0	15.0	11.5	23.9	23.8	13.6	16.9	23.9	11.5
11	13.6	11.3	9.0	10.1	10.1	10.1	10.2	11.3	6.9	9.2	13.8	13.8	19.6	16.2	11.6	8.1	10.5	9.3	9.2	9.2	8.0	8.0	8.0	5.7	10.5	19.6	5.7
12	4.5	6.8	6.8	5.6	6.7	12.3	24.9	23.9	18.3	17.2	16.2	16.2	12.8	7.0	8.2	12.9	14.1	10.6	24.6	7.0	9.3	9.2	9.2	8.0	12.2	24.9	4.5
13	6.8	8.0	5.7	6.8	11.3	11.3	11.4	13.8	22.0	24.4	16.4	24.6	15.3	15.3	13.0	14.2	31.8	34.1	25.8	26.8	24.4	31.3	31.2	26.5	18.8	34.1	5.7
14	18.4	14.9	13.8	11.5	12.6	29.7	13.8	12.7	18.6	18.6	19.9	18.8	20.0	18.9	20.1	24.9	27.3	22.5	22.4	29.4	18.8	19.9	22.2	26.8	19.8	29.7	11.5
15	33.6	34.6	28.7	18.3	16.0	19.4	14.9	19.6	18.5	16.3	15.2	19.9	25.9	22.4	26.0	26.0	35.4	41.3	29.4	27.0	29.2	27.9	30.2	31.2	25.3	41.3	14.9
16	20.8	20.7	14.9	11.5	11.4	12.6	20.7	17.4	16.3	12.8	14.1	31.7	9.4	13.0	26.0	32.0	27.3	20.1	22.4	12.9	19.9	23.3	22.0	8.1	18.4	32.0	8.1
17	8.1	4.6	3.4	5.7	5.7	6.9	9.2	8.1	9.3	10.5	12.8	15.2	28.1	21.1	25.9	23.5	22.3	19.9	19.8	17.4	20.8	12.7	11.5	11.5	13.9	28.1	3.4
18	13.8	14.9	11.4	8.0	9.1	7.9	9.1	13.7	14.9	18.4	18.5	18.5	15.1	20.9	25.6	28.0	19.8	25.6	29.0	22.0	20.8	21.8	12.6	21.8	17.6	29.0	7.9
19	19.5	19.4	14.8	20.4	18.1	17.0	20.5	21.7	22.9	17.3	19.7	18.6	24.5	21.0	25.7	31.6	23.4	26.9	30.3	20.9	22.0	17.3	18.5	19.6	21.3	31.6	14.8
20	16.1	21.8	19.5	21.7	18.2	18.1	17.1	19.6	16.2	16.3	16.3	19.8	16.4	31.6	71.4	28.1	60.9	25.7	22.1	19.7	10.4	11.5	17.3	20.6	23.2	71.4	10.4
21	14.8	13.7	11.4	9.1	9.1	10.2	9.2	6.9	7.0	10.5	11.7	10.5	8.2	7.1	4.7	7.1	11.8	14.1	14.1	14.0	15.2	12.8	17.3	9.2	10.8	17.3	4.7
22	9.2	6.9	4.6	5.8	3.4	5.7	9.2	10.5	11.7	12.9	14.1	20.0	15.4	17.8	21.4	39.4	34.6	26.2	29.7	30.7	37.7	53.9	57.2	67.5	22.7	67.5	3.4
23	47.6	30.2	19.7	23.0	18.4	19.5	20.8	20.9	18.6	24.5	22.3	20.0	16.5	23.6	22.5	30.9	33.2	32.0	26.0	20.0	26.9	52.4	35.9	30.0	26.5	52.4	16.5
24	20.8	16.1	12.7	11.5	11.5	10.3	10.4	13.9	24.4	36.1	30.4	27.0	25.9	29.5	29.5	20.1	21.3	27.2	16.5	14.1	12.8	31.3	28.9	30.0	21.3	36.1	10.3
25	23.0	18.3	12.6	17.1	11.4	11.4	12.7	16.2	22.0	22.1	24.5	19.9	20.0	10.6	14.1	17.7	22.4	16.5	15.3	15.2	18.7	24.4	18.5	19.6	17.7	24.5	10.6
26	15.0	13.8	13.8	14.9	12.5	10.2	13.7	12.6	11.6	13.9	14.0	12.8	10.5	9.4	12.9	18.7	11.7	17.6	16.4	14.0	13.9	18.5	13.9	12.7	13.7	18.7	9.4
27	9.2	10.3	12.5	12.5	14.8	12.4	11.4	12.6	11.6	9.3	11.6	14.0	11.7	9.4	18.8	25.9	17.7	18.8	21.1	19.9	24.4	20.9	17.4	22.0	15.4	25.9	9.2
28	20.8	19.5	13.7	13.7	14.8	13.7	19.6	26.7	23.3	21.0	22.2	23.5	11.8	18.9	26.0	27.2	31.9	28.3	21.2	23.5	19.9	29.1	30.2	22.0	21.8	31.9	11.8
29	13.9	11.5	10.3	9.2	10.3	12.6	11.5	10.4	18.5	19.8	23.4	30.4	35.2	41.2	35.4	44.9	39.0	51.9	48.3	62.2	52.6	49.0	51.2	43.0	30.6	62.2	9.2
30	31.3	27.8	32.3	20.7	17.2	20.6	17.3	23.1	22.0	20.9	32.8	23.5	22.4	23.6	30.7	28.4	40.2	29.5	28.3	25.8	25.8	30.4	29.2	37.1	26.7	40.2	17.2
31	28.8	26.5	26.4	27.5	26.3	27.4	28.7	42.9	45.3	58.3	46.8	42.3	34.2	--	39.2	33.3	30.9	30.8	21.3	23.5	27.0	29.3	30.4	32.8	33.0	58.3	21.3
Avg	25.7	26.8	22.9	24.0	22.5	21.9	23.0	26.1	28.3	27.8	25.8	25.0	24.3	23.0	26.4	26.8	28.9	27.4	25.6	25.2	25.3	33.0	31.7	27.4	26.1	--	--
Max	175.3	222.8	167.6	175.8	153.1	142.7	132.9	154.4	173.0	180.8	145.1	118.6	127.0	112.8	97.2	87.0	86.1	77.7	77.5	94.2	75.6	128.6	124.6	103.8	--	222.8	--
Min	4.5	4.6	3.4	5.6	3.4	5.6	9.0	6.9	6.9	9.2	5.7	6.9	8.0	7.0	4.7	7.1	10.5	9.3	9.2	7.0	8.0	8.0	8.0	5.7	--	--	3.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	28.1	18.7	24.5	17.5	16.2	20.8	21.0	29.3	24.7	20.2	19.1	24.0	14.5	20.5	22.9	24.1	19.3	16.8	16.8	21.5	16.6	20.2	18.9	20.1	20.7	29.3	14.5
2	22.3	19.9	18.8	20.0	15.1	19.8	21.1	22.4	17.8	29.9	29.9	26.4	19.2	16.8	14.4	15.7	32.5	26.5	18.0	10.8	22.6	28.4	31.8	23.5	21.8	32.5	10.8
3	22.3	9.4	22.2	17.5	9.3	11.6	18.6	7.0	9.4	77.8	9.5	10.7	11.9	46.5	27.5	32.3	20.3	14.3	14.3	14.2	11.8	11.7	24.6	12.9	19.5	77.8	7.0
4	11.7	11.6	11.6	12.7	13.8	12.7	13.9	15.2	15.3	14.2	13.0	11.9	14.3	16.7	22.6	22.7	21.5	14.3	15.4	15.4	13.0	15.3	15.2	19.8	15.2	22.7	11.6
5	15.2	17.4	32.4	10.4	10.4	12.7	18.5	10.5	12.9	12.9	11.8	11.8	14.2	16.7	14.3	21.5	11.9	14.3	--	--	--	--	--	--	15.0	32.4	10.4
6	--	--	--	--	--	--	--	--	--	--	--	16.7	26.3	26.4	24.0	20.4	16.8	26.4	20.4	25.1	22.6	23.8	26.1	26.0	--	26.4	16.7
7	22.5	24.9	23.7	22.4	21.2	22.3	27.0	27.2	81.0	23.9	33.5	37.3	25.3	14.5	25.4	24.2	29.0	14.5	24.1	25.2	20.3	25.1	21.5	20.3	26.5	81.0	14.5
8	17.8	20.2	20.1	20.0	24.6	18.7	16.4	15.3	14.1	15.4	11.9	13.1	28.6	39.6	44.4	45.6	121.3	49.2	37.1	21.4	20.2	29.5	29.4	24.6	29.1	121.3	11.9
9	16.4	18.7	21.0	19.8	22.0	19.7	17.5	22.2	14.1	18.8	9.5	13.0	16.6	17.9	16.7	16.8	18.0	20.3	19.1	14.3	13.0	10.7	8.3	7.1	16.3	22.2	7.1
10	9.4	10.5	11.7	11.6	11.6	11.6	9.3	11.8	20.1	20.1	17.9	17.9	20.4	14.4	22.9	24.1	30.1	14.4	20.4	19.1	13.1	14.2	18.9	13.0	16.2	30.1	9.3
11	18.8	18.8	17.5	8.2	5.8	2.3	5.8	7.1	10.7	19.0	14.3	13.1	13.2	14.4	13.2	14.4	19.3	27.6	29.9	21.4	11.9	14.2	18.9	15.4	14.8	29.9	2.3
12	20.1	13.0	12.9	12.8	12.8	14.0	15.2	18.9	19.0	21.3	26.2	21.5	22.8	25.2	19.2	20.4	33.6	32.4	32.4	28.6	34.5	26.1	32.0	24.9	22.5	34.5	12.8
13	23.6	17.7	24.7	28.0	25.6	23.3	27.9	22.2	22.2	22.3	21.3	21.3	27.4	29.8	37.0	35.7	32.3	37.0	33.3	30.8	27.2	34.3	30.7	31.8	27.8	37.0	17.7
14	31.7	34.0	32.7	32.5	31.3	25.5	32.6	31.5	32.8	23.5	24.8	24.9	30.9	25.0	37.0	32.3	28.8	27.5	25.0	32.1	36.7	33.0	31.6	25.7	30.1	37.0	23.5
15	22.2	30.4	25.7	29.2	20.9	26.7	23.4	25.8	27.0	34.3	36.7	34.5	38.1	37.0	53.8	50.3	50.3	46.6	42.9	34.2	25.8	24.5	25.6	19.8	32.7	53.8	19.8
16	18.6	17.4	15.0	17.3	15.0	15.0	13.9	18.8	24.8	29.6	24.9	28.6	34.6	33.5	31.1	50.3	28.7	25.1	23.8	20.2	18.9	11.8	21.2	18.8	23.2	50.3	11.8
17	10.5	12.9	16.4	16.3	16.3	11.6	11.7	14.1	10.6	9.4	11.9	11.9	14.3	20.3	9.6	19.1	14.4	20.3	16.7	20.2	20.1	17.6	16.4	18.7	15.0	20.3	9.4
18	14.0	12.8	11.7	10.5	10.5	11.6	9.3	20.0	10.6	11.8	13.1	15.5	13.2	12.0	24.0	26.4	21.6	27.6	18.0	17.9	16.6	13.0	11.8	22.3	15.7	27.6	9.3
19	14.0	12.8	10.5	11.7	12.7	10.5	11.7	9.4	20.0	17.8	13.1	8.3	8.3	8.4	9.6	15.6	16.8	15.6	15.5	21.4	17.8	17.7	15.2	14.0	13.7	21.4	8.3
20	19.9	18.7	17.4	18.6	17.4	12.7	18.7	23.5	17.6	20.0	15.4	10.7	7.1	13.1	15.5	15.5	15.6	19.1	15.5	20.2	16.5	16.4	17.6	16.4	16.6	23.5	7.1
21	17.5	17.4	22.2	14.0	17.5	17.4	18.7	18.7	15.3	17.7	8.3	20.2	16.7	14.3	11.9	10.8	40.7	21.5	13.1	19.0	13.0	15.4	24.7	25.7	18.0	40.7	8.3
22	28.0	23.4	20.9	9.3	9.3	11.6	13.9	10.5	8.2	9.4	8.3	7.1	5.9	7.2	9.6	21.5	19.1	20.3	17.9	14.2	14.2	14.1	15.2	12.8	13.8	28.0	5.9
23	10.5	12.8	18.6	7.0	8.1	8.1	9.3	9.4	8.2	9.4	7.1	5.9	8.3	13.2	14.4	25.2	27.6	19.1	19.1	24.9	21.3	29.5	31.8	35.2	16.0	35.2	5.9
24	21.0	15.1	12.8	10.5	9.3	9.3	44.2	5.8	8.2	7.1	3.5	4.7	7.1	26.2	21.4	34.6	32.2	23.8	24.9	16.5	14.1	11.7	24.6	24.5	17.2	44.2	3.5
25	22.1	19.8	18.6	11.6	12.7	13.8	15.1	16.3	18.7	15.2	24.7	7.1	7.1	7.1	7.1	9.5	10.7	10.7	11.9	11.8	12.9	11.7	8.1	7.0	13.0	24.7	7.0
26	8.1	11.6	10.4	8.1	8.1	6.9	10.4	9.3	4.7	10.5	15.3	9.4	4.7	5.9	7.1	7.2	7.2	11.9	19.0	23.6	11.8	11.7	11.7	11.7	10.3	23.6	4.7
27	11.7	9.4	12.8	16.2	15.0	11.6	7.0	50.2	17.5	15.2	15.3	18.9	16.6	22.7	29.9	33.5	28.8	26.4	17.9	16.6	19.0	22.5	17.7	10.6	19.3	50.2	7.0
28	8.3	8.3	8.2	10.6	11.8	11.7	18.9	18.9	15.4	16.7	26.3	16.8	22.9	--	41.2	33.9	23.0	27.9	24.2	20.5	21.5	21.4	25.0	29.7	20.1	41.2	8.2
29	45.2	65.4	64.0	62.7	49.6	60.3	66.2	63.2	57.5	52.9	41.1	43.6	37.7	35.4	53.5	51.1	47.5	43.8	47.3	41.1	35.0	38.5	42.0	40.6	49.4	66.2	35.0
30	46.5	40.5	39.2	43.9	40.2	40.1	35.5	35.8	--	--	37.4	42.3	46.1	42.5	47.4	48.6	33.9	73.8	35.0	45.7	30.0	45.3	54.2	22.2	42.1	73.8	22.2
Avg	19.9	19.4	20.6	18.3	17.0	17.0	19.8	20.4	19.9	21.3	18.8	18.3	19.1	21.5	24.3	26.8	28.4	25.6	23.1	22.3	19.7	21.0	23.1	20.5	21.1	--	--
Max	46.5	65.4	64.0	62.7	49.6	60.3	66.2	63.2	81.0	77.8	41.1	43.6	46.1	46.5	53.8	51.1	121.3	73.8	47.3	45.7	36.7	45.3	54.2	40.6	--	121.3	--
Min	8.1	8.3	8.2	7.0	5.8	2.3	5.8	5.8	4.7	7.1	3.5	4.7	4.7	5.9	7.1	7.2	7.2	10.7	11.9	10.8	11.8	10.7	8.1	7.0	--	--	2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM25_μg/m^3 Actual"

Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	6.0	7.0	8.0	7.0	6.0	7.0	7.0	6.0	4.0	5.0	5.0	3.0	6.0	6.0	2.0	2.0	4.8	8.0	1.0
2	4.0	3.0	1.0	4.0	6.0	3.0	2.0	5.0	6.0	4.0	5.0	5.0	3.0	3.0	2.0	0.0	4.0	7.0	4.0	3.0	4.0	4.0	4.0	5.0	3.8	7.0	0.0
3	4.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	3.0	2.0	1.0	3.0	2.0	2.0	2.0	1.0	5.0	7.0	5.0	3.0	4.0	6.0	2.5	7.0	0.0
4	4.0	2.0	2.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	3.0	4.0	3.0	--	4.0	9.0	7.0	2.0	3.0	4.0	4.0	1.0	0.0	1.0	3.6	9.0	0.0
5	1.0	0.0	-3.0	-1.0	3.0	5.0	4.0	4.0	6.0	6.0	3.0	5.0	5.0	3.0	4.0	5.0	4.0	5.0	5.0	5.0	2.0	1.0	3.0	5.0	3.3	6.0	-3.0
6	5.0	3.0	2.0	5.0	6.0	5.0	4.0	5.0	6.0	3.0	5.0	6.0	4.0	2.0	1.0	3.0	5.0	8.0	8.0	5.0	4.0	4.0	4.0	3.0	4.4	8.0	1.0
7	3.0	5.0	6.0	6.0	5.0	6.0	6.0	5.0	5.0	6.0	4.0	4.0	4.0	4.0	6.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0	4.0	5.0	5.4	8.0	3.0
8	7.0	7.0	6.0	6.0	5.0	4.0	4.0	6.0	6.0	4.0	5.0	9.0	21.0	26.0	34.0	37.0	25.0	29.0	29.0	27.0	29.0	21.0	5.0	4.0	14.8	37.0	4.0
9	5.0	8.0	9.0	27.0	27.0	6.0	6.0	7.0	36.0	28.0	24.0	9.0	10.0	8.0	6.0	6.0	4.0	4.0	3.0	2.0	1.0	3.0	5.0	2.0	10.3	36.0	1.0
10	3.0	5.0	6.0	4.0	3.0	5.0	5.0	5.0	2.0	2.0	4.0	3.0	1.0	1.0	0.0	0.0	4.0	4.0	3.0	3.0	1.0	4.0	5.0	2.0	3.1	6.0	0.0
11	2.0	3.0	4.0	4.0	4.0	6.0	7.0	6.0	6.0	5.0	3.0	5.0	6.0	4.0	2.0	1.0	4.0	3.0	1.0	2.0	3.0	4.0	4.0	5.0	3.9	7.0	1.0
12	7.0	6.0	5.0	6.0	4.0	4.0	4.0	3.0	3.0	4.0	3.0	4.0	5.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	1.0	0.0	3.0	4.0	4.0	7.0	0.0
13	3.0	5.0	4.0	2.0	4.0	8.0	6.0	3.0	4.0	4.0	4.0	5.0	4.0	5.0	4.0	3.0	3.0	3.0	3.0	4.0	2.0	1.0	2.0	3.0	3.7	8.0	1.0
14	5.0	4.0	0.0	1.0	6.0	6.0	5.0	6.0	6.0	5.0	5.0	4.0	6.0	5.0	4.0	4.0	3.0	2.0	4.0	11.0	14.0	11.0	9.0	8.0	5.6	14.0	0.0
15	6.0	7.0	5.0	5.0	4.0	5.0	5.0	3.0	5.0	5.0	3.0	2.0	2.0	5.0	6.0	5.0	16.0	3.0	3.0	4.0	5.0	8.0	8.0	5.0	5.2	16.0	2.0
16	6.0	5.0	3.0	5.0	5.0	5.0	5.0	6.0	5.0	3.0	3.0	5.0	6.0	5.0	5.0	7.0	7.0	5.0	5.0	8.0	10.0	7.0	5.0	6.0	5.5	10.0	3.0
17	6.0	6.0	6.0	6.0	5.0	4.0	4.0	6.0	9.0	10.0	9.0	9.0	6.0	4.0	4.0	3.0	2.0	2.0	4.0	3.0	0.0	-1.0	0.0	2.0	4.5	10.0	-1.0
18	4.0	4.0	4.0	3.0	2.0	3.0	3.0	3.0	4.0	2.0	1.0	2.0	2.0	2.0	3.0	1.0	3.0	3.0	3.0	4.0	3.0	6.0	6.0	6.0	3.2	6.0	1.0
19	6.0	3.0	3.0	6.0	3.0	2.0	4.0	5.0	6.0	6.0	4.0	3.0	5.0	6.0	1.0	--	--	--	--	--	--	--	--	--	--	6.0	1.0
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	9.0	7.0	6.0	16.0	--	16.0	6.0
24	6.0	6.0	8.0	9.0	8.0	9.0	9.0	8.0	7.0	7.0	7.0	7.0	5.0	3.0	4.0	5.0	7.0	8.0	6.0	5.0	7.0	6.0	4.0	5.0	6.5	9.0	3.0
25	7.0	6.0	6.0	5.0	4.0	3.0	2.0	3.0	3.0	3.0	6.0	6.0	8.0	10.0	7.0	5.0	6.0	7.0	8.0	7.0	7.0	8.0	6.0	5.0	5.8	10.0	2.0
26	6.0	7.0	6.0	4.0	5.0	5.0	6.0	7.0	6.0	7.0	8.0	7.0	7.0	6.0	6.0	8.0	8.0	6.0	6.0	6.0	6.0	6.0	5.0	4.0	6.2	8.0	4.0
27	4.0	4.0	5.0	6.0	7.0	8.0	6.0	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	5.0	6.0	7.0	8.0	6.0	5.0	5.0	5.5	8.0	4.0
28	4.0	5.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	4.0	4.0	6.0	4.0	5.0	7.0	6.0	5.0	3.0	4.0	5.0	5.1	7.0	3.0
29	5.0	5.0	3.0	2.0	2.0	3.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	7.0	4.0	6.0	5.0	2.0	3.0	7.0	10.0	7.0	5.0	6.0	5.4	10.0	2.0
30	7.0	8.0	9.0	8.0	6.0	3.0	6.0	8.0	6.0	5.0	6.0	5.0	6.0	8.0	8.0	10.0	8.0	7.0	6.0	6.0	8.0	9.0	9.0	9.0	7.1	10.0	3.0
Avg	4.8	4.7	4.3	5.2	5.3	4.7	4.7	5.0	6.3	5.7	5.5	5.3	5.6	5.6	5.3	6.0	6.1	5.5	5.6	6.1	6.1	5.4	4.5	5.0	5.3	--	--
Max	7.0	8.0	9.0	27.0	27.0	9.0	9.0	8.0	36.0	28.0	24.0	9.0	21.0	26.0	34.0	37.0	25.0	29.0	29.0	27.0	29.0	21.0	9.0	16.0	--	37.0	--
Min	1.0	0.0	-3.0	-1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0	2.0	1.0	1.0	2.0	0.0	-1.0	0.0	1.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM25_μg/m^3 Actual"

Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8.0	6.0	7.0	6.0	5.0	5.0	6.0	6.0	5.0	6.0	7.0	5.0	5.0	9.0	8.0	7.0	8.0	7.0	8.0	8.0	7.0	8.0	7.0	7.0	6.7	9.0	5.0
2	8.0	10.0	12.0	12.0	12.0	7.0	7.0	11.0	13.0	12.0	8.0	6.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	5.0	8.0	20.0	15.0	10.0	8.7	20.0	3.0
3	20.0	27.0	22.0	19.0	15.0	18.0	16.0	19.0	27.0	27.0	17.0	16.0	18.0	18.0	16.0	14.0	14.0	16.0	13.0	13.0	13.0	15.0	13.0	12.0	17.4	27.0	12.0
4	18.0	13.0	14.0	14.0	14.0	16.0	18.0	15.0	16.0	17.0	10.0	19.0	19.0	12.0	17.0	24.0	15.0	19.0	10.0	11.0	9.0	17.0	16.0	17.0	15.4	24.0	9.0
5	16.0	16.0	14.0	11.0	7.0	8.0	10.0	9.0	8.0	12.0	14.0	10.0	7.0	6.0	6.0	5.0	5.0	6.0	5.0	6.0	8.0	17.0	17.0	11.0	9.8	17.0	5.0
6	16.0	13.0	13.0	9.0	4.0	5.0	5.0	5.0	8.0	9.0	7.0	5.0	4.0	7.0	4.0	3.0	5.0	2.0	1.0	2.0	2.0	3.0	3.0	1.0	5.7	16.0	1.0
7	3.0	5.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	6.0	9.0	8.0	4.0	6.0	6.0	4.8	9.0	3.0
8	5.0	6.0	6.0	6.0	7.0	7.0	5.0	6.0	7.0	7.0	7.0	6.0	5.0	6.0	6.0	5.0	6.0	7.0	7.0	5.0	4.0	4.0	5.0	5.0	5.8	7.0	4.0
9	6.0	7.0	6.0	7.0	5.0	4.0	6.0	8.0	9.0	9.0	6.0	4.0	4.0	6.0	7.0	6.0	5.0	5.0	6.0	5.0	5.0	7.0	7.0	6.0	6.1	9.0	4.0
10	7.0	8.0	6.0	6.0	5.0	4.0	6.0	6.0	6.0	6.0	4.0	4.0	6.0	7.0	5.0	4.0	5.0	6.0	6.0	5.0	3.0	2.0	3.0	3.0	5.1	8.0	2.0
11	5.0	6.0	6.0	5.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	6.0	8.0	8.0	5.0	1.0	4.0	7.0	5.0	6.0	7.0	5.0	3.0	4.5	8.0	1.0
12	1.0	2.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	7.0	8.0	8.0	5.0	3.0	3.0	3.0	6.0	4.0	5.0	8.0	7.0	4.0	3.0	4.0	4.7	8.0	1.0
13	5.0	5.0	6.0	6.0	6.0	5.0	4.0	6.0	7.0	5.0	5.0	4.0	5.0	5.0	4.0	6.0	22.0	19.0	16.0	20.0	19.0	22.0	27.0	25.0	10.6	27.0	4.0
14	14.0	11.0	7.0	6.0	5.0	3.0	4.0	5.0	4.0	3.0	4.0	3.0	6.0	7.0	6.0	6.0	6.0	8.0	8.0	6.0	7.0	7.0	6.0	8.0	6.3	14.0	3.0
15	7.0	6.0	5.0	4.0	4.0	4.0	7.0	6.0	4.0	5.0	5.0	4.0	6.0	6.0	5.0	5.0	7.0	7.0	9.0	10.0	8.0	5.0	7.0	9.0	6.0	10.0	4.0
16	8.0	8.0	6.0	4.0	3.0	4.0	6.0	5.0	3.0	4.0	5.0	8.0	8.0	4.0	3.0	4.0	5.0	4.0	4.0	3.0	3.0	5.0	6.0	7.0	5.0	8.0	3.0
17	4.0	2.0	3.0	3.0	4.0	6.0	5.0	32.0	6.0	4.0	4.0	7.0	5.0	5.0	4.0	3.0	4.0	3.0	5.0	7.0	7.0	8.0	6.0	3.0	5.8	32.0	2.0
18	2.0	4.0	5.0	6.0	6.0	4.0	6.0	8.0	8.0	10.0	10.0	7.0	7.0	9.0	9.0	7.0	6.0	8.0	8.0	9.0	8.0	6.0	5.0	7.0	6.9	10.0	2.0
19	7.0	5.0	6.0	8.0	7.0	7.0	9.0	8.0	7.0	7.0	5.0	5.0	6.0	4.0	5.0	7.0	7.0	6.0	6.0	6.0	5.0	6.0	7.0	7.0	6.4	9.0	4.0
20	7.0	9.0	6.0	3.0	5.0	6.0	8.0	8.0	6.0	6.0	4.0	6.0	6.0	5.0	6.0	7.0	7.0	5.0	5.0	4.0	5.0	4.0	4.0	5.0	5.7	9.0	3.0
21	5.0	4.0	4.0	5.0	4.0	5.0	6.0	6.0	5.0	3.0	3.0	4.0	5.0	2.0	1.0	2.0	2.0	1.0	-1.0	3.0	3.0	0.0	1.0	3.0	3.2	6.0	-1.0
22	3.0	2.0	2.0	3.0	3.0	4.0	5.0	3.0	1.0	3.0	5.0	5.0	4.0	2.0	5.0	7.0	6.0	6.0	7.0	7.0	8.0	10.0	12.0	13.0	5.3	13.0	1.0
23	12.0	11.0	8.0	8.0	10.0	12.0	12.0	10.0	10.0	9.0	8.0	8.0	6.0	7.0	8.0	8.0	37.0	14.0	12.0	10.0	8.0	8.0	8.0	7.0	10.5	37.0	6.0
24	8.0	7.0	4.0	4.0	6.0	7.0	6.0	6.0	9.0	10.0	8.0	8.0	6.0	4.0	6.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	8.0	8.0	6.4	10.0	4.0
25	8.0	7.0	5.0	5.0	6.0	7.0	7.0	6.0	7.0	9.0	8.0	7.0	7.0	9.0	6.0	5.0	7.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0	7.0	9.0	5.0
26	6.0	7.0	8.0	7.0	7.0	6.0	6.0	7.0	7.0	6.0	6.0	5.0	5.0	6.0	6.0	6.0	4.0	4.0	4.0	3.0	5.0	5.0	6.0	6.0	5.8	8.0	3.0
27	6.0	6.0	6.0	6.0	5.0	5.0	4.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	6.0	6.0	7.0	6.0	6.0	7.0	4.0
28	6.0	7.0	6.0	6.0	5.0	5.0	7.0	8.0	9.0	9.0	7.0	6.0	5.0	7.0	8.0	6.0	6.0	7.0	7.0	6.0	4.0	7.0	7.0	7.0	6.6	9.0	4.0
29	6.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	5.0	6.0	6.0	5.0	2.0	3.0	5.0	7.0	10.0	10.0	9.0	8.0	9.0	10.0	8.0	10.0	6.1	10.0	2.0
30	10.0	8.0	8.0	8.0	8.0	9.0	9.0	8.0	9.0	10.0	9.0	9.0	10.0	8.0	8.0	8.0	7.0	10.0	10.0	8.0	7.0	10.0	11.0	6.0	8.7	11.0	6.0
31	8.0	12.0	9.0	7.0	7.0	6.0	7.0	10.0	9.0	9.0	11.0	10.0	10.0	--	12.0	10.0	9.0	10.0	7.0	7.0	11.0	11.0	10.0	11.0	9.3	12.0	6.0
Avg	7.9	7.9	7.2	6.7	6.1	6.2	6.8	8.0	7.6	7.9	6.9	6.7	6.6	6.3	6.5	6.4	7.7	7.2	6.9	7.1	7.0	8.1	8.2	7.8	7.2	--	--
Max	20.0	27.0	22.0	19.0	15.0	18.0	18.0	32.0	27.0	27.0	17.0	19.0	19.0	18.0	17.0	24.0	37.0	19.0	16.0	20.0	19.0	22.0	27.0	25.0	--	37.0	--
Min	1.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	1.0	3.0	2.0	3.0	2.0	2.0	1.0	2.0	1.0	1.0	-1.0	2.0	2.0	0.0	1.0	1.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"

Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10.0	7.0	8.0	9.0	7.0	8.0	9.0	7.0	6.0	4.0	3.0	4.0	6.0	6.0	7.0	11.0	12.0	9.0	8.0	7.0	6.0	7.0	6.0	6.0	7.2	12.0	3.0
2	9.0	8.0	7.0	7.0	7.0	7.0	8.0	9.0	9.0	8.0	8.0	8.0	9.0	6.0	3.0	6.0	6.0	5.0	4.0	4.0	7.0	10.0	8.0	5.0	7.0	10.0	3.0
3	5.0	5.0	3.0	4.0	4.0	4.0	5.0	4.0	2.0	5.0	5.0	4.0	4.0	4.0	3.0	6.0	8.0	4.0	0.0	0.0	1.0	3.0	6.0	6.0	4.0	8.0	0.0
4	2.0	2.0	2.0	4.0	4.0	2.0	3.0	4.0	4.0	4.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	3.0	3.0	5.0	3.4	5.0	2.0
5	5.0	5.0	5.0	3.0	3.0	4.0	5.0	7.0	6.0	4.0	3.0	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	3.0
6	--	--	--	--	--	--	--	--	--	--	--	6.0	5.0	4.0	3.0	4.0	4.0	6.0	6.0	7.0	6.0	5.0	6.0	6.0	--	7.0	3.0
7	6.0	9.0	9.0	8.0	6.0	7.0	10.0	8.0	--	--	11.0	14.0	11.0	6.0	6.0	6.0	7.0	7.0	4.0	7.0	7.0	5.0	6.0	6.0	7.5	14.0	4.0
8	6.0	6.0	8.0	8.0	6.0	6.0	7.0	6.0	6.0	4.0	4.0	3.0	3.0	4.0	6.0	9.0	9.0	9.0	9.0	5.0	3.0	5.0	9.0	7.0	6.2	9.0	3.0
9	26.0	8.0	7.0	124.0	11.0	16.0	19.0	30.0	6.0	7.0	6.0	3.0	4.0	6.0	4.0	3.0	36.0	5.0	6.0	9.0	9.0	7.0	4.0	2.0	14.9	124.0	2.0
10	3.0	5.0	6.0	7.0	6.0	3.0	3.0	7.0	8.0	6.0	6.0	7.0	6.0	5.0	6.0	6.0	6.0	7.0	5.0	6.0	7.0	7.0	6.0	4.0	5.8	8.0	3.0
11	5.0	7.0	7.0	5.0	4.0	5.0	5.0	4.0	5.0	9.0	28.0	25.0	19.0	6.0	6.0	16.0	10.0	20.0	29.0	12.0	8.0	5.0	6.0	6.0	10.5	29.0	4.0
12	4.0	4.0	6.0	5.0	5.0	5.0	6.0	6.0	7.0	9.0	11.0	10.0	8.0	9.0	8.0	7.0	8.0	18.0	8.0	9.0	8.0	7.0	10.0	12.0	7.9	18.0	4.0
13	13.0	11.0	9.0	9.0	10.0	9.0	9.0	26.0	15.0	12.0	8.0	6.0	6.0	6.0	7.0	6.0	7.0	11.0	11.0	11.0	11.0	11.0	9.0	8.0	10.0	26.0	6.0
14	11.0	11.0	12.0	13.0	12.0	11.0	13.0	14.0	12.0	11.0	9.0	7.0	7.0	7.0	10.0	7.0	6.0	6.0	6.0	11.0	14.0	13.0	31.0	11.0	11.0	31.0	6.0
15	12.0	10.0	9.0	9.0	10.0	11.0	10.0	9.0	10.0	30.0	11.0	11.0	12.0	13.0	31.0	16.0	11.0	12.0	13.0	14.0	11.0	16.0	9.0	9.0	12.9	31.0	9.0
16	10.0	9.0	10.0	11.0	9.0	8.0	7.0	10.0	19.0	10.0	12.0	11.0	9.0	9.0	8.0	10.0	9.0	5.0	6.0	5.0	6.0	6.0	5.0	5.0	8.7	19.0	5.0
17	4.0	6.0	8.0	7.0	6.0	4.0	6.0	4.0	2.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0	5.0	3.0	5.0	6.0	6.0	6.0	5.0	5.0	4.8	8.0	2.0
18	5.0	6.0	7.0	5.0	4.0	5.0	6.0	6.0	5.0	6.0	7.0	7.0	6.0	5.0	6.0	8.0	6.0	5.0	9.0	10.0	5.0	2.0	2.0	3.0	5.7	10.0	2.0
19	3.0	3.0	2.0	3.0	4.0	3.0	6.0	8.0	8.0	8.0	6.0	4.0	3.0	3.0	5.0	6.0	6.0	4.0	3.0	5.0	4.0	2.0	3.0	4.0	4.4	8.0	2.0
20	5.0	6.0	6.0	5.0	6.0	7.0	6.0	8.0	8.0	7.0	5.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	3.0	3.0	1.0	1.0	6.0	8.0	5.1	8.0	1.0
21	5.0	5.0	6.0	5.0	4.0	5.0	5.0	4.0	5.0	5.0	5.0	6.0	5.0	3.0	4.0	2.0	3.0	5.0	4.0	4.0	4.0	5.0	6.0	6.0	4.6	6.0	2.0
22	5.0	6.0	5.0	2.0	3.0	6.0	6.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0	4.0	4.0	5.0	5.0	3.8	6.0	2.0
23	3.0	4.0	4.0	3.0	3.0	5.0	5.0	3.0	3.0	5.0	4.0	4.0	8.0	9.0	5.0	3.0	4.0	3.0	5.0	7.0	5.0	3.0	4.0	7.0	4.5	9.0	3.0
24	6.0	5.0	3.0	1.0	0.0	2.0	4.0	5.0	4.0	4.0	4.0	4.0	5.0	5.0	4.0	4.0	4.0	5.0	4.0	3.0	3.0	6.0	6.0	4.0	4.0	6.0	0.0
25	8.0	10.0	6.0	5.0	3.0	2.0	4.0	6.0	6.0	6.0	5.0	6.0	6.0	5.0	2.0	1.0	2.0	3.0	4.0	5.0	3.0	2.0	2.0	4.0	4.4	10.0	1.0
26	58.0	45.0	23.0	18.0	24.0	21.0	14.0	12.0	20.0	14.0	9.0	8.0	11.0	9.0	10.0	19.0	12.0	8.0	5.0	6.0	4.0	3.0	4.0	3.0	15.0	58.0	3.0
27	4.0	7.0	6.0	5.0	4.0	3.0	4.0	5.0	6.0	4.0	2.0	5.0	8.0	6.0	6.0	6.0	7.0	8.0	8.0	7.0	6.0	5.0	6.0	6.0	5.6	8.0	2.0
28	3.0	2.0	3.0	3.0	5.0	6.0	8.0	9.0	8.0	7.0	8.0	8.0	8.0	--	17.0	12.0	9.0	8.0	9.0	6.0	5.0	6.0	7.0	9.0	7.2	17.0	2.0
29	17.0	28.0	29.0	25.0	22.0	22.0	20.0	22.0	20.0	14.0	12.0	10.0	11.0	12.0	12.0	14.0	17.0	15.0	13.0	13.0	13.0	13.0	13.0	13.0	16.7	29.0	10.0
30	13.0	12.0	12.0	12.0	16.0	13.0	14.0	14.0	--	--	15.0	14.0	13.0	15.0	12.0	12.0	11.0	11.0	11.0	10.0	41.0	58.0	18.0	10.0	16.2	58.0	10.0
Avg	9.2	8.7	7.9	11.2	7.2	7.2	7.8	9.0	7.9	7.7	7.4	7.1	7.1	6.3	7.1	7.4	8.2	7.4	7.2	7.0	7.3	7.8	7.3	6.4	7.8	--	--
Max	58.0	45.0	29.0	124.0	24.0	22.0	20.0	30.0	20.0	30.0	28.0	25.0	19.0	15.0	31.0	19.0	36.0	20.0	29.0	14.0	41.0	58.0	31.0	13.0	--	124.0	--
Min	2.0	2.0	2.0	1.0	0.0	2.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	1.0	2.0	3.0	0.0	0.0	1.0	1.0	2.0	2.0	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m3_STP"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	14.2	13.0	13.0	17.3	53.0	39.9	112.9	34.7	17.5	20.9	32.0	28.7	34.3	32.2	31.1	22.2	21.1	14.4	14.3	13.2	35.0	8.7	10.8	18.4	27.2	112.9	8.7
2	17.3	18.3	14.0	12.9	11.8	12.8	35.3	21.6	22.9	18.6	40.6	39.6	17.6	17.7	41.0	15.5	15.5	22.1	14.3	15.4	36.1	12.0	84.8	27.2	24.4	84.8	11.8
3	28.1	10.8	10.8	11.9	18.3	20.4	34.4	41.2	20.8	13.2	11.0	7.7	3.3	17.8	26.8	6.7	7.8	6.7	17.7	17.6	14.3	18.6	16.3	17.4	16.7	41.2	3.3
4	18.4	5.4	6.5	7.6	9.8	13.0	42.2	14.2	9.9	8.9	12.2	10.1	5.6	3.4	5.6	6.8	5.6	5.6	19.0	18.9	39.8	18.7	14.3	20.9	13.4	42.2	3.4
5	24.1	11.0	18.6	10.9	19.6	20.7	67.2	31.8	22.1	20.0	27.8	15.6	--	33.7	50.5	13.5	24.7	22.4	33.5	19.9	23.1	27.4	36.1	23.0	26.0	67.2	10.9
6	29.5	31.6	22.8	15.2	16.3	15.1	146.7	20.7	11.0	13.3	16.6	13.4	14.5	13.4	19.0	21.3	215.2	24.6	59.0	50.0	15.5	28.6	19.7	42.7	36.5	215.2	11.0
7	27.3	15.3	15.3	22.9	14.1	59.6	22.8	19.7	24.3	18.9	18.9	20.1	16.8	76.4	63.0	19.1	24.7	20.2	31.3	27.9	24.5	17.7	18.8	23.2	26.8	76.4	14.1
8	54.0	27.5	19.8	13.2	14.3	27.4	39.4	26.5	22.2	36.8	70.7	232.6	332.6	334.4	359.0	477.7	268.0	185.2	241.1	144.6	206.9	57.2	22.3	8.5	134.2	477.7	8.5
9	11.7	14.9	12.8	95.8	169.3	20.2	8.5	34.9	143.0	153.1	111.9	55.8	39.9	36.8	27.1	26.0	23.9	18.4	14.1	12.9	11.9	10.8	8.6	11.8	44.8	169.3	8.5
10	12.8	9.6	11.6	11.6	8.4	8.4	7.4	6.4	10.7	17.1	9.7	6.5	4.3	9.7	8.7	1.1	2.2	3.3	4.3	6.5	4.3	5.3	9.6	9.6	7.9	17.1	1.1
11	9.6	8.5	9.6	10.7	8.5	10.6	18.0	10.7	10.9	9.8	9.8	12.1	12.1	23.2	12.2	12.2	10.0	8.9	39.8	13.2	18.6	16.4	7.6	12.0	13.1	39.8	7.6
12	15.2	23.9	13.0	16.3	11.9	30.3	36.8	28.4	12.1	10.0	11.1	14.5	12.3	22.4	49.2	16.8	13.4	20.1	24.5	33.1	15.4	26.3	21.8	14.2	20.5	49.2	10.0
13	13.1	12.0	15.2	13.0	12.0	42.3	108.4	--	--	--	--	--	--	--	--	--	--	--	59.4	24.5	86.6	18.8	14.3	14.3	--	--	--
14	15.4	14.2	14.2	13.1	12.0	21.8	28.3	17.6	21.0	44.5	25.7	34.7	45.0	42.9	43.0	21.5	23.8	26.0	48.3	72.5	64.4	53.1	45.1	39.5	32.8	72.5	12.0
15	24.1	22.9	17.5	17.5	21.7	16.3	48.9	19.7	14.3	13.3	18.9	27.9	31.4	29.2	39.5	50.9	20.4	23.7	28.0	27.9	53.3	49.7	27.5	13.2	27.4	53.3	13.2
16	13.1	14.2	14.1	10.8	17.3	10.9	19.5	15.3	13.2	9.9	13.3	25.6	22.4	29.2	59.6	90.9	22.4	24.6	23.4	70.6	53.8	28.4	45.7	27.1	28.1	90.9	9.9
17	15.1	20.5	15.1	18.2	15.0	16.0	20.3	87.5	48.0	96.5	38.7	41.0	49.7	27.1	43.5	18.5	28.4	18.5	23.8	11.9	11.8	12.8	12.8	10.6	29.2	96.5	10.6
18	10.7	12.8	11.7	17.0	12.7	8.4	5.3	6.4	10.6	9.6	20.4	3.2	3.2	7.6	6.5	0.0	3.3	4.4	4.3	30.3	14.0	37.6	31.1	20.3	12.1	37.6	0.0
19	8.5	18.1	19.1	17.0	30.9	138.0	107.0	33.3	12.9	14.0	15.2	10.9	9.9	9.9	19.9	7.8	5.6	2.2	24.3	31.7	21.8	21.7	19.5	14.0	25.6	138.0	2.2
20	25.9	7.5	22.6	7.5	6.5	6.5	33.3	5.4	9.9	8.8	21.1	26.7	13.4	14.5	15.7	13.5	13.5	13.4	31.2	14.4	21.0	50.5	29.6	33.9	18.6	50.5	5.4
21	55.6	32.7	12.0	10.9	8.7	9.8	13.1	17.5	16.6	18.9	14.5	14.6	14.6	24.8	10.1	12.4	14.6	20.3	16.8	35.7	51.0	36.4	18.7	29.6	21.2	55.6	8.7
22	29.5	18.6	14.2	14.2	14.2	41.5	21.9	73.8	25.6	19.0	11.2	23.7	15.8	38.4	34.0	24.9	19.3	15.9	16.9	20.2	15.6	16.7	26.6	23.2	23.9	73.8	11.2
23	24.3	12.1	13.2	12.1	9.8	21.9	48.2	53.1	7.8	--	36.9	28.0	15.7	79.9	34.9	33.9	30.5	32.7	33.7	22.3	33.3	41.0	41.9	70.5	32.1	79.9	7.8
24	25.3	20.9	25.3	19.8	20.9	30.7	31.8	25.3	23.3	29.0	23.6	21.4	46.2	41.8	47.5	35.1	31.6	24.8	27.0	36.9	26.8	30.0	40.0	38.7	30.2	47.5	19.8
25	26.5	24.2	20.9	51.6	13.2	59.0	89.6	23.2	10.0	20.1	31.4	109.4	80.0	55.6	82.4	18.9	67.8	54.2	27.5	16.4	27.3	21.7	34.7	19.5	41.1	109.4	10.0
26	23.8	21.6	21.6	15.1	15.1	20.4	32.3	31.5	24.1	22.0	35.4	43.3	33.4	31.3	28.0	22.4	19.1	23.5	21.2	24.4	21.0	28.6	41.7	20.8	25.9	43.3	15.1
27	29.5	69.9	38.2	99.2	22.9	22.9	27.3	23.1	23.3	19.0	20.2	30.4	23.7	24.9	19.3	18.2	19.3	20.4	29.3	39.3	25.6	18.9	24.5	25.5	29.8	99.2	18.2
28	18.8	12.1	12.1	11.0	13.2	18.7	166.1	8.9	11.2	13.6	10.2	8.0	33.1	19.5	24.1	19.5	13.8	16.0	35.3	87.1	15.8	14.6	25.7	22.3	26.3	166.1	8.0
29	13.4	22.2	37.7	11.1	12.2	106.1	85.4	95.6	22.6	25.0	19.4	19.5	65.4	118.4	50.7	18.4	18.5	15.0	17.2	13.7	18.1	30.5	20.3	28.1	36.8	118.4	11.1
30	26.8	23.4	28.9	23.3	34.3	23.3	52.2	23.6	16.9	23.8	17.1	29.7	67.6	52.8	62.1	44.9	32.2	27.5	24.0	28.4	31.6	63.9	40.2	26.7	34.4	67.6	16.9
Avg	22.1	19.0	17.4	21.0	21.6	29.8	50.4	29.4	22.0	26.0	25.7	32.9	38.0	43.8	45.3	37.6	35.0	24.7	33.5	32.7	34.6	27.4	27.0	23.5	29.9	--	--
Max	55.6	69.9	38.2	99.2	169.3	138.0	166.1	95.6	143.0	153.1	111.9	232.6	332.6	334.4	359.0	477.7	268.0	185.2	241.1	144.6	206.9	63.9	84.8	70.5	--	477.7	--
Min	8.5	5.4	6.5	7.5	6.5	6.5	5.3	5.4	7.8	8.8	9.7	3.2	3.2	3.4	5.6	0.0	2.2	2.2	4.3	6.5	4.3	5.3	7.6	8.5	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m3_STP"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22.2	19.9	26.5	16.5	24.2	13.1	52.4	119.6	15.6	33.6	26.9	18.0	31.5	49.7	56.6	32.8	24.9	30.5	40.5	48.1	21.1	23.4	30.0	18.9	33.2	119.6	13.1
2	67.6	199.2	182.9	538.3	488.8	516.1	392.2	348.7	169.9	139.8	63.7	136.6	41.0	41.2	65.0	20.2	13.5	12.4	12.3	22.3	115.9	154.1	143.4	147.3	168.0	538.3	12.3
3	181.7	270.3	212.1	192.1	172.1	148.8	191.7	187.9	177.8	191.9	138.5	112.6	110.9	103.8	101.0	88.8	86.5	72.0	80.8	82.7	75.8	76.8	73.3	66.6	133.2	270.3	66.6
4	64.3	63.1	67.6	59.8	69.6	72.9	87.3	83.1	84.6	81.8	77.8	71.4	82.1	74.1	79.0	80.1	90.5	68.6	69.4	63.3	49.5	110.8	90.2	54.3	74.8	110.8	49.5
5	48.7	34.2	22.0	43.8	25.2	26.3	44.9	29.9	30.0	30.1	24.7	28.1	33.9	26.0	29.4	30.6	27.2	29.4	40.5	41.4	50.0	65.3	57.2	36.2	35.6	65.3	22.0
6	29.6	19.6	11.9	13.0	9.7	8.6	7.6	8.7	10.9	11.0	13.2	21.0	16.7	26.7	18.9	8.9	10.1	11.2	12.3	16.7	18.8	15.4	15.3	14.2	14.6	29.6	7.6
7	10.9	8.7	4.3	5.4	9.7	11.9	18.4	10.9	8.8	7.7	6.6	4.4	21.2	8.9	11.2	15.7	24.6	17.8	21.1	29.8	24.2	26.2	20.7	16.3	14.4	29.8	4.3
8	19.5	20.6	16.2	11.8	16.1	21.4	19.3	13.0	14.1	26.1	25.2	20.9	42.0	24.4	23.3	18.8	16.6	19.9	20.9	18.7	9.9	18.6	21.8	17.4	19.8	42.0	9.9
9	41.3	20.6	11.9	11.9	21.6	80.7	47.5	18.5	18.6	26.4	12.2	39.9	65.5	52.4	26.8	17.9	19.0	30.1	37.8	18.8	17.7	16.5	34.0	20.8	29.5	80.7	11.9
10	19.8	19.7	14.2	14.1	55.4	14.1	30.5	27.5	23.3	21.1	42.4	100.5	40.4	30.4	29.3	42.8	11.2	12.4	21.3	13.4	12.2	18.8	25.4	6.6	26.9	100.5	6.6
11	8.8	8.8	9.9	9.9	8.8	9.9	8.8	12.1	12.1	7.7	10.0	23.4	9.0	10.1	9.0	12.4	19.2	18.0	10.1	12.3	11.1	4.4	4.4	7.7	10.7	23.4	4.4
12	6.6	6.6	7.7	7.7	8.8	11.0	23.1	29.7	13.3	13.3	13.4	12.3	13.5	12.5	7.9	8.0	9.1	13.7	12.5	7.9	28.1	65.9	14.5	12.3	15.0	65.9	6.6
13	11.2	16.7	10.0	10.0	11.1	11.1	47.7	24.5	17.9	28.1	22.6	22.7	20.5	41.1	29.7	9.2	18.3	29.7	21.7	20.5	26.1	40.6	31.5	24.7	22.8	47.7	9.2
14	16.8	17.9	11.2	11.1	13.3	16.6	16.7	15.6	33.6	36.1	21.5	60.2	27.4	43.5	43.7	50.5	27.6	17.2	36.7	23.9	26.1	24.8	45.0	26.9	27.7	60.2	11.1
15	44.7	26.7	15.5	37.6	24.3	30.8	37.6	19.0	41.5	30.4	23.8	57.9	47.9	75.4	45.8	34.4	40.1	21.7	35.4	115.8	33.9	30.4	36.9	34.7	39.3	115.8	15.5
16	36.7	15.5	18.8	14.4	13.2	44.1	24.4	23.5	11.2	20.3	28.4	18.3	29.7	42.4	29.9	40.3	26.5	25.3	35.5	21.6	19.2	25.9	25.8	14.5	25.2	44.1	11.2
17	10.0	21.1	16.6	27.6	120.2	24.2	29.8	23.4	7.9	11.3	14.7	18.1	46.6	50.1	104.9	19.4	25.0	20.4	39.5	20.2	19.0	24.5	14.5	24.5	30.6	120.2	7.9
18	27.7	34.2	11.0	9.9	9.9	44.9	46.2	17.7	18.9	17.8	13.4	21.4	48.3	132.1	51.9	39.6	49.9	30.5	32.6	34.7	21.2	23.3	29.8	24.3	33.0	132.1	9.9
19	35.2	16.5	--	--	--	124.4	146.9	27.7	28.8	43.5	22.4	98.9	22.5	27.1	147.5	36.3	31.8	47.6	81.4	94.6	23.5	47.0	39.1	16.7	55.2	147.5	16.5
20	70.0	18.8	26.5	7.7	17.6	145.7	198.2	31.2	16.8	46.1	125.0	68.9	38.5	81.6	160.0	313.5	92.0	63.5	42.9	20.2	14.5	12.2	16.7	18.8	68.6	313.5	7.7
21	17.7	8.8	11.1	11.1	11.1	9.9	10.0	53.7	10.1	9.0	9.1	9.1	12.5	51.3	19.4	17.1	12.6	12.6	31.9	12.5	12.4	19.1	12.3	16.7	16.7	53.7	8.8
22	17.8	11.1	13.3	37.8	7.8	40.8	126.7	20.2	19.2	13.6	18.2	84.6	20.7	28.8	33.5	52.1	32.4	27.8	38.0	37.8	34.2	46.5	57.4	55.0	36.5	126.7	7.8
23	72.8	40.3	83.5	16.6	18.8	91.7	132.1	36.0	25.9	23.8	44.4	20.5	38.9	27.5	46.0	38.0	48.5	46.1	32.1	38.7	43.0	66.4	38.1	34.5	46.0	132.1	16.6
24	24.4	20.0	15.5	13.3	12.2	47.3	166.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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31	--	--	--	--	--	--	--	--	--	74.5	58.9	67.2	35.4	84.7	36.8	37.9	28.8	28.7	19.5	26.2	28.4	28.3	75.6	46.2	--	--	--
Avg	37.8	39.1	35.7	48.8	50.8	65.3	79.4	51.4	35.2	39.4	35.7	47.4	37.4	47.7	50.3	44.4	32.7	29.5	34.5	35.1	30.7	41.1	39.7	31.5	42.5	--	--
Max	181.7	270.3	212.1	538.3	488.8	516.1	392.2	348.7	177.8	191.9	138.5	136.6	110.9	132.1	160.0	313.5	92.0	72.0	81.4	115.8	115.9	154.1	143.4	147.3	--	538.3	--
Min	6.6	6.6	4.3	5.4	7.8	8.6	7.6	8.7	7.9	7.7	6.6	4.4	9.0	8.9	7.9	8.0	9.1	11.2	10.1	7.9	9.9	4.4	4.4	6.6	--	--	4.3

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m3_STP"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	50.6	60.6	32.5	25.8	26.9	53.6	31.4	27.1	20.6	37.9	18.5	17.4	18.6	219.3	19.9	67.7	85.2	24.5	25.6	25.4	23.1	21.8	26.2	28.4	41.2	219.3	17.4
2	23.8	21.5	40.7	16.9	21.4	29.2	60.9	24.0	20.7	25.4	31.3	23.3	18.7	35.1	42.2	35.1	50.3	42.1	12.8	51.0	24.2	29.7	67.1	24.9	32.2	67.1	12.8
3	26.0	21.4	40.5	20.2	9.0	8.9	11.2	19.3	--	13.7	11.5	56.3	48.4	37.1	25.6	25.5	25.5	13.9	19.6	23.0	16.0	14.8	22.6	11.3	22.7	56.3	8.9
4	16.9	14.6	24.6	16.8	12.3	8.9	23.6	27.2	19.3	19.4	26.4	19.5	15.0	44.9	33.5	34.7	31.2	15.0	16.1	19.5	19.4	35.2	56.5	36.1	24.4	56.5	8.9
5	15.7	15.7	12.3	25.6	7.8	53.3	26.8	19.2	12.5	27.3	18.3	30.9	28.8	28.9	18.5	13.9	15.0	15.1	19.6	37.8	22.8	27.2	24.9	21.4	22.5	53.3	7.8
6	24.7	14.6	23.6	18.0	15.7	38.0	183.2	43.3	24.0	25.2	33.3	42.7	61.3	48.7	51.2	22.2	28.0	23.3	24.4	63.6	28.8	19.5	30.8	17.1	37.7	183.2	14.6
7	25.0	20.5	24.9	28.2	19.2	41.6	63.3	44.5	31.0	25.4	27.8	40.8	37.4	50.3	46.8	23.5	38.7	25.8	28.0	30.2	22.0	20.7	29.9	20.7	31.9	63.3	19.2
8	16.1	17.2	23.9	18.2	31.6	60.7	41.8	12.5	14.8	16.0	12.7	19.6	30.1	40.7	107.1	282.8	106.0	256.1	77.7	21.9	24.1	32.0	87.5	39.7	57.9	282.8	12.5
9	23.7	15.8	16.9	20.2	20.1	45.8	59.3	21.5	13.6	18.3	16.0	41.3	18.4	24.3	15.1	15.1	33.7	12.8	18.5	23.0	19.5	20.6	26.2	85.1	26.0	85.1	12.8
10	27.2	5.7	38.3	12.4	12.3	21.2	147.3	46.6	18.3	81.5	66.9	69.4	80.0	38.4	57.0	101.5	22.2	19.8	20.9	16.2	13.8	22.8	28.4	34.0	41.7	147.3	5.7
11	24.8	14.7	65.4	12.4	11.2	27.0	24.8	35.4	24.1	28.8	27.7	48.7	38.3	60.4	45.4	22.1	19.8	25.6	30.1	41.4	19.5	20.6	29.6	12.5	29.6	65.4	11.2
12	27.2	18.1	9.1	19.2	9.0	41.7	110.5	92.1	18.4	51.8	39.2	57.9	60.3	29.1	41.9	21.0	32.7	31.5	34.9	31.2	73.5	28.6	22.9	41.2	39.3	110.5	9.0
13	19.4	48.7	13.6	27.1	25.9	26.9	72.9	24.9	44.1	26.2	34.3	28.7	61.1	70.6	108.6	46.1	84.6	55.6	45.0	39.0	40.1	30.9	31.9	38.5	43.5	108.6	13.6
14	26.0	31.7	34.9	33.7	32.5	45.8	55.1	49.7	34.0	35.3	34.3	20.7	36.8	60.0	32.4	41.8	25.5	23.2	46.3	49.4	60.7	43.3	50.0	22.7	38.6	60.7	20.7
15	21.5	26.0	24.8	31.5	22.5	40.4	27.0	21.6	30.8	33.2	31.0	34.6	78.6	44.0	114.8	121.1	52.3	47.5	59.0	28.8	32.0	15.9	15.9	21.5	40.7	121.1	15.9
16	18.1	13.6	14.7	14.6	15.7	19.1	19.2	19.3	17.1	19.5	21.8	34.6	76.2	97.3	70.7	128.9	52.2	34.8	35.8	19.5	12.6	18.3	10.2	13.6	33.2	128.9	10.2
17	15.8	13.5	28.1	20.2	28.0	36.9	58.3	43.2	17.1	38.9	49.3	52.9	25.4	77.5	56.7	74.1	16.3	74.2	26.6	20.7	16.0	16.0	30.8	40.7	36.6	77.5	13.5
18	48.6	20.2	13.5	23.5	21.2	14.5	--	--	--	--	--	--	--	--	--	--	121.3	-5.8	4.6	23.1	28.7	39.9	53.5	19.3	--	--	--
19	39.5	14.7	13.5	13.5	20.2	19.0	118.1	21.6	19.4	41.3	15.0	42.8	40.7	89.5	91.9	15.1	12.8	33.7	32.5	23.1	40.2	13.7	18.2	22.6	33.9	118.1	12.8
20	15.8	22.5	12.4	17.9	19.0	13.4	136.7	27.2	43.2	30.9	4.6	31.1	35.8	88.0	46.4	45.4	223.3	29.0	25.5	17.3	22.9	21.6	23.8	35.0	41.2	223.3	4.6
21	83.3	16.9	22.5	15.7	14.6	30.2	97.7	22.7	18.2	14.9	20.6	20.7	46.1	43.8	18.5	55.7	33.7	40.7	15.1	18.4	34.3	21.6	19.3	23.7	31.2	97.7	14.6
22	25.9	33.7	19.1	15.7	14.6	56.8	79.5	9.0	7.9	8.0	8.0	6.9	5.8	119.2	18.6	76.6	31.3	26.7	26.6	23.0	18.3	17.1	27.2	22.6	29.1	119.2	5.8
23	13.5	19.1	13.5	10.1	9.0	38.0	20.3	13.6	10.2	6.9	9.2	12.7	23.2	8.1	11.6	58.2	182.9	13.9	15.1	28.7	41.2	28.5	29.5	36.2	27.2	182.9	6.9
24	29.3	16.9	12.3	8.9	6.7	84.8	69.5	10.2	10.2	36.5	36.7	78.1	23.1	41.7	68.4	222.3	409.8	104.1	25.4	30.9	12.5	44.2	30.5	23.6	59.9	409.8	6.7
25	23.6	14.6	21.2	16.8	17.8	70.9	101.2	29.2	15.8	--	16.0	28.6	25.3	33.3	25.3	59.9	10.4	13.8	13.8	11.4	20.5	14.8	14.7	13.5	26.6	101.2	10.4
26	20.2	17.9	10.1	12.2	22.2	42.1	44.5	13.5	10.2	23.8	27.3	17.1	83.7	20.7	31.2	17.3	35.8	28.8	25.3	16.0	14.8	57.7	16.9	18.0	26.1	83.7	10.1
27	16.9	7.9	11.2	13.4	20.1	16.7	60.3	20.4	19.2	31.8	42.2	45.9	74.8	--	103.1	204.1	206.8	73.1	27.8	39.1	16.0	18.2	22.8	25.0	48.6	206.8	7.9
28	11.3	11.3	12.5	37.2	10.1	13.5	72.2	40.0	31.0	19.6	38.3	25.5	24.5	21.1	29.3	30.6	17.7	17.6	18.8	22.2	19.7	25.4	17.3	21.9	24.5	72.2	10.1
29	75.5	88.2	83.3	77.4	76.1	70.3	83.0	63.7	81.3	46.7	44.5	40.0	36.6	53.2	66.2	62.7	44.9	47.1	52.9	45.6	39.7	45.3	82.2	40.4	60.3	88.2	36.6
30	41.6	44.0	63.3	57.5	51.5	46.9	58.4	43.8	47.6	45.4	43.2	50.3	66.9	95.3	294.7	126.0	84.7	79.9	42.2	65.3	29.1	71.7	69.5	32.9	68.8	294.7	29.1
Avg	28.3	23.4	25.9	22.7	20.8	37.2	67.5	30.6	24.1	29.6	27.8	35.8	42.0	57.9	58.4	70.7	71.2	41.4	28.9	30.2	26.9	27.9	33.9	28.1	37.1	--	--
Max	83.3	88.2	83.3	77.4	76.1	84.8	183.2	92.1	81.3	81.5	66.9	78.1	83.7	219.3	294.7	282.8	409.8	256.1	77.7	65.3	73.5	71.7	87.5	85.1	--	409.8	--
Min	11.3	5.7	9.1	8.9	6.7	8.9	11.2	9.0	7.9	6.9	4.6	6.9	5.8	8.1	11.6	13.9	10.4	-5.8	4.6	11.4	12.5	13.7	10.2	11.3	--	--	-5.8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126_West_Plant_µg/m^3_ACT_PM$_{2.5}$"

Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	-2.0	1.0	4.0	3.0	6.0	10.0	8.0	2.0	0.0	2.0	1.0	1.0	0.0	0.0	1.9	10.0	-2.0
2	-1.0	-3.0	1.0	0.0	-3.0	0.0	3.0	3.0	1.0	-2.0	0.0	1.0	0.0	-1.0	1.0	0.0	-1.0	0.0	1.0	-1.0	-2.0	0.0	3.0	1.0	0.0	3.0	-3.0
3	1.0	0.0	-3.0	-1.0	1.0	4.0	3.0	0.0	-2.0	-3.0	-4.0	-3.0	-1.0	-3.0	-5.0	-3.0	-1.0	-1.0	0.0	1.0	1.0	1.0	1.0	1.0	-0.7	4.0	-5.0
4	-1.0	-2.0	2.0	0.0	-2.0	0.0	2.0	2.0	1.0	1.0	0.0	-1.0	0.0	-2.0	-5.0	-6.0	-1.0	0.0	-2.0	0.0	0.0	0.0	1.0	2.0	-0.5	2.0	-6.0
5	2.0	1.0	2.0	3.0	3.0	2.0	1.0	1.0	1.0	2.0	3.0	2.0	2.0	0.0	-4.0	-4.0	1.0	4.0	4.0	3.0	3.0	5.0	5.0	4.0	1.9	5.0	-4.0
6	1.0	0.0	3.0	3.0	0.0	-1.0	1.0	3.0	0.0	-1.0	3.0	3.0	1.0	2.0	3.0	2.0	4.0	5.0	4.0	5.0	5.0	6.0	7.0	6.0	2.7	7.0	-1.0
7	4.0	0.0	-2.0	-1.0	2.0	3.0	2.0	1.0	1.0	3.0	4.0	3.0	2.0	1.0	3.0	4.0	3.0	3.0	2.0	1.0	3.0	3.0	3.0	3.0	2.1	4.0	-2.0
8	2.0	3.0	5.0	4.0	1.0	2.0	4.0	0.0	-1.0	3.0	5.0	8.0	23.0	28.0	30.0	44.0	27.0	19.0	26.0	21.0	29.0	19.0	13.0	7.0	13.4	44.0	-1.0
9	0.0	2.0	5.0	21.0	28.0	6.0	6.0	8.0	28.0	27.0	21.0	7.0	4.0	1.0	2.0	2.0	0.0	2.0	1.0	0.0	3.0	24.0	0.0	0.0	8.3	28.0	0.0
10	-1.0	0.0	3.0	4.0	4.0	3.0	2.0	1.0	-1.0	-2.0	0.0	3.0	2.0	2.0	0.0	0.0	1.0	-1.0	0.0	2.0	2.0	2.0	-1.0	0.0	1.0	4.0	-2.0
11	4.0	1.0	0.0	0.0	3.0	4.0	0.0	-2.0	-2.0	-3.0	-3.0	-3.0	-2.0	0.0	1.0	0.0	1.0	0.0	0.0	3.0	1.0	1.0	3.0	3.0	0.4	4.0	-3.0
12	2.0	3.0	1.0	-1.0	0.0	-1.0	1.0	5.0	0.0	-3.0	-1.0	-1.0	1.0	1.0	1.0	2.0	1.0	0.0	0.0	2.0	5.0	4.0	0.0	-1.0	0.9	5.0	-3.0
13	1.0	2.0	3.0	3.0	1.0	2.0	4.0	--	--	--	--	--	--	--	--	--	--	--	-5.0	-7.0	-4.0	-3.0	-5.0	-2.0	--	--	--
14	-2.0	-1.0	2.0	0.0	3.0	5.0	1.0	0.0	2.0	2.0	5.0	4.0	0.0	4.0	3.0	-3.0	1.0	6.0	5.0	6.0	8.0	7.0	5.0	5.0	2.8	8.0	-3.0
15	6.0	4.0	2.0	3.0	2.0	4.0	4.0	1.0	1.0	1.0	2.0	3.0	2.0	1.0	0.0	0.0	0.0	3.0	4.0	3.0	7.0	9.0	5.0	2.0	2.9	9.0	0.0
16	2.0	4.0	5.0	2.0	1.0	2.0	4.0	4.0	0.0	2.0	3.0	-1.0	0.0	1.0	3.0	5.0	3.0	1.0	2.0	6.0	7.0	5.0	5.0	6.0	3.0	7.0	-1.0
17	6.0	3.0	2.0	4.0	2.0	-1.0	1.0	6.0	8.0	7.0	4.0	2.0	3.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	-2.0	0.0	2.0	2.4	8.0	-2.0
18	1.0	2.0	3.0	1.0	42.0	-2.0	0.0	2.0	1.0	-1.0	-1.0	-1.0	-1.0	-3.0	-3.0	-1.0	1.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	2.7	42.0	-3.0
19	4.0	5.0	6.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	-1.0	-3.0	-1.0	-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	1.0	6.0	5.0	5.0	2.0	4.0	8.0	8.0	7.0	7.0	8.0	9.0	7.0	6.0	--	--	--
24	9.0	9.0	6.0	5.0	7.0	8.0	8.0	8.0	7.0	6.0	5.0	4.0	6.0	6.0	7.0	7.0	5.0	5.0	8.0	8.0	6.0	6.0	6.0	8.0	6.7	9.0	4.0
25	8.0	6.0	5.0	5.0	5.0	5.0	8.0	5.0	0.0	3.0	6.0	7.0	9.0	8.0	7.0	3.0	3.0	5.0	6.0	6.0	7.0	8.0	5.0	6.0	5.7	9.0	0.0
26	6.0	5.0	3.0	2.0	4.0	9.0	8.0	6.0	6.0	4.0	5.0	6.0	8.0	7.0	5.0	5.0	3.0	0.0	4.0	7.0	6.0	8.0	7.0	4.0	5.3	9.0	0.0
27	6.0	8.0	10.0	19.0	5.0	6.0	6.0	6.0	5.0	3.0	4.0	7.0	6.0	2.0	4.0	5.0	6.0	5.0	6.0	8.0	9.0	8.0	6.0	8.0	6.6	19.0	2.0
28	7.0	5.0	6.0	4.0	5.0	5.0	7.0	7.0	3.0	4.0	6.0	5.0	5.0	4.0	2.0	5.0	5.0	5.0	5.0	7.0	9.0	6.0	7.0	9.0	5.5	9.0	2.0
29	8.0	8.0	6.0	5.0	4.0	6.0	9.0	9.0	8.0	6.0	6.0	6.0	6.0	8.0	7.0	5.0	6.0	6.0	7.0	6.0	7.0	7.0	6.0	6.0	6.6	9.0	4.0
30	7.0	7.0	5.0	5.0	7.0	6.0	4.0	6.0	6.0	3.0	2.0	6.0	8.0	8.0	9.0	7.0	7.0	8.0	8.0	9.0	8.0	9.0	9.0	9.0	6.8	9.0	2.0
Avg	3.3	2.8	3.1	3.7	5.0	3.2	3.6	3.4	3.1	2.6	2.8	2.7	3.5	3.3	3.3	3.8	3.7	3.6	3.7	4.1	5.1	5.6	4.0	3.8	3.7	--	--
Max	9.0	9.0	10.0	21.0	42.0	9.0	9.0	9.0	28.0	27.0	21.0	8.0	23.0	28.0	30.0	44.0	27.0	19.0	26.0	21.0	29.0	24.0	13.0	9.0	--	44.0	--
Min	-2.0	-3.0	-3.0	-1.0	-3.0	-2.0	0.0	-2.0	-2.0	-3.0	-4.0	-3.0	-2.0	-3.0	-5.0	-6.0	-1.0	-1.0	-5.0	-7.0	-4.0	-3.0	-5.0	-2.0	--	--	-7.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126_West_Plant_µg/m^3_ACT_$PM_{2.5}$"

Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	9.0	8.0	8.0	6.0	7.0	8.0	9.0	10.0	8.0	6.0	6.0	6.0	7.0	10.0	8.0	8.0	8.0	6.0	9.0	12.0	11.0	10.0	9.0	7.0	8.2	12.0	6.0
2	6.0	23.0	17.0	32.0	21.0	25.0	19.0	18.0	10.0	10.0	8.0	5.0	5.0	6.0	4.0	2.0	2.0	3.0	4.0	4.0	20.0	22.0	17.0	16.0	12.5	32.0	2.0
3	24.0	36.0	26.0	24.0	21.0	17.0	18.0	25.0	19.0	25.0	19.0	15.0	18.0	18.0	15.0	15.0	15.0	12.0	12.0	13.0	14.0	13.0	12.0	12.0	18.2	36.0	12.0
4	15.0	13.0	11.0	11.0	13.0	17.0	15.0	17.0	14.0	14.0	14.0	18.0	11.0	19.0	15.0	14.0	14.0	17.0	14.0	11.0	10.0	23.0	18.0	15.0	14.7	23.0	10.0
5	21.0	13.0	13.0	13.0	12.0	9.0	8.0	8.0	7.0	6.0	8.0	10.0	9.0	9.0	10.0	9.0	9.0	8.0	5.0	7.0	16.0	18.0	8.0	8.0	10.2	21.0	5.0
6	8.0	9.0	8.0	5.0	15.0	3.0	5.0	7.0	7.0	4.0	4.0	8.0	8.0	5.0	6.0	4.0	2.0	2.0	2.0	2.0	0.0	-1.0	0.0	1.0	4.8	15.0	-1.0
7	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	5.0	5.0	3.0	1.0	3.0	5.0	3.0	5.0	6.0	7.0	6.0	5.0	6.0	7.0	6.0	3.7	7.0	1.0
8	7.0	7.0	8.0	9.0	8.0	9.0	8.0	6.0	6.0	5.0	4.0	5.0	3.0	4.0	4.0	4.0	3.0	1.0	3.0	5.0	4.0	5.0	6.0	6.0	5.4	9.0	1.0
9	5.0	6.0	8.0	9.0	8.0	7.0	7.0	4.0	1.0	3.0	4.0	5.0	7.0	7.0	5.0	4.0	9.0	9.0	7.0	9.0	6.0	6.0	5.0	6.0	6.1	9.0	1.0
10	6.0	5.0	6.0	8.0	9.0	31.0	5.0	5.0	20.0	36.0	16.0	26.0	6.0	8.0	8.0	7.0	6.0	3.0	4.0	6.0	6.0	6.0	4.0	4.0	10.0	36.0	3.0
11	6.0	6.0	6.0	5.0	6.0	3.0	0.0	0.0	-2.0	-1.0	3.0	3.0	3.0	3.0	3.0	5.0	6.0	5.0	3.0	2.0	4.0	2.0	1.0	3.0	3.1	6.0	-2.0
12	4.0	3.0	4.0	7.0	5.0	4.0	6.0	6.0	5.0	5.0	5.0	5.0	2.0	2.0	3.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	7.0	6.0	5.0	9.0	2.0
13	6.0	5.0	5.0	5.0	5.0	6.0	5.0	4.0	5.0	7.0	7.0	5.0	6.0	6.0	6.0	10.0	18.0	19.0	21.0	21.0	23.0	27.0	26.0	14.0	10.9	27.0	4.0
14	11.0	5.0	4.0	4.0	4.0	4.0	5.0	7.0	9.0	10.0	23.0	11.0	7.0	5.0	7.0	9.0	9.0	4.0	6.0	7.0	7.0	8.0	6.0	6.0	7.4	23.0	4.0
15	5.0	16.0	9.0	8.0	7.0	8.0	7.0	6.0	6.0	7.0	9.0	31.0	29.0	16.0	7.0	7.0	6.0	8.0	8.0	6.0	5.0	6.0	10.0	10.0	9.9	31.0	5.0
16	9.0	8.0	7.0	5.0	4.0	4.0	3.0	6.0	6.0	4.0	5.0	6.0	8.0	6.0	3.0	4.0	4.0	5.0	6.0	4.0	5.0	5.0	4.0	5.0	5.3	9.0	3.0
17	3.0	1.0	4.0	3.0	6.0	7.0	6.0	4.0	2.0	3.0	1.0	4.0	7.0	6.0	5.0	6.0	5.0	6.0	7.0	7.0	6.0	6.0	6.0	4.0	4.8	7.0	1.0
18	6.0	8.0	9.0	6.0	5.0	5.0	7.0	6.0	8.0	11.0	7.0	6.0	8.0	9.0	10.0	7.0	8.0	6.0	7.0	10.0	6.0	7.0	9.0	7.0	7.4	11.0	5.0
19	6.0	6.0	--	--	--	9.0	12.0	9.0	4.0	6.0	7.0	8.0	6.0	3.0	6.0	8.0	6.0	6.0	9.0	9.0	6.0	7.0	8.0	8.0	7.1	12.0	3.0
20	4.0	3.0	4.0	5.0	6.0	10.0	13.0	11.0	7.0	5.0	5.0	10.0	10.0	6.0	7.0	7.0	8.0	5.0	2.0	3.0	4.0	5.0	4.0	5.0	6.2	13.0	2.0
21	6.0	6.0	5.0	3.0	3.0	4.0	2.0	2.0	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	4.0	4.0	4.0	5.0	5.0	4.0	4.0	5.0	3.7	6.0	1.0
22	3.0	1.0	0.0	3.0	4.0	2.0	5.0	6.0	2.0	1.0	4.0	6.0	6.0	9.0	10.0	7.0	9.0	10.0	9.0	10.0	10.0	12.0	13.0	16.0	6.6	16.0	0.0
23	13.0	13.0	12.0	9.0	9.0	16.0	15.0	11.0	10.0	10.0	8.0	7.0	9.0	11.0	8.0	7.0	9.0	8.0	6.0	6.0	7.0	10.0	9.0	8.0	9.6	16.0	6.0
24	10.0	8.0	6.0	7.0	7.0	8.0	10.0	11.0	11.0	12.0	12.0	10.0	10.0	9.0	8.0	7.0	5.0	2.0	2.0	4.0	4.0	8.0	8.0	6.0	7.7	12.0	2.0
25	6.0	4.0	4.0	5.0	9.0	9.0	6.0	5.0	4.0	3.0	5.0	6.0	5.0	5.0	5.0	7.0	8.0	6.0	5.0	6.0	9.0	9.0	6.0	6.0	6.0	9.0	3.0
26	9.0	11.0	6.0	5.0	8.0	9.0	11.0	9.0	4.0	6.0	9.0	8.0	5.0	23.0	7.0	7.0	4.0	3.0	4.0	4.0	7.0	7.0	7.0	6.0	7.5	23.0	3.0
27	4.0	6.0	6.0	4.0	6.0	7.0	5.0	3.0	5.0	6.0	2.0	3.0	5.0	4.0	5.0	5.0	4.0	4.0	8.0	8.0	6.0	10.0	10.0	11.0	5.7	11.0	2.0
28	11.0	8.0	9.0	6.0	5.0	10.0	10.0	11.0	11.0	9.0	9.0	10.0	8.0	7.0	9.0	6.0	5.0	8.0	9.0	6.0	5.0	6.0	6.0	6.0	7.9	11.0	5.0
29	6.0	5.0	5.0	5.0	5.0	6.0	6.0	4.0	17.0	8.0	6.0	5.0	7.0	8.0	10.0	9.0	25.0	18.0	12.0	12.0	9.0	9.0	10.0	11.0	9.1	25.0	4.0
30	10.0	8.0	12.0	13.0	11.0	11.0	9.0	7.0	8.0	8.0	8.0	11.0	8.0	6.0	6.0	7.0	8.0	8.0	9.0	9.0	9.0	11.0	13.0	11.0	9.2	13.0	6.0
31	9.0	10.0	10.0	9.0	9.0	21.0	8.0	8.0	--	56.0	45.0	14.0	12.0	55.0	29.0	21.0	9.0	11.0	12.0	9.0	11.0	12.0	13.0	13.0	17.7	56.0	8.0
Avg	8.0	8.5	7.8	7.9	8.0	9.4	8.0	7.7	7.4	9.5	8.8	8.8	7.7	9.4	7.6	7.1	7.6	7.0	7.2	7.4	8.0	9.3	8.6	8.0	8.1	--	--
Max	24.0	36.0	26.0	32.0	21.0	31.0	19.0	25.0	20.0	56.0	45.0	31.0	29.0	55.0	29.0	21.0	25.0	19.0	21.0	21.0	23.0	27.0	26.0	16.0	--	56.0	--
Min	1.0	1.0	0.0	2.0	2.0	2.0	0.0	0.0	-2.0	-1.0	1.0	3.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	2.0	0.0	-1.0	0.0	1.0	--	--	-2.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126_West_Plant_µg/m^3_ACT_$PM_{2.5}$"

Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.0	15.0	17.0	32.0	10.0	8.0	6.0	8.0	7.0	6.0	5.0	2.0	2.0	8.0	9.0	25.0	63.0	7.0	20.0	20.0	8.0	7.0	7.0	8.0	13.2	63.0	2.0
2	8.0	7.0	6.0	7.0	9.0	9.0	9.0	10.0	9.0	7.0	6.0	6.0	7.0	7.0	5.0	5.0	4.0	5.0	5.0	5.0	7.0	7.0	5.0	6.0	6.7	10.0	4.0
3	8.0	7.0	9.0	10.0	6.0	6.0	7.0	6.0	2.0	3.0	5.0	4.0	6.0	6.0	5.0	4.0	3.0	4.0	3.0	3.0	3.0	2.0	4.0	4.0	5.0	10.0	2.0
4	3.0	2.0	4.0	5.0	3.0	3.0	2.0	3.0	3.0	4.0	2.0	1.0	3.0	7.0	6.0	3.0	3.0	5.0	3.0	3.0	4.0	5.0	9.0	10.0	4.0	10.0	1.0
5	6.0	4.0	3.0	3.0	1.0	2.0	3.0	1.0	-1.0	1.0	2.0	4.0	7.0	6.0	4.0	2.0	2.0	5.0	4.0	4.0	5.0	5.0	6.0	7.0	3.6	7.0	-1.0
6	6.0	5.0	6.0	5.0	4.0	6.0	10.0	10.0	4.0	2.0	3.0	5.0	6.0	3.0	4.0	5.0	8.0	10.0	8.0	8.0	10.0	6.0	6.0	8.0	6.2	10.0	2.0
7	6.0	6.0	8.0	8.0	6.0	7.0	9.0	9.0	--	6.0	6.0	9.0	7.0	6.0	7.0	6.0	7.0	7.0	7.0	9.0	9.0	7.0	7.0	7.0	7.2	9.0	6.0
8	6.0	7.0	8.0	6.0	6.0	8.0	7.0	7.0	6.0	4.0	5.0	4.0	2.0	6.0	9.0	15.0	10.0	12.0	14.0	10.0	7.0	9.0	9.0	7.0	7.7	15.0	2.0
9	7.0	7.0	6.0	5.0	4.0	9.0	9.0	5.0	4.0	4.0	5.0	4.0	1.0	0.0	2.0	4.0	5.0	4.0	2.0	2.0	5.0	6.0	5.0	7.0	4.7	9.0	0.0
10	6.0	0.0	3.0	6.0	7.0	6.0	8.0	12.0	9.0	6.0	3.0	4.0	9.0	11.0	8.0	7.0	8.0	8.0	44.0	7.0	8.0	8.0	5.0	5.0	8.3	44.0	0.0
11	6.0	4.0	6.0	6.0	2.0	4.0	2.0	1.0	2.0	2.0	4.0	4.0	5.0	8.0	6.0	5.0	6.0	7.0	7.0	9.0	6.0	4.0	6.0	5.0	4.9	9.0	1.0
12	4.0	5.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	9.0	8.0	8.0	8.0	7.0	4.0	3.0	7.0	9.0	7.0	9.0	10.0	8.0	7.0	7.0	10.0	3.0
13	8.0	9.0	8.0	10.0	9.0	7.0	12.0	12.0	9.0	7.0	8.0	5.0	5.0	8.0	17.0	13.0	16.0	11.0	11.0	11.0	13.0	13.0	12.0	12.0	10.3	17.0	5.0
14	15.0	11.0	10.0	9.0	11.0	11.0	10.0	9.0	8.0	7.0	9.0	10.0	9.0	9.0	8.0	7.0	5.0	7.0	10.0	16.0	14.0	12.0	11.0	9.0	9.9	16.0	5.0
15	6.0	6.0	8.0	9.0	8.0	11.0	11.0	9.0	7.0	7.0	12.0	14.0	12.0	10.0	10.0	10.0	11.0	12.0	12.0	10.0	10.0	9.0	9.0	8.0	9.6	14.0	6.0
16	9.0	8.0	7.0	6.0	6.0	7.0	6.0	16.0	34.0	10.0	9.0	10.0	10.0	12.0	14.0	12.0	9.0	6.0	6.0	8.0	7.0	6.0	8.0	7.0	9.7	34.0	6.0
17	37.0	4.0	5.0	8.0	4.0	2.0	6.0	7.0	6.0	3.0	5.0	7.0	7.0	6.0	5.0	5.0	4.0	5.0	8.0	8.0	8.0	7.0	9.0	9.0	7.3	37.0	2.0
18	8.0	8.0	7.0	7.0	6.0	4.0	7.0	6.0	6.0	6.0	8.0	8.0	6.0	9.0	12.0	8.0	5.0	7.0	5.0	6.0	7.0	6.0	9.0	10.0	7.1	12.0	4.0
19	6.0	5.0	5.0	5.0	6.0	5.0	8.0	8.0	6.0	25.0	25.0	8.0	5.0	6.0	8.0	6.0	46.0	22.0	8.0	8.0	6.0	5.0	7.0	6.0	10.2	46.0	5.0
20	5.0	4.0	5.0	5.0	7.0	6.0	7.0	8.0	--	--	1.0	-2.0	-2.0	1.0	-6.0	0.0	17.0	2.0	4.0	7.0	9.0	9.0	-15.0	4.0	3.5	17.0	-15.0
21	6.0	6.0	5.0	4.0	2.0	3.0	5.0	4.0	5.0	8.0	6.0	2.0	1.0	3.0	2.0	0.0	1.0	4.0	4.0	3.0	2.0	2.0	4.0	5.0	3.6	8.0	0.0
22	4.0	5.0	5.0	4.0	3.0	3.0	6.0	3.0	2.0	2.0	0.0	0.0	0.0	3.0	4.0	2.0	3.0	4.0	7.0	5.0	3.0	4.0	4.0	6.0	3.4	7.0	0.0
23	6.0	5.0	5.0	3.0	2.0	5.0	6.0	6.0	3.0	-1.0	0.0	1.0	1.0	1.0	3.0	3.0	6.0	7.0	4.0	5.0	7.0	8.0	7.0	6.0	4.1	8.0	-1.0
24	6.0	4.0	4.0	4.0	4.0	6.0	6.0	3.0	1.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0	8.0	9.0	5.0	8.0	9.0	8.0	7.0	4.0	5.0	9.0	1.0
25	6.0	6.0	4.0	5.0	4.0	6.0	9.0	6.0	0.0	1.0	3.0	3.0	2.0	0.0	4.0	7.0	4.0	2.0	1.0	2.0	6.0	6.0	6.0	4.0	4.0	9.0	0.0
26	3.0	2.0	2.0	4.0	6.0	6.0	5.0	4.0	2.0	3.0	5.0	1.0	0.0	2.0	1.0	0.0	0.0	2.0	4.0	3.0	3.0	2.0	1.0	3.0	2.7	6.0	0.0
27	2.0	0.0	0.0	1.0	2.0	3.0	4.0	6.0	5.0	8.0	11.0	7.0	7.0	--	10.0	12.0	11.0	9.0	7.0	8.0	8.0	6.0	4.0	5.0	5.9	12.0	0.0
28	6.0	5.0	3.0	4.0	5.0	4.0	6.0	8.0	6.0	5.0	3.0	2.0	5.0	6.0	5.0	8.0	6.0	4.0	7.0	9.0	8.0	9.0	11.0	8.0	6.0	11.0	2.0
29	25.0	28.0	29.0	31.0	23.0	24.0	20.0	14.0	18.0	13.0	13.0	9.0	10.0	11.0	11.0	13.0	13.0	13.0	13.0	12.0	16.0	10.0	15.0	13.0	16.5	31.0	9.0
30	13.0	11.0	10.0	12.0	12.0	15.0	11.0	12.0	13.0	11.0	11.0	12.0	12.0	12.0	18.0	15.0	14.0	15.0	11.0	10.0	12.0	14.0	17.0	10.0	12.6	18.0	10.0
Avg	8.4	6.5	6.8	7.7	6.1	6.7	7.4	7.4	6.6	5.9	6.2	5.2	5.2	6.2	6.7	7.0	10.0	7.4	8.4	7.5	7.6	7.1	6.8	7.0	7.0	--	--
Max	37.0	28.0	29.0	32.0	23.0	24.0	20.0	16.0	34.0	25.0	25.0	14.0	12.0	12.0	18.0	25.0	63.0	22.0	44.0	20.0	16.0	14.0	17.0	13.0	--	63.0	--
Min	2.0	0.0	0.0	1.0	1.0	2.0	2.0	1.0	-1.0	-1.0	0.0	-2.0	-2.0	0.0	-6.0	0.0	0.0	2.0	1.0	2.0	2.0	2.0	-15.0	3.0	--	--	-15.0

-- Indicates Invalid Data

Appendix E: NO_2, SO_2, O_3 Data – East Plant – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-2.0	--	-2.8	-2.6	-2.4	-2.0	-2.0	0.9	1.4	-2.4	-2.5	-2.6	-2.9	-2.6	-2.9	-2.8	-3.1	-3.4	-3.2	-3.0	-2.6	-2.3	-2.0	-1.8	-2.2	1.4	-3.4
2	-2.0	--	-2.3	-2.8	-2.9	-2.9	-2.5	-1.0	-1.9	-2.4	-2.8	-3.1	-3.1	-3.0	-2.8	-2.0	-1.7	-2.1	-2.3	-2.8	-2.9	-3.3	-3.2	-3.3	-2.6	-1.0	-3.3
3	-3.2	--	-2.3	-2.1	-0.5	-1.5	-2.4	-2.2	-2.5	-1.9	-2.3	-2.5	-2.6	-1.0	-3.1	0.6	-2.3	-2.9	-2.3	-2.1	-2.1	-1.8	-1.6	-1.6	-2.0	0.6	-3.2
4	-1.0	--	-1.9	-1.7	-1.6	-1.4	-0.2	-0.9	-1.4	-1.9	-0.7	-2.6	-2.7	-2.7	-2.9	-3.1	-3.1	-3.1	-3.2	-3.2	-3.1	-2.3	-2.9	-2.8	-2.2	-0.2	-3.2
5	-2.2	--	-2.8	-2.7	-2.2	-1.7	-1.6	-0.1	-1.3	-2.3	-1.9	-2.7	-2.6	-2.8	-2.8	-3.1	-3.1	-3.0	-3.3	-3.1	-2.9	-2.9	-2.7	-2.7	-2.5	-0.1	-3.3
6	-2.3	--	-3.2	-3.1	-3.3	-3.2	-3.1	-2.4	-2.7	-2.8	-2.9	-2.9	-2.9	-3.1	-3.1	-3.1	-3.0	-3.1	-3.2	-3.1	-2.5	-2.6	-2.6	-2.5	-2.9	-2.3	-3.3
7	-2.7	--	-2.1	-2.6	-2.7	-2.2	-1.9	-1.5	-0.9	-1.8	-2.4	-2.6	-2.8	-2.8	-3.1	-3.0	-3.1	-3.1	-2.8	-0.7	-1.7	-1.7	-1.7	-0.4	-2.2	-0.4	-3.1
8	-2.2	--	-3.2	-3.4	-3.5	-3.5	-3.1	-3.0	-2.6	-2.6	-3.0	-3.0	-3.1	-3.1	-3.2	-3.2	-3.3	-3.4	-3.3	-3.5	-3.3	-2.7	-2.6	-3.1	-3.1	-2.2	-3.5
9	-2.6	--	-3.1	-3.0	-2.8	-2.7	-2.6	-2.6	-2.4	-2.4	-2.0	-1.9	-2.2	-2.5	-2.5	-2.7	-2.8	-2.5	-2.6	-2.9	-3.2	-3.1	-2.5	-2.8	-2.6	-1.9	-3.2
10	-2.4	--	-2.5	-2.1	-2.2	-2.3	-1.6	-1.3	-2.0	-1.6	-1.8	-1.7	-1.9	-1.9	-2.5	-2.6	-2.6	-2.8	-2.9	-2.8	-1.9	-2.1	-1.8	-2.0	-2.1	-1.3	-2.9
11	-1.5	--	-2.1	-2.3	-2.5	-2.6	-2.3	-1.2	-1.6	-2.0	-1.7	-1.6	-1.9	-2.4	-2.7	-2.7	--	-2.7	-2.3	-1.7	-1.2	-0.4	-1.1	-2.0	-1.9	-0.4	-2.7
12	-1.7	--	-2.8	-2.3	-2.3	-2.0	-1.5	-0.3	-1.2	0.7	0.0	-1.4	-1.9	-2.3	-2.5	-2.7	-2.5	-2.7	-2.6	-2.4	-2.4	-2.6	-2.6	-2.6	-1.9	0.7	-2.8
13	-2.8	--	-2.3	-2.2	-2.7	-3.0	-3.1	-2.3	-1.5	-2.3	-2.7	-2.9	-3.0	-3.0	-3.1	-3.0	-3.1	-3.1	-3.4	-3.3	-3.2	-2.9	-3.1	-3.4	-2.8	-1.5	-3.4
14	-3.2	--	-3.5	-3.5	-3.7	-3.7	-3.6	-3.2	-3.1	-3.1	-2.9	-3.1	-3.2	-3.3	-3.3	-3.4	-3.4	-3.5	-3.6	-3.6	-3.7	-3.6	-3.6	-3.4	-3.4	-2.9	-3.7
15	-3.3	--	-3.5	-3.2	-3.5	-3.7	-3.4	-2.7	-3.0	-3.0	-3.1	-3.1	-2.0	-2.9	-3.0	-3.3	-3.4	-3.5	-3.6	-3.6	-3.6	-3.6	-3.5	-3.4	-3.2	-2.0	-3.7
16	-3.3	--	-3.3	-3.5	-3.5	-3.4	-3.3	-3.2	-3.0	-3.1	-3.0	-3.0	-3.0	-3.1	-3.2	-3.3	-3.3	-3.4	-3.4	-3.3	-3.3	-3.3	-3.2	-3.2	-3.2	-3.0	-3.5
17	-3.3	--	-3.4	-3.4	-3.1	-3.1	-2.6	-2.5	-2.0	-2.1	-2.5	-2.2	-2.1	-2.7	-2.6	-2.7	-2.5	-2.7	-2.4	-2.3	-2.3	-2.5	-1.4	-1.4	-2.5	-1.4	-3.4
18	-2.7	--	-3.4	-3.3	-2.8	-1.4	-1.8	-2.4	-2.4	-2.5	-2.8	-3.2	-2.7	-3.0	-2.6	-3.3	-3.3	-3.4	-3.3	-3.2	-1.7	-2.7	-2.1	-2.8	-2.7	-1.4	-3.4
19	-1.9	--	-3.4	-3.6	-3.5	-3.5	-3.5	-3.3	-3.1	-1.7	-2.5	-2.7	-3.0	-3.2	-3.3	-3.3	-3.5	-3.5	-3.4	-2.2	-1.4	-1.6	-1.9	-2.2	-2.8	-1.4	-3.6
20	-1.5	--	-3.0	-3.0	-3.2	-3.2	-3.1	-2.6	-2.9	-2.9	-2.9	-3.0	-3.0	-3.1	-3.1	-3.0	-3.0	-2.8	-2.5	-2.7	-2.9	-3.3	-3.2	-3.3	-2.9	-1.5	-3.3
21	-2.6	--	0.7	-3.2	-3.4	-3.2	-1.8	-0.3	-2.0	-1.2	-2.7	-2.6	-3.0	-3.3	-3.2	-3.2	-3.3	-3.2	-3.0	-2.6	-2.5	-2.5	-2.6	-2.5	-2.5	0.7	-3.4
22	-2.3	--	-2.6	-2.7	-2.6	-2.8	-1.8	-1.2	-1.2	-2.7	-2.5	-2.9	-3.4	-3.3	-3.2	-2.9	-3.1	-3.4	-3.3	-3.1	-2.9	-2.0	-2.3	-2.6	u	-1.2	-3.4
23	-3.0	--	-3.6	-3.7	-3.8	-3.7	-3.6	-3.1	-2.9	-2.7	-3.1	-3.3	-3.1	--	--	--	--	--	--	--	0.6	0.8	2.3	--	--	--	--
24	0.1	--	0.5	0.4	0.4	0.2	0.5	0.5	0.3	-0.1	-0.1	-0.3	0.0	-0.3	-0.5	-0.7	-0.7	-0.7	-0.7	-0.8	-0.8	-0.1	-0.2	0.0	-0.1	0.5	-0.8
25	-0.5	--	-0.6	-0.8	-0.8	-0.7	-0.7	-0.4	-0.4	-0.2	-0.4	0.0	-0.2	-0.4	-0.5	-0.6	-0.5	-0.6	-0.7	-0.5	-0.3	0.2	0.4	0.3	-0.4	0.4	-0.8
26	1.5	--	-0.2	-0.3	-0.4	-0.3	0.8	2.8	0.7	0.9	0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	0.5	1.2	1.9	1.4	0.6	0.3	0.4	2.8	-0.4
27	0.1	--	-0.1	-0.2	-0.1	1.6	2.9	0.9	0.1	0.0	0.6	-0.1	-0.3	-0.1	-0.3	-0.4	-0.4	-0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	2.9	-0.4
28	-0.1	--	-0.2	-0.3	-0.2	0.0	0.8	0.6	-0.1	1.7	1.7	0.2	-0.4	-0.5	-0.5	-0.7	-0.8	-0.8	-0.7	-0.4	-0.3	-0.5	-0.6	-0.5	-0.1	1.7	-0.8
29	-0.2	--	-0.4	-0.8	-0.3	-0.3	0.3	--	--	--	--	--	--	-1.8	-1.7	-1.7	-1.8	-1.7	-1.5	-1.2	-1.3	-1.5	-1.8	-1.6	--	--	--
30	-1.0	--	-1.6	-1.9	-1.9	-2.1	-1.1	-1.6	-1.5	-1.7	-2.0	-1.8	-2.0	-1.9	-2.0	-2.1	-1.9	-2.0	-2.2	-2.3	-1.8	-1.6	-1.7	-2.0	-1.8	-1.0	-2.3
Avg	-1.9	--	-2.2	-2.3	-2.3	-2.1	-1.7	-1.4	-1.6	-1.7	-1.9	-2.2	-2.2	-2.3	-2.4	-2.4	-2.5	-2.5	-2.5	-2.2	-2.1	-1.9	-1.9	-1.9	-2.1	--	--
Max	1.5	--	0.7	0.4	0.4	1.6	2.9	2.8	1.4	1.7	1.7	0.2	0.0	-0.1	-0.3	0.6	-0.2	-0.1	0.5	1.2	1.9	1.4	0.8	2.3	--	2.9	--
Min	-3.3	--	-3.6	-3.7	-3.8	-3.7	-3.6	-3.3	-3.1	-3.1	-3.1	-3.3	-3.4	-3.3	-3.3	-3.4	-3.5	-3.5	-3.6	-3.6	-3.7	-3.6	-3.6	-3.4	--	--	-3.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-2.2	--	-2.4	-2.5	-2.3	-2.0	-1.5	-0.7	-1.5	-2.0	-2.1	-2.1	-1.6	-1.7	-2.1	-2.1	-2.1	-1.7	-0.3	1.1	0.6	0.3	-0.7	-1.1	-1.4	1.1	-2.5
2	0.5	--	-1.2	-1.2	-2.1	-2.0	-2.0	-1.7	-1.7	-1.6	-1.8	-1.8	--	-0.9	-1.5	-1.5	-1.5	-1.7	-2.1	-1.8	-1.1	-0.5	-1.8	-1.9	-1.5	0.5	-2.1
3	-1.9	--	-1.7	-1.9	-1.9	-1.6	-1.5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.9	-2.0	-2.0	-2.0	-2.0	-2.1	-2.0	-0.6	-1.6	-1.8	-0.7	-0.4	-1.6	-0.4	-2.1
4	0.2	--	-0.6	-0.8	-1.0	-0.7	-0.5	-0.5	0.2	-1.0	-2.0	-0.9	-0.7	-2.1	-0.8	-1.8	-2.2	-2.3	-2.3	-2.4	-2.4	-2.3	-2.1	-2.2	-1.4	0.2	-2.4
5	-2.2	--	-2.2	-2.2	-2.3	-2.3	-1.9	-1.8	-1.9	-2.0	-2.0	-2.0	-2.2	-2.2	-2.1	-2.1	-2.2	-2.2	-2.3	-2.0	-1.1	-0.9	-1.9	-2.4	-2.0	-0.9	-2.4
6	-2.3	--	-0.7	0.7	-0.8	-0.2	0.7	-1.0	-1.1	-0.8	-0.7	-1.2	-1.4	-1.4	-1.7	-1.7	-1.8	-1.9	-2.1	-2.3	-2.3	-2.0	-2.2	-2.3	-1.3	0.7	-2.3
7	-2.2	--	-2.3	-2.3	-2.4	-2.3	-2.0	-1.9	-1.1	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8	-1.9	-2.0	-2.1	-2.2	-1.8	-1.6	-1.0	-1.4	-1.5	-1.8	-1.0	-2.4
8	-1.5	--	-1.1	-1.4	-0.9	-0.2	0.6	0.2	-0.5	-0.2	-0.9	-1.4	-1.5	-1.5	-1.8	-1.7	-1.7	-1.8	-2.0	-2.0	-1.8	-1.7	-1.9	-1.6	-1.2	0.6	-2.0
9	-1.1	--	-0.7	-1.2	-1.2	-0.6	1.2	0.2	-0.5	0.4	-0.8	-1.2	-1.4	-1.6	-1.6	-1.7	-1.7	-1.8	-1.9	-1.8	-1.5	-0.9	-0.7	0.0	-1.0	1.2	-1.9
10	-0.1	--	-1.0	0.9	-1.5	-0.6	-0.2	-0.3	-0.9	-1.0	-1.3	-1.2	-1.3	-1.4	-1.7	-1.8	-1.7	-1.7	-1.8	-1.5	-0.7	-1.0	-0.9	-1.3	-1.0	0.9	-1.8
11	2.1	--	2.3	1.2	1.3	3.0	0.4	-0.3	-1.2	-1.4	-1.5	-1.8	-1.7	-1.7	-1.7	-1.8	-1.9	-2.0	-1.9	-1.9	-1.2	-1.0	-1.3	-1.2	-0.7	3.0	-2.0
12	-1.5	--	-1.4	-1.5	-0.6	1.5	0.9	-1.3	-1.3	1.6	-1.3	-1.4	-1.5	-1.7	-1.7	-1.5	-1.2	-1.6	-1.9	-1.9	-1.7	-1.2	-1.1	-1.4	-1.1	1.6	-1.9
13	-1.3	--	-1.3	-1.4	-0.6	0.4	0.3	0.0	1.0	0.5	-0.8	-1.0	-1.5	-1.6	-1.5	-1.7	-1.4	-1.6	-1.4	-0.2	-1.0	-0.6	-1.1	-0.9	-0.8	1.0	-1.7
14	-1.1	--	-1.5	-1.8	-1.2	0.4	0.3	-0.5	-0.5	-1.7	-1.4	-1.5	-1.8	-1.9	-1.8	-1.8	-1.9	-1.9	-1.4	-0.8	-1.1	-1.4	-1.1	-1.2	-1.3	0.4	-1.9
15	-1.5	--	-2.0	-2.0	-2.0	-1.4	-0.8	-1.6	-1.9	-1.7	-1.6	-1.6	-1.6	-1.7	-1.6	-1.5	-1.9	-2.1	-2.0	-1.9	-2.0	-1.8	-1.8	-1.9	-1.7	-0.8	-2.1
16	-1.9	--	-1.8	-2.3	-2.3	-2.0	-1.1	-0.6	-2.2	-1.9	-1.8	-0.7	-2.0	-1.9	-2.0	-2.2	-2.1	-2.2	-2.3	-2.2	-2.3	-2.1	-1.9	-2.2	-1.9	-0.6	-2.3
17	-2.2	--	-2.4	-2.3	-2.3	-1.6	-1.1	-1.7	-1.9	-2.0	-2.0	--	-2.0	-2.1	-2.1	-2.0	-2.1	-2.0	-1.5	-1.1	-1.2	-1.2	-1.0	-0.4	-1.7	-0.4	-2.4
18	-1.8	--	-2.4	-2.4	-2.3	-2.0	-2.1	-2.2	-2.2	-2.1	-2.1	-2.2	-2.1	-2.1	-2.0	-2.0	-2.1	-2.1	-2.1	-1.9	-1.5	-1.5	-1.5	-1.4	-2.0	-1.4	-2.4
19	-1.5	--	-1.7	-1.6	-1.7	-1.4	-0.8	-1.4	-1.6	-1.5	-1.6	-1.8	-1.8	-1.8	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-2.0	-2.0	-1.7	-0.8	-2.0
20	-1.9	--	-1.9	-1.8	-1.7	-1.3	0.0	-0.1	-1.0	-1.4	-1.9	-1.5	-1.6	-1.6	-1.6	-1.5	-1.8	-1.7	-1.8	-1.4	-1.3	-1.3	-1.2	-0.7	-1.4	0.0	-1.9
21	0.2	--	0.6	1.9	0.8	1.8	1.8	-0.2	0.4	0.5	-0.7	-1.1	-1.5	-1.8	-2.0	-1.9	-2.1	-2.1	-2.1	-1.9	-1.8	-1.4	0.4	-1.1	-0.6	1.9	-2.1
22	-1.2	--	-1.8	-1.9	-1.7	-1.7	-1.1	-0.8	-1.1	-1.6	-1.9	-2.0	-2.0	-2.1	-1.9	-2.1	-2.2	-2.3	-2.3	-2.2	-2.3	-2.2	-2.0	-2.1	-1.9	-0.8	-2.3
23	-2.3	--	-2.5	-2.4	-2.2	-1.1	-1.2	-1.9	-1.7	-1.6	-1.9	-2.0	-2.1	-2.1	-2.1	-2.1	-2.2	-2.2	-2.3	-2.2	-2.3	-2.0	-2.0	-2.1	-2.0	-1.1	-2.5
24	-2.2	--	-2.5	-2.0	-2.4	-2.6	-0.3	-0.9	-2.0	-1.5	-1.2	-1.9	-1.9	-1.7	-1.9	-2.1	-2.2	-2.3	-2.3	-2.1	-1.8	-0.4	-0.8	-1.1	-1.7	-0.3	-2.6
25	-0.9	--	-1.4	-1.6	-1.7	-1.4	-0.9	-0.9	-1.7	-1.1	-1.5	-2.1	-2.1	-2.2	-2.1	-2.2	-2.3	-2.3	-2.4	-2.3	-2.2	-1.9	-1.7	-1.9	-1.8	-0.9	-2.4
26	-1.8	--	-2.1	-1.9	-1.9	-1.7	-1.6	-2.3	-2.2	-2.0	-2.2	-2.2	-2.2	-2.3	-2.3	-2.3	-2.4	-2.3	-2.4	-2.4	-2.2	1.1	2.2	-1.6	-1.8	2.2	-2.4
27	-1.7	--	-1.9	-2.1	-1.9	-2.1	-1.8	-0.9	-2.1	-2.1	-0.5	-1.0	-2.3	-2.3	-2.2	-2.2	-2.2	-2.2	-2.3	-2.1	-1.9	-1.7	-1.5	-1.7	-1.8	-0.5	-2.3
28	-1.0	--	-1.5	-1.7	-1.8	-1.4	-0.3	0.0	-1.3	-1.3	-1.6	-1.2	-2.0	-2.0	-2.1	-2.1	-2.0	-2.1	-2.2	-2.1	-1.8	-1.3	-0.5	-1.8	-1.5	0.0	-2.2
29	-1.9	--	-1.1	-1.9	-2.0	-1.5	-1.1	-1.7	-1.9	-1.8	-1.5	-1.6	-1.8	-1.7	-1.5	-1.8	-1.9	-1.9	-2.0	-1.9	-1.7	-1.5	-1.2	-1.4	-1.7	-1.1	-2.0
30	-1.1	--	-1.7	-1.8	-2.0	-1.6	-1.1	-1.6	-1.6	-1.3	-1.6	-1.0	-1.1	-1.6	-1.5	-1.7	-1.8	-1.9	-2.0	-1.8	-1.5	-0.9	-0.9	-0.9	-1.5	-0.9	-2.0
31	-1.0	--	-0.7	-1.1	-1.5	-0.5	1.3	-0.3	-1.5	-1.2	-1.4	-1.5	-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Avg	-1.3	--	-1.4	-1.4	-1.6	-1.0	-0.6	-1.0	-1.3	-1.2	-1.5	-1.5	-1.7	-1.8	-1.8	-1.9	-1.9	-2.0	-2.0	-1.7	-1.6	-1.3	-1.2	-1.5	-1.5	--	--
Max	2.1	--	2.3	1.9	1.3	3.0	1.8	0.2	1.0	1.6	-0.5	-0.7	-0.7	-0.9	-0.8	-1.5	-1.2	-1.6	-0.3	1.1	0.6	1.1	2.2	0.0	--	3.0	--
Min	-2.3	--	-2.5	-2.5	-2.4	-2.6	-2.1	-2.3	-2.2	-2.1	-2.2	-2.2	-2.3	-2.3	-2.3	-2.3	-2.4	-2.3	-2.4	-2.4	-2.4	-2.3	-2.2	-2.4	--	--	-2.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.8	-3.3	-3.5	-3.6	-3.6	-3.6	-3.6	-3.3	-2.8	-1.3	-2.8	--	--	--
4	-2.7	--	-3.0	-2.8	-2.7	-2.9	-1.6	-1.4	-1.5	-2.7	-3.2	-3.1	-3.2	-3.1	-2.8	-3.3	-3.4	-3.5	-3.6	-3.5	-3.1	-3.2	-2.9	-1.0	-2.8	-1.0	-3.6
5	-1.5	--	-2.9	-3.2	-3.3	-2.1	-1.3	-1.9	-3.2	-3.0	-3.2	-3.3	-3.3	-3.5	-3.4	-3.4	-3.6	-3.7	-3.7	-3.4	-3.2	-3.1	-3.0	-3.4	-3.0	-1.3	-3.7
6	-3.0	--	-2.9	-3.0	-2.9	-2.4	-1.2	-1.2	-2.1	-2.3	-3.0	-3.1	-2.7	-3.1	-3.1	-3.1	-3.2	-3.0	-3.0	-2.7	-2.5	-3.0	-3.0	-3.1	-2.7	-1.2	-3.2
7	-2.9	--	-2.9	-3.0	-3.0	-2.8	-0.3	0.4	-1.7	-1.4	-2.3	-1.2	-1.0	-2.7	-3.0	-3.0	-2.7	-2.8	-2.7	-3.1	-2.9	-2.1	-2.1	-2.7	-2.3	0.4	-3.1
8	-2.5	--	-3.0	-2.7	-3.1	-3.0	-3.2	-3.5	-3.2	-3.3	-3.4	-3.4	-3.3	-3.2	-3.2	-3.1	-2.7	-3.0	-2.9	-2.9	-2.8	-2.9	-3.1	-3.2	-3.1	-2.5	-3.5
9	-3.3	--	-3.1	-3.0	-3.0	-3.0	-2.8	-3.3	-3.3	-3.3	-3.4	-3.4	-3.4	-3.4	-3.4	-3.4	-3.5	-3.5	-3.2	-2.8	-2.3	-3.0	-3.3	-3.1	-3.2	-2.3	-3.5
10	-3.2	--	-3.2	-3.1	-3.3	-3.0	-2.6	-1.3	-2.7	-3.0	-1.7	-2.9	-2.5	-3.1	-2.8	-3.4	-3.2	-3.5	-3.6	-3.6	-3.3	-2.8	-2.8	-2.6	-2.9	-1.3	-3.6
11	-2.4	--	-1.4	-2.8	-3.1	-2.7	-1.9	-2.1	-0.9	-2.8	-3.0	-3.3	-3.3	-3.3	-2.9	-3.2	-2.8	-2.3	-1.8	-2.0	-2.4	-2.6	-2.4	-1.8	-2.5	-0.9	-3.3
12	-2.8	--	-3.3	-3.2	-3.3	-2.9	-2.8	-2.5	-2.1	-2.6	-2.6	-2.7	-2.9	-3.1	-3.2	-3.2	-3.0	-2.2	-1.8	-1.4	-1.4	-2.0	-2.7	-3.1	-2.6	-1.4	-3.3
13	-3.1	--	-2.7	-2.7	-2.3	-2.5	-2.3	-2.8	-2.3	-2.9	-2.9	-3.0	-2.9	-3.0	-2.8	-2.5	-2.4	-2.2	-2.3	-2.0	-2.2	-2.4	-2.6	-2.6	-2.6	-2.0	-3.1
14	-2.1	--	-2.2	-2.4	-2.3	-2.9	-2.5	-2.3	-2.4	-2.6	-2.6	-2.9	-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	-0.2	-0.2	-0.4	-0.2	-0.1	0.3	0.1	0.4	--	--	--
19	1.0	--	0.3	0.0	0.6	0.4	1.3	0.3	0.4	0.4	-0.3	-0.4	-0.3	-0.4	-0.2	-0.3	-0.5	-0.4	-0.5	0.3	-0.3	0.1	0.2	0.2	0.1	1.3	-0.5
20	0.7	--	1.8	2.3	0.8	1.2	0.3	1.1	0.6	0.9	0.1	-0.4	-0.2	-0.2	-0.2	-0.3	-0.4	-0.4	-0.4	-0.5	-0.2	0.2	0.0	0.3	0.3	2.3	-0.5
21	0.8	--	-0.1	-0.3	-0.4	1.1	1.4	0.3	0.2	0.5	-0.3	0.7	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.3	-0.4	-0.3	2.3	3.5	0.3	3.5	-0.5
22	2.7	--	1.2	-0.4	-0.6	-0.4	0.2	-0.6	-0.5	0.2	-0.1	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.3	-0.3	-0.3	0.0	-0.2	-0.1	-0.1	2.7	-0.6
23	0.0	--	0.1	-0.3	-0.3	0.5	0.2	-0.4	0.2	0.0	-0.3	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.5	-0.5	-0.7	-0.4	-0.2	-0.3	0.5	-0.7
24	-0.4	--	-0.6	-0.6	-0.5	-0.2	1.9	-0.4	-0.3	-0.2	-0.4	0.0	-0.3	-0.2	--	0.0	-0.1	-0.2	-0.2	-0.1	0.2	0.3	1.0	1.1	0.0	1.9	-0.6
25	1.1	--	-0.2	-0.3	0.0	0.2	1.1	0.0	0.4	1.1	2.5	0.1	-0.2	-0.2	0.4	-0.1	-0.2	-0.2	-0.3	-0.3	0.3	0.2	-0.2	-0.1	0.2	2.5	-0.3
26	-0.1	--	0.2	0.2	-0.1	-0.3	1.3	0.4	-0.1	2.2	0.5	-0.2	-0.2	-0.3	-0.1	-0.2	-0.2	-0.1	0.1	0.1	-0.1	0.1	0.5	0.7	0.2	2.2	-0.3
27	0.5	--	0.6	1.1	1.3	0.9	0.3	1.0	1.1	0.9	0.3	0.4	0.9	1.1	0.5	0.8	1.6	1.2	1.0	1.2	1.8	2.0	2.8	1.1	1.1	2.8	0.3
28	0.4	--	1.6	1.7	0.9	1.2	1.6	0.9	1.2	1.5	0.9	0.4	0.5	0.7	1.0	0.7	0.0	0.3	0.4	0.5	0.6	0.7	1.7	1.7	0.9	1.7	0.0
29	1.5	--	0.7	0.4	1.0	0.7	1.1	1.4	0.2	0.3	0.5	0.8	0.8	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.3	0.8	1.1	0.6	1.5	0.0
30	1.3	--	1.8	2.0	1.5	1.3	1.6	1.7	0.9	-1.4	0.8	0.7	0.7	0.5	0.4	0.4	0.6	0.5	0.6	0.5	0.5	1.9	2.0	1.6	1.0	2.0	-1.4
Avg	-0.9	--	-1.0	-1.1	-1.2	-1.0	-0.4	-0.7	-0.9	-1.0	-1.2	-1.3	-1.3	-1.5	-1.4	-1.4	-1.4	-1.4	-1.4	-1.3	-1.2	-1.0	-0.8	-0.8	-1.1	--	--
Max	2.7	--	1.8	2.3	1.5	1.3	1.9	1.7	1.2	2.2	2.5	0.8	0.9	1.1	1.0	0.8	1.6	1.2	1.0	1.2	1.8	2.0	2.8	3.5	--	3.5	--
Min	-3.3	--	-3.3	-3.2	-3.3	-3.0	-3.2	-3.5	-3.3	-3.3	-3.4	-3.4	-3.4	-3.5	-3.4	-3.5	-3.6	-3.7	-3.7	-3.6	-3.3	-3.2	-3.3	-3.4	--	--	-3.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.2
2	--	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.3	0.2	0.2	0.3	0.1
3	--	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.1
4	--	0.3	0.2	0.2	0.4	1.4	0.7	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.3	0.3	0.3	1.4	0.0
5	--	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.1
6	--	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.5	0.3	0.5	0.2
7	--	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3
8	--	0.5	0.5	0.5	0.5	0.6	1.0	0.8	0.7	0.5	0.3	0.4	0.4	0.5	0.5	0.7	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.3
9	--	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.3
10	--	-0.1	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	-0.1
11	--	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	--	0.1	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.1
12	--	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.9	0.5	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.4	0.4	0.4	0.9	0.2
13	--	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.3
14	--	0.4	0.5	0.4	0.5	0.6	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.8	0.6	0.4	0.6	1.0	0.5	1.0	0.3
15	--	1.3	0.8	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.8	0.9	0.6	0.6	0.5	0.7	0.5	1.3	0.3
16	--	0.6	0.8	0.8	0.7	0.7	0.6	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.6	0.7	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.8	0.3
17	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.4	0.2
18	--	0.2	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.1
19	--	0.2	0.2	0.9	0.3	0.2	0.0	0.1	0.1	0.6	0.3	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.9	0.0
20	--	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.1
21	--	0.3	0.3	0.2	0.2	0.3	0.4	0.8	0.5	1.5	0.9	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	1.5	0.2
22	--	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	3.8	1.8	0.9	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.6	3.8	0.2
23	--	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	--	--	--	--	--	--	--	--	--	1.0	1.0	--	--	--
24	--	0.9	0.8	0.9	0.9	1.3	1.3	1.3	1.4	1.3	2.2	2.3	1.0	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	1.0	1.1	2.3	0.8
25	--	1.1	1.0	1.1	1.1	1.4	1.3	1.2	0.9	0.8	0.7	0.8	1.2	1.1	0.8	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.9	1.4	0.7
26	--	0.8	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
27	--	0.8	0.8	0.7	0.8	0.8	0.9	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.9	0.7
28	--	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.8	0.6	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.5
29	--	0.8	0.8	0.7	0.7	0.7	0.7	--	--	--	--	--	--	0.8	0.6	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.7	--	--	--
30	--	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.8	0.7	0.8	0.7	0.9	0.6
Avg	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	--	--
Max	--	1.3	1.0	1.1	1.1	1.4	1.3	1.3	1.4	1.5	3.8	2.3	1.2	1.1	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	1.0	1.0	--	3.8	--
Min	--	-0.1	0.2	0.2	0.2	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.0	0.1	0.1	0.2	--	--	-0.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.7	0.7	0.6	0.7	0.7	0.5	0.6	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.8	0.5
2	--	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	--	--	0.6	1.2	1.0	0.6	0.4	0.4	0.7	0.8	0.4	0.4	0.6	1.2	0.4
3	--	0.4	0.5	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.4
4	--	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.6	0.7	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.9	1.4	1.0	0.8	0.7	1.4	0.4
5	--	1.4	1.7	1.3	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	0.9	0.5	0.5	0.7	1.7	0.5
6	--	0.6	0.5	0.6	0.6	0.6	0.6	0.9	0.8	0.7	1.1	0.8	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.9	1.0	0.6	0.6	0.5	0.7	1.1	0.5
7	--	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.8	0.8	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.4
8	--	0.7	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.6
9	--	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.5
10	--	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.6	1.1	1.4	0.6	0.7	1.4	0.5
11	--	1.6	3.7	4.5	2.2	1.9	0.7	0.6	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	1.0	4.5	0.4
12	--	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.8	0.4
13	--	0.5	0.5	0.5	0.6	0.6	0.5	0.4	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.6	0.2
14	--	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.9	0.6	0.9	0.3
15	--	0.7	0.6	0.6	0.5	0.6	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.8	0.5
16	--	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.9	0.5
17	--	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.6	0.5	0.6	--	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.8	1.0	1.1	0.7	1.1	0.5
18	--	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.5	0.7	0.6	0.7	0.5
19	--	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.6
20	--	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.7	0.6	0.7	0.5
21	--	1.2	2.0	1.7	2.5	3.0	1.2	0.9	2.7	3.8	1.8	1.2	1.1	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.1	0.5	1.3	3.8	0.1
22	--	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.8	0.6	0.6	0.7	0.7	0.7	0.8	1.0	1.4	1.6	1.1	1.1	0.8	1.6	0.5
23	--	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.9	1.1	0.7	0.7	0.8	1.1	0.6
24	--	0.5	0.6	0.6	0.7	0.7	0.6	0.9	1.0	0.9	1.1	1.7	1.0	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	1.7	0.5
25	--	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.9	1.5	1.5	1.1	0.9	0.8	0.6	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	1.5	0.5
26	--	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.6	0.8	0.8	0.8	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.5
27	--	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.5
28	--	0.5	0.5	0.6	0.7	0.6	0.7	0.7	0.8	0.8	1.0	1.0	0.9	0.9	0.8	0.9	0.4	0.2	0.8	0.7	0.8	0.9	0.8	0.8	0.7	1.0	0.2
29	--	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.8	0.6
30	--	0.9	0.9	0.8	1.0	1.1	1.2	1.2	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.9	1.3	0.7
31	--	0.7	0.6	0.7	0.8	0.7	0.8	0.9	1.0	1.0	1.0	1.0	0.9	--	--	0.8	0.7	0.7	0.6	0.7	0.8	0.7	0.8	0.9	0.8	1.0	0.6
Avg	--	0.7	0.8	0.8	0.7	0.7	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	--	--
Max	--	1.6	3.7	4.5	2.5	3.0	1.2	1.2	2.7	3.8	1.8	1.7	1.1	0.9	0.8	1.2	1.0	0.8	0.8	1.0	1.4	1.6	1.4	1.1	--	4.5	--
Min	--	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.5	0.1	0.2	--	--	0.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	1.1	1.0	1.3	1.6	1.3	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	1.6	0.6
2	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.9	1.8	1.0	0.7	0.8	0.8	0.8	0.9	0.9	0.8	0.9	1.1	1.0	0.9	0.8	1.8	0.6
3	--	0.7	0.7	0.6	0.6	0.6	0.7	0.9	0.9	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.7	1.8	0.7	1.8	0.5
4	--	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.4	0.6	0.7	0.6	0.6	1.0	0.6	1.0	0.4
5	--	0.7	0.6	0.6	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.5
6	--	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.6
7	--	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	1.3	0.7	1.0	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.7	0.8	0.8	1.3	0.6
8	--	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.8	1.0	1.0	0.9	0.8	0.7	1.0	1.2	0.8	1.2	0.6
9	--	1.1	1.1	1.1	0.9	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.1	0.6
10	--	0.6	0.8	0.8	0.7	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.8	0.7	0.8	0.6
11	--	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.5	0.6	0.7	0.7	0.8	0.6	0.8	0.5
12	--	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.7	0.6	0.7	0.9	1.3	0.7	1.3	0.6
13	--	1.2	1.0	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.8	0.8	1.0	1.0	1.2	1.4	1.5	0.9	1.5	0.6
14	--	1.3	1.0	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	--	--	--
19	--	0.8	0.9	1.0	0.8	0.9	0.8	1.5	6.1	5.7	2.4	1.3	0.8	0.7	0.8	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.7	0.7	1.3	6.1	0.7
20	--	0.8	0.7	0.8	0.8	0.8	1.0	1.3	1.5	1.2	1.4	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.5	0.6
21	--	0.7	1.0	1.0	0.9	0.9	0.8	1.0	2.2	3.0	1.3	0.8	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.9	3.0	0.6
22	--	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.6
23	--	0.7	0.8	0.7	0.7	0.7	0.5	0.6	0.9	1.3	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.7	1.3	0.5
24	--	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.9	0.7	0.6	0.7	0.7	0.6	0.6	0.4	--	0.9	0.9	0.9	1.0	1.0	1.2	1.2	0.8	1.2	0.4
25	--	1.0	0.9	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.8
26	--	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	1.0	1.0	0.9	0.9	1.0	0.8
27	--	1.0	1.0	1.0	1.0	1.1	1.2	1.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.2	0.9
28	--	0.9	1.0	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.4	2.3	1.8	1.7	2.0	2.0	2.0	1.5	1.5	1.4	1.4	1.4	2.3	0.9
29	--	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.5	2.2	1.4	1.2	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.2	1.3	1.2	2.2	0.9
30	--	1.0	1.1	1.3	1.3	1.2	1.0	1.0	1.2	0.7	1.6	2.1	1.8	1.3	1.3	1.3	1.2	1.0	1.1	1.3	1.4	1.2	0.9	0.9	1.2	2.1	0.7
Avg	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	--	--
Max	--	1.3	1.1	1.3	1.3	1.2	1.2	1.5	6.1	5.7	2.4	2.1	2.2	1.4	2.3	1.8	1.7	2.0	2.0	2.0	1.5	1.5	1.4	1.8	--	6.1	--
Min	--	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.6	0.6	0.6	0.6	--	--	0.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.033	0.034	0.034	0.035	0.035	0.036	0.038	0.040	0.042	0.044	0.045	0.046	0.047	0.047	0.047	0.046	0.045	0.043	0.042	0.041	0.040	0.039	0.039	0.041	0.047	0.033
2	0.038	0.038	0.039	0.040	0.042	0.043	0.045	0.047	0.050	0.052	0.053	0.054	0.054	0.054	0.054	0.053	0.052	0.051	0.049	0.049	0.047	0.045	0.044	0.042	0.047	0.054	0.038
3	0.041	0.041	0.041	0.042	0.043	0.045	0.046	0.046	0.047	0.049	0.050	0.051	0.052	0.054	0.055	0.057	0.057	0.057	0.057	0.056	0.055	0.054	0.052	0.050	0.050	0.057	0.041
4	0.048	0.047	0.046	0.046	0.046	0.046	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.052	0.051	0.051	0.051	0.051	0.050	0.050	0.049	0.048	0.048	0.047	0.049	0.052	0.046
5	0.046	0.045	0.045	0.046	0.046	0.047	0.047	0.048	0.049	0.049	0.049	0.048	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.049	0.049	0.049	0.049	0.048	0.048	0.049	0.045
6	0.047	0.046	0.046	0.047	0.047	0.047	0.048	0.049	0.051	0.052	0.053	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.051	0.050	0.049	0.049	0.049	0.047	0.050	0.053	0.046
7	0.045	0.044	0.044	0.045	0.046	0.046	0.047	0.049	0.051	0.052	0.053	0.054	0.055	0.055	0.055	0.054	0.054	0.053	0.052	0.051	0.050	0.049	0.048	0.047	0.050	0.055	0.044
8	0.046	0.044	0.043	0.042	0.041	0.040	0.039	0.040	0.041	0.042	0.044	0.045	0.046	0.047	0.047	0.049	0.050	0.051	0.052	0.053	0.053	0.052	0.051	0.049	0.046	0.053	0.039
9	0.046	0.043	0.040	0.040	0.039	0.039	0.039	0.040	0.041	0.042	0.042	0.043	0.044	0.044	0.044	0.043	0.042	0.041	0.039	0.038	0.036	0.033	0.031	0.029	0.040	0.046	0.029
10	0.028	0.028	0.029	0.030	0.032	0.034	0.036	0.038	0.039	0.040	0.042	0.042	0.043	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.039	0.040	0.040	0.040	0.038	0.043	0.028
11	0.039	0.040	0.041	0.042	0.042	0.043	0.044	0.045	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.046	0.046	0.045	0.045	0.044	0.043	0.042	0.042	0.045	0.048	0.039
12	0.041	0.041	0.041	0.042	0.042	0.043	0.044	0.045	0.047	0.048	0.049	0.050	0.050	0.050	0.049	0.049	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.046	0.050	0.041
13	0.046	0.045	0.045	0.046	0.046	0.047	0.047	0.048	0.050	0.052	0.053	0.053	0.053	0.053	0.052	0.051	0.050	0.048	0.047	0.046	0.045	0.045	0.046	0.046	0.048	0.053	0.045
14	0.046	0.046	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.047	0.046	0.045	0.044	0.044	0.042	0.041	0.040	0.039	0.046	0.048	0.039
15	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.042	0.043	0.044	0.045	0.045	0.046	0.045	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.037	0.037	0.041	0.046	0.037
16	0.038	0.038	0.039	0.040	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.048	0.049	0.050	0.050	0.051	0.051	0.051	0.050	0.050	0.049	0.046	0.051	0.038
17	0.048	0.046	0.045	0.045	0.045	0.046	0.047	0.049	0.050	0.050	0.051	0.051	0.051	0.050	0.049	0.048	0.046	0.045	0.044	0.043	0.043	0.042	0.041	0.041	0.047	0.051	0.041
18	0.041	0.041	0.042	0.042	0.042	0.043	0.044	0.044	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.044	0.044	0.045	0.046	0.047	0.044	0.047	0.041
19	0.048	0.048	0.048	0.048	0.048	0.047	0.046	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.044	0.044	0.043	0.042	0.045	0.048	0.042
20	0.041	0.040	0.041	0.041	0.042	0.043	0.044	0.046	0.048	0.049	0.050	0.051	0.052	0.052	0.051	0.051	0.050	0.049	0.047	0.046	0.044	0.043	0.042	0.042	0.046	0.052	0.040
21	0.041	0.041	0.042	0.042	0.044	0.045	0.047	0.049	0.051	0.053	0.055	0.057	0.059	0.060	0.061	0.061	0.061	0.061	0.060	0.059	0.057	0.056	0.055	0.053	0.053	0.061	0.041
22	0.050	0.049	0.049	0.049	0.048	0.048	0.048	0.049	0.051	0.052	0.053	0.053	0.054	0.055	0.055	0.055	0.055	0.053	0.051	0.050	0.048	0.046	0.045	0.043	0.050	0.055	0.043
23	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.041	--	--	--	--	--	--	--	--	--	--	--	--	0.052	0.051	0.051	0.050	--	--	--
24	0.049	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.051	0.051	0.050	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.040	0.039	0.047	0.051	0.039
25	0.038	0.038	0.038	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.042	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.040	0.042	0.037
26	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.043	0.044	0.045	0.047	0.049	0.051	0.052	0.053	0.054	0.055	0.055	0.054	0.054	0.053	0.051	0.049	0.048	0.047	0.055	0.036
27	0.046	0.045	0.046	0.046	0.047	0.048	0.049	0.050	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.059	0.059	0.058	0.056	0.055	0.054	0.052	0.050	0.049	0.052	0.059	0.045
28	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.051	0.053	0.054	0.055	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.059	0.059	0.059	0.058	0.056	0.054	0.054	0.059	0.048
29	0.053	--	--	--	--	--	--	--	- -	--	--	0.062	0.062	0.062	0.063	0.063	0.062	0.057	0.052	0.050	0.049	0.048	0.047	0.046	--	--	--
30	0.045	0.049	0.054	0.055	0.055	0.056	0.057	0.058	0.060	0.061	0.062	0.062	0.062	0.061	0.060	0.059	0.058	0.057	0.056	0.055	0.055	0.055	0.055	0.055	0.057	0.062	0.045
Avg	0.043	0.042	0.043	0.043	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.051	0.051	0.051	0.050	0.050	0.049	0.048	0.047	0.046	0.046	0.045	0.047	--	--
Max	0.053	0.049	0.054	0.055	0.055	0.056	0.057	0.058	0.060	0.061	0.062	0.062	0.062	0.062	0.063	0.063	0.062	0.061	0.060	0.059	0.059	0.058	0.056	0.055	--	0.062	--
Min	0.028	0.028	0.029	0.030	0.032	0.034	0.036	0.038	0.039	0.040	0.041	0.041	0.041	0.042	0.041	0.041	0.041	0.040	0.039	0.038	0.036	0.033	0.031	0.029	--	--	0.028

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.054	0.054	0.055	0.055	0.055	0.055	0.056	0.057	0.059	0.060	0.061	0.063	0.064	0.065	0.065	0.065	0.064	0.062	0.061	0.059	0.057	--	--	--	0.059	0.065	0.054
2	--	--	--	--	--	--	--	--	--	--	--	--	0.065	0.063	0.062	0.059	0.057	0.054	0.051	0.049	0.046	0.044	0.043	0.043	--	--	--
3	0.042	0.041	0.042	0.042	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.050	0.050	0.050	0.049	0.048	0.047	0.046	0.046	0.045	0.044	0.044	0.046	0.050	0.041
4	0.043	0.043	0.044	0.044	0.046	0.047	0.049	0.051	0.053	0.056	0.057	0.058	0.059	0.059	0.059	0.058	0.058	0.060	0.061	0.061	0.061	0.061	0.060	0.060	0.055	0.061	0.043
5	0.058	0.056	0.054	0.055	0.054	0.054	0.055	0.055	0.055	0.055	0.055	0.054	0.053	0.053	0.052	0.052	0.052	0.051	0.051	0.051	0.050	0.047	0.045	0.042	0.053	0.058	0.042
6	0.040	0.038	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.040	0.037
7	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.039	0.041	0.042	0.043	0.043	0.042	0.042	0.042	0.042	0.042	0.041	0.040	0.039	0.037	0.035	0.039	0.043	0.035
8	0.033	0.032	0.032	0.033	0.035	0.037	0.039	0.042	0.045	0.047	0.048	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.049	0.048	0.048	0.047	0.046	0.044	0.044	0.050	0.032
9	0.042	0.040	0.040	0.041	0.041	0.042	0.043	0.045	0.047	0.049	0.051	0.052	0.053	0.054	0.055	0.056	0.056	0.056	0.057	0.057	0.055	0.054	0.052	0.051	0.050	0.057	0.040
10	0.049	0.048	0.047	0.048	0.049	0.049	0.051	0.052	0.054	0.055	0.055	0.056	0.055	0.054	0.053	0.052	0.051	0.050	0.048	0.047	0.046	0.045	0.044	0.044	0.050	0.056	0.044
11	0.043	0.044	0.045	0.046	0.047	0.049	0.050	0.052	0.053	0.053	0.054	0.054	0.054	0.053	0.052	0.052	0.051	0.050	0.048	0.047	0.047	0.046	0.045	0.045	0.049	0.054	0.043
12	0.045	0.046	0.047	0.048	0.049	0.051	0.052	0.054	0.054	0.055	0.056	0.056	0.056	0.055	0.054	0.053	0.051	0.049	0.048	0.047	0.046	0.044	0.044	0.045	0.050	0.056	0.044
13	0.046	0.046	0.047	0.048	0.050	0.051	0.053	0.054	0.055	0.056	0.056	0.056	0.056	0.055	0.054	0.053	0.053	0.051	0.050	0.049	0.048	0.048	0.047	0.047	0.051	0.056	0.046
14	0.046	0.047	0.048	0.049	0.050	0.051	0.053	0.055	0.057	0.058	0.060	0.061	0.061	0.062	0.062	0.061	0.060	0.059	0.057	0.056	0.055	0.053	0.052	0.050	0.055	0.062	0.046
15	0.050	0.050	0.051	0.051	0.051	0.052	0.052	0.053	0.054	0.054	0.054	0.055	0.055	0.055	0.054	0.054	0.053	0.052	0.051	0.050	0.050	0.050	0.049	0.049	0.052	0.055	0.049
16	0.050	0.050	0.051	0.052	0.052	0.053	0.054	0.055	0.057	0.057	0.057	0.058	0.058	0.058	0.057	0.056	0.056	0.057	0.057	0.056	0.056	0.056	0.056	0.055	0.055	0.058	0.050
17	0.055	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.055	0.054	0.053	0.053	0.052	0.052	0.051	0.050	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.049	0.052	0.055	0.048
18	0.049	0.050	0.050	0.049	0.049	0.049	0.050	0.050	0.051	0.051	0.051	0.052	0.052	0.052	0.051	0.051	0.051	0.052	0.052	0.052	0.053	0.053	0.052	0.051	0.051	0.053	0.049
19	0.049	0.048	0.046	0.047	0.047	0.048	0.049	0.051	0.054	0.056	0.058	0.060	0.061	0.061	0.061	0.060	0.059	0.058	0.057	0.056	0.055	0.053	0.052	0.051	0.054	0.061	0.046
20	0.050	0.049	0.050	0.050	0.051	0.052	0.054	0.057	0.059	0.060	0.061	0.062	0.062	0.063	0.062	0.061	0.060	0.058	0.057	0.056	0.054	0.051	0.050	0.048	0.056	0.063	0.048
21	0.047	0.048	0.048	0.049	0.051	0.052	0.054	0.055	0.056	0.057	0.058	0.059	0.059	0.059	0.059	0.058	0.058	0.057	0.056	0.055	0.054	0.053	0.052	0.051	0.054	0.059	0.047
22	0.050	0.049	0.050	0.051	0.051	0.053	0.054	0.056	0.058	0.058	0.058	0.058	0.057	0.057	0.056	0.055	0.055	0.055	0.056	0.057	0.057	0.057	0.056	0.056	0.055	0.058	0.049
23	0.055	0.054	0.053	0.053	0.053	0.054	0.054	0.055	0.055	0.055	0.055	0.054	0.054	0.054	0.054	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.054	0.055	0.053
24	0.052	0.052	0.051	0.051	0.050	0.049	0.049	0.050	0.051	0.051	0.052	0.052	0.051	0.051	0.050	0.049	0.049	0.048	0.047	0.047	0.046	0.046	0.046	0.045	0.049	0.052	0.045
25	0.044	0.044	0.045	0.046	0.047	0.048	0.050	0.052	0.054	0.055	0.055	0.056	0.056	0.056	0.056	0.055	0.055	0.054	0.054	0.054	0.054	0.053	0.052	0.050	0.052	0.056	0.044
26	0.050	0.050	0.050	0.051	0.051	0.052	0.053	0.054	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.054	0.054	0.053	0.052	0.051	0.050	0.050	0.049	0.048	0.052	0.055	0.048
27	0.047	0.048	0.049	0.050	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.057	0.057	0.056	0.056	0.057	0.057	0.056	0.055	0.055	0.053	0.051	0.050	0.047	0.054	0.057	0.047
28	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.053	0.054	0.053	0.052	0.051	0.050	0.049	0.047	0.045	0.043	0.041	0.039	0.038	0.037	0.037	0.036	0.036	0.046	0.054	0.036
29	0.036	0.037	0.037	0.038	0.039	0.040	0.042	0.044	0.046	0.048	0.049	0.051	0.052	0.053	0.053	0.054	0.053	0.052	0.050	0.049	0.047	0.044	0.042	0.039	0.046	0.054	0.036
30	0.037	0.037	0.037	0.037	0.038	0.039	0.040	0.042	0.044	0.046	0.048	0.049	0.051	0.052	0.053	0.054	0.052	0.050	0.048	0.047	0.045	0.042	0.038	0.034	0.044	0.054	0.034
31	0.033	0.034	0.034	0.035	0.037	0.038	0.039	0.041	0.044	0.047	0.052	0.056	0.061	0.066	0.067	0.069	0.072	0.072	0.070	0.071	0.067	0.062	0.058	0.054	0.053	0.072	0.033
Avg	0.046	0.046	0.046	0.047	0.047	0.048	0.049	0.051	0.052	0.053	0.054	0.054	0.055	0.055	0.055	0.054	0.054	0.053	0.052	0.051	0.050	0.049	0.048	0.047	0.050	--	--
Max	0.058	0.056	0.055	0.055	0.055	0.055	0.056	0.057	0.059	0.060	0.061	0.063	0.065	0.066	0.067	0.069	0.072	0.072	0.070	0.071	0.067	0.062	0.060	0.060	--	0.072	--
Min	0.033	0.032	0.032	0.033	0.035	0.036	0.036	0.037	0.038	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.038	0.037	0.037	0.036	0.034	--	--	0.032

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.051	0.050	0.051	0.052	0.053	0.055	0.058	0.059	0.060	0.062	0.063	0.064	0.065	0.066	0.066	0.066	0.067	0.066	0.065	0.065	0.063	0.060	0.058	0.055	0.060	0.067	0.050
2	0.052	0.051	0.051	0.052	0.052	0.052	0.051	0.051	0.051	0.049	0.048	0.045	0.043	0.042	0.041	0.040	0.038	0.037	0.036	0.036	0.035	0.035	0.034	0.033	0.044	0.052	0.033
3	0.033	0.034	0.034	0.034	0.034	0.034	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.037	0.036	0.036	0.036	0.035	0.034	0.033	0.032	0.032	0.031	0.035	0.038	0.031
4	0.029	0.029	0.030	0.031	0.032	0.034	0.035	0.038	0.039	0.040	0.040	0.040	0.040	0.039	0.038	0.038	0.037	0.036	0.035	0.034	0.034	0.034	0.033	0.032	0.035	0.040	0.029
5	0.031	0.032	0.033	0.034	0.035	0.035	0.037	0.039	0.040	0.041	0.042	0.042	0.044	0.045	0.046	0.046	0.047	0.048	0.048	0.049	0.049	0.049	0.048	0.047	0.042	0.049	0.031
6	0.046	0.046	0.046	0.047	0.047	0.047	0.049	0.051	0.053	0.055	0.056	0.058	0.060	0.060	0.060	0.059	0.058	0.056	0.055	0.054	0.052	0.052	0.052	0.051	0.053	0.060	0.046
7	0.051	0.051	0.049	0.050	0.051	0.051	0.052	0.053	0.054	0.055	0.057	0.058	0.057	0.057	0.057	0.056	0.056	0.055	0.054	0.054	0.052	0.050	0.049	0.047	0.053	0.058	0.047
8	0.045	0.044	0.043	0.043	0.043	0.044	0.045	0.047	0.049	0.052	0.054	0.055	0.055	0.054	0.053	0.050	0.048	0.044	0.042	0.041	0.039	0.038	0.038	0.037	0.046	0.055	0.037
9	0.037	0.038	0.038	0.039	0.039	0.040	0.042	0.044	0.045	0.047	0.048	0.050	0.051	0.052	0.052	0.051	0.049	0.047	0.045	0.044	0.040	0.037	0.035	0.033	0.044	0.052	0.033
10	0.032	0.032	0.032	0.033	0.034	0.035	0.037	0.039	0.042	0.044	0.045	0.046	0.047	0.047	0.046	0.046	0.045	0.043	0.041	0.040	0.038	0.037	0.035	0.033	0.040	0.047	0.032
11	0.031	0.031	0.033	0.034	0.036	0.038	0.040	0.043	0.046	0.049	0.053	0.056	0.057	0.058	0.059	0.059	0.058	0.056	0.052	0.050	0.047	0.046	0.045	0.044	0.047	0.059	0.031
12	0.044	0.044	0.044	0.045	0.046	0.047	0.048	0.049	0.051	0.053	0.056	0.060	0.062	0.063	0.064	0.064	0.062	0.059	0.054	0.051	0.046	0.041	0.038	0.035	0.051	0.064	0.035
13	0.033	0.032	0.031	0.032	0.032	0.033	0.035	0.037	0.041	0.044	0.048	0.051	0.052	0.053	0.053	0.051	0.049	0.046	0.042	0.040	0.037	0.034	0.032	0.030	0.040	0.053	0.030
14	0.029	0.028	0.028	0.029	0.030	0.032	0.032	0.033	0.034	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	0.051	0.050	0.050	0.049	0.048	0.047	0.047	0.046	0.045	0.043	0.042	0.041	--	u	--
19	0.041	0.041	0.041	0.042	0.043	0.045	0.045	0.047	0.048	0.049	0.050	0.050	0.050	0.051	0.051	0.051	0.050	0.049	0.047	0.046	0.044	0.043	0.042	0.041	0.046	0.051	0.041
20	0.042	0.043	0.045	0.046	0.049	0.050	0.052	0.054	0.054	0.054	0.053	0.052	0.051	0.050	0.048	0.047	0.046	0.045	0.044	0.043	0.042	0.042	0.041	0.039	0.047	0.054	0.039
21	0.039	0.039	0.039	0.040	0.040	0.040	0.041	0.042	0.042	0.041	0.041	0.040	0.039	0.038	0.037	0.036	0.036	0.036	0.036	0.035	0.036	0.037	0.037	0.038	0.038	0.042	0.035
22	0.039	0.040	0.041	0.041	0.041	0.040	0.041	0.042	0.042	0.043	0.043	0.044	0.045	0.046	0.045	0.044	0.044	0.043	0.043	0.042	0.042	0.042	0.041	0.041	0.042	0.046	0.039
23	0.043	0.044	0.045	0.045	0.045	0.046	0.046	0.046	0.045	0.044	0.043	0.042	0.042	0.040	0.040	0.039	0.038	0.037	0.037	0.036	0.037	0.037	0.037	0.036	0.041	0.046	0.036
24	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.040	0.039	0.038	0.037	0.037	0.036	0.036	0.035	0.039	0.041	0.035
25	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.039	0.039	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.038	0.036	0.036	0.035	0.035	0.038	0.041	0.035
26	0.034	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.035	0.037	0.037	0.038	0.038	0.039	0.040	0.040	0.040	0.039	0.038	0.037	0.037	0.035	0.036	0.040	0.033
27	0.033	0.033	0.032	0.033	0.033	0.034	0.036	0.038	0.041	0.045	0.048	0.051	0.052	0.053	0.053	0.051	0.048	0.045	0.041	0.039	0.036	0.034	0.033	0.032	0.041	0.053	0.032
28	0.032	0.032	0.033	0.034	0.035	0.036	0.037	0.040	0.041	0.042	0.042	0.042	0.042	0.041	0.041	0.039	0.038	0.037	0.037	0.037	0.037	0.038	0.039	0.039	0.038	0.042	0.032
29	0.040	0.041	0.042	0.042	0.044	0.045	0.046	0.048	0.050	0.051	0.052	0.053	0.053	0.053	0.052	0.052	0.050	0.048	0.047	0.046	0.044	0.042	0.040	0.039	0.047	0.053	0.039
30	0.039	0.039	0.036	0.037	0.038	0.039	0.040	0.042	0.043	0.046	0.051	0.052	0.052	0.052	0.051	0.050	0.048	0.045	0.043	0.041	0.040	0.038	0.036	0.035	0.043	0.052	0.035
Avg	0.038	0.038	0.039	0.039	0.040	0.041	0.042	0.043	0.045	0.046	0.048	0.048	0.049	0.049	0.048	0.048	0.047	0.045	0.044	0.043	0.042	0.040	0.039	0.038	0.043	--	--
Max	0.052	0.051	0.051	0.052	0.053	0.055	0.058	0.059	0.060	0.062	0.063	0.064	0.065	0.066	0.066	0.066	0.067	0.066	0.065	0.065	0.063	0.060	0.058	0.055	--	0.067	--
Min	0.029	0.028	0.028	0.029	0.030	0.032	0.032	0.033	0.034	0.034	0.035	0.037	0.037	0.038	0.037	0.036	0.036	0.036	0.035	0.034	0.033	0.032	0.032	0.030	--	--	0.029

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Apr 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	0.038	0.036	0.032	0.033	0.028	0.032	0.038	0.039	0.040	0.041	0.042	0.045	0.046	0.049	0.051	0.049	0.048	0.046	0.044	0.041	0.039	0.041	0.051	0.028
2	0.041	0.037	--	0.040	0.039	0.039	0.038	0.034	0.041	0.045	0.047	0.051	0.051	0.052	0.054	0.056	0.057	0.057	0.054	0.052	0.050	0.050	0.050	0.049	0.047	0.057	0.034
3	0.047	0.043	--	0.041	0.037	0.039	0.041	0.042	0.043	0.046	0.048	0.048	0.049	0.048	0.048	0.048	0.053	0.055	0.058	0.059	0.060	0.060	0.058	0.056	0.049	0.060	0.037
4	0.051	0.049	--	0.050	0.051	0.049	0.045	0.042	0.043	0.045	0.045	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.052	0.052	0.048	0.051	0.052	0.049	0.053	0.042
5	0.047	0.048	--	0.048	0.046	0.046	0.044	0.041	0.044	0.049	0.050	0.051	0.051	0.051	0.050	0.047	0.047	0.046	0.044	0.046	0.048	0.050	0.050	0.050	0.047	0.051	0.041
6	0.048	0.048	--	0.048	0.050	0.048	0.046	0.040	0.044	0.049	0.051	0.051	0.051	0.052	0.053	0.055	0.055	0.056	0.053	0.052	0.045	0.049	0.054	0.055	0.050	0.056	0.040
7	0.051	0.046	--	0.045	0.047	0.043	0.042	0.040	0.044	0.048	0.050	0.051	0.052	0.052	0.054	0.055	0.055	0.055	0.057	0.058	0.056	0.051	0.048	0.049	0.050	0.058	0.040
8	0.050	0.047	--	0.047	0.050	0.046	0.042	0.038	0.037	0.038	0.038	0.038	0.041	0.042	0.044	0.048	0.050	0.049	0.048	0.048	0.045	0.048	0.056	0.060	0.046	0.060	0.037
9	0.056	0.058	--	0.047	0.040	0.039	0.040	0.039	0.037	0.038	0.037	0.039	0.042	0.044	0.044	0.044	0.044	0.044	0.044	0.043	0.043	0.043	0.039	0.037	0.043	0.058	0.037
10	0.032	0.030	--	0.025	0.026	0.027	0.027	0.030	0.033	0.033	0.039	0.041	0.042	0.042	0.041	0.042	0.043	0.045	0.044	0.043	0.035	0.044	0.037	0.040	0.037	0.045	0.025
11	0.039	0.039	--	0.041	0.041	0.042	0.040	0.033	0.043	0.046	0.046	0.048	0.049	0.048	0.048	0.049	--	0.048	0.049	0.049	0.048	0.043	0.042	0.047	0.045	0.049	0.033
12	0.040	0.043	--	0.042	0.043	0.041	0.041	0.038	0.042	0.042	0.044	0.046	0.048	0.050	0.052	0.051	0.051	0.051	0.049	0.049	0.048	0.046	0.045	0.046	0.046	0.052	0.038
13	0.047	0.048	--	0.048	0.048	0.047	0.045	0.039	0.042	0.048	0.050	0.051	0.052	0.052	0.053	0.055	0.054	0.054	0.052	0.051	0.049	0.046	0.045	0.045	0.049	0.055	0.039
14	0.044	0.042	--	0.046	0.048	0.049	0.048	0.046	0.046	0.047	0.049	0.049	0.049	0.049	0.048	0.048	0.047	0.048	0.048	0.047	0.046	0.046	0.044	0.042	0.047	0.049	0.042
15	0.041	0.039	--	0.039	0.038	0.038	0.038	0.038	0.040	0.041	0.040	0.041	0.042	0.044	0.043	0.046	0.049	0.047	0.047	0.047	0.044	0.041	0.039	0.037	0.042	0.049	0.037
16	0.036	0.035	--	0.037	0.037	0.039	0.041	0.041	0.040	0.041	0.042	0.042	0.044	0.046	0.047	0.048	0.049	0.049	0.050	0.049	0.049	0.048	0.050	0.054	0.044	0.054	0.035
17	0.056	0.051	--	0.048	0.046	0.045	0.043	0.047	0.044	0.045	0.046	0.049	0.053	0.054	0.054	0.052	0.051	0.051	0.049	0.047	0.046	0.045	0.042	0.039	0.048	0.056	0.039
18	0.042	0.041	--	0.043	0.041	0.040	0.041	0.042	0.043	0.043	0.044	0.045	0.046	0.046	0.045	0.045	0.046	0.048	0.048	0.046	0.042	0.045	0.043	0.044	0.044	0.048	0.040
19	0.045	0.044	--	0.048	0.048	0.049	0.050	0.050	0.049	0.046	0.046	0.045	0.043	0.043	0.043	0.043	0.044	0.044	0.046	0.046	0.045	0.044	0.044	0.045	0.046	0.050	0.043
20	0.045	0.044	--	0.043	0.041	0.040	0.039	0.034	0.043	0.045	0.047	0.048	0.048	0.049	0.051	0.052	0.053	0.055	0.055	0.052	0.048	0.047	0.046	0.046	0.046	0.055	0.034
21	0.045	0.037	--	0.041	0.042	0.041	0.040	0.040	0.043	0.044	0.048	0.052	0.053	0.054	0.056	0.058	0.059	0.062	0.063	0.065	0.062	0.059	0.059	0.058	0.051	0.065	0.037
22	0.056	0.054	--	0.053	0.050	0.051	0.046	0.042	0.047	0.050	0.050	0.050	0.050	0.050	0.053	0.058	0.058	0.054	0.055	0.056	0.056	0.053	0.052	0.055	0.052	0.058	0.042
23	0.044	0.038	--	0.043	0.041	0.040	0.039	0.038	0.038	0.039	0.041	0.043	0.045	--	--	--	--	--	--	--	--	0.049	0.057	0.053	--	--	--
24	0.055	0.049	--	0.048	0.047	0.049	0.048	0.047	0.048	0.049	0.047	0.047	0.050	0.050	0.050	0.050	0.052	0.053	0.052	0.051	0.049	0.045	0.045	0.046	0.049	0.055	0.045
25	0.038	0.036	--	0.038	0.038	0.038	0.038	0.038	0.039	0.040	0.041	0.039	0.038	0.041	0.043	0.043	0.042	0.042	0.041	0.041	0.041	0.039	0.042	0.041	0.040	0.043	0.036
26	0.036	0.034	--	0.036	0.037	0.038	0.037	0.036	0.041	0.042	0.043	0.044	0.044	0.045	0.047	0.048	0.051	0.055	0.058	0.056	0.055	0.056	0.057	0.055	0.046	0.058	0.034
27	0.052	0.048	--	0.047	0.044	0.043	0.043	0.044	0.048	0.049	0.049	0.051	0.052	0.052	0.054	0.056	0.058	0.059	0.062	0.061	0.061	0.060	0.056	0.052	0.052	0.062	0.043
28	0.051	0.048	--	0.049	0.049	0.048	0.046	0.045	0.049	0.049	0.051	0.053	0.055	0.054	0.055	0.055	0.056	0.057	0.058	0.059	0.059	0.060	0.059	0.060	0.053	0.060	0.045
29	0.060	0.058	--	0.055	0.051	0.049	0.047	--	--	--	--	--	--	0.059	0.061	0.062	0.063	0.063	0.066	0.065	0.063	0.060	0.060	0.059	--	--	--
30	0.024	0.023	--	0.054	0.055	0.056	0.051	0.051	0.055	0.057	0.059	0.060	0.061	0.062	0.063	0.062	0.063	0.063	0.060	0.059	0.056	0.054	0.053	0.054	0.054	0.063	0.023
Avg	0.045	0.043	--	0.044	0.044	0.043	0.042	0.040	0.043	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.052	0.052	0.052	0.050	0.049	0.049	0.049	0.047	--	--
Max	0.060	0.058	--	0.055	0.055	0.056	0.051	0.051	0.055	0.057	0.059	0.060	0.061	0.062	0.063	0.062	0.063	0.063	0.066	0.065	0.063	0.060	0.060	0.060	--	0.065	--
Min	0.024	0.023	--	0.025	0.026	0.027	0.027	0.028	0.032	0.033	0.037	0.038	0.038	0.041	0.041	0.042	0.042	0.042	0.041	0.041	0.035	0.039	0.037	0.037	--	--	0.023

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: May 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.055	0.055	--	0.058	0.058	0.055	0.051	0.048	0.056	0.057	0.058	0.059	0.058	0.059	0.060	0.062	0.063	0.068	0.075	0.070	0.063	0.059	0.057	0.054	0.059	0.075	0.048
2	0.054	0.055	--	--	--	--	--	--	--	--	--	--	--	--	0.064	0.067	0.068	0.066	0.063	0.060	0.056	0.048	0.046	0.047	--	--	--
3	0.045	0.042	--	0.042	0.042	0.042	0.041	0.041	0.041	0.043	0.044	0.045	0.047	0.048	0.049	0.051	0.052	0.051	0.051	0.048	0.049	0.048	0.047	0.045	0.046	0.052	0.041
4	0.044	0.042	--	0.044	0.044	0.043	0.043	0.043	0.042	0.046	0.049	0.054	0.057	0.060	0.059	0.059	0.060	0.059	0.058	0.059	0.059	0.056	0.052	0.065	0.052	0.065	0.042
5	0.072	0.066	--	0.060	0.054	0.053	0.051	0.054	0.055	0.055	0.056	0.057	0.056	0.055	0.055	0.055	0.052	0.051	0.050	0.051	0.056	0.049	0.049	0.054	0.055	0.072	0.049
6	0.052	0.049	--	0.041	0.038	0.034	0.031	0.036	0.038	0.040	0.043	0.043	0.040	0.038	0.037	0.036	0.036	0.037	0.039	0.041	0.041	0.037	0.037	0.040	0.039	0.052	0.031
7	0.038	0.038	--	0.039	0.038	0.037	0.036	0.035	0.034	0.033	0.034	0.036	0.040	0.042	0.043	0.043	0.044	0.045	0.046	0.040	0.039	0.039	0.041	0.043	0.039	0.046	0.033
8	0.045	0.042	--	0.034	0.029	0.026	0.026	0.030	0.036	0.041	0.043	0.046	0.046	0.046	0.048	0.050	0.053	0.054	0.053	0.048	0.047	0.048	0.049	0.047	0.043	0.054	0.026
9	0.054	0.044	--	0.044	0.042	0.039	0.035	0.036	0.040	0.043	0.047	0.048	0.048	0.049	0.051	0.053	0.054	0.056	0.056	0.057	0.060	0.056	0.053	0.059	0.049	0.060	0.035
10	0.055	0.056	--	0.049	0.048	0.046	0.044	0.044	0.047	0.051	0.054	0.055	0.055	0.056	0.056	0.056	0.054	0.055	0.058	0.052	0.047	0.049	0.047	0.047	0.051	0.058	0.044
11	0.044	0.044	--	0.043	0.043	0.041	0.043	0.044	0.050	0.051	0.053	0.054	0.054	0.054	0.053	0.054	0.055	0.055	0.054	0.052	0.048	0.047	0.048	0.047	0.049	0.055	0.041
12	0.046	0.044	--	0.046	0.043	0.042	0.046	0.051	0.053	0.051	0.054	0.055	0.055	0.055	0.056	0.057	0.058	0.057	0.055	0.054	0.052	0.045	0.044	0.045	0.051	0.058	0.042
13	0.045	0.044	--	0.046	0.043	0.045	0.047	0.049	0.049	0.052	0.055	0.057	0.057	0.057	0.054	0.055	0.058	0.058	0.057	0.051	0.051	0.049	0.049	0.047	0.051	0.058	0.043
14	0.047	0.046	--	0.049	0.048	0.045	0.044	0.046	0.050	0.052	0.056	0.058	0.058	0.058	0.061	0.062	0.061	0.064	0.065	0.064	0.061	0.059	0.057	0.053	0.055	0.065	0.044
15	0.051	0.049	--	0.052	0.052	0.050	0.046	0.051	0.052	0.052	0.053	0.054	0.055	0.055	0.054	0.054	0.055	0.055	0.056	0.054	0.053	0.052	0.049	0.048	0.052	0.056	0.046
16	0.049	0.047	--	0.051	0.051	0.050	0.049	0.049	0.053	0.054	0.056	0.057	0.058	0.059	0.057	0.058	0.057	0.058	0.058	0.058	0.056	0.054	0.053	0.058	0.054	0.059	0.047
17	0.059	0.057	--	0.056	0.056	0.053	0.049	0.054	0.055	0.056	0.057	--	--	0.054	0.054	0.053	0.051	0.052	0.052	0.051	0.049	0.048	0.047	0.045	0.053	0.059	0.045
18	0.048	0.048	--	0.053	0.050	0.049	0.049	0.049	0.049	0.048	0.048	0.051	0.051	0.052	0.052	0.053	0.052	0.051	0.051	0.050	0.051	0.050	0.051	0.055	0.051	0.055	0.048
19	0.055	0.054	--	0.052	0.050	0.045	0.043	0.044	0.045	0.046	0.049	0.053	0.056	0.058	0.059	0.062	0.064	0.064	0.062	0.061	0.058	0.056	0.056	0.056	0.054	0.064	0.043
20	0.055	0.053	--	0.050	0.048	0.047	0.046	0.049	0.052	0.055	0.055	0.056	0.058	0.063	0.065	0.065	0.062	0.062	0.062	0.061	0.061	0.060	0.059	0.055	0.056	0.065	0.046
21	0.049	0.048	--	0.044	0.046	0.047	0.048	0.050	0.050	0.051	0.055	0.058	0.059	0.057	0.057	0.057	0.059	0.062	0.061	0.059	0.059	0.057	0.052	0.053	0.054	0.062	0.044
22	0.054	0.051	--	0.053	0.049	0.049	0.044	0.047	0.052	0.054	0.057	0.057	0.060	0.062	0.062	0.059	0.056	0.054	0.053	0.054	0.056	0.056	0.055	0.058	0.054	0.062	0.044
23	0.059	0.059	--	0.057	0.054	0.052	0.051	0.053	0.053	0.053	0.055	0.058	0.057	0.055	0.054	0.053	0.052	0.052	0.054	0.054	0.055	0.054	0.052	0.050	0.054	0.059	0.050
24	0.051	0.053	--	0.055	0.055	0.055	0.049	0.049	0.047	0.047	0.049	0.050	0.049	0.055	0.057	0.053	0.051	0.050	0.049	0.049	0.048	0.047	0.048	0.049	0.051	0.057	0.047
25	0.048	0.042	--	0.044	0.044	0.045	0.041	0.043	0.049	0.051	0.051	0.053	0.054	0.056	0.058	0.058	0.057	0.056	0.056	0.056	0.055	0.054	0.053	0.053	0.051	0.058	0.041
26	0.054	0.054	--	0.053	0.050	0.047	0.043	0.052	0.053	0.053	0.054	0.054	0.055	0.056	0.057	0.055	0.055	0.055	0.055	0.055	0.055	0.051	0.051	0.053	0.053	0.057	0.043
27	0.049	0.045	--	0.050	0.048	0.047	0.047	0.046	0.054	0.055	0.056	0.060	0.058	0.057	0.054	0.056	0.058	0.058	0.056	0.056	0.057	0.057	0.058	0.057	0.054	0.060	0.045
28	0.052	0.046	--	0.045	0.046	0.045	0.037	0.048	0.056	0.055	0.055	0.054	0.054	0.053	0.051	0.052	0.051	0.050	0.048	0.044	0.041	0.039	0.037	0.036	0.047	0.056	0.036
29	0.036	0.036	--	0.038	0.038	0.035	0.034	0.037	0.039	0.040	0.043	0.045	0.046	0.049	0.051	0.052	0.054	0.055	0.054	0.055	0.054	0.053	0.053	0.049	0.045	0.055	0.034
30	0.042	0.039	--	0.036	0.038	0.036	0.035	0.036	0.038	0.040	0.041	0.041	0.044	0.049	0.051	0.051	0.053	0.052	0.053	0.053	0.057	0.059	0.054	0.040	0.045	0.059	0.035
31	0.036	0.034	--	0.034	0.035	0.031	0.028	0.035	0.039	0.039	0.042	0.044	0.048	--	--	0.053	0.059	0.063	0.068	0.074	0.078	0.076	0.078	0.076	0.051	0.078	0.028
Avg	0.050	0.048	--	0.047	0.046	0.044	0.043	0.045	0.048	0.049	0.051	0.052	0.053	0.054	0.055	0.055	0.055	0.056	0.056	0.055	0.054	0.052	0.051	0.051	0.051	--	--
Max	0.072	0.066	--	0.060	0.058	0.055	0.051	0.054	0.056	0.057	0.058	0.060	0.060	0.063	0.065	0.067	0.068	0.068	0.075	0.074	0.078	0.076	0.078	0.076	--	0.078	--
Min	0.036	0.034	--	0.034	0.029	0.026	0.026	0.030	0.034	0.033	0.034	0.036	0.040	0.038	0.037	0.036	0.036	0.037	0.039	0.040	0.039	0.037	0.037	0.036	--	--	0.026

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jun 2013

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.061	0.052	--	0.049	0.045	0.043	0.052	0.053	0.055	0.057	0.059	0.061	0.061	0.062	0.064	0.063	0.065	0.067	0.068	0.069	0.068	0.065	0.067	0.068	0.060	0.069	0.043
2	0.059	0.057	--	0.053	0.051	0.050	0.046	0.047	0.053	0.056	0.059	0.058	0.048	0.045	0.043	0.043	0.044	0.041	0.040	0.039	0.039	0.037	0.035	0.034	0.047	0.059	0.034
3	0.034	0.034	--	0.035	0.034	0.032	0.030	0.035	0.035	0.034	0.034	0.036	0.036	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.035	0.031	0.033	0.039	0.036	0.039	0.030
4	0.034	0.030	--	0.030	0.028	0.029	0.025	0.029	0.033	0.036	0.037	0.040	0.039	0.043	0.045	0.041	0.039	0.038	0.037	0.036	0.035	0.034	0.040	0.033	0.035	0.045	0.025
5	0.031	0.032	--	0.034	0.034	0.029	0.028	0.031	0.036	0.039	0.040	0.039	0.040	0.041	0.042	0.044	0.044	0.044	0.046	0.049	0.049	0.048	0.047	0.050	0.040	0.050	0.028
6	0.050	0.050	--	0.050	0.047	0.043	0.038	0.044	0.050	0.050	0.051	0.052	0.053	0.054	0.058	0.059	0.061	0.065	0.063	0.066	0.058	0.051	0.050	0.050	0.053	0.066	0.038
7	0.050	0.052	--	0.057	0.055	0.050	0.045	0.046	0.052	0.041	0.057	0.062	0.056	0.054	0.055	0.056	0.059	0.058	0.059	0.058	0.054	0.053	0.053	0.054	0.054	0.062	0.041
8	0.052	0.051	--	0.047	0.043	0.041	0.040	0.042	0.042	0.043	0.044	0.047	0.049	0.051	0.055	0.061	0.068	0.056	0.050	0.048	0.044	0.040	0.038	0.038	0.047	0.068	0.038
9	0.039	0.038	--	0.037	0.037	0.037	0.034	0.039	0.040	0.041	0.043	0.044	0.045	0.048	0.050	0.052	0.052	0.053	0.055	0.057	0.053	0.045	0.041	0.039	0.044	0.057	0.034
10	0.037	0.034	--	0.032	0.032	0.031	0.029	0.029	0.035	0.037	0.038	0.040	0.043	0.045	0.047	0.050	0.051	0.049	0.046	0.044	0.044	0.041	0.046	0.043	0.040	0.051	0.029
11	0.035	0.028	--	0.032	0.033	0.031	0.027	0.031	0.037	0.041	0.045	0.047	0.046	0.047	0.050	0.053	0.063	0.070	0.072	0.060	0.053	0.051	0.049	0.045	0.045	0.072	0.027
12	0.046	0.045	--	0.044	0.043	0.043	0.044	0.042	0.046	0.049	0.051	0.052	0.051	0.051	0.052	0.055	0.063	0.077	0.078	0.070	0.062	0.056	0.048	0.043	0.053	0.078	0.042
13	0.041	0.038	--	0.032	0.030	0.031	0.030	0.031	0.032	0.033	0.034	0.036	0.038	0.044	0.050	0.058	0.060	0.063	0.056	0.048	0.045	0.042	0.040	0.038	0.041	0.063	0.030
14	0.036	0.031	--	0.028	0.026	0.028	0.027	0.028	0.030	0.032	0.034	0.037	0.038	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.050	0.053	0.051	0.049	0.051	0.050	0.050	0.047	0.046	0.045	--	--	--
19	0.042	0.044	--	0.044	0.035	0.040	0.036	0.043	0.044	0.047	0.050	0.050	0.046	0.046	0.047	0.052	0.056	0.055	0.052	0.051	0.050	0.047	0.043	0.046	0.046	0.056	0.035
20	0.046	0.042	--	0.036	0.042	0.040	0.036	0.052	0.052	0.055	0.056	0.056	0.056	0.055	0.052	0.052	0.050	0.048	0.048	0.048	0.045	0.041	0.044	0.045	0.048	0.056	0.036
21	0.040	0.039	--	0.042	0.041	0.036	0.033	0.039	0.042	0.041	0.043	0.043	0.044	0.044	0.041	0.039	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.039	0.044	0.033
22	0.035	0.036	--	0.038	0.042	0.041	0.039	0.045	0.042	0.041	0.039	0.039	0.037	0.045	0.050	0.047	0.046	0.044	0.045	0.047	0.045	0.040	0.041	0.041	0.042	0.050	0.035
23	0.042	0.041	--	0.046	0.041	0.039	0.040	0.053	0.050	0.048	0.046	0.045	0.046	0.041	0.041	0.043	0.043	0.042	0.040	0.038	0.037	0.036	0.035	0.034	0.042	0.053	0.034
24	0.038	0.038	--	0.040	0.037	0.036	0.032	0.039	0.038	0.040	0.040	0.041	0.040	--	0.041	0.041	0.042	0.043	0.042	0.040	0.038	0.038	0.038	0.036	0.039	0.043	0.032
25	0.035	0.035	--	0.036	0.035	0.035	0.034	0.036	0.037	0.038	0.039	0.041	0.040	0.040	0.039	0.042	0.043	0.043	0.043	0.043	0.039	0.037	0.036	0.035	0.038	0.043	0.034
26	0.038	0.037	--	0.034	0.034	0.035	0.030	0.033	0.033	0.032	0.034	0.034	0.034	0.034	0.035	0.035	0.037	0.041	0.043	0.039	0.038	0.037	0.045	0.043	0.036	0.045	0.030
27	0.037	0.035	--	0.034	0.031	0.031	0.032	0.032	0.033	0.034	0.035	0.038	0.039	0.044	0.049	0.057	0.063	0.061	0.055	0.052	0.046	0.041	0.035	0.035	0.041	0.063	0.031
28	0.034	0.032	--	0.030	0.032	0.031	0.032	0.034	0.035	0.038	0.040	0.039	0.040	0.042	0.050	0.044	0.040	0.041	0.040	0.038	0.037	0.034	0.035	0.036	0.037	0.050	0.030
29	0.038	0.040	--	0.041	0.040	0.042	0.039	0.040	0.044	0.045	0.047	0.051	0.052	0.051	0.054	0.055	0.055	0.054	0.051	0.051	0.051	0.049	0.047	0.043	0.047	0.055	0.038
30	0.041	0.041	--	0.037	0.037	0.038	0.038	0.039	0.043	0.018	0.042	0.045	0.047	0.049	0.050	0.053	0.061	0.057	0.052	0.048	0.045	0.044	0.042	0.039	0.044	0.061	0.018
Avg	0.041	0.040	--	0.039	0.038	0.037	0.035	0.039	0.041	0.041	0.044	0.045	0.045	0.046	0.048	0.049	0.051	0.051	0.050	0.048	0.046	0.043	0.043	0.042	0.044	--	--
Max	0.061	0.057	--	0.057	0.055	0.050	0.052	0.053	0.055	0.057	0.059	0.062	0.061	0.062	0.064	0.063	0.068	0.077	0.078	0.070	0.068	0.065	0.067	0.068	--	0.078	--
Min	0.031	0.028	--	0.028	0.026	0.028	0.025	0.028	0.030	0.018	0.034	0.034	0.034	0.033	0.035	0.035	0.036	0.036	0.036	0.036	0.035	0.031	0.033	0.033	--	--	0.018

-- Indicates Invalid Data

Appendix F: West Plant Meteorological Site Check Forms

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 4/05/2013 Time: 12:08 Operator: Kami BaClard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER PORTLAND
RPA 4/10/13
REVIEWED BY DATE
KJD 4/10/13
AUDITED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.9	3.585
Direction* 10m (deg)	SW	186.1	213.2
Ambient Temperature (°C)	28	27.0	26.96
Relative Humidity (%)	10%	13%	13.91
Aspirated Temp 2m	28	26.5	26.45
Aspirated Temp 10m	26	24.°	24.38
Delta Temperature (°C)	N/A	-2.4	-2.071
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	963.9	965.0
Barometric Pressure (mmHg)	N/A	681.9	682.0
Battery Voltage (V)	N/A	12.8	12.79
Time (MST)	N/A	12:11	12:15 L.T.
Date	N/A	04/05/2013	4/5/13

11:45 - 232.4
12:00 - 233.4
12:30 - 236.8
12:45 - 251.4

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge
Invalidated precip. at 12:15 L.T. due to site oper. maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami BaClard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 04.12.2013 Time: 7:39 am Operator: Karen Ballard

YES	NO **		
KJD		1.	The tower is intact and upright.
		2.	The anemometer propeller and the wind direction vane are turning freely.
		3.	All temperature shields are intact, and the probes are inside their shields.
		4.	The aspirator fans are operating.
		5.	The solar radiation sensor is level and has been cleaned.
		6.	The solar panel is facing south and is clean.
		7.	The precipitation gauge is clean and free of bugs and dust.
		8.	The data logger is reading the correct time and day.
		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER PORTLAND
REVIEWED BY RPA 4/16/13 DATE
AUDITED BY KJD 4/15/13 DATE RPA

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	.5 m/s	.41	1.1
Direction* 10m (deg)	W	240.2	250.0
Ambient Temperature (°C)	19°	18.2°	18.03
Relative Humidity (%)	20%	23.2%	24.47
Aspirated Temp 2m	19°	17.4°	17.17
Aspirated Temp 10m	18°	17.1°	17.05
Delta Temperature (°C)	N/A	-.36	-0.118
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	327.1	307.8
Barometric Pressure (mmHg)	N/A	678.5	678.5
Battery Voltage (V)	N/A	12.95	12.96
Time (MST)	N/A	7:42	07:45 L.T.
Date	N/A	04/12/2013	4/12/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap pan & topped precip gauge.

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Invalidated precip at 0745 L.T. due to site oper. maintenance. -KJD

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 04/19/2013 Time: 2:50 Operator: Kara Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓	✓	9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC.
RPA DENVER-FOATLAND 4/29/13
BY DATE
KJD 4/26/13
REVIEWED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	3.3	2.445
Direction* 10m (deg)	SE	150 78	176.6
Ambient Temperature (°C)	24	23.2	23.78
Relative Humidity (%)	8%	3.9	3.644
Aspirated Temp 2m	24	23.5	23.97
Aspirated Temp 10m	23	21.9	22.2
Delta Temperature (°C)	N/A	-1.4	-1.771
Solar Radiation (w/m²)	Sunny / Partly cloudy / Cloudy	844.7	844.0
Barometric Pressure (mmHg)	N/A	683.75	683.6
Battery Voltage (V)	N/A	12.81	12.82
Time (MST)	N/A	2:52	15:00 L.T.
Date	N/A	4/19/2013	4/19/13

14:30 - 286.8
14:45 - 151.9
15:15 - 186.9
15:30 - 244.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge.
Invalidated precip. at 15:00 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kara Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY KJP 5/9/13 DATE

AUDITED BY RPA 5-7-13 DATE

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 5/2/13 Time: 1220 Operator: Tom White

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Strong gusts of 50 m/s

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	15	11.5	9.31 *
Direction* 10m (deg)	~~270°~~ 90°	80°	67.27 *
Ambient Temperature (°C)	25°C	25.23	24.74
Relative Humidity (%)	10%	3.99	4.14
Aspirated Temp 2m		25.37	25.09
Aspirated Temp 10m		23.54	23.41
Delta Temperature (°C)	N/A	-1.67	-1.68
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1069.74	1068.0
Barometric Pressure (mmHg)	N/A	686.10	686.2
Battery Voltage (V)	N/A	12.82	12.83
* Time (MST)	N/A		1230 HRS 15min AVERAGE
* Date	N/A		5.2.13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Fierce winds - periodic gusts of 40-50 m/s

* DOCUMENT REQUIRES COMPLETENESS DURING SITE VISIT, ADVISED CLIENT - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

* MAX WIND GUST FOR 5.2.13 WAS 23 m/s @ 0819 HRS -

Site Operator Signature: T Lee

* NEW SITE OPERATOR, TRAINING REQUIRED — RPA

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 05/10/2013 Time: 11:30 Operator: Kami BaCard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND
RPA 5/17/13
REVIEWED BY DATE
KJD 5/16/13
AUDITED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.7	1.286
Direction* 10m (deg)	E	63.4	234.6
Ambient Temperature (°C)	26°	26.6	26.16
Relative Humidity (%)	15%	15.4	16.26
Aspirated Temp 2m	26°	26.7	25.44
Aspirated Temp 10m	24°	24.3	24.35
Delta Temperature (°C)	N/A	-2.3	-1.096
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1012.8	1006.0
Barometric Pressure (mmHg)	N/A	683.3	683.4
Battery Voltage (V)	N/A	12.78	12.78
Time (MST)	N/A	11:32	11:30 L.T.
Date	N/A	05/10/2013	5/10/13

11:00 - 287.5
11:15 - 261.7
11:45 - 226.8
12:00 - 261.0

11:00 -1.245
11:15 -1.085
11:45 -1.638
12:00 -1.236

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap tank & topped precip. gauge. Invalidated precip. at 11:30 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami BaCard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

5/17/2013 -RPA

Date: 5/17/2013 Time: 10:31 Operator: Kami Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓	✓	9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

RPA — REVIEWED BY — 5/20/13 — DATE

KJD — AUDITED BY — 5/20/13 — DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5m/s	8.5	5.849
Direction* 10m (deg)	SW	216.67	199.0
Ambient Temperature (°C)	30'	29.9	30.03
Relative Humidity (%)	10%	8.2%	8.28
Aspirated Temp 2m	30°	29.4	29.62
Aspirated Temp 10m	29°	27.4	27.23
Delta Temperature (°C)	N/A	-2.01	-2.398
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	958.99	934.0
Barometric Pressure (mmHg)	N/A	681.47	681.5
Battery Voltage (V)	N/A	12.75	12.75
Time (MST)	N/A	5/17/2013	5/17/13
Date	N/A	10:31	10:30 L.T.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap pan & tipped precip gauge. Invalidated precip at 10:45 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 5/24/2013 Time: 7:39 Operator: K. BeCard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND
RPA REVIEWED BY 5/30/13 DATE
KJD AUDITED BY 5/30/13 DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	.5 m/s	.71	0.753
Direction* 10m (deg)	W	256.48	273.8
Ambient Temperature (°C)	26°	26.2	26.28
Relative Humidity (%)	10%	12.69	12.38
Aspirated Temp 2m	26°	24.6	24.63
Aspirated Temp 10m	25°	24.3	24.19
Delta Temperature (°C)	N/A	-0.31	-0.444
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	432.97	413.2
Barometric Pressure (mmHg)	N/A	682.08	682.1
Battery Voltage (V)	N/A	12.77	12.75
Time (MST)	N/A	07:42	07:45 L.T.
Date	N/A	05/24/2013	5/24/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Lipped precip. gauge
Invalidated precip. at 07:45 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary)

Site Operator Signature: Karen BeCard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 5/31/2013 Time: 8:25 Operator: Kara Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA 6/10/13 DATE
AUDITED BY KJD 6/4/13 DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1m/s	.81	1.019
Direction* 10m (deg)	NE	74.58	67.24
Ambient Temperature (°C)	28°	27.3°	27.05
Relative Humidity (%)	30%	32.2	32.43
Aspirated Temp 2m	28°	26.9	26.24
Aspirated Temp 10m	27°	25.4	25.25
Delta Temperature (°C)	N/A	-1.42	-0.992
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	573.02	558.9
Barometric Pressure (mmHg)	N/A	681.71	681.7
Battery Voltage (V)	N/A	12.78	12.78
Time (MST)	N/A	08:29	08:30 L.T.
Date	N/A	05.31.2013	5/31/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled Evap pan & topped precip gauge
Invalidated precip. at 0830 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kara Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06.07.2013 Time: 08:05 Operator: Kami Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND

REVIEWED BY RPA DATE 6/10/13

AUDITED BY KJD DATE 6/10/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	0 m/s	.41 m/s	0.796
Direction* 10m (deg)	SE	136.02	142.4
Ambient Temperature (°C)	30°	32.5	32.8
Relative Humidity (%)	10%	8.7%	8.76
Aspirated Temp 2m	30°	31.9	31.73
Aspirated Temp 10m	29°	31.1	30.91
Delta Temperature (°C)	N/A	-0.96	-0.815
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	505.89	509.6
Barometric Pressure (mmHg)	N/A	679.75	679.7
Battery Voltage (V)	N/A	12.75	12.75
Time (MST)	N/A	8:08	8:15 L.T.
Date	N/A	06.07.2013	6/7/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. gauge.
Invalidated precip. at 8:15 L.T. due to site operator maintenance. - KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: Apr. 13 2013 Time: 3:26 Operator: Kara Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND

RPA 6-24-13
REVIEWED BY DATE

KJD 6/20/13
AUDITED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	5.2	6.117
Direction* 10m (deg)	SW	239.94	248.3
Ambient Temperature (°C)	35°	34.25	34.27
Relative Humidity (%)	15%	13.19	13.2
Aspirated Temp 2m	35°	34.61	34.16
Aspirated Temp 10m	34°	33.92	33.61
Delta Temperature (°C)	N/A	-.73	-0.547
Solar Radiation (w/m^2)	Sunny (Partly cloudy) Cloudy	396.4	361.5
Barometric Pressure (mmHg)	N/A	680.77	680.8
Battery Voltage (V)	N/A	12.69	12.69
Time (MST)	N/A	3:29	15:30
Date	N/A	04/13/13	6/13/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled susp. tank & tipped precip gauge
Invalidated precip. at 15:45 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kara Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06·20·2013 Time: 8:44 Operator: Kara Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND

RPA 6/26/13
REVIEWED BY DATE

KJD 6/25/13
AUDITED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3m/s	4.5	3.799
Direction* 10m (deg)	SW	193.6	165.7
Ambient Temperature (°C)	30°	30.86	30.95
Relative Humidity (%)	10%	7.99 %	8.43
Aspirated Temp 2m	30°	30.79	30.77
Aspirated Temp 10m	29°	29.23	29.1
Delta Temperature (°C)	N/A	-1.61	-1.663
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	664.26	635.8
Barometric Pressure (mmHg)	N/A	680.45	680.5
Battery Voltage (V)	N/A	12.76	12.72
Time (MST)	N/A	8:47	08:45 L.T.
Date	N/A	06.20.2013	6/20/13

8:15 - 146.1
8:30 - 135.1
9:00 - 176.2
9:15 - 180.6

*Direction wind is from

Comments/Unusual Occurrences or Weather: Drilled evap. pan & tipped precip. gauge ~~Rain~~

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Invalidated precip. at 8:45 L.T. due to site operator maintenance. -KJD

Site Operator Signature: Kara Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06.27.2013 Time: 1:36 Operator: Kane BaCard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 7/11/13
AUDITED BY KJD DATE 7/11/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	6 m/s	8.2.	6.228
Direction* 10m (deg)	NW	296.38	247.1
Ambient Temperature (°C)	38	37.39	37.2
Relative Humidity (%)	10%	8.7	8.88
Aspirated Temp 2m	38	37.57	36.97
Aspirated Temp 10m	37	35.88	35.78
Delta Temperature (°C)	N/A	-1.76	-1.185
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	987.34	989.0
Barometric Pressure (mmHg)	N/A	684.14	684.1
Battery Voltage (V)	N/A	12.68	12.68
Time (MST)	N/A	1:40	13:40 L.T.
Date	N/A	06.27.2013	6/27/13

13:15 - 256.9
13:30 - 253.3
14:00 - 250.0
14:15 - 234.3

13:15 -1.108
13:30 -1.029
14:00 -1.129
14:15 -1.394

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. pan

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kane BaCard

Appendix G: West Plant PM_{10} and $PM_{2.5}$ Site Check Forms and Flow Audits

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/03/2013 Time: 12:13 Operator: Kam Bacca

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 3/27 → Maintenance
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 4/16/13
REVIEWED BY DATE
KJD 4/10/13
SUBMITTED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: Kam Bacca

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/12/2013 Time: 7:45 Operator: Kane Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 04/05 → Tape Later
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

AIR SCIENCES INC. DENVER PORTLAND
RPA 4/16/13
REVIEWED BY DATE
KJD 4/15/13 RPA
AUDITED BY DATE

YES	NO		
		KJD	
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	
		1.	Filter tape replaced
		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

"Comments/Unusual Occurrences: _____

Signature: Kane BC

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/19/2013 Time: 14:56 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 4/13 => Power Fail
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 4/29/13 — DATE
KJD — AUDITED BY — 4/26/13 — DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 05/10/2013 Time: 11:34 Operator: K BeCk

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 5/17/13

AUDITED BY KJD DATE 5/16/13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: _____

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/17/2013 Time: 10:36 Operator: Karen B. Dodd

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 5/20/13
REVIEWED BY DATE

KJD 5/20/13
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Filter tape replaced
		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen B. Dodd

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/28/2013 Time: 7:45 Operator: Kim Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/19 Power Fail
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND

RPA — REVIEWED BY — 5/30/13 DATE

KJD — AUDITED BY — 5/30/13 DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		1.	Filter tape replaced
		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Power Fail Reported, Documented and affected data Invalidated – RPA

Signature: Kim Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/31/2013 Time: 8:[illegible] Operator: Kami BaClard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/31 -> ~~BAM Cal Membrane 5%~~ Count Failed
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned (Will do during tape change - KB)

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6/10/13
AUDITED BY KJD DATE 6/4/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Offline since last Friday. -> "Date Error" Ran Self Test function which seemed to fix issue. – KB

Signature: Kami BaClard

AIR SCIENCES INC.
DENVER • PORTLAND

Monthly Flow Verification PM_{10}

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One BAM 1020 PM_{10}: S/N: M3712
Firmware:
Calibrator: DELTA CAL S/N:

Date of Flow Audit: 5/31/2013
Time of Flow Audit: 8:35

	BAM	STD
Ambient Temperature (AT) °c	29.0	27.5
Berometric Pressure mmHg	683.0	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.93	0.469
Acceptable		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
Differential					
(2) Actual Flow	18.4	18.4	0.0	18.36	0.218
Acceptable		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
Differential					
(3) Actual Flow	16.7	16.7	0.0	16.61	0.542
Acceptable		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*
Differential					

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.1	**Should be < 1.0 LPM**

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 6/10/13 — DATE
KJD — AUDITED BY — 6/4/13 — DATE

Comments/Abnormalities:

Signature: Kami B. Cloud

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·07·2013 Time: 8:09 Operator: Kami Ball

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/31 → Count Failed
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 6/10/13
REVIEWED BY DATE

KJD 6/10/13
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Filter tape replaced
		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: 5/31 – 0900 HRS RECORD INVALID – RPA

Signature: Kami Ball

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06/13/2013 Time: 3:31 pm Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7.	Climate control appears operational (if it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
		KJD	1.	Inlet Flow check Performed
			2.	Visual inspection and dust removal
			3.	Leak check performed
			4.	PM10 particle trap cleaned
			5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 6-24-13 — DATE

KJD — AUDITED BY — 6/20/13 — DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
		KJD	1.	Filter tape replaced
			2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
		KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
			2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
		KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·20·2013 Time: 9:01 Operator: Kami BaCCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/18-6/19 → BAM cal 5% Rof Membrane
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 6/26/13
REVIEWED BY DATE
KJD 6/25/13
AUDITED BY DATE

YES	NO		
	✓	1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned – 06-18-2013 - KB

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced > 06-18-2013 - KB
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Changed Tape, cleaned nozzle – Self Test "PASSED". Removed & Cleaned Teflon membrane

Signature: Kami BaCCard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06.27.2013 Time: 1:42 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/25 → Count failed
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 7/11/13
REVIEWED BY DATE
KJD 7/11/13
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: Karen Ballard

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 PM_{10}: S/N: 8712

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 06·27·2013

Time of Flow Audit: 13:46

	BAM	STD
Ambient Temperature (AT) °c	37.0	37.4
Berometric Pressure mmHg	682	684.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15	0.0	14.94	0.402
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.0	18.3	0.546
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.61	0.542
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.1	**Should be < 1.0 LPM**

AIR SCIENCES INC. DENVER · PORTLAND

RPA 7/11/13
REVIEWED BY DATE

KJD 7/11/13
AUDITED BY DATE

Comments/Abnormalities: Ran Self Test → PASSED

Signature: Kim Ballard

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/5/2013 Time: ~~12:15~~ 12:18 Operator: Kara McCord

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 3/27 -> Maintenance
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 4/16/13
REVIEWED BY DATE

KJD 4/10/13
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: [signature]

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 04·12·2013 Time: 7:39 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 3/27 → Maintenance
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ (KJD)	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
RPA 4/16/13
REVIEWED BY DATE
KJD 4/15/13
AUDITED BY DATE
RPA

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ (KJD)	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ (KJD)	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ (KJD)	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 04/19/2013 Time: 14:51 Operator: Kane Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 4/13 ⇒ Power Fail
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed 0.4
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 4/26/13
REVIEWED BY DATE

KJD 4/26/13
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Nitrate 72 hr background calibration (04-19-2013)

Signature: Kane Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/2/13 Time: 1220 Operator: TEW

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
	✓	6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Inlet Flow check Performed
	✓ RPA	2.	Visual inspection and dust removal
	✓ RPA	3.	Leak check performed
	✓ RPA	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓ RPA	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY KJD DATE 5/9/13
AUDITED BY RPA DATE 5-7-13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Filter tape replaced
	✓ RPA	2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓ RPA	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓ RPA	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kam Bell

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 05/10/2013 Time: 11:33 Operator: K BaCh

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
	✓	KJD	1.	Inlet Flow check Performed
	✓		2.	Visual inspection and dust removal
	✓		3.	Leak check performed
	✓		4.	PM10 and 2.5 cyclone particle trap cleaned
	✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 5/17/13

AUDITED BY KJD DATE 5/16/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
	✓	KJD	1.	Filter tape replaced
	✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
	✓	KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO			
	✓	KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: _____

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/17/2013 Time: 10:37 Operator: Kathy Bell

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 5/20/13
REVIEWED BY DATE

KJD 5/20/13
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kathy Bell

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/24/2013 Time: 7:44 Operator: Kara BaCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/19 Power Fail
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 5/30/13 — DATE
KJD — AUDITED BY — 5/30/13 — DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Power Fail Reported, Documented and affected data invalidated - RPA

Signature: Kara BaCard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/31/2013 Time: 8:29 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/28 -> BAM Cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned (will do when I change tape. - KB)

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 6/10/13 — DATE

KJD — AUDITED BY — 6/4/13 — DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

Monthly Flow Verification $PM_{2.5}$

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: M8193
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 5/31/2013
Time of Flow Audit: 8:45 am

	BAM	STD
Ambient Temperature (AT) °c	27.1	28.1
Berometric Pressure mmHg	683	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.93	0.469
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.0	18.50	0.541
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.70	0.000
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 6/10/13
REVIEWED BY DATE
KJD 6/4/13
AUDITED BY DATE

Comments/Abnormalities:

Signature: Kam Bailey

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·07·2013 Time: 08:10 Operator: Kam Ball

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 06/03 → 06/07 - BAM CAL Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

KJD

AIR SCIENCES INC.
DENVER • PORTLAND
RPM 6/10/13
ENTERED BY DATE
KJD 6/10/13
VERIFIED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

KJD

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

KJD

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

KJD

"Comments/Unusual Occurrences: Cleaned reference membrane. Ran self-test. Self-Test; PASSED

Signature: K Ba

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·13·2013 Time: 15:30 Operator: K. BaClard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 06/07 → BAM Cal Membrane SG
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 and 2.5 cyclone particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

KJD

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 6-24-13
REVIEWED BY DATE

KJD 6/20/13
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Filter tape replaced
		2.	Ran the Self-Test function

KJD

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

KJD

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

KJD

**Comments/Unusual Occurrences: _____

Signature: Karen BaClard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·20 2013 Time: 8:49 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/18 to 6/20 ⇒ BAM Cal Ref Membrane 5 6/6
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 6/26/13
REVIEWED BY DATE

KJD 6/25/13
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Changed tape & Cleaned Nozzle ⇒ Self Test "Passed" Removed & Cleaned reference membrane.

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·27·2013 Time: 1:43 Operator: Kam Bal

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/20 BAM cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY KPA 7/11/13
AUDITED BY KJD 7/11/13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences) KJD
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) KJD
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kam Bal

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 7/3/13
AUDITED BY DATE

8-1-13

AIR SCIENCES INC.
DENVER • PORTLAND

Monthly Flow Verification $PM_{2.5}$

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: 5193
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 06·27·2013
Time of Flow Audit: 13:53

	BAM	STD
Ambient Temperature (AT) °c	35.9	39.2
Berometric Pressure mmHg	686	685

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.9	.7
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.47	.4
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.7	0
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.7	**Should be < 1.0 LPM**

Comments/Abnormalities: Ran Self Test – PASSED

Signature: Kyme Bella

Upon completion of this form, fax to Air Sciences at 303-279-3796

Appendix H: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 04-04-2013 Time: 1:07 Operator: Tami Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC
DENVER
RPA 4/16/13
REVIEWED BY
KJD 4/10/13
AUDITED BY

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.9	2.655
Direction* 10m (deg)	SW	193.2	168.6
Ambient Temperature (°C)	24°	24.2	24.47
Relative Humidity (%)	10%	10.9	10.28
Aspirated Temp 2m	24°	24.0	24.02
Aspirated Temp 10m	23°	22.6	22.56
Delta Temperature (°C)	N/A	-1.5	-1.464
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1028.5	944.0
Barometric Pressure (mmHg)	N/A	654.4	654.4
Battery Voltage (V)	N/A	12.7	12.72
Time (MST)	N/A	1:11PM	13:15 L.T.
Date	N/A	4/04/2013	

12:45 - 125.5
13:00 - 150.9
13:30 - 148.2
13:45 - 151.5

*Direction wind is from

Comments/Unusual Occurrences or Weather: tipped precip guage.
Invalidated precip. at 13:30 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Tami Ballard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 04/11/2013 Time: 4:12 Operator: Tom Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4-17-13
AUDITED BY DATE 4.16.13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2m/s	3.8 m/s	2.6
Direction* 10m (deg)	W	249.3	238.4
Ambient Temperature (°C)	20°	19.6	19.73
Relative Humidity (%)	15%	15.3%	16.25
Aspirated Temp 2m	20°	18.4°	~~18.21~~
Aspirated Temp 10m	19°	17.8°	RPA ~~18.21~~ 17.99
Delta Temperature (°C)	N/A	-.74	-0.8
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	433.1	~~9468~~
Barometric Pressure (mmHg)	N/A	649.2	649.2
Battery Voltage (V)	N/A	12.78	12.78
Time (MST)	N/A	4:15	~~1650 Hrs L.T.~~ ← 16:15 LT
Date	N/A	4/11/2013	4/11/13

15:45 18.8
16:00 18.9
16:15 18.8
16:30 19.0

15:45 597
16:00 472
16:15 566
16:30 394

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap tank topped precip. gauge
INVALIDATED 0.024" OF RECORDED PRECIP @ 1630 Hrs - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Tom Ballard

AIR SCIENCES INC.

REVIEWED BY RPA DATE 4-29-13

AUDITED BY DATE 4-25-13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 04·19·2013 Time: 3:36 Operator: Karen Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3m/s	1.8	2.68
Direction* 10m (deg)	W	264.5	259.0
Ambient Temperature (°C)	22°	21.9	21.31
Relative Humidity (%)	5%	3.9	4.28
Aspirated Temp 2m	22°	20.1	20.21
Aspirated Temp 10m	21°	18.9	19.08
Delta Temperature (°C)	N/A	~~18.~~ -0.94	-1.13
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	687.13	687.7
Barometric Pressure (mmHg)	N/A	653.61	653.6
Battery Voltage (V)	N/A	12.75	12.75
Time (MST)	N/A	3:38	1545 Hrs L.T.
Date	N/A	4·19·2013	4-19-2013

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 5-9-13

AUDITED BY DATE 5-7-13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 05/02/2013 Time: 12:35 Operator: Kami Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	10 m/s	8.6	8.4
Direction* 10m (deg)	W	44.03 *	39.14
Ambient Temperature (°C)	23°	22.2	22.28
Relative Humidity (%)	8%	5.5	5.375
Aspirated Temp 2m	23°	22.4	22.41
Aspirated Temp 10m	21°	20.9	20.70
Delta Temperature (°C)	N/A	-1.5	-1.712
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1076.7	1077.0
Barometric Pressure (mmHg)	N/A	656.8	656.8
Battery Voltage (V)	N/A	12.78	12.78
Time (MST)	N/A	12:39	1245 HRS
Date	N/A	5/02/2013	5-2-2013

*Direction wind is from * 44° ≃ NE ≠ W will verify with primary contact.

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 5/14/13

AUDITED BY WHW DATE 6/11/13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 5/10/2013 Time: 11:55 Operator: Karen McCord

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	1.3	2.12
Direction* 10m (deg)	W	253.5	301.0
Ambient Temperature (°C)	24	23.5	23.6
Relative Humidity (%)	15%	19.5	19
Aspirated Temp 2m	24	23.0	22.5
Aspirated Temp 10m	22	21.7	21.4
Delta Temperature (°C)	N/A	-1.3	-1.12
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1071.2	1068
Barometric Pressure (mmHg)	N/A	653.8	654
Battery Voltage (V)	N/A	12.71	12.7
Time (MST)	N/A	11:59	1200 Hrs 15 min Ave
Date	N/A	05/10/2013	5/10/13

15 min Ave Above/Below
231.0
233.0
315.0
246.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. tank

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen McCord

AIR SCIENCES INC
DENVER • PORTLAND

WHW 6/11/13
REVIEWED BY DATE
RPA 5/30/13
AUDITED BY DATE

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 05/24/2013 Time: 8:22 Operator: Kara Bellard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.02	2.11
Direction* 10m (deg)	SW	218.95	128.4 *
Ambient Temperature (°C)	24°	24.1	24.2
Relative Humidity (%)	18%	21.5	20.32
Aspirated Temp 2m	24°	23.1	23.84
Aspirated Temp 10m	23°	22.03	22.31
Delta Temperature (°C)	* N/A	-.95	-0.99
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	647.17	644.7
Barometric Pressure (mmHg)	N/A	653.23	653.3
Battery Voltage (V)	N/A	12.73	12.73
Time (MST)	N/A	8:24	0830 Hrs Data Record
Date	N/A	05/24/2013	5-24-13

* x² 15 min. Avg. ABOVE AND BELOW THE 0800 HRS Record
0800 - 42.89
0815 - 91.6
0845 - 112.1
0900 - 134.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. pan - TRIGGERING OF THE Precip gauge required; EVAP DATA INVALIDATED DUE TO SERVICING - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

* WIND DIRECTION VALUES ON SITE FROM THE LOGGER ARE NOT REPRESENTATIVE OF THE 15 MIN AVERAGE Audited. FURTHER INVESTIGATION WARRENTED - RPA

Site Operator Signature: Kara Bellard

AIR SCIENCES INC.

REVIEWED BY [signature] DATE 6.12.13

ENTERED BY RPA DATE 6/10/13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 5/31/2013 Time: 12:50 Operator: K. Ballard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	1.8	2.5
Direction* 10m (deg)	SW	225.9	216.8
Ambient Temperature (°C)	26°	28.5	28.52
Relative Humidity (%)	15%	20.7	20.79
Aspirated Temp 2m	26°	28.3	27.77
Aspirated Temp 10m	25°	26.4	26.35
Delta Temperature (°C)	N/A	-1.88	-1.419
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1076 753	1055.0
Barometric Pressure (mmHg)	N/A	652.03	652.2
Battery Voltage (V)	N/A	12.66	12.66
Time (MST)	N/A	*	1230 HRS DATA FILE
Date	N/A	05.31.2013	5-31-2013

*Direction wind is from

Comments/Unusual Occurrences or Weather: * MISSING TIME, USE MOST ACCURATE DATA RECORD FOR AUDIT - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: [signature]

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6.12.13
AUDITED BY DATE 6/10/13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06/06/2013 Time: 10:42 Operator: Kara Bell

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger *	Audit
Speed 10m (m/s)	1 m/s	.82	2.947
Direction* 10m (deg)	SW	238.65	236.6
Ambient Temperature (°C)	29°	30.1	30.3
Relative Humidity (%)	12%	9.1	9.2
Aspirated Temp 2m	29°	28.9	29.04
Aspirated Temp 10m	28°	28.3	28.04
Delta Temperature (°C)	N/A	-0.93	-1.008
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	991.74	984.0
Barometric Pressure (mmHg)	N/A	651.65	651.70
Battery Voltage (V)	N/A	12.63	12.63
Time (MST)	N/A	10:43	1045 HRS RECORD
Date	N/A	06-06-2013	6-6-13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Jelled Evap. INVALIDATES THE HOURLY TOTAL EVAP VALVE AS A RESULT OF TANK SERVICING / FILLING - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kara Bell

AIR SCIENCES INC. PORTLAND

REVIEWED BY RPA DATE 6-27-13

AUDITED BY DATE 6-19-13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06-14-2013 Time: 1:24 Operator: Kara BaCard

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓	✓	9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	2.7	2.85
Direction* 10m (deg)	W	281.9	233.1
Ambient Temperature (°C)	32°	31.5	31.91
Relative Humidity (%)	15%	16.3	15.62
Aspirated Temp 2m	32°	31.9	31.42
Aspirated Temp 10m	31°	30.3	29.78
Delta Temperature (°C)	N/A	-1.6	-1.637
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	988.74	994.0
Barometric Pressure (mmHg)	N/A	652.42	652.4
Battery Voltage (V)	N/A	12.61	12.62
Time (MST)	N/A	1:29	1330 Hrs, 15 min Aver. Record
Date	N/A	06-14-2013	

15 min Aver. ABOVE/Below @ 1330 HRS
- 251.5
- 245.6
- 219.7
- 231.8

*Direction wind is from

Comments/Unusual Occurrences or Weather: * 2 SEC SCAN VALVE IS NOT +/- 20° OF THE AUDITED 15 min AVE VALVE. VISUAL CONFERMATION OF THE WD VANE BY ASI ON 6-18-13 WAS COMPLETED THAT RESULTED IN CREDITABLE WD ORIENTATION

FURTHER ALIGNMENT VERIFICATION WARRENTED AND PLANNED FOR JULY 2013 AUDIT. — RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kara BaCard

AIR SCIENCES INC.

AIR SCIENCES INC.
REVIEWED BY: [signature] DATE: 6-27-2013
AUDITED BY: RPA DATE: 6-24-13

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 06-22-2013 Time: 14:37 Operator: K. BaCOck

YES	NO **		
✓		1.	The tower is intact and upright. -
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	3.84	2.83
Direction* 10m (deg)	NW	282.60	273.4
Ambient Temperature (°C)	32°	31.95	31.85
Relative Humidity (%)	8%	4.99	5.78
Aspirated Temp 2m	32°	30.68	31.37
Aspirated Temp 10m	31°	30.08	30.66
Delta Temperature (°C)	N/A	-0.85	-0.709
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	786.44	515
Barometric Pressure (mmHg)	N/A	651.93	650.9
Battery Voltage (V)	N/A	12.61	12.61
Time (MST)	N/A	14:40	1445 HRS 15 min AVE
Date	N/A	04-22-2013	6-22-13

TWO VALUES ABOVE AND BELOW.
877
695
362
556

*Direction wind is from

Comments/Unusual Occurrences or Weather: Repeated computer.

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: K. BaCOck

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 8-1-13
AUDITED BY DATE 7/3/13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 6-28-13 Time: 13:20 Operator: K. Balk

YES	NO **		
✓		1.	The tower is intact and upright.
✓		2.	The anemometer propeller and the wind direction vane are turning freely.
✓		3.	All temperature shields are intact, and the probes are inside their shields.
✓		4.	The aspirator fans are operating.
✓		5.	The solar radiation sensor is level and has been cleaned.
✓		6.	The solar panel is facing south and is clean.
✓		7.	The precipitation gauge is clean and free of bugs and dust.
✓		8.	The data logger is reading the correct time and day.
✓		9.	The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10.	Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 mph	4.4	2.57
Direction* 10m (deg)	S	180	200.5
Ambient Temperature (°C)		37.01	36.64
Relative Humidity (%)	10%	10.9	11.21
Aspirated Temp 2m		36.79	35.88
Aspirated Temp 10m		34.08	34.27
Delta Temperature (°C)	N/A	2.32	-1.605
Solar Radiation (w/m²)	~~Sunny~~ Partly cloudy ~~Cloudy~~	805	956
Barometric Pressure (mmHg)	N/A	653.98	654.0
Battery Voltage (V)	N/A	12.58	12.58
Time (MST)	N/A	1:26	1330 hrs record
Date	N/A	6-28-13	6-28-13

x2 ABOVE/Below 1330
213.3
243.7
186.4
175.6

*Direction wind is from

Comments/Unusual Occurrences or Weather: * filled evap pan - Topped precip. gauge
INVALIDATED 0.043" of precip recorded @ 1330 hrs - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: K. Balk

Appendix I: East Plant PM_{10} and $PM_{2.5}$ Site Check Forms and Flow Audits

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 4/04/2013 Time: 1:13 pm Operator: Tom BeCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 3/27 → Maintenance
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER PORTLAND
RPA 4/16/13
REVIEWED BY DATE
KJD 4/10/13
AUDITED BY

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD 1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD 1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: _____

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 4/11/2013 Time: 4:15 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. PORTLAND
REVIEWED BY: RPA DATE: 4-16-13
AUDITED BY: DATE: 4-17-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: _____

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4-19-2013 Time: 15:41 Operator: Kyra Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 4/19 → Reference Extend
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 4-29-13
AUDITED BY DATE 4-25-13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Filter tape replaced
		2.	Ran the Self-Test function

RPA

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

*Comments/Unusual Occurrences: INVALIDATED THE HOURLY CONCENTRATIONS REPORTED ON 4-19-13 @ 0200 HRS DUE TO A REF. MEMBRANE ERROR — RPA

Signature: Kyra Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5·2·2013 Time: 12:39 Operator: Karen BaCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 05/02 ⇒ Maintenance
✓		7.	Climate control appears operational (if it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 5-7-13
ENTERED BY DATE 5-7-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: INVALIDATED THE 1300 HRS HOURLY PM10 CONCENTRATION ON 5-2-13 DUE TO MAINT. -RPA

Signature: Karen BaCard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/10/2013 Time: 12:02 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/02 Maintenance
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

WHW — REVIEWED BY — 6/11/13 — DATE
RPA — AUDITED BY — 5/14/13 — DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: K. Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 5/7/2013 Time: 11:16 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/14 -Reference Extend ??
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

WHW 6/11
REVIEWED BY DATE

RPA 5-20-13
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

RPA

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

*Comments/Unusual Occurrences: NOTED REF. MEMBRANE ERROR FOR THE 1000 HRS ON 5-16-13, FURTHER MONITORING WARRENTED PRIOR TO INVALIDATION. -RPA

Signature: Kami Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/24/2013 Time: 8:24 Operator: Kevin Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/21 → BAM col Membrane 50% 5/22 → Ref extend
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

WHW — 6-11-13
REVIEWED BY — DATE

RPA — 5-30-13
AUDITED BY — DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Filter tape replaced
		2.	Ran the Self-Test function

RPA

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

*Comments/Unusual Occurrences: Membrane errors reported shall be addressed by the site tech; cleaning of the membrane required during next visit. -RPA

Signature: [signature]

AIR SCIENCES INC.

REVIEWED BY [signature] DATE 6.12.13

AUDITED BY RPA DATE 6/10/13

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 5-31-13 Time: 12:59 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). Maintenance End of Records 5-31-13
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned will clean during tape change

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	RPA	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	RPA	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	RPA	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	RPA	2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: No Sig

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [signature] DATE 6-12-13

AUDITED BY [signature] DATE 6/10/13

AIR SCIENCES INC.
DENVER • PORTLAND

Monthly Flow Verification PM_{10}

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One PM_{10}: S/N: M8714
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 5-31-2013
Time of Flow Audit: 13:05

	BAM	STD
Ambient Temperature (AT) °c	28.0	29.6
Berometric Pressure mmHg	654	652.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.7	14.91	1.3
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.5	18.16	0.8
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.55	0.9
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test - Passed

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [signature] DATE 6-12-13

AUDITED BY RPA DATE 6/31/13

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06/06/2013 Time: 10:48 Operator: Kami BaClard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). June 5 → Tape Break
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: MONITOR OUT OF SAMPLE TAPE 1900 HRS – 6/5/13 THRU 6/6/13 – 1100 HRS – RPA

Signature: Kami BaClard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·14·2013 Time: 13:31 Operator: Kara Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 06/06 -> Tape Tension
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6·27·13
AUDITED BY DATE 6-19-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

RPA

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

*Comments/Unusual Occurrences: _____

Signature: Kara Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 06.29.2013 Time: 14:41 Operator: K. BaCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 06/06 → Tape Tension
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-24-13
AUDITED BY DATE 6.27.13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
		1.	Filter tape replaced
		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: K. BaCard

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA DATE 7/3/13

INITIATED BY: DATE 8-1-13

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC. DENVER • PORTLAND

Date: 06-28-2013 Time: 13:28 Operator: ~~Karen~~ Kara BaClard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). ~~DGT~~
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: INVALIDATED THE 1400 HRS DATA SET DUE TO MONTHLY FLOW VERIFICATIONS – RPA

Signature: Kara BaClard

7/31/13 DATE RPA AUDITED BY

DATE REVIEWED BY

8-1-13 AIR SCIENCES INC.

AIR SCIENCES INC

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One PM_{10}: S/N: ML6466

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 06.28.2013

Time of Flow Audit: 13:31

	BAM	STD
Ambient Temperature (AT) °c	37.7	37.2
Berometric Pressure mmHg	649	649

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.78	1.5
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	-0.5	17.95	1.9
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.9	1.2	16.32	3.6
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed

Signature: Kami Bullard

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/4/2013 Time: 1:00 pm Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 3/31 through 04/04 → BAM cal Membrane 50%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

AIR SCIENCES INC. DENVER - PORTLAND
RPA 4/16/13
REVIEWED BY DATE
KJD 4/10/13
AUDITED BY DATE

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ KJD	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 4/11/2013 Time: 4:17 Operator: Lonie Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 04/07 – 04/11 BAM Cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Inlet Flow check Performed
		2.	Visual inspection and dust removal
		3.	Leak check performed
		4.	PM10 and 2.5 cyclone particle trap cleaned
		5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4-17-13
AUDITED BY DATE 4-16-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Filter tape replaced
		2.	Ran the Self-Test function

RPA

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

**Comments/Unusual Occurrences: _____

Signature: _____

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 4. 19. 2013 Time: 15:45 Operator: Kara BaClard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 4/15 – 4/19 → BAM Cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed 0.4
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4-25-13
AUDITED BY DATE 4-29-13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPK	
		1.	Filter tape replaced
		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPK	
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPK	
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Orchated 72hr. bkgd calibration

Signature: Kara BaClard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 5/02/2013 Time: 12:41 Operator: Kami BaCara

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 4/23 ⇒ Maintenance ⇒ BAM Cal Minpram 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY: RPA	DATE: 5-9-13
AUDITED BY:	DATE: 5.7.13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: INSTRUMENT MAINT. BY ASI ON 4.23-13 FROM 1300 - 1900 HRS — RPA

Signature: Kami BaCara

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/10/2013 Time: 12:00 Operator: K Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual).
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY: WHW DATE: 6/11/13
REVIEWED BY: RPA DATE: 5/14/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: K Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER | PORTLAND

Date: 5-17-2013 Time: 11:17 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER | PORTLAND
REVIEWED BY: WHW DATE: 6/11/13
AUDITED BY: RPA DATE: 5-20-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/24/2013 Time: 8:27 Operator: Kara Bolla

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/22 – 5/24 → BAM Cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY: RPA DATE: 5-30-13
AUDITED BY: WHW DATE: 6-11-13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓ RPA	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

Comments/Unusual Occurrences: Membrane errors reported shall be addressed by the site operator; cleaning of the membrane. – RPA

Signature:

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

6.12.13 DATE
RPA
4/10/13 DATE
DATE

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 05.31.2013 Time: 13:00 Operator: Kam BaCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 5/29 → BAM cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned (Will clean during tape change)

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kam BaCard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER - PORTLAND

REVIEWED BY [signature] DATE 6.12.13

AUDITED BY RPA DATE 6/10/13

AIR SCIENCES INC.
DENVER - PORTLAND

Monthly Flow Verification $PM_{2.5}$

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: M64664
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 5/31/2013
Time of Flow Audit: 13:10

	BAM	STD
Ambient Temperature (AT) °c	28.2	28.8
Berometric Pressure mmHg	649	652.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.88	0.8
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***
(2) Actual Flow	18.4	18.5	0.5	18.06	2.4
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.47	1.4
Acceptable Differential		***16.336 - 17.034***	***+/- 2%***	***15.865 - 17.535***	***+/- 5%***

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self-Test Passed.

Signature: Kam Ballard

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·06·2013 Time: 10:45 Operator: Kami BaClard

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). June 3/4 → BAM CAL Membrane June 5 → Tape Break
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RMA DATE 6·12·13
AUDITED BY DATE 6/10/13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Replaced muffler on the pump (*Work performed by Air Sciences)
		2.	Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2.	Inlet system cleaned (*Work performed by Air Sciences)

Comments/Unusual Occurrences: MONITOR OUT OF SAMPLE TAPE 1400 HRS - 6/5 THRU 6/6/13 - 1100 HRS - RMA

Signature: Kami BaClard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 06-13-13 Time: 13:34 Operator: Kara Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/13 -> BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Inlet Flow check Performed
		2. Visual inspection and dust removal
		3. Leak check performed
		4. PM10 and 2.5 cyclone particle trap cleaned
		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
REVIEWED BY RPA DATE 6-19-13
AUDITED BY DATE
6-27-13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Filter tape replaced
		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Replaced muffler on the pump (*Work performed by Air Sciences)
		2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: VISUAL INSPECTION OF THE MONITOR ~~FOUND~~ COMPLETED ON 6-12-13, NO ABNORMALITY NOTED. -RPA

Signature: Kara Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06.22.2013 Time: 14:43 Operator: K. BeCCa

I. BAM SAMPLER – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/09 6/21 → BAM Cal Membrane 5%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Inlet Flow check Performed
	✓	2.	Visual inspection and dust removal
	✓	3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
	✓	5.	Inlet nozzle and nozzle are cleaned

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6.27.13
AUDITED BY DATE 6-24-13

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
	✓	2.	Ran the Self-Test function

RPA

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2.	Complete calibration of flow system (*Work performed by Air Sciences)

RPA

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

RPA

**Comments/Unusual Occurrences: _____

Signature: _____

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06·28·2013 Time: 13:27 Operator: K. BaCard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO		
✓		1.	The sampler is intact and the inlet head is unobstructed.
✓		2.	The vacuum pump is running and sounds normal.
✓		3.	The temperature shield is intact, and the sensor is inside of it.
✓		4.	The BAM is reading the correct time and day.
✓		5.	The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 6/24 → 06/28 → BAM Cal 6%
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
✓		1.	Inlet Flow check Performed
✓		2.	Visual inspection and dust removal
✓		3.	Leak check performed
	✓	4.	PM10 and 2.5 cyclone particle trap cleaned
✓		5.	Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 8-1-13
AUDITED BY DATE 7/3/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	1.	Filter tape replaced
✓		2.	Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: INVALIDATES THE 1400 HRS DATA SET DUE TO MONTHLY FLOW VERIFICATIONS – RPA

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [signature] DATE 8-1-13

AUDITED BY RPA DATE 7/5/13

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: M3714

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 06-28-2013

Time of Flow Audit: 13:31

	BAM	STD
Ambient Temperature (AT) °c	36.8	36.0
Berometric Pressure mmHg	656	654

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.7	14.8	2.0
Acceptable		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	
Differential					*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.5	18.06	1.3
Acceptable		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	
Differential					*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.48	1.3
Acceptable		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	
Differential					*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test PASSED

Signature: Kathi McClard

Upon completion of this form, fax to Air Sciences at 303-279-3796

Appendix J: East Plant SO_2, NO_x, and O_3 Site Check and Audit Forms

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 4-17-13
AUDITED BY DATE 4.16.13

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: Kami BaCard **Date:** 04/11/2013

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	16:32 LT
Instrument Check Stop Time	16:45 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	18.7
Instrument Range	500 PPB
Source Gas Conc.	40% SO_2

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-.18	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	100.2	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	-.18	-.16	± 2 PPB	No RPA
100 PPB	100.2	100.5	± 2 PPB	No RPA

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	464	*Sample Press. (Ambient ± 2 in-Hg)*	23.8
UV Lamp (1000 - 4800 mV)	2962.6	*Lamp Ratio (30 - 120%)*	82.5
Slope (1 ± 0.3)	1.136	*BOX Temp. (Ambient ± 5°C)*	32.6
Offset (< 250 mV)	18.5	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED THE 1700 HRS RECORD ON 4/11/13 – RPA

Operator Signature: Kami BaCard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [signature] DATE 5-9-13
AUDITED BY RPA DATE 5.7.13

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST
SO_2 Monitoring Form

Site Operator: Ramie Ballard Date: 5/02/2013

Sampler Make/Model		T 100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	———

Instrument Check Start Time	12:55LT
Instrument Check Stop Time	13:05 LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	24.1
Instrument Range	500 PPB
Source Gas Conc.	40% 80%*

* SO_2

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.087	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	96.4	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.087	.35	± 2 PPB	No
100 PPB	96.4	96.7	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	459	*Sample Press. (Ambient ± 2 in-Hg)*	24.1
UV Lamp (1000 - 4800 mV)	2942.6	*Lamp Ratio (30 - 120%)*	82.1
Slope (1 ± 0.3)	1.089	*BOX Temp. (Ambient ± 5°C)*	33 **
Offset (< 250 mV)	18.1	*HVPS (400 - 900 V)*	571

Operator comments/observations: ** Box Temp slightly above range, continue to observe for further variances – RPA

Operator Signature: [signature]

Invalidated hourly concentrations for SO_2 from 1300 - 1400 hrs on 5-2-13
RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WHW 6-11-13
AUDITED BY RPA 5-20-13

AIR SCIENCES INC.
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Resolution EAST

SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 5/17/2013

Sampler Make/Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	11:35 LT
Instrument Check Stop Time	11:44 LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	22.3
Instrument Range	500 PPB
Source Gas Conc.	~~40%~~ 80 40 ppm Sulfur Dioxide RPA

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.33	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	96.8	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.33	.74	± 2 PPB	No
100 PPB	96.8	97.5	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	454	*Sample Press. (Ambient ± 2 in-Hg)*	24.0
UV Lamp (1000 - 4800 mV)	2934.6	*Lamp Ratio (30 - 120%)*	81.8
Slope (1 ± 0.3)	1.089	*BOX Temp. (Ambient ± 5°C)*	30.9
Offset (< 250 mV)	18.1	*HVPS (400 - 900 V)*	571

Operator comments/observations:

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND
6.13.13
REVIEWED BY RPK DATE 6/10/13
ENTERED BY DATE

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 5.31.2013

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700 / SN 191
	Transfer	—

Instrument Check Start Time	13:37
Instrument Check Stop Time	13:48
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	21.7
Instrument Range	500 PPB
Source Gas Conc.	~~40% SO~~ 40 ppm

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.034	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	97.67	—	≤ ± 10% (90 to 110 PPB)	

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.034	.161	± 2 PPB	No
100 PPB	97.67	98.3	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	448	*Sample Press. (Ambient ± 2 in-Hg)*	24.00
UV Lamp (1000 - 4800 mV)	2921.7	*Lamp Ratio (30 - 120%)*	81.5
Slope (1 ± 0.3)	1.089	*BOX Temp. (Ambient ± 5°C)*	~~37~~ 30.8
Offset (< 250 mV)	18.1	*HVPS (400 - 900 V)*	571

Operator comments/observations:
* Was not filled out.

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6-19-13
AUDITED BY DATE 6-27-13

Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami BaClard Date: 6-14-2013

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700 / SN 191
	Transfer	—

Instrument Check Start Time	14:03 LT
Instrument Check Stop Time	14:21 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.5
Instrument Range	500 PPB
Source Gas Conc.	40% 80

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.536	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	89.56	100.56	≤ ± 10% (90 to 110 PPB)	Yes

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	-0.536	-0.348	± 2 PPB	No
100 PPB	100.56	100.82	± 2 PPB	Yes

After calibration

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	446	*Sample Press. (Ambient ± 2 in-Hg)*	24.1
UV Lamp (1000 - 4800 mV)	2884.6	*Lamp Ratio (30 - 120%)*	80.4
Slope (1 ± 0.3)	1.093	*BOX Temp. (Ambient ± 5°C)*	30.7
Offset (< 250 mV)	18.9	*HVPS (400 - 900 V)*	071

Operator comments/observations:

Operator Signature: Kami BaClard

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-19-13
AUDITED BY DATE
6·27·13

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST
SO_2 Monitoring Form

Site Operator: RORY ATTRIDGE **Date:** 6-18-2013

Sampler Make /Model		T 100
Sampler SN		93
Dilution Calibrator Model/SN	Primary	T700/191
	Transfer	N/A

Instrument Check Start Time	1030
Instrument Check Stop Time	1330
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.4
Instrument Range	500 ppb
Source Gas Conc.	40 ppm SO

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.270	0.154	± 3% of Full Scale (-15 to 15 PPB)	NO
100	110.300	99.980	≤ ± 10% (90 to 110 PPB)	YES

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.154	0.671	± 2 PPB	NO
100 PPB	99.980	100.400	± 2 PPB	NO

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	423	*Sample Press. (Ambient ± 2 in-Hg)*	23.7
UV Lamp (1000 - 4800 mV)	2858.9	*Lamp Ratio (30 - 120%)*	79.9
Slope (1 ± 0.3)	1.211	*BOX Temp. (Ambient ± 5°C)*	30.9
Offset (< 250 mV)	18.6	*HVPS (400 - 900 V)*	571

Operator comments/observations:
LEVEL 1 ZERO/SPAN COMPLETED AFTER ANNUAL SERVICING OF THE M701 ZERO AIR GENERATOR. **Operator Signature:**

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AUDITED BY DATE 4-16-13

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami BaCord **Date:** 4/11/2013

Sampler Make /Model		T200
Sampler SN		SN #197
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	4:19 LT
Instrument Check Stop Time	4:32 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	22.2
Instrument Range	500 PPB
Source Gas Conc.	40% NO

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.1	-0.3	-0.2	—	±3% of full Scale (±15 PPB)	N
100 PPB	95.1	1.3	96.4	—	≤±10% (90 to 110 PPB)	N

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	0.1	NO	-.56	±2 PPB	N
	NO_2	-0.3	NO_2	-1.4		
	NO_x	-0.2	NO_x	-1.2		
100 PPB	NO	95.1	NO	94.9	±2 PPB	N
	NO_2	1.3	NO_2	1.0		
	NO_x	96.4	NO_x	96.3		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	499	*Moly Temp. (315 ± 5°C)*	317
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.133	*NO Slope (1 ± 0.3)*	1.115
NOx Offset (0 ± 100)	6.0	*NO Offset (0 ± 100)*	1.0

Operator comments/observations:
INVALIDATED THE 1700 HRS RECORD ON 4-11-13 / RPA

Operator Signature: Kami BaCord

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AUDITED BY DATE 5.7.13

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Ballard Date: 5.02.2013

Sampler Make /Model		T200
Sampler SN		~~SN~~ 197
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	12:41 LT
Instrument Check Stop Time	12:54 LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	24.24
Instrument Range	500 PPB
Source Gas Conc.	40% No

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-.1	-.1	-.2	—	±3% of full Scale (±15 PPB)	No
100 PPB	98	1.1	99.1	—	≤±10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-.1	NO	-.3	±2 PPB	No
	NO_2	-.1	NO_2	-.3		
	NO_x	-.2	NO_x	-.2		
100 PPB	NO	98	NO	97.7	±2 PPB	No
	NO_2	1.1	NO_2	1.01		
	NO_x	99.1	NO_x	98.9		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	506	*Moly Temp. (315 ± 5°C)*	316.2
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.140	*NO Slope (1 ± 0.3)*	1.130
NOx Offset (0 ± 100)	4.6	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

INVALIDATED THE 1300 HRS HOURLY CONCENTRATION FOR NOX ON 5.2.13 - RPA

Operator Signature: Kami Ballard

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WHW 6-11-13
REVIEWED BY DATE
RPA 5-20-13
AUDITED BY DATE

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Resolution EAST

NO_x Monitoring Form

Site Operator: Kami Ballard **Date:** 05.17.2013

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	

Instrument Check Start Time	11:22 LT
Instrument Check Stop Time	11:34 LT
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.3
Instrument Range	500 PPB
Source Gas Conc.	~~40% NO~~ 40 ppm Oxides of Nitrogen RPA

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.3	0.1	-.02	—	±3% of full Scale (±15 PPB)	No
100 PPB	92.7	1.4	94.1	—	≤±10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-0.3	NO	-0.6	±2 PPB	No
	NO_2	0.1	NO_2	-0.2		
	NO_x	-0.2	NO_x	-0.3		
100 PPB	NO	92.7	NO	92.8	±2 PPB	No
	NO_2	1.4	NO_2	1.02		
	NO_x	94.1	NO_x	94.2		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	484	*Moly Temp. (315 ± 5°C)*	314.2
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.140	*NO Slope (1 ± 0.3)*	1.130
NOx Offset (0 ± 100)	-4.6	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

Operator Signature: Kami Ballard

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REVIEWED BY [signature] DATE 6.12.13
EDITED BY [signature] DATE 6/10/13

Resolution EAST

NO_x Monitoring Form

Site Operator: Kami Ballard Date: 5/31/2013

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700 / SN 191
	Transfer	—

Instrument Check Start Time	13:05
Instrument Check Stop Time	13:36
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	23.4
Instrument Range	500 PPB
Source Gas Conc.	~~40%~~ NO 40ppm

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.2	-0.6	-0.7	—	±3% of full Scale (±15 PPB)	No
100 PPB					≤±10% (90 to 110 PPB)	

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-0.2	NO	-0.4	±2 PPB	No
	NO_2	-0.6	NO_2	-0.8		
	NO_x	-0.7	NO_x	-0.7		
100 PPB	NO	99.9	NO	99.71	±2 PPB	No
	NO_2	2.1	NO_2	1.87		
	NO_x	102.1	NO_x	101.72		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	494	*Moly Temp. (315 ± 5°C)*	314.4
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.228	*NO Slope (1 ± 0.3)*	1.130
NOx Offset (0 ± 100)	17.2	*NO Offset (0 ± 100)*	0.2

Operator comments/observations: OPERATOR ERROR DURING LEVEL 1 ZERO/SPAN PROCEDURES RESULTED IN INVALID NO2 CONCENTRATIONS FROM 1500 - 5/31 to 1300 6/3 - RPA

Operator Signature: Kami Ballard

*- OPERATOR FORGOT TO DOCUMENT VALUES - RPA 1

$ - Operator has been notified of mis-communication.

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REVIEWED BY: [signature] DATE: 6-27-13
AUDITED BY: RPA DATE: 6-19-13

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami BaClard Date: 06·13·13

Sampler Make /Model		T200
Sampler SN		SN197
Dilution Calibrator Model/SN	Primary	T700/ SN191
	Transfer	—

Instrument Check Start Time	13:37 LT
Instrument Check Stop Time	14:02 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.1
Instrument Range	500PPB
Source Gas Conc.	40% NO

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.0	6.0	5.8	0.7	±3% of full Scale (±15 PPB)	Yes
100 PPB	93.6	5.3	99.1	101.0	≤±10% (90 to 110 PPB)	Yes

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	0.12	NO	-0.3	±2 PPB	~~No~~ Yes
	NO_2	0.7	NO_2	0.4		
	NO_x	0.7	NO_x	0.5		
100 PPB	NO	96.3	NO	96.1	±2 PPB	Yes
	NO_2	4.8	NO_2	4.3		
	NO_x	101.0	NO_x	100.8		

Final Response Y

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	494	*Moly Temp. (315 ± 5°C)*	314.6
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600V
NOx Slope (1 ± 0.3)	1.346	*NO Slope (1 ± 0.3)*	1.219
NOx Offset (0 ± 100)	16.5	*NO Offset (0 ± 100)*	0.3

Operator comments/observations:

Operator Signature: Kami BaClard

* Span and zero verified by N. Lee. Good operation and results. my

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Resolution EAST
NO_x Monitoring Form

Site Operator: RORY ATTRIDGE **Date:** 6-18-2013

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	Primary	T700/191
	Transfer	N/A

Instrument Check Start Time	1030
Instrument Check Stop Time	1330
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.6
Instrument Range	500 ppb
Source Gas Conc.	40 ppm NO

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.2	0.0	0.2	0.3	± 3% of full Scale (±15 PPB)	NO
100 PPB	99.0	0.7	99.7	99.8	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	0.2	NO	-0.04	± 2 PPB	NO
	NO_2	0.1	NO_2	-0.28		
	NO_x	0.3	NO_x	0.04		
100 PPB	NO	99.0	NO	99.9	± 2 PPB	NO
	NO_2	0.7	NO_2	0.18		
	NO_x	99.8	NO_x	99.5		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	486	*Moly Temp. (315 ± 5°C)*	315.6
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.215	*NO Slope (1 ± 0.3)*	1.199
NOx Offset (0 ± 100)	-0.1	*NO Offset (0 ± 100)*	1.4

Operator comments/observations:

LEVEL 1 ZERO/SPAN COMPLETED AFTER ANNUAL SERVICING OF THE M701 ZERO AIR GENERATOR Operator Signature:

FOUND THE PARTICLE FILTER BEZEL RING LOOSE - RPA

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AUDITED BY DATE 4/16/13

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami Ballard **Date:** 4/11/2013

Sampler Make /Model		T400
Sampler SN		SN224
Dilution Calibrator Model/SN	Primary	T700/ SN 191
	Transfer	

Instrument Check Start Time	16:46 LT
Instrument Check Stop Time	17:00 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	19.03
Instrument Range	500PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.43	—	≤ ± 2% of Full Scale (±10 PPB)	N
100	94.5	—	≤ ± 7% (93 to 107 PPB)	N

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.43	-.2	± 2 PPB	N
100 PPB	94.5	95.1	± 2 PPB	N

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	557	*Sample Temp. (10 - 50 °C)*	39.5
Photo Lamp (58 ± 1 °C)	58.0	*BOX Temp. (30 ± 20 °C)*	27.7
Slope (1 ± 0.15)	0.899	*O3 Measure (2500 - 4800 mV)*	3553.2
Offset (0.0 ± 5 PPB)	0.3	*O3 Reference (2500 - 4800 mV)*	3556.3

Operator comments/observations:
Check for correct flow

Operator Signature: Kami Ballard

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REVIEWED BY [signature] DATE 5-9-13
AUDITED BY RPA DATE 5-7-13

Resolution EAST

O_3 Monitoring Form

Site Operator: Kami Ballard Date: 5-02-2013

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	13:06 LT
Instrument Check Stop Time	13:25 LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	23.4
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.1	—	≤ ± 2% of Full Scale (±10 PPB)	No
* 100	108.4	101.9	≤ ± 7% (93 to 107 PPB)	Yes

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.1	0.6	± 2 PPB	No
100 PPB	101.9	102.4	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	566	*Sample Temp. (10 - 50 °C)*	40.6
Photo Lamp (58 ± 1 °C)	58.0°	*BOX Temp. (30 ± 20 °C)*	27.9
Slope (1 ± 0.15)	.958	*O3 Measure (2500 - 4800 mV)*	3506.6
Offset (0.0 ± 5 PPB)	.6	*O3 Reference (2500 - 4800 mV)*	3506.6

Operator comments/observations:
INVALIDATED O_3 CONCENTRATION DATA FROM 0400 – 1400 HRS ON 5-2-13

Operator Signature: [signature]

* DAILY AUTO ZERO/SPAN RESULTS FOR 5-2-13 @ 0230-0245 HRS REFLECT O_3 CONCENTRATION OF 100.3 PPB AND 0.78 PPB FOR ZERO AIR WITH 1.8 PPB STABILITY, DATA INVALID FROM 0400-1400 DUE TO DRIFTING – RPA

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WHW 6-11-13
REVIEWED BY DATE

RPA 5-20-13
AUDITED BY DATE

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kara BaCard Date: 5-17-2013

Sampler Make/Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	11:45 LT
Instrument Check Stop Time	* — RPA
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.1
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.7	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	91.4	94.7	≤ ± 7% (93 to 107 PPB)	** — RPA

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.7	.8	± 2 PPB	No
100 PPB	94.7	94.5	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	565	*Sample Temp. (10 - 50 °C)*	38.7
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	26.3
Slope (1 ± 0.15)	.894	*O3 Measure (2500 - 4800 mV)*	3473.8
Offset (0.0 ± 5 PPB)	0.6	*O3 Reference (2500 - 4800 mV)*	3477.0

Operator comments/observations:
* INVALIDATED THE 1200 AND 1300 HRS HOURLY FILES FOR O^3 DUE TO THE ABSENCE OF THE STOP TIME. -RPA Operator Signature: Kara BaCard
** REMOTE SPAN REQUIRED

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami BeClard Date: 5/31/2013

Sampler Make /Model		T400
Sampler SN		SN 724
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	13:49
Instrument Check Stop Time	*
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	22.6
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.3	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	100.3	—	≤ ± 7% (93 to 107 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	-0.3	0.29	± 2 PPB	No
100 PPB	100.3	101.4	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	565	*Sample Temp. (10 - 50 °C)*	38.6
Photo Lamp (58 ± 1 °C)	58.0	*BOX Temp. (30 ± 20 °C)*	26.1
Slope (1 ± 0.15)	.894	*O3 Measure (2500 - 4800 mV)*	3450.5
Offset (0.0 ± 5 PPB)	0.6	*O3 Reference (2500 - 4800 mV)*	3453.7

Operator comments/observations:
* was not filled out.

Operator Signature: Kami BeClard

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REVIEWED BY RPA DATE 6-19-13
AUDITED BY DATE 6-27-13

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami BaClard Date: 06.14.2013

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700 / SN 191
	Transfer	—

Instrument Check Start Time	14:24 LT
Instrument Check Stop Time	14:50 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	21.67
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	2.0	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	47.9	49.7	≤ ± 7% (93 to 107 PPB)	Yes

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	2.0	2.56	± 2 PPB	No
100 PPB	49.7	51.4	± 2 PPB	Yes

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	.598	*Sample Temp. (10 - 50 °C)*	37.6
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	25.9
Slope (1 ± 0.15)	.894	*O3 Measure (2500 - 4800 mV)*	3436.5
Offset (0.0 ± 5 PPB)	0.6	*O3 Reference (2500 - 4800 mV)*	3436.6

Operator comments/observations:
Could not get calibrator to work or span correctly.
Operator Signature: Kami BaClard

* SITE VISIT ON 6-18-13 TO INVESTIGATE THE T400'S INABILITY TO SPAN - DISCOVERED THE PARTICLE FILTER ASSEMBLY BEZEL RING LOOSE DURING INITIAL FLOW LINE INSPECTION AND LEAK CHECK — RPA

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REVIEWED BY RPA DATE 6-27-2013
AUDITED BY DATE 6-19-13

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Resolution EAST

O_3 Monitoring Form

Site Operator: RORY ATTRIDGE **Date:** 6-18-2013

Sampler Make /Model		T 400
Sampler SN		244
Dilution Calibrator Model/SN	Primary	T700/191
	Transfer	N/A

Instrument Check Start Time	1030
Instrument Check Stop Time	1330
Filter Replacement Y/N	YES
Shelter Temp (5 to 40 °C)	22.4
Instrument Range	500 ppb

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-6.7	0.1	≤ ± 2% of Full Scale (±10 PPB)	YES
100	98.4	99.9	≤ ± 7% (93 to 107 PPB)	YES

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.1	0.64	± 2 PPB	NO
100 PPB	99.9	98.92	± 2 PPB	NO

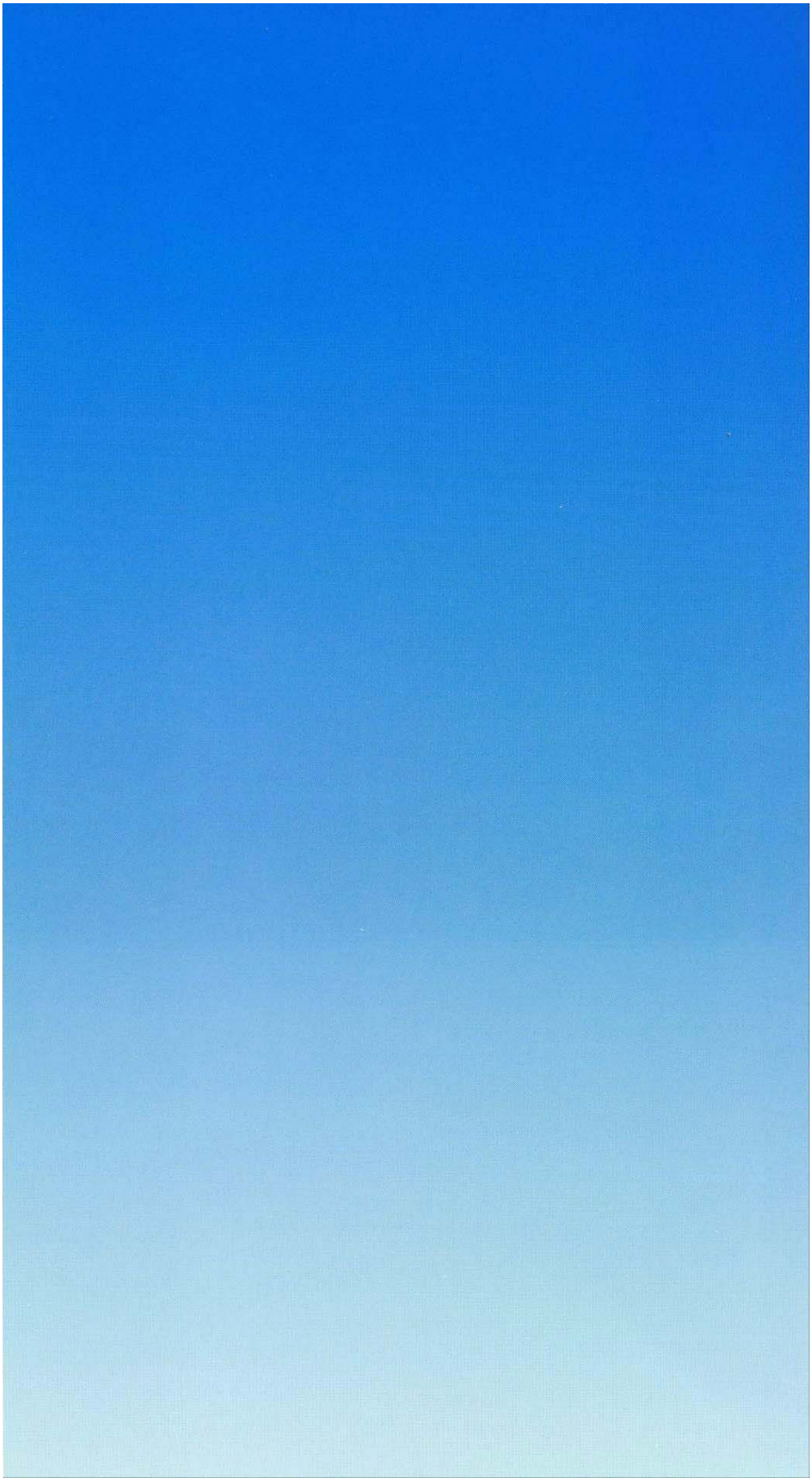
Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	559	*Sample Temp. (10 - 50 °C)*	35.5
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	25.0
Slope (1 ± 0.15)	0.902	*O3 Measure (2500 - 4800 mV)*	3424.1
Offset (0.0 ± 5 PPB)	1.1	*O3 Reference (2500 - 4800 mV)*	3425.6

Operator comments/observations: RESPONDED TO THE T400's INABILITY TO SPAN: DISCOVERED THE T400's PARTICLE FILTER ASSEMBLY BEZEL RING LOOSE DURING INSPECTION.

Operator Signature: RCA

Appendix K: Audits and Calibrations



Air Quality Calibration Report East Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
RORY ATTRIDGE
AIR SCIENCES INC.

PROJECT 262-5
APRIL 2013

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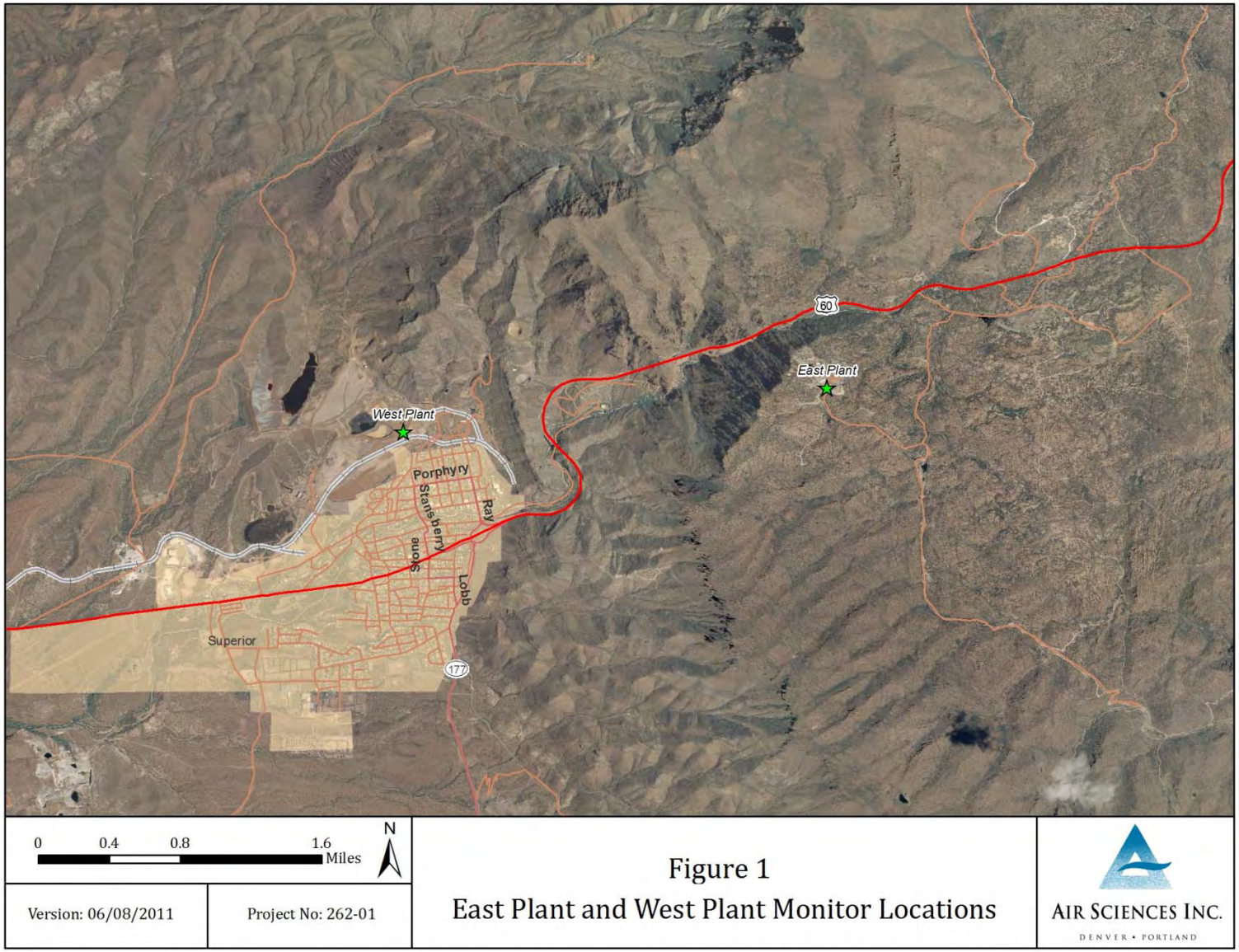
1.0 INTRODUCTION

On April 23 and 29, 2013, the air quality instrumentation was calibrated at the Resolution Copper East Plant, near Superior, AZ. The East Plant monitoring station is operated by the Resolution Copper Mining company and is located approximately two miles east of the West operation plant (see Figure 1). The purpose of this document is to provide a brief synopsis of the air quality monitoring system and of the calibration procedures for the particulate and ambient gas instrumentation at the East plant site. The calibration was conducted in accordance with the following guideline documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II:Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Transfer Standards for the Calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-10-001)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1: Project Location Map – East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The parameters calibrated at the East monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and ozone (O_3). The analyzers are housed in a 60-square-foot climate controlled trailer. Inlet heights are listed in Table 1.

Table 1. Instruments and inlet heights

Parameter	Approximate Height (meters)
PM_{10}	3
$PM_{2.5}$	3
NO_2	3
SO_2	3
O_3	3

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

3.0 CALIBRATION METHODOLOGY

This section provides the calibration procedures for the particulate and ambient gas instrumentation at the East monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Particulate Matter Calibration Procedures

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified deltaCal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the instrument were recorded on a standardized form.

3.2 Ambient Gas Calibration Procedures

Calibration of the Teledyne T100 SO_2 analyzer involved a Multi-Point Audit (MPA) and an Analog to Digital (A2D) verification. The MPA was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol calibration gas with a clean zero-air source to calibrate the T100 analyzer at zero, and at five points within the instrument range—typically a points from 100 to 500 PPB of SO_2. An A2D verification check of the T100 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Calibration of the Teledyne T200 NO_2 analyzer involved an MPA and an A2D verification. The SPC was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit gas with a clean zero-air source to calibrate the T200 analyzer at zero, and five points within the instrument range—typically point from 100 to 500 PPB of NO_X. A verification check of the T200 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Calibration of the Teledyne T400 O_3 analyzer involved an MPA, and an A2D verification. The SPC was performed by using the T700 calibrator to generate O_3 gas to calibrate the T400 analyzer at zero, and at a single point within the instrument range—typically a point from 100 to 500 PPB of O_3. An MPA was performed using a 700E transfer standard calibrator to evaluate the calibration by verifying the analyzer's response to zero and five upscale spans. After the MPA, a verification check of the T400 instrument against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

4.0 RESULTS AND RECOMMENDATIONS

All instruments and sensors were within their recommended tolerance parameters at the Resolution Copper East Plant monitoring site.

Appendix A: Calibration Forms

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	4/23/2013	**Audited By:**	K. Steerman/R. Attridge
Audit Time:	1230-1430hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.2 LPM	Should Be: <1.0	as left:	0.1 LPM	Should Be: <1.0	

		BAM	**Ref. Std.**		**BAM**	**Ref. Std.**		
Ambient Temperature (°C):	as found:	25.0	23.6	as left:	23.5	23.7	Adjusted	X
Barometric Pressure (mmHg):	as found:	672	652.0	as left:	652	652.0	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.13	as left:	15.0	14.93	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.72	as left:	18.4	18.19	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.84	as left:	16.7	16.67	Adjusted	

Audit Notes: **Found in a clean, serviceable condition, corrected time drift.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left		N/A	x
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

Signature: Kathy Steerman

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	4/23/2013	**Audited By:**	K. Steerman/R. Attridge
Audit Time:	1230-1430hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.3 LPM	Should Be: <1.0	as left:	0.2 LPM	Should Be: <1.0		
		BAM	**Ref. Std.**		**BAM**	**Ref. Std.**		
Ambient Temperature (°C):	as found:	24.2	24.5	as left:	24.4	24.5	Adjusted	
Barometric Pressure (mmHg):	as found:	649	652.0	as left:	652	652.0	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	14.93	as left:	15.0	14.96	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	17.88	as left:	18.4	18.30	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.50	as left:	16.7	16.69	Adjusted	

Audit Notes: **Instrument found in a clean, serviceable condition, corrected time drift, completed the 72hr BKGD test.**

Mechanical Audits

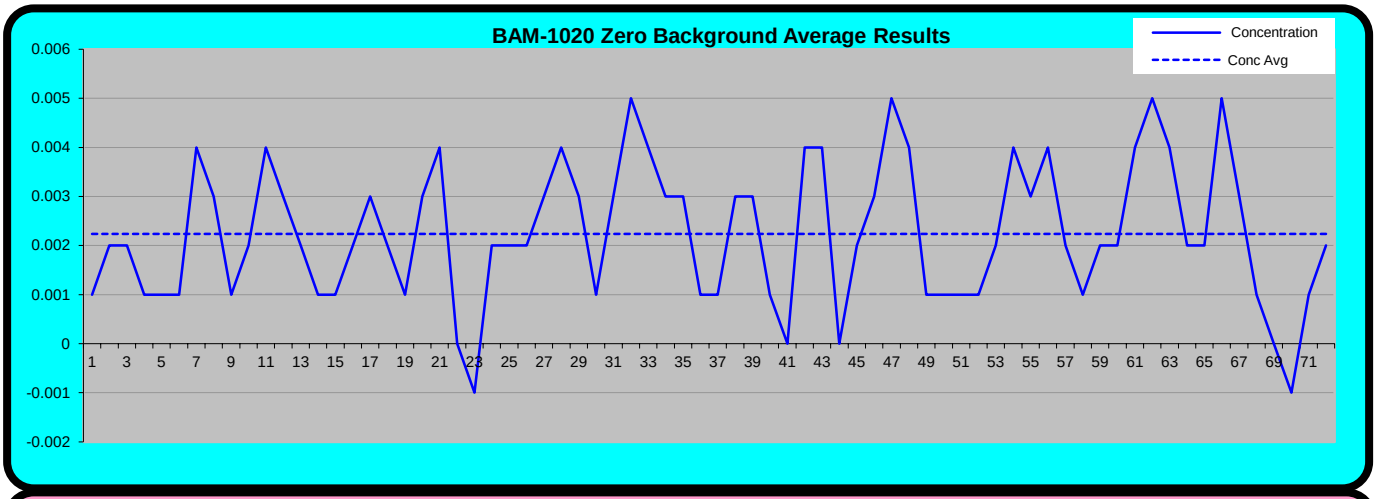
Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
on	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

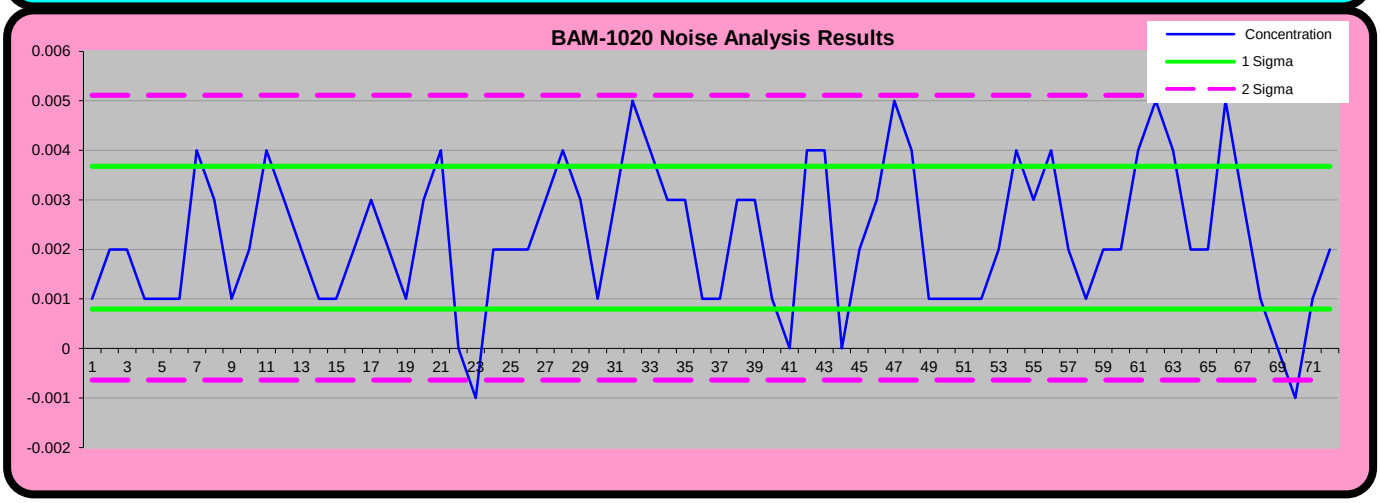
Signature: Kathy Steerman

Rev A Jan 2010
Met One
Instruments

Test Records	
BAM-1020 Serial Number:	East Plant M6466
Test Performed By:	R. Attridge
Test Start Date:	4/19/2013
Test End Date:	4/23/2013
Previous BKGD Value:	-0.0024
BKGD Value During Test:	0.0000

Dataset Statistics (milligrams)		
Zero Average	0.0022	Within Bounds!
Hourly Standard Deviation (σ)	0.0014	Within Bounds!
Hourly Detection Limit (2σ)	0.0029	Within Bounds!
Background (BKGD)	**-0.0022**	Set this value in the BAM-1020





AIR SCIENCES INC.

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Resolution EAST

NO_x Monitoring Form

Site Operator: K. Steerman **Date: 4-23-2013**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	**N/A**
	Transfer	**700E/1098**

Instrument Check Start Time	1400
Instrument Check Stop Time	2100
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.8
Instrument Range	500 ppb
Source Gas Conc.	40 ppm NO

Level 1 Zero/ Span (once every 2 weeks)
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	NO_x Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.8	-6.5	-7.3	-0.1	± 3% of full scale (± 15 PPB)	N
100 PPB	96.6	-4.5	92.0	99.8	≤ ± 10% (90 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	-0.8	NO	-0.8	± 2	N
	NO_2	-6.5	NO_2	-6.7		
	NO_x	-7.3	NO_x	-7.4		
100	NO	96.6	NO	96.1	± 2	N
	NO_2	-4.5	NO_2	-4.7		
	NO_x	92.0	NO_x	91.8		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	483	Moly Temp. (315 ± 5°C)	316.3
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 – 900 V)	600

NO_x Slope (1 ± 0.3)	1.140	NO Slope (1 ± 0.3)	1.130
NO_x Offset (0 ± 100)	4.6	NO Offset (0 ± 100)	0.1

Operator comments/ observations: None

Multipoint Calibration (Quarterly, or as needed):
Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air						
100						
200						
300						
400						
500						

Best Fit Line (BFL)

Transfer Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	-0.3	-0.8	-1.1	-1.6	PASS, 0 ± 5
100	103	101.8	-1.6	100.2	100.6	PASS, 0.4%
200	200	198.3	-0.2	198.1	196.9	PASS, 0.6%
300	301	296.1	-2.9	293.2	297.1	PASS, 1.3%
400	400	399.3	-0.5	398.8	395.4	PASS, 0.9%
500	500	491.7	1.7	493.8	494.6	PASS, 0.2%

Best Fit Line (BFL)
Y= 0.9924x + -1.5831
R^2 = 0.99983

Operator comments/ observations: Multipoint calibration using the Primary Standard pending.

Operator Signature:

Kathy Steerman

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Resolution EAST

SO_2 Monitoring Form

Site Operator: K. Steerman **Date: 4-23-2013**

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	N/A
	Transfer	M700E / SN1098

Instrument Check Start Time	1400
Instrument Check Stop Time	2200
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.8
Instrument Range	500 ppb
Source Gas Conc.	40 ppm

Level 1 Zero/ Span (once every 2 weeks):
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO_2 Response (PPB)	Final SO_2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.04	0.060	± 3% of Full Scale (-15 to 15 PPB)	N
100	101.3	100.5	≤ ± 10% (360 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	SO_2 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.01	0.01	± 2	N
100	100.5	101.3	± 2	N

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	405	Sample Press. (Ambient ± 2 in-Hg)	23.5
UV Lamp (1000 – 4800 mV)	3006.9	Lamp Ratio (30 – 120%)	83.8
Slope (1 ± 0.3)	1.187	BOX Temp. (Ambient ± 5°C)	35.2
Offset (< 250 mV)	18.5	HVPS (400 – 900 V)	571

Operator comments/ observations:

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air				
100				
200				
300				
400				
500				

Best Fit Line (BFL)

Transfer Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	-0.110	1.021	PASS, < 2% FS
100	103.00	104.00	103.120	PASS, 0.9%
200	203.00	202.20	202.246	PASS, 0%
300	301.00	301.20	299.389	PASS, 0.6%
400	400.00	399.60	397.523	PASS, 0.5%
500	499.00	492.90	495.657	PASS, 0.6%

Best Fit Line (BFL)
$Y = 0.9913x + 1.0207$
$R^2 = 0.99988$

Operator Comments/ observations: Multipoint calibration using the Primary Standard pending.

Operator Signature:

Kathy Steerman

AIR SCIENCES INC.

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Resolution EAST

O_3 Monitoring Form

Site Operator: K. Steerman **Date: 4-23-2013**

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	**Primary**	N/A
	Transfer	M700E/ 1098

Instrument Check Start Time	1400
Instrument Check Stop Time	2100
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.8
Instrument Range	500 ppb

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/ Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O_3 Response (PPB)	Final O_3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	3.9	0.6	≤ ± 2% of Full Scale (± 10 PPB)	N
100	100.700	100.200	≤ ± 7% (93 to 107 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	3.9	3.4	± 2	N
100	100.9	101.4	± 2	N

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	554	Sample Temp. (10 - 50°C)	39.8
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	27.1
Slope (1 ± 0.15)	0.894	O_3 Measure (2500 – 4800 mV)	3479.2
Offset (0.0 ± 5 PPB)	-0.6	O_3 Reference (2500 – 4800 mV)	3481.1

Operator comments/ observations: None

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air				
100				
200				
300				
400				
500				

Best Fit Line (BFL)

Target Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	0.2	-0.166	PASS, < 2% FS
100	100.0	88.6	90.3	PASS, 1.9%
200	200.0	179.2	180.8	PASS, 0.9%
300	300.0	270.5	271.2	PASS, 0.3%
400	401.0	362.2	362.6	PASS, 0.1%
500	499.0	452.0	451.3	PASS, 0.2%

Best Fit Line (BFL)
$Y = 0.9046x + -0.1664$
$R^2 = 0.99999$

Operator Comments / Observations: Multipoint calibration using the Primary Standard pending.

Operator Signature:

Kathy Steerman

AIR LIQUIDE | Air Liquide America Specialty Gases LLC | Scott

RATA CLASS

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD, LONGMONT, CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: Interference Free™ Multi-Component EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A42012

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
500 WEAVER PARK RD
LONGMONT, CO 80501

P.O. No.: 262-1-7
Document # : 44828172-001

Customer
AIR SCIENCES INC

810 BRICKYARD CIRCLE
UNIT 4
GOLDEN CO 80403
US

ANALYTICAL INFORMATION **Gas Type : SN**

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: CAL7918
Cylinder Pressure*:** 1810 PSIG
Certification Date: 02Feb2012
Exp. Date: 01Feb2014
Batch No: LGM0046834

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ACCURACY**	TRACEABILITY
SULFUR DIOXIDE *	40.5	PPM	+/- 1%	Direct NIST and VSL
NITRIC OXIDE	40.8	PPM	+/- 1%	Direct NIST and VSL
NITROGEN - OXYGEN FREE		BALANCE		
TOTAL OXIDES OF NITROGEN	40.9	PPM		Reference Value Only

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1693	20Aug2016	KAL003209	49.67 PPM	SULFUR DIOXIDE
NTRM 1683	15Aug2012	KAL004219	51.08 PPM	NITRIC OXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//0929062	21Jan2012	FTIR
FTIR//0929062	06Jan2012	FTIR

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

SULFUR DIOXIDE *

First Triad Analysis	Second Triad Analysis	Calibration Curve
Date: 26Jan2012 Response Unit:PPM	Date: 02Feb2012 Response Unit: PPM	Concentration = A + Bx + Cx2 + Dx3 + Ex4
Z1 = -0.02987 R1 = 49.66086 T1 = 40.59222	Z1 = -0.03169 R1 = 49.50454 T1 = 40.34390	r = 9.99990E-1
R2 = 49.70089 Z2 = -0.00773 T2 = 40.52595	R2 = 49.50675 Z2 = -0.00809 T2 = 40.35819	Constants: A = 0.00000E + 0
Z3 = 0.01412 T3 = 40.67258 R3 = 49.71184	Z3 = -0.00129 T3 = 40.39683 R3 = 49.67161	B = 9.97158E-1 C = -8.00000E-6
Avg. Concentration: 40.58 PPM	Avg. Concentration: 40.46 PPM	D = 0.00000E + 0 E = 0.00000E + 0

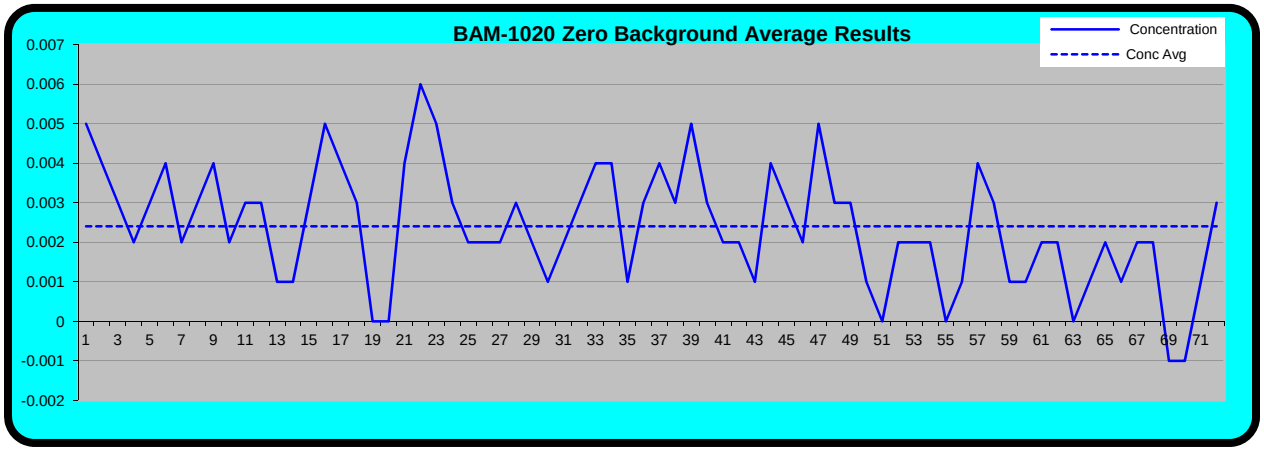
NITRIC OXIDE

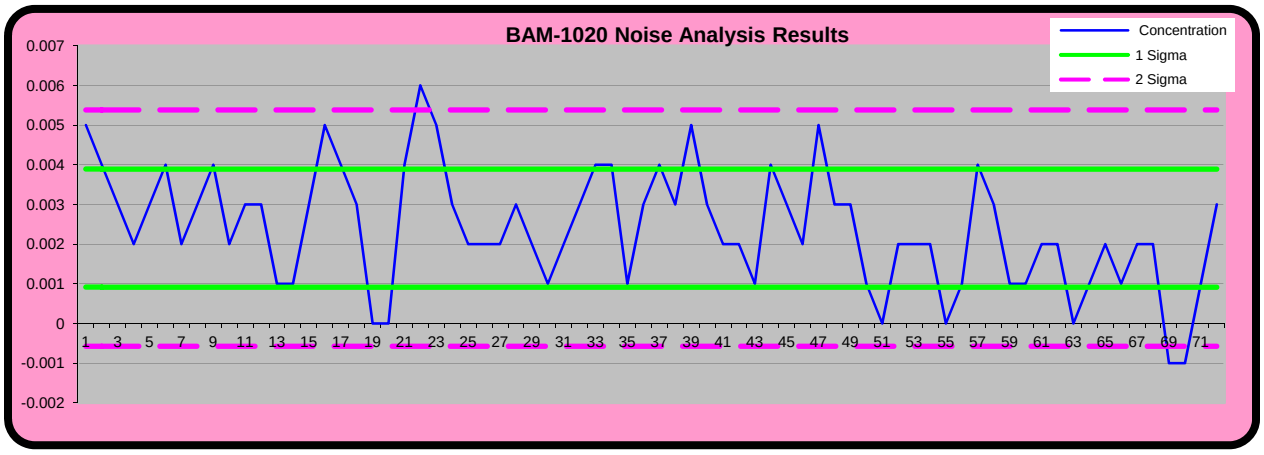
Date: 26Jan2012 Response Unit:PPM	Date: 02Feb2012 Response Unit: PPM	Concentration = A + Bx + Cx2 + Dx3 + Ex4
Z1 = -0.00706 R1 = 50.97412 T1 = 40.70478	Z1 = -0.18552 R1 = 50.91009 T1 = 40.49151	r = 9.99993E-1
R2 = 51.19667 Z2 = 0.01356 T2 = 40.73158	R2 = 50.93476 Z2 = -0.05855 T2 = 40.63717	Constants: A = 0.00000E + 0
Z3 = 0.04215 T3 = 41.04479 R3 = 51.35564	Z3 = -0.02355 T3 = 40.84715 R3 = 50.97817	B = 9.48291E-1 C = 1.92000E-4
Avg. Concentration: 40.75 PPM	Avg. Concentration: 40.79 PPM	D = 0.00000E + 0 E = 0.00000E + 0

APPROVED BY: JW
Jon Witzak

Test Records	
BAM-1020 Serial Number:	M6466
Test Performed By:	R. Attridge
Test Start Date:	4/23/2012
Test End Date:	4/26/2012
Previous BKGD Value:	-0.0036
BKGD Value During Test:	-0.0036

Dataset Statistics (milligrams)		
Zero Average	0.0024	Within Bounds!
Hourly Standard Deviation (σ)	0.0015	Within Bounds!
Hourly Detection Limit (2σ)	0.0030	Within Bounds!
Background (BKGD)	**-0.0024**	value in the BAM-1020





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Resolution EAST

NO_x Monitoring Form

Site Operator: R. Attridge **Date: 4-29-2013**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	**T700/191**
	Transfer	**N/A**

Instrument Check Start Time	0800
Instrument Check Stop Time	1300
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.5
Instrument Range	500 ppb
Source Gas Conc.	40 ppm NO

Level 1 Zero/ Span (once every 2 weeks)
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	NO_x Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.2	-1.6	1.4	-0.1	± 3% of full scale (± 15 PPB)	N
100 PPB	97.7	0.1	98.1	97.1	≤ ± 10% (90 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	-0.2	NO	-0.2	± 2	N
	NO_2	1.6	NO_2	-0.4		
	NO_x	1.4	NO_x	-0.3		
100	NO	97.9	NO	97.2	± 2	N
	NO_2	0.1	NO_2	-0.2		
	NO_x	98.1	NO_x	97.7		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	483	Moly Temp. (315 ± 5°C)	314.7
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 – 900 V)	600

NO_x Slope (1 ± 0.3)	1.140	NO Slope (1 ± 0.3)	1.130
NO_x Offset (0 ± 100)	4.6	NO Offset (0 ± 100)	0.1

Operator comments/ observations: None

Multipoint Calibration (Quarterly, or as needed):
Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	-0.2	-0.4	-0.3	-0.4	PASS, 0 ± 5
100	100	97.9	0.1	98.1	100.0	PASS, 1.9%
200	200	201.4	1.2	202.6	200.5	PASS, 1.1%
300	300	300.0	1.1	301.3	300.9	PASS, 0.1%
400	399	396.6	3.8	400.3	400.3	PASS, 0%
500	500	497.1	3.8	501.1	501.8	PASS, 0.1%

Best Fit Line (BFL)
Y = 1.0044x + -0.4098
R^2 = 0.99995

Transfer Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air						
100						
200						
300						
400						
500						

Best Fit Line (BFL)

Operator comments/ observations: None

Operator Signature: Rory Attridge

AIR SCIENCES INC.

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Resolution EAST

O_3 Monitoring Form

Site Operator: R. Attridge **Date: 4-29-2013**

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	N/A

Instrument Check Start Time	0800
Instrument Check Stop Time	1300
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.5
Instrument Range	500 ppb

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/ Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O_3 Response (PPB)	Final O_3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.1	0.5	≤ ± 2% of Full Scale (± 10 PPB)	N
100	99.5	100.4	≤ ± 7% (93 to 107 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.5	0.5	± 2	N
100	100.4	100.9	± 2	N

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	549	Sample Temp. (10 - 50°C)	39.7
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	27.2
Slope (1 ± 0.15)	0.958	O_3 Measure (2500 – 4800 mV)	3514.7
Offset (0.0 ± 5 PPB)	0.6	O_3 Reference (2500 – 4800 mV)	3516.7

Operator comments/ observations: None

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	0.5	1.9	PASS, < 2% FS
100	100.0	99.5	97.6	PASS, 1.9%
200	200.0	195.8	289.9	PASS, 0.9%
300	301.0	292.8	289.9	PASS, 1.3%
400	400.0	385.9	384.5	PASS, 0.4%
500	501.0	478.3	481.2	PASS, 0.6%

Best Fit Line (BFL)
Y = 0.9565x + 1.9493
R^2 = 0.99984

Target Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air				
100				
200				
300				
400				
500				

Best Fit Line (BFL)

Operator Comments / Observations: None

Operator Signature: Rory Attridge

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Resolution EAST

SO_2 Monitoring Form

Site Operator: R. Attridge **Date: 4-29-2013**

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	N/A

Instrument Check Start Time	0800
Instrument Check Stop Time	1300
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.5
Instrument Range	500 ppb
Source Gas Conc.	40 ppm

Level 1 Zero/ Span (once every 2 weeks):
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO_2 Response (PPB)	Final SO_2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.11	0.001	± 3% of Full Scale (-15 to 15 PPB)	N
100	102.5	100.04	≤ ± 10% (360 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	SO_2 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.001	0.198	± 2	N
100	100.04	100.7	± 2	N

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	439	Sample Press. (Ambient ± 2 in-Hg)	23.5
UV Lamp (1000 – 4800 mV)	2943.1	Lamp Ratio (30 – 120%)	82.1
Slope (1 ± 0.3)	1.089	BOX Temp. (Ambient ± 5°C)	32.4
Offset (< 250 mV)	18.1	HVPS (400 – 900 V)	571

Operator comments/ observations: None

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

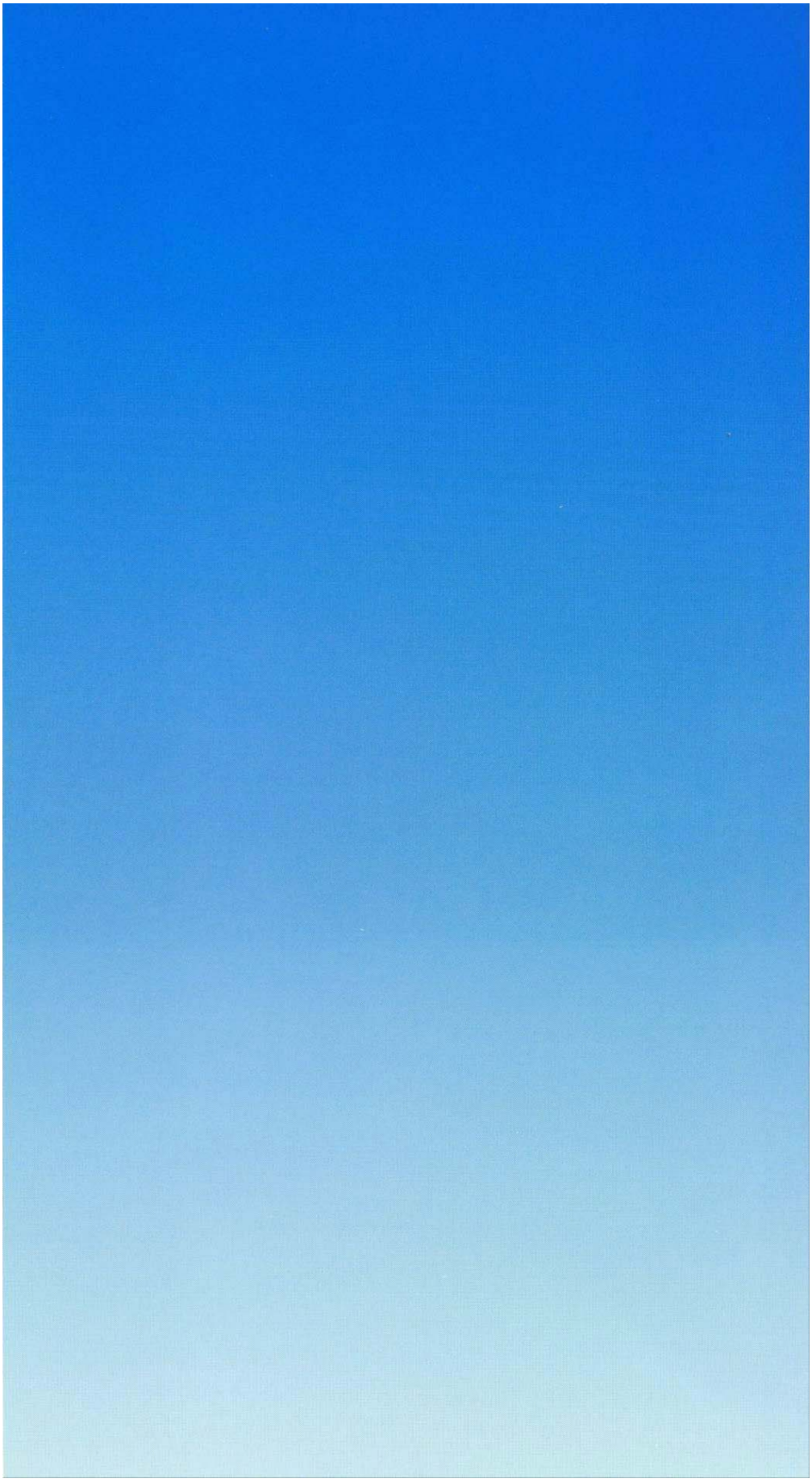
Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.00	0.001	-0.123	PASS, <2%FS
100	101	100.04	100.219	PASS, 0.2%
200	200	199.50	198.574	PASS, 0.5%
300	300	297.50	297.922	PASS, 0.1%
400	399	396.5	396.277	PASS, 0.1%
500	499	495.7	495.625	PASS, 0%
			Best Fit Line (BFL)	
			Y = 0.9935x + -0.1225	
			R^2 = 1	

Transfer Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air				
100				
200				
300				
400				
500				
			Best Fit Line (BFL)	

Operator Comments/ observations: None

Operator Signature: Rory Attridge



Air Quality Calibration Report West Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
RORY ATTRIDGE
AIR SCIENCES INC.

PROJECT 262-5
APRIL 2013

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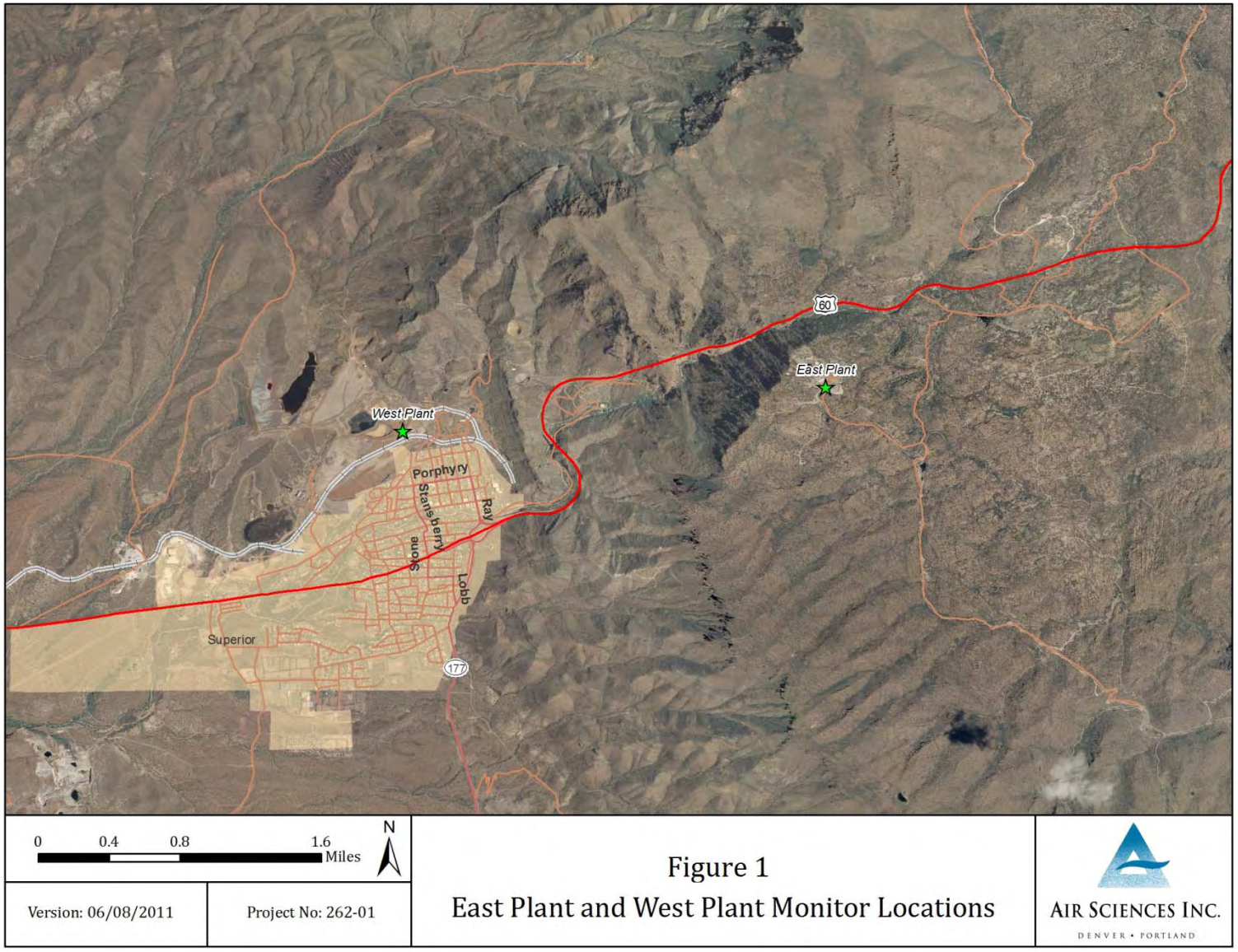
SECTION 1

INTRODUCTION

On April 23, 2013, the air quality instrumentation was calibrated at the Resolution Copper West Plant, near Superior, AZ. The West Plant monitoring station is operated by the Resolution Copper Mining company and is located approximately one quarter mile west of the administration buildings (see Figure 1). The calibration was conducted in accordance with the following guideline documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II:Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1: Project Location Map – East Plant and West Plant Monitoring Station Locations



SECTION 2

SYSTEM DESCRIPTION

The parameters calibrated at the West monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$). The particulate instrumentation is housed in a climate controlled shelter. Inlet heights are listed in Table 1.

Table 1. Instruments and inlet heights

Parameter	Approximate Height (meters)
PM_{10}	2
$PM_{2.5}$	2

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

SECTION 3

CALIBRATION METHODOLOGY

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified Delta-Cal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure and flow output readings from the Delta-Cal and the instrument were recorded on a standardized form.

Copies of the completed calibration data forms for each parameter are attached.

SECTION 4

RESULTS AND RECOMMENDATIONS

All calibrated instruments and calibrated sensors were within their recommended tolerance parameters.

ATTACHMENT

Calibration Data Forms

West Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	4/23/2013	**Audited By:**	K.Steerman/R. Attridge
Audit Time:	0930-0955 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value: as found: 0.1 LPM Should Be: <1.0 as left: 0.1 LPM Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	26.8	27.7	as left:	27.6	27.3	Adjusted	
Barometric Pressure (mmHg):	as found:	685	682.0	as left:	682	682.0	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.13	as left:	15.0	15.01	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.62	as left:	18.4	18.48	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.81	as left:	16.7	16.70	Adjusted	X

Audit Notes: Monitor found in a very clean and serviceable condition.

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found	X	As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found	X	As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found	X	As left	X	PM2.5 particle trap clean:	As found		As left		N/A	X
Rubber pinch rollers clean:	As found	X	As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	X		

Signature: Kathy Steerman

West Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8193
Audit Date:	4/23/2013	**Audited By:**	K.Steerman/R.Attridge
Audit Time:	0845- 0925hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.2 LPM	Should Be: <1.0	as left:	0.1 LPM	Should Be: <1.0		
		BAM	**Ref. Std.**		**BAM**	**Ref. Std.**		
Ambient Temperature (°C):	as found:	25.8	23.8	as left:	24.6	24.3	Adjusted	X
Barometric Pressure (mmHg):	as found:	683	682.0	as left:	682	682.0	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	14.95	as left:	15.0	14.96	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.19	as left:	18.4	18.20	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.53	as left:	16.7	16.71	Adjusted	X

Audit Notes: Instrument found in a clean and serviceable condition; completed the 72hr BKGD test and input the new BKD value.

Mechanical Audits

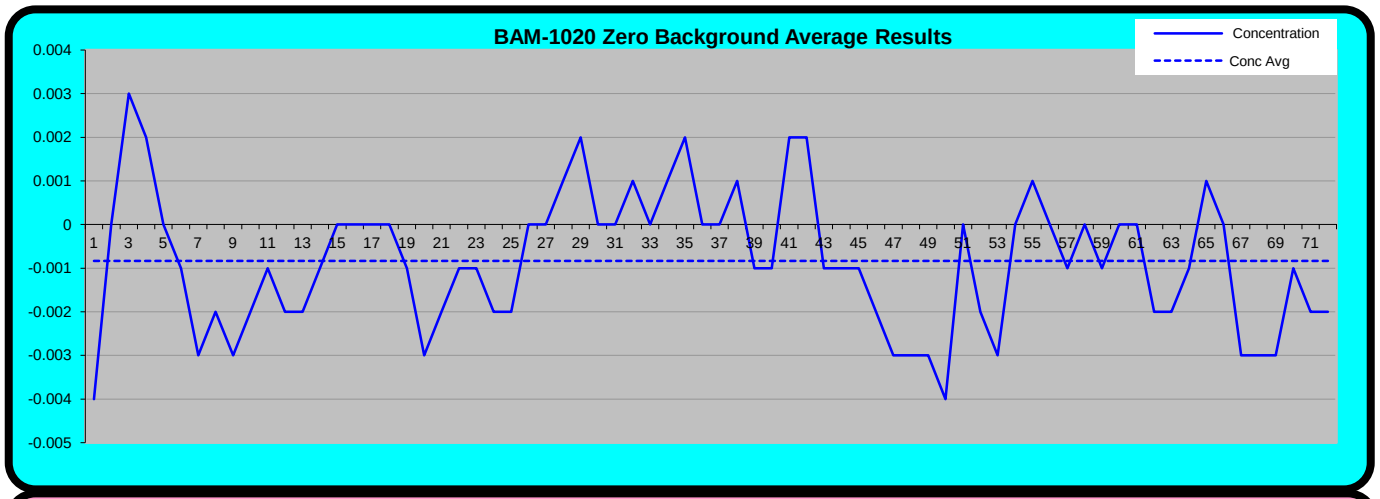
Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found	X	As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found	X	As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		As left	X		
on	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

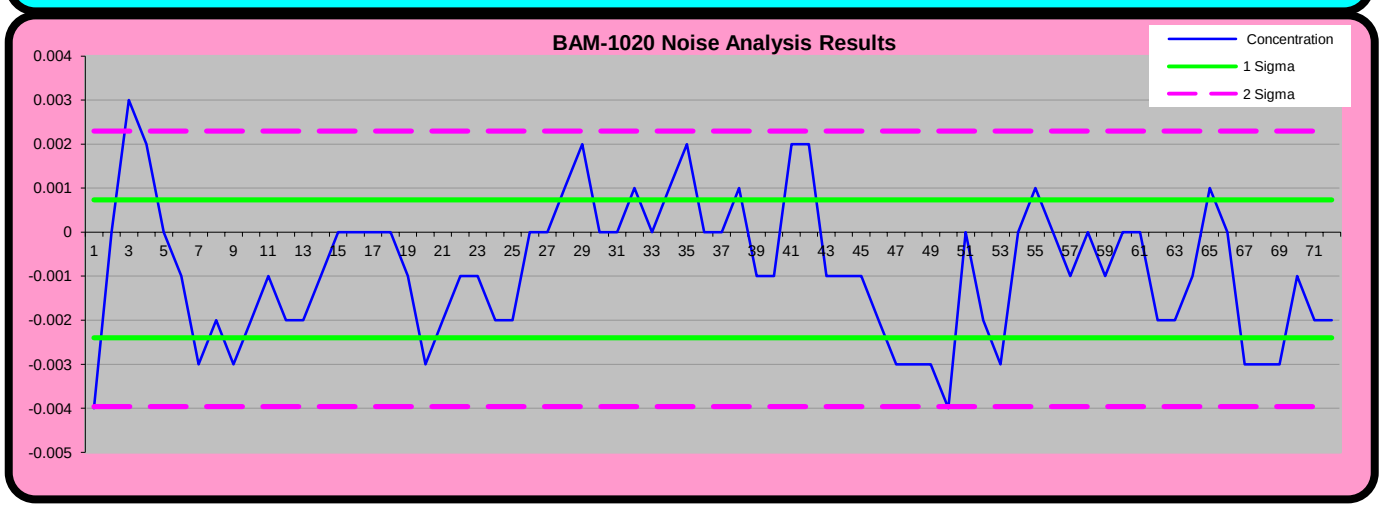
Signature: Kathy Steerman

Met One Instruments

BAM-1020 Serial Number:	West Plant M8193
Test Performed By:	R. Attridge
Test Start Date:	4/19/2013
Test End Date:	4/23/2013
Previous BKGD Value:	-0.0015
BKGD Value During Test:	0.0000

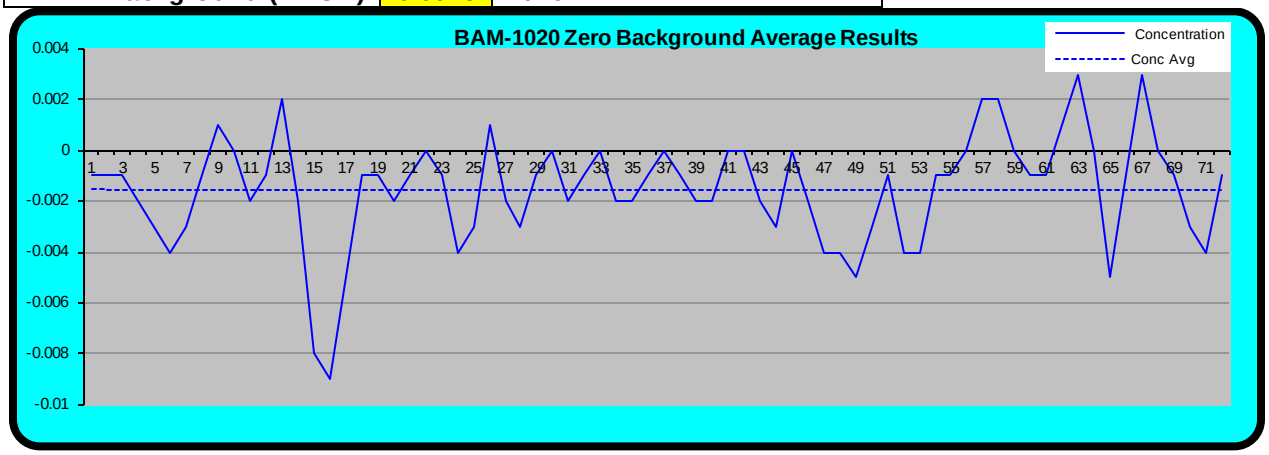
Dataset Statistics (milligrams)		
Zero Average	-0.0008	Within Bounds!
Hourly Standard Deviation (σ)	0.0016	Within Bounds!
Hourly Detection Limit (2σ)	0.0031	Within Bounds!
Background (BKGD)	**0.0008**	Value set in the BAM-1020

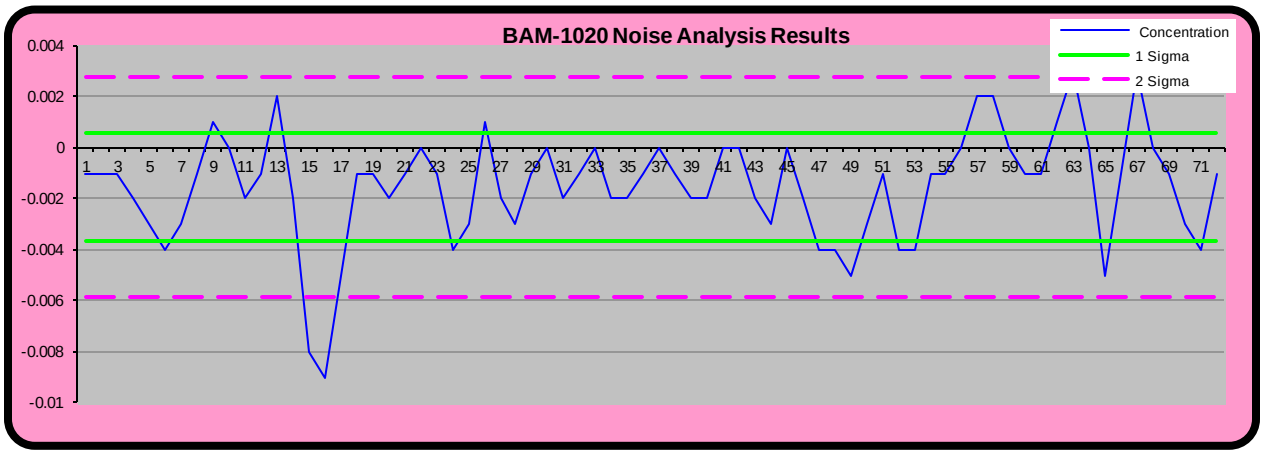




Test Records	
BAM-1020 Serial Number:	West Plant PM2.5 M8133
Test Performed By:	R. Attridge
Test Start Date:	4/23/2012
Test End Date:	4/26/2012
Previous BKGD Value:	0.0023
BKGD Value During Test:	0.0023

Dataset Statistics (milligrams)		
Zero Average	-0.0015	Within Bounds!
Hourly Standard Deviation (σ)	0.0021	Within Bounds!
Hourly Detection Limit (2σ)	0.0043	Within Bounds!
Background (BKGD)	**-0.0015**	Set this value in the BAM-1020





Appendix L: CD